PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

Project number:
22-00127

Sixth Edition
July 2020

Preface

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

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

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

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

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

a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.

b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.

c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;

b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;

c. The deadline for the submission and receipt of bids; and

d. Any important bid evaluation criteria.

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

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

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

October 6, 2022

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
Buildings – Small B							
1	22-00114	Proposed Construction of Handwashing Facility and Rehabilitation of Comfort Rooms at Commonwealth High School	Common wealth	1,706,526.24	60	Engineering Department	Special Education Fund
2	22-00115	Proposed Construction of Handwashing Facility and Rehabilitation of Kalantiyaw Elementary School	Bagumbuhay	1,707,187.15	60	Engineering Department	Special Education Fund
3	22-00116	Proposed Rehabilitation of 2nd Floor and 3rd Floor of District 4 Action Center (AO Office) at Barangay Paligsahan	Paligsahan	2,639,099.56	60	Engineering Department	Engineering Department
4	22-00117	Proposed Rehabilitation of Existing Roofing at DEPED Castelo Building and Construction of Additional Canopy at Damong Maliit Elementary School	Nagkaisang Nayon	2,701,813.63	60	Engineering Department	Special Education Fund
5	22-00118	Proposed Construction of Covered Pathwalk and Rehabilitation of Sanlakas Building at Jose V. Palma Senior High School	Pinyahan	5,830,145.28	90	Engineering Department	Special Education Fund
6	22-00119	Proposed Rehabilitation of Quezon City Skills and Livelihood Foundation Inc. Building at Barangay Kamuning	Kamuning	6,231,487.48	90	Engineering Department	Engineering Department
7	22-00120	Proposed Rehabilitation of of four (4) Buildings, Façade, Soccer Field Sidewalk and Gymnasium at Quezon City Science High School	Sto. Cristo	6,300,493.11	90	Engineering Department	Special Education Fund
8	22-00121	Proposed Construction of two (2) storey Material Recovery Facility at Barangay Villa Maria Clara	Villa Maria Clara	6,740,520.15	180	Engineering Department	OCM - 20% Community Development Fund
9	22-00122	Proposed Construction of Pump Room and Installation of Waterline System at Sunnyville Farm in Barangay Tandang Sora	Tandang Sora	7,462,004.62	90	Engineering Department	Engineering Department
10	22-00123	Proposed Construction of Covered Court at Barangay Tagumpay	Tagumpay	8,709,513.50	150	Engineering Department	Engineering Department

11	22-00124	Proposed Rehabilitation of Batasan Super Health Center including Reception Area, Medicine Dispensing Room and Milk Feeding Station at Barangay Batasan Hills	Batasan Hills	9,206,333.02	150	Engineering Department	OCM - 20% Community Development Fund
12	22-00125	Proposed Rehabilitation of 6th Floor and Upper Deck Ceiling and Waterproofing of Roofdeck at Civic Building D Quezon City Hall Compound	Central	9,420,960.63	90	Engineering Department	Engineering Department
13	22-00126	Proposed Construction of Elevator for Senior and PWD at Blue Ridge A Barangay Hall	Blue Ridge A	12,595,586.30	180	Engineering Department	Engineering Department
14	22-00127	Proposed Installation of Wet Standpipe System and Rehabilitation of Jose Rizal High School (Holy Spirit National High School Annex) at Barangay Holy Spirit	Holy Spirit	27,062,582.65	180	Engineering Department	Special Education Fund
Buildings – Medium A							
15	22-00128	Proposed Construction of Additional Two (2) storey and Improvement of Éxisting two (2) storey Multi-Purpose Livelihood Center, Barangay Kaunlaran	Kaunlaran	53,932,152.98	300	Engineering Department	OCM - 20% Community Development Fund
Flood Control – Small B							
16	22-00129	Proposed Construction of Reinforced Concrete Box Culvert at C. Salvador Street (Buaya Creek - Park 7) in Barangay Loyola Heights	Loyola Heights	4,093,779.02	90	Engineering Department	OCM - Local Disaster Risk Reduction and Management Fund
Roads – Small B							
17	22-00130	Proposed Rehabilitation (Surface Improvement) at Sanville Park in Barangay Culiat	Culiat	1,279,924.78	30	Engineering Department	OCM - 20% Community Development Fund
18	22-00131	Proposed Rehabilitation (Surface Improvement) at Narra Street in Barangay Quirino 3-A	Quirino 3-A	1,303,292.95	30	Engineering Department	OCM - 20% Community Development Fund
19	22-00132	Proposed Rehabilitation of Drainage System at Scout De Guia Street in Barangay Laging Handa	Laging Handa	2,187,307.81	90	Engineering Department	OCM - Local Disaster Risk Reduction and Management Fund
20	22-00133	Proposed Rehabilitation of Road and Drainage at Umbel Street in Barangay Roxas	Roxas	11,063,469.04	180	Engineering Department	OCM - 20% Community Development Fund

21	22-00134	Proposed Rehabilitation of Road and Drainage at Visayan Avenue in Barangay San Isidro Galas	San Isidro Galas	17,744,158.07	180	Engineering Department	OCM - 20% Community Development Fund
22	22-00135	Proposed Rehabilitation of Road and Drainage at St. Luke, St. Jude and St. John Streets and Villanova Avenue in Barangay Nagkaisang Nayon	Nagkaisang Nayon	27,857,142.14	210	Engineering Department	OCM - 20% Community Development Fund

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

2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

4. Interested bidders may obtain further information from **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from **8:00 am. – 5:00 p.m.***

5. A complete set of Bidding Documents may be acquired by interested bidders on ***7 October 2022 (Friday)*** 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**.**

6. The ***QC- BAC- INFRASTRUCTURE & CONSULTANCY*** will hold a Pre-Bid Conference[1] on **October 17, 2022** at **10:00 AM** at **2nd Floor**, **Procurement Department-Bidding Room, Finance Building**, **Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

   Virtual Conference (ZOOM APP)
   Meeting ID: 854 9489 0133
   Password: 273320

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **November 4, 2022 – 9:00AM**. Late bids shall not be accepted.

8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.

9. Bid opening shall be on **November 4, 2022 - 1:00 PM** 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-notices/procurement/**

Sgd.

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

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

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 INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT,** with Project Identification Number **22-00127.**

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2022** in the amount of **Twenty-Seven Million Sixty-Two Thousand Five Hundred Eighty-Two Pesos and 65/100 Ctvs. (P 27,062,582.65).**

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 **October 17, 2022, 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this

Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.

10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

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

11. Documents Comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.3. For Foreign-funded procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

14.2. *Payment of the contract price shall be made in:*

a. Philippine Pesos.

15. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.

19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

a. Information that specifies and complements provisions of the ITB must be incorporated.

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

Bid Data Sheet

ITB Clause	
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.
7.1	**Subcontracting is not allowed.**
10.3	*No additional contractor license or permit is required* ***In addition, eligible bidders shall qualify or comply with the following:*** 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type **Building - Small B**
10.4	The minimum work experience requirements for key personnel are the following:

Qnty.	Key Personnel	General Experience	Relevant Experience
1	Project-in-Charge	3 years	3 years
1	General Foreman	3 years	3 years
1	Trade Engineer/ Leadman for civil works	3 years	3 years
1	Trade Engineer/ Leadman for electrical works	3 years	3 years
1	Trade Engineer/ Leadman for mechanical works	3 years	3 years
1	Safety Officer	3 years	3 years
1	DPWH duly accredited Materials Engineer	3 years	3 years

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

10.5	The minimum major equipment requirements are the following:	
	Equipment	Capacity / Number of Units
	Dump Truck	2
	Jackhammer	1
	Backhoe	1

	In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.
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 541,251.65 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 1,353,129.13 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

TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

PROJECT TITLE: **PROPOSED REHABILITATION OF WATER SUPPLY SYSTEM AND INSTALLATION OF DRY STAND PIPE AT JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT**

LOCATION: **BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY**

GR. 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.

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

j. Temporary Facilities and Utilities

i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.

ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

iii Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.

iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.

v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.

vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.

k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.

i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.

ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.

iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.

iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed

l. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.

m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

SW. 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

CWS. CIVIL / STRUCTURAL WORKS

CWSC. CONCRETE WORKS

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

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

Cement . Sand : Gravel

- Class "A" - 1 . 2 . 3
- Class "B" - 1 2 4
- Class "C" - 1 : 2 ½

ii. Concrete mixture to be used for concrete shall conform with the structural requirements.

iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates

e. Forms

i. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber.

ii. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.

iii. Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. Placing Reinforcement·

Steel reinforcement shall be provided as indicated. together with all necessary wire 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:

i Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized

ii. Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and embedded 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

i General – All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.

ii Moist Curing – The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

i. Finishing

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

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

CWSMA. MASONRY

a. Masonry Units (CHB).
   i. 100mm thick for all interior walls and exterior walls unless otherwise indicated.

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

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

b. Sand:

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

c Mortar

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

d. Plaster bond:

   Apply plaster bond to all wall area

CWSPRW. ROOFING WORKS

a. The roof shall be covered with Ga. 24 pre-painted G.I. rib-type roofing sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the Ga. 24 pre-painted G.I. rib-type roofing sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.

b. The roof shall be covered with 6mm thick Rib-type polycarbonate sheets as shown on the plans. The roofing shall be secured to the purlins with min. 2 ½" max. 3" long Tek screws. Ridge rolls, hip rolls and valleys to be used shall be those compatible with the 6mm thick solid polycarbonate sheets. They shall lap the roofing sheets at least 250mm. The ridge rolls, hip rolls and valleys shall be riveted to the roofing sheets.

c. All roofing sheets adjacent to concrete hollow block and other masonry walls such as property line firewalls, shall be provided with Gauge 26 pre-painted plain G.I. Flashing to extend to the top and over to the other side of the wall. All fasteners shall be placed at the top of the corrugations of the roofing sheets to prevent water from standing around the fasteners.

CWSMP. 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.

AW. ARCHITECTURAL WORKS

AW03/04. TILE WORKS

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

AWD. FABRICATED DOORS & WINDOWS

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

AWP. PAINTING WORKS

a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material

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

c Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.

d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.

e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.

f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.

g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper

S/PW SANITARY / PLUMBING WORKS

A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction. the rules. regulations and requirements of the utility companies (as applicable).

B. Supply, installation and testing of the following.

B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system

B.2 Water service connections including but not limited to water meters. float valves. Any and all other works involve in providing the complete operation of the water supply system.

B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

C Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.

D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.

E. Install equipment in strict accordance with manufacturers written recommendations.

F Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes

G In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided

H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.

I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.

J This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.

K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition. properly packed and protected against damage or contamination or distortion. breakage or structural weakening due to handling, adverse weather or other circumstances and as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.

L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.

M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.

N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.

O. Cleaning and flushing shall be carried out in sections as the installation becomes completed

P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.

Q The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.

R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.

S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.

T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.

U Drainage pipe shall be tested by filling the pipe with 3m of water higher than the test section and wait for 15 min, then check for leakage at every joints.

V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.

W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.

X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7

Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units

Z. Install lateral bracing with pipe hangers and supports to prevent swaying

AA Install building attachments within concrete slabs or attach to structural steel Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.

BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.

CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

EW. ELECTRICAL WORKS

A. Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the rules, regulations and requirements of the utility companies (as applicable).

B Drawings, specifications, codes and standards are minimum requirements Where requirements differ, the more stringent apply

C. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes

D Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen.

E. When the tests and inspections have been completed, a label shall be attached to all devices tested. The label shall provide the name of the testing company, the date the tests were completed, and the initials of the person who performed the tests.

F PANELBOARDS

F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.

F.2 Enclosures: Flush, Surface. Flush- and surface-mounted cabinets.

F.2.1 Rated for environmental conditions at installed location.

i. Indoor Dry and Clean Locations: NEMA 250, Type 1.

ii. Outdoor Locations: NEMA 250, Type 3R.

iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.

iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.

v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12

F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box

F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.

F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor

F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.

F.2.6 Finishes:

i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat

ii. Back Boxes. Galvanized steel Same finish as panels and trim

iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.

F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.

F.3 Incoming Mains Location: Top or Bottom

F.4 Phase, Neutral, and Ground Buses

F.4.1 Material: Hard-drawn copper, 98 percent conductivity.

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

F.4.3 Neutral Bus: 100 percent of phase bus 4 Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

ALVIN FRANCIS C. ABON
Planning and Programming Division

JOCELYN A. NAONG
Planning and Programming Division

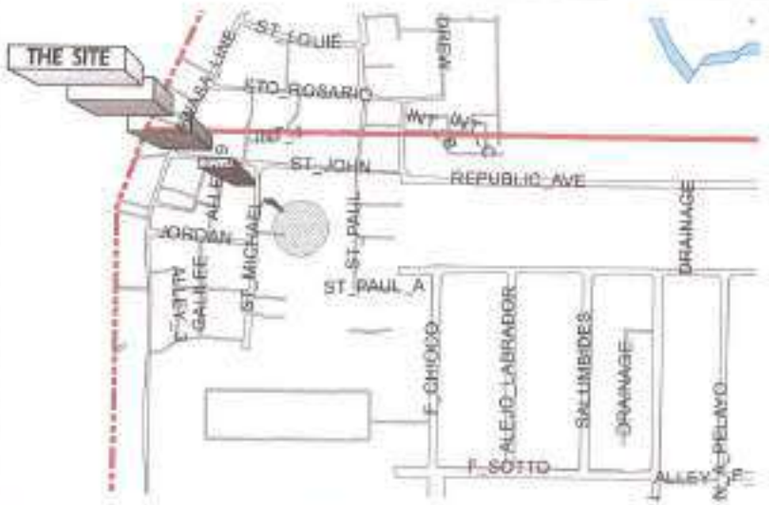
Section VII. Drawings

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

DEDM 2022_076 N
01 ID # 2022-0130

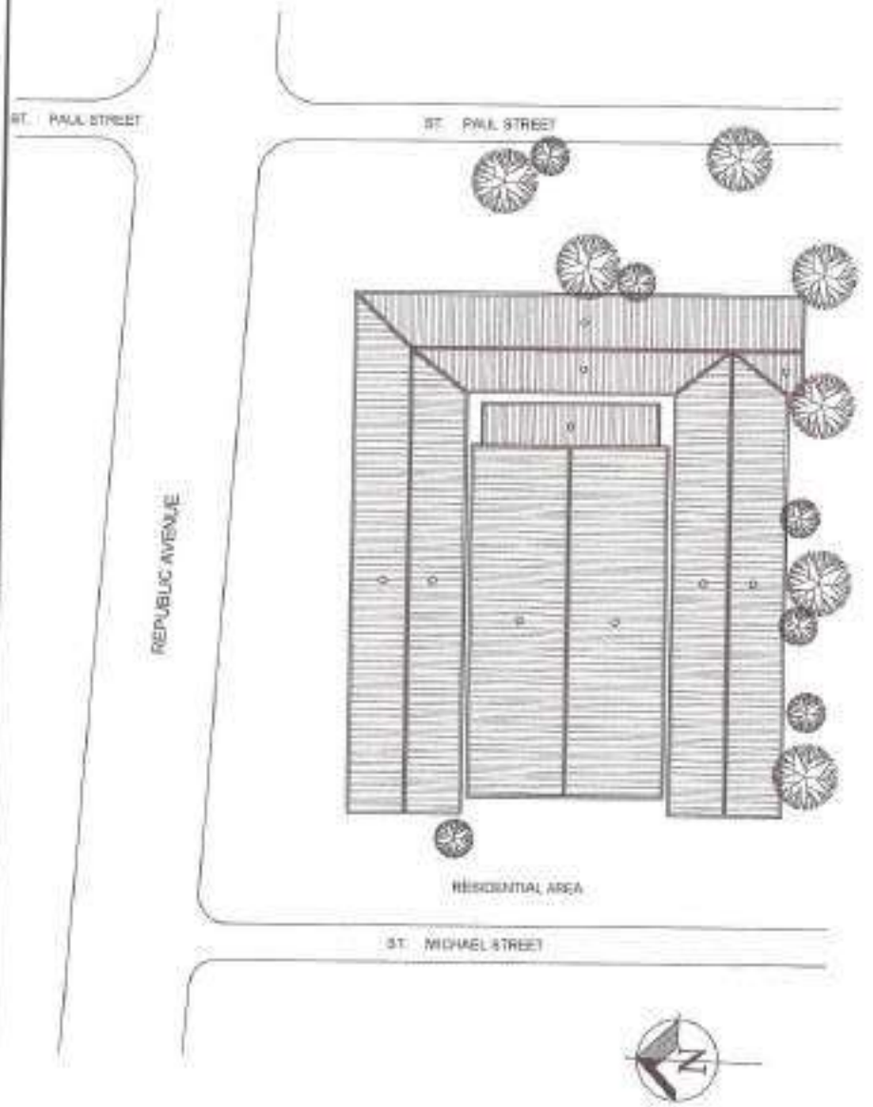
1 VICINITY MAP

SCALE : NTS



2 LOCATION MAP

SCALE : NTS



3 SITE DEVELOPMENT PLAN

SCALE : NTS

TABLE OF CONTENTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY: FALGUL
DATE: 08.17.2022
CHECKED BY: REM
REVISION(S):

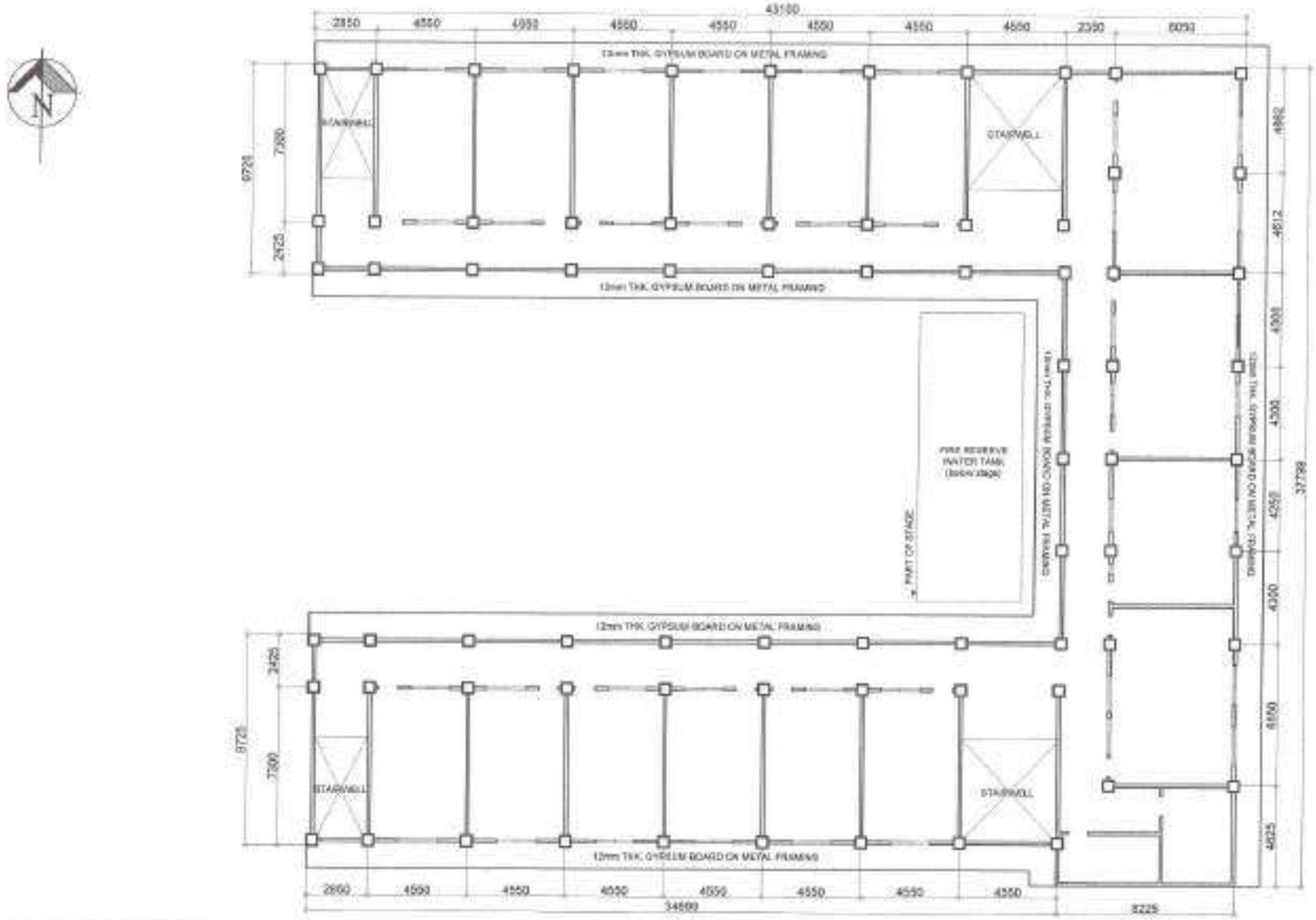
SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

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

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

SHEET CONTENT: VICINITY MAP, LOCATION MAP, SITE DEVELOPMENT PLAN

SHEET NO.: AR-01 / 01 36



NOTE:
USE 12mm THK. GYPSUM BOARD ON METAL FRAMING IN ALL ROOMS AND TOILETS CEILING

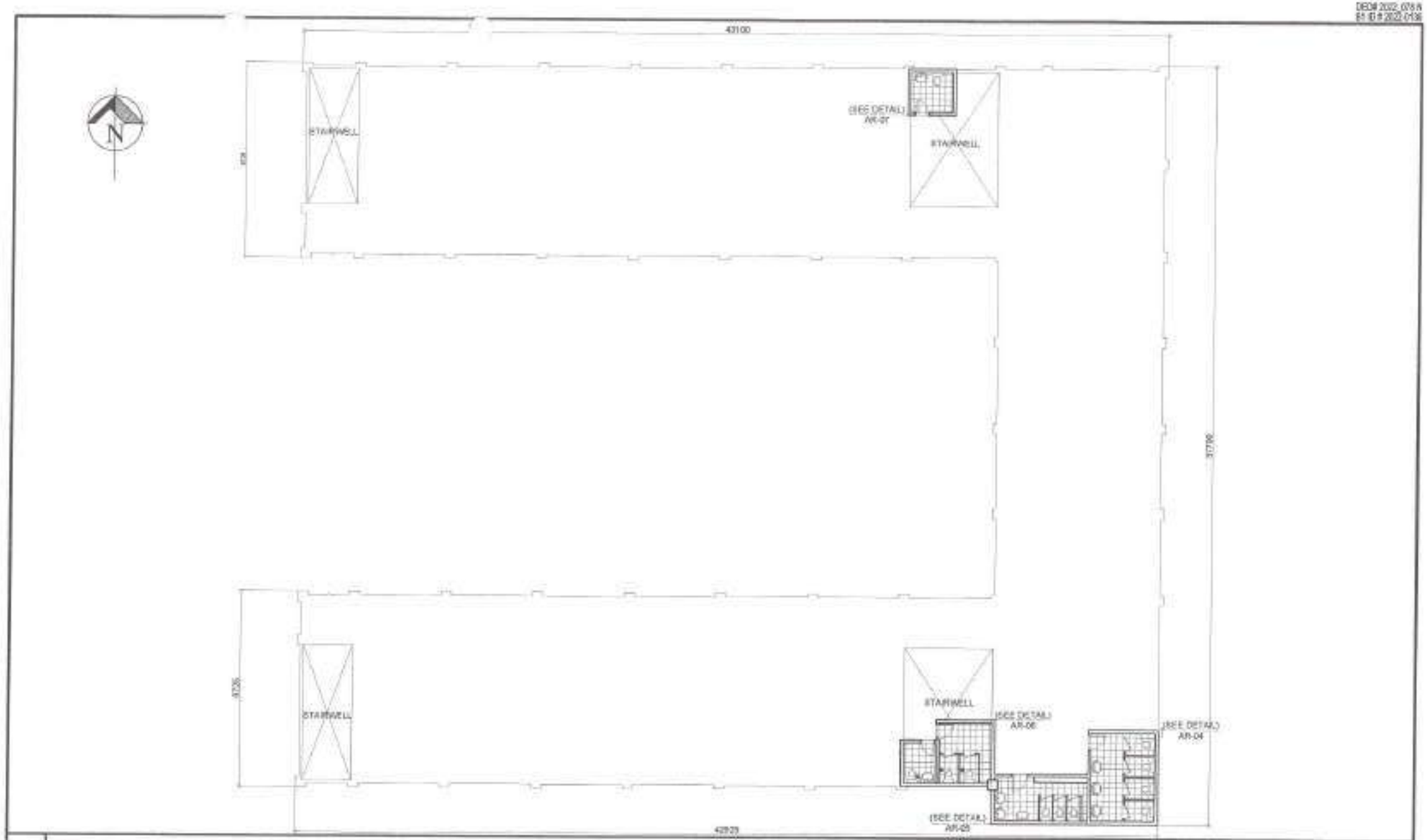
1 CEILING PLAN (FOURTH FLOOR)

SCALE : 1 : 200 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/13/22	ENGR. LEO S. DEL ROSARIO	ENGR. ISAGANI R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE	REFLECTIVE CEILING PLAN	AR-02
LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					02 36
	PERSON NO. :					

DEO# 2022_078 R
EO ID # 2022-0136

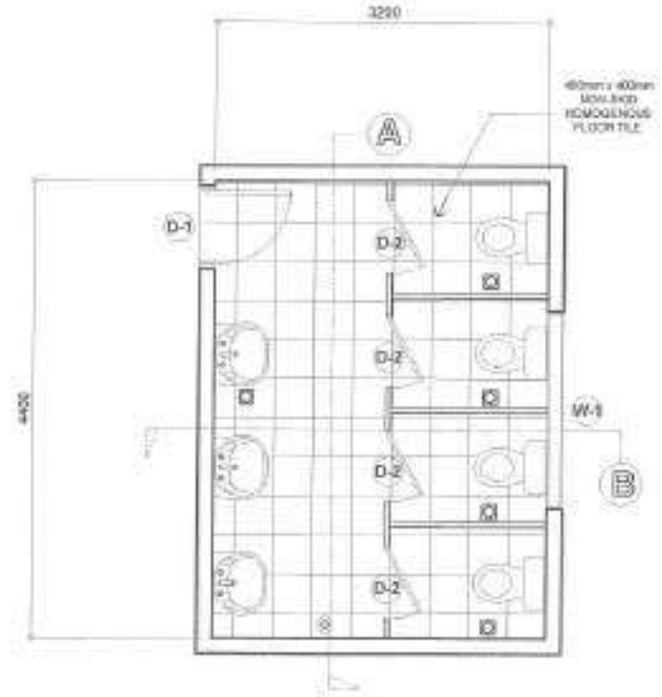


1 C.R. LOCATION DETAIL

SCALE : 1 : 175 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

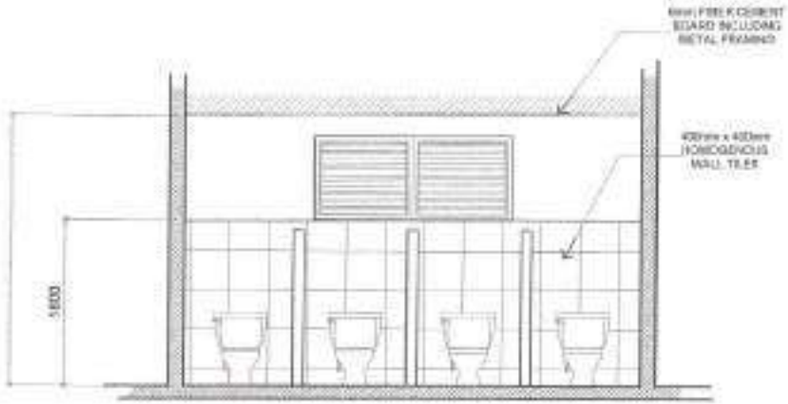
PROJECT TITLE : PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	Drawn by: PRADO D. DATE: 08.17.2022 CHECKED BY: REVISION NO.:	SUBMITTED BY: ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAMMING DIVISION	RECOMMENDING APPROVAL: ENGR. GARANI R. VERZOSA , JR. OIC-CITY ENGINEERING DEPARTMENT	APPROVED BY: HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SHEET CONTENT C.R. LOCATION DETAIL	SHEET NO. AR-03 03 36



NOTE:
1. ALL DOORS AND WINDOWS TO BE REPLACED
2. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT BOARD INCLUDING (FRAMING) METAL FRAMING

1 C.R. FLOOR PLAN

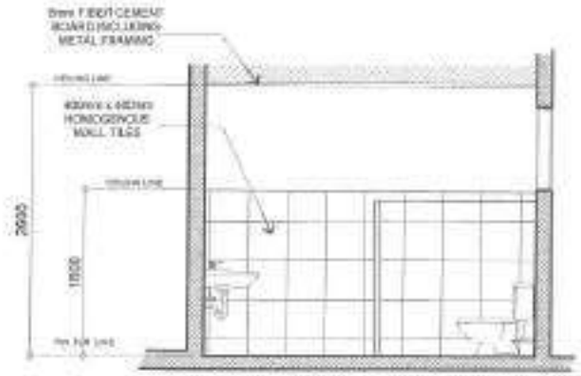
SCALE : 1 : 50 MTS



NOTE:
1. REPAINTING OF INTERIOR WALLS
2. ALL DOORS AND WINDOWS TO BE REPLACED
3. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT COMPLETE ACCESSORIES

2 SECTION THRU "A"

SCALE : 1 : 50 MTS



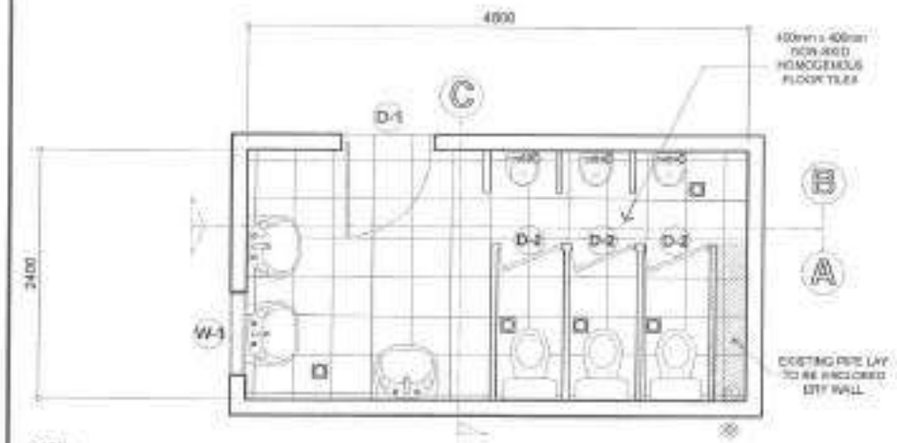
NOTE:
1. REPLACEMENT OF 400 x 400 HOMOGENEOUS WALL TILES
2. REPAINTING OF INTERIOR WALLS
3. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT COMPLETE ACCESSORIES

3 SECTION THRU "B"

SCALE : 1 : 50 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

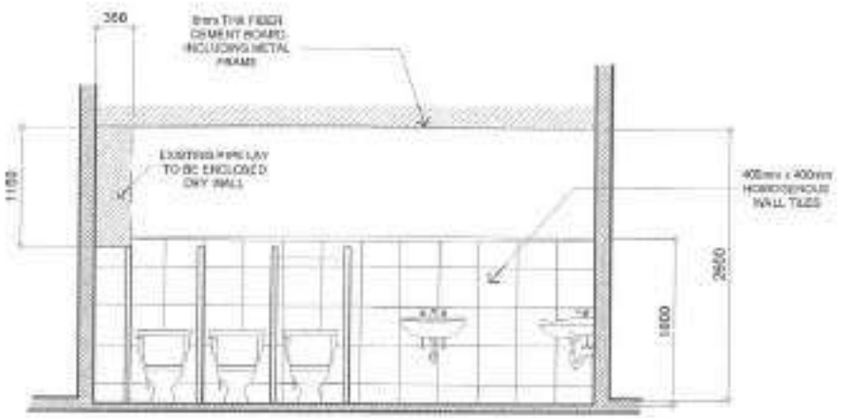
PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 06.07.2022	ENGR. LEO S. DEL ROSARIO	ENGR. ISAGANI R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE	C.R. DETAIL	AR-04
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DESIGNER:					04 36
	REVISION NO.					



NOTE:
1. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT BOARD INCLUDING (FRAMING) METAL FRAMING

1 C.R. FLOOR PLAN

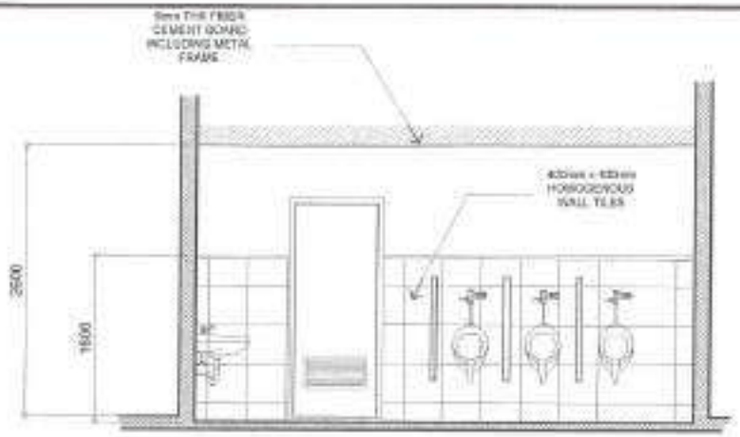
SCALE : 1 : 50 MTS



NOTE:
1. REPAINTING OF INTERIOR WALLS

2 SECTION THRU "A"

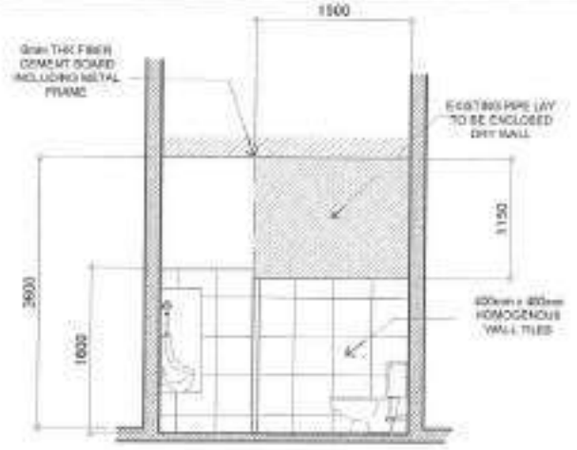
SCALE : 1 : 50 MTS



NOTE:
1. REPAINTING OF INTERIOR WALLS
2. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT BOARD INCLUDING (FRAMING) METAL FRAMING

3 SECTION THRU "B"

SCALE : 1 : 50 MTS



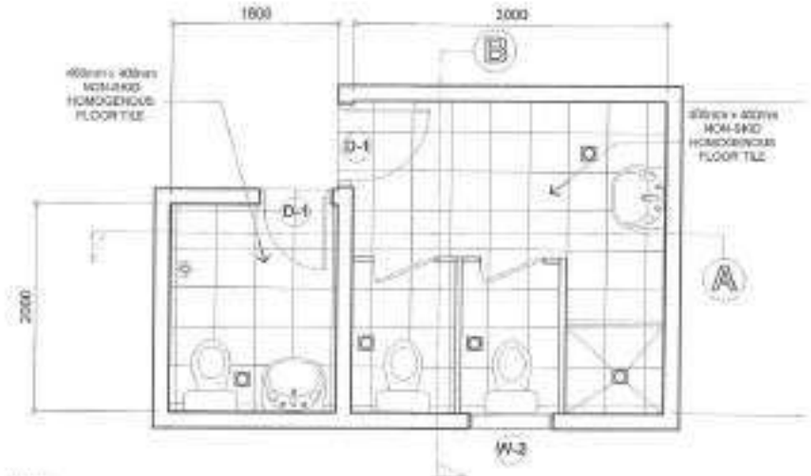
NOTE:
1. REPLACEMENT OF 400 x 400 HOMOGENOUS
2. REPAINTING OF WALLS
3. CEILING TO BE REPLACED

4 SECTION THRU "C"

SCALE : 1 : 50 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

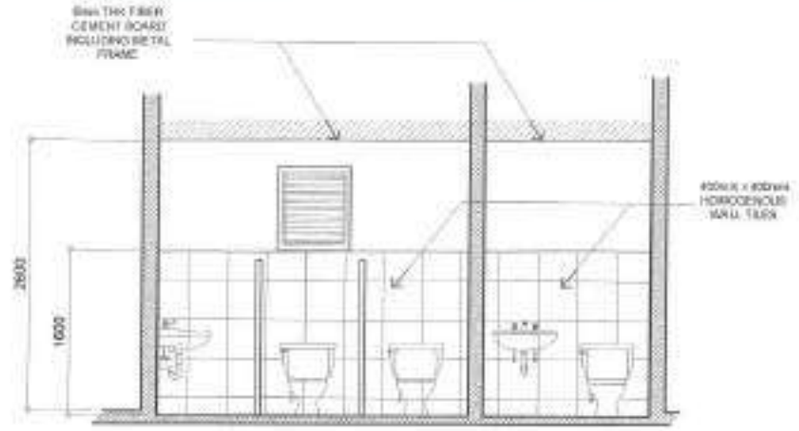
PROJECT TITLE:	PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT
LOCATION:	BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY
OWNER:	[illegible]
DATE:	[illegible]
DRAWN BY:	[illegible]
REVISION NO.:	
SUBMITTED BY:	ENGR. LEO S. DEL ROSARIO, HEAD, PLANNING & PROGRAMMING UNIT/DIV
RECOMMENDING APPROVAL:	ENGR. BARONI R. VERZOSA, JR., OIC CITY ENGINEERING DEPARTMENT
APPROVED BY:	HON. MA. JOSEFINA G. BELMONTE, CITY MAYOR, QUEZON CITY
SHEET CONTENT:	C.R. DETAIL
SHEET NO.:	AR-05 05 36



NOTE:
1. CEILING TO BE REPLACED w/ 6mm FIBER CEMENT COMPLETE ACCESSORIES

1 C.R. FLOOR PLAN

SCALE : 1 : 50 MTS

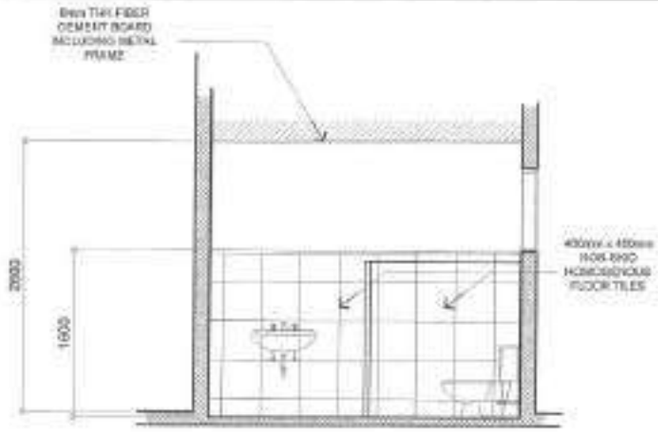


NOTE:

1. REPAINTING OF WALLS

2 SECTION THRU "A"

SCALE : 1 : 50 MTS



NOTE:

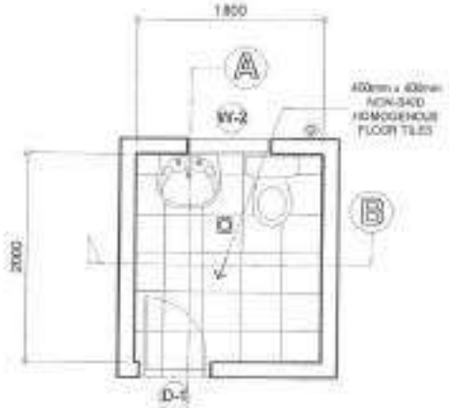
1. REPAINTING OF INTERIOR WALLS

3 SECTION THRU "B"

SCALE : 1 : 50 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

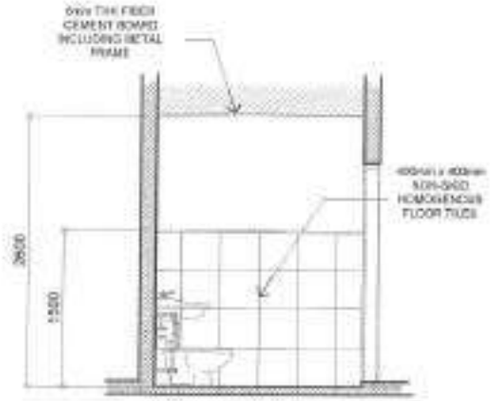
PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: 08/11/2022 CHECKED BY: JJR REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	C.R. DETAIL	AR-06 06 36



NOTE:
1. CEILING TO BE REPLACED w/ 4mm FIBER CEMENT COMPLETE ACCESSORIES

1 C.R. FLOOR PLAN

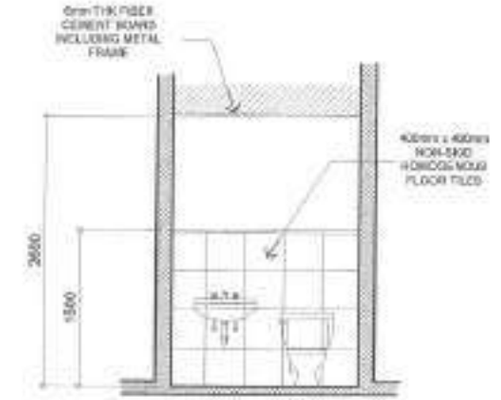
SCALE : 1 : 50 MTS



NOTE:
1. REPAINTING OF INTERIOR WALLS

2 SECTION THRU "A"

SCALE : 1 : 50 MTS



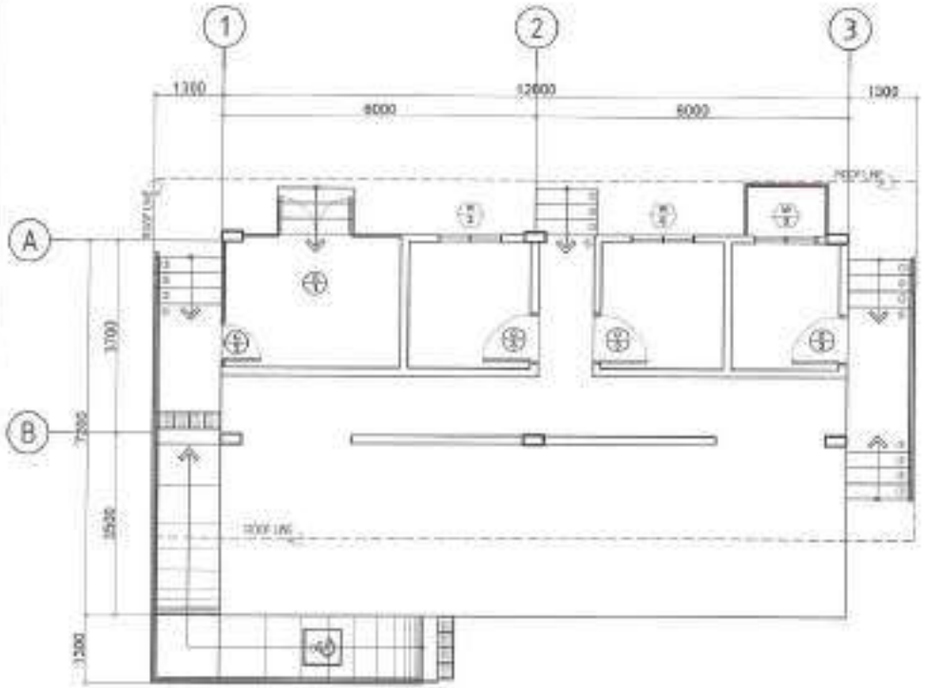
NOTE:
1. REPAINTING OF INTERIOR WALLS

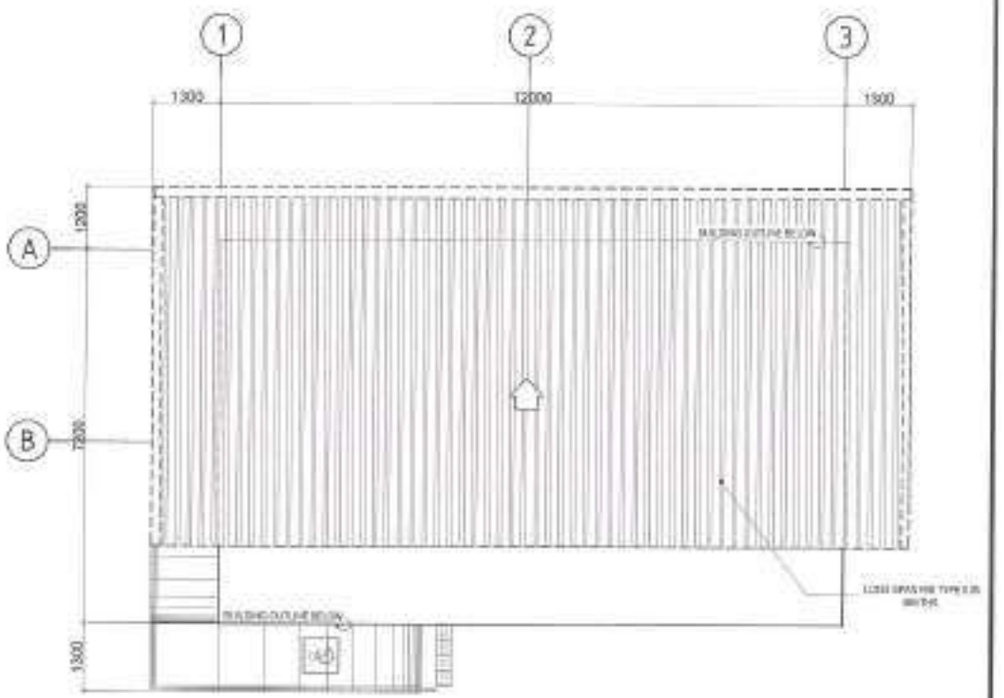
3 SECTION THRU "A"

SCALE : 1 : 50 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 09.07.2022	ENGR. LEO S. DEL ROSARIO	ENGR. [illegible] R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE		AR-07
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:			CITY MAYOR, QUEZON CITY		07 36
	REVISION(S):					

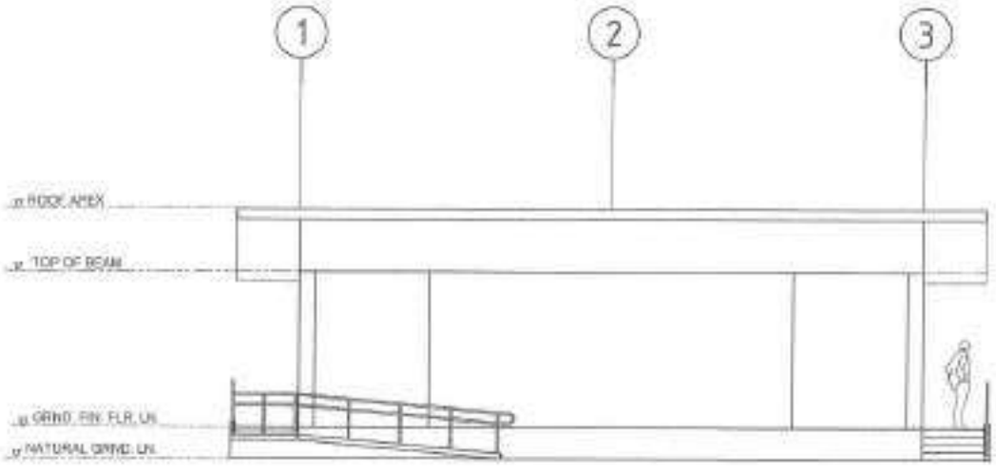




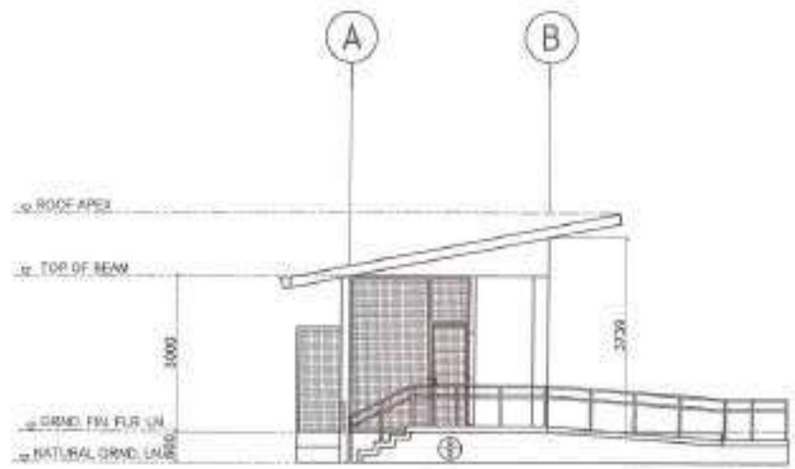
1	FLOOR PLAN (STAGE)	SCALE : 1 : 100 MTS	2	ROOF PLAN (STAGE)	SCALE : 1 : 100 MTS		

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

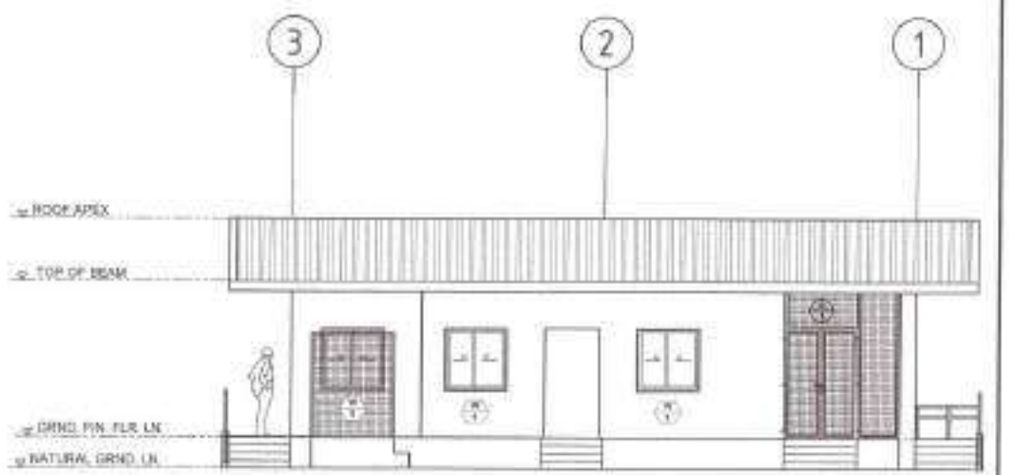
PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/17/2022	ENGR. LEO S. DEL ROSARIO	ENGR. RAGANI R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE	FLOOR PLAN (STAGE) ROOF PLAN (STAGE)	AR-08
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:		DC CITY ENGINEERING DEPARTMENT	CITY MAYOR, QUEZON CITY		08 36
	REVISION NO.					



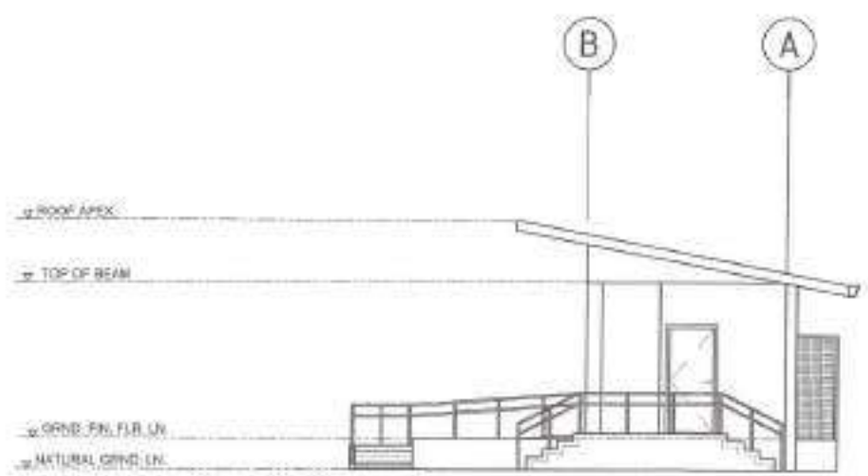
1 **FRONT ELEVATION (STAGE)** SCALE : 1 : 100 MTS



3 **LEFT ELEVATION (STAGE)** SCALE : 1 : 100 MTS



2 **REAR ELEVATION (STAGE)** SCALE : 1 : 100 MTS

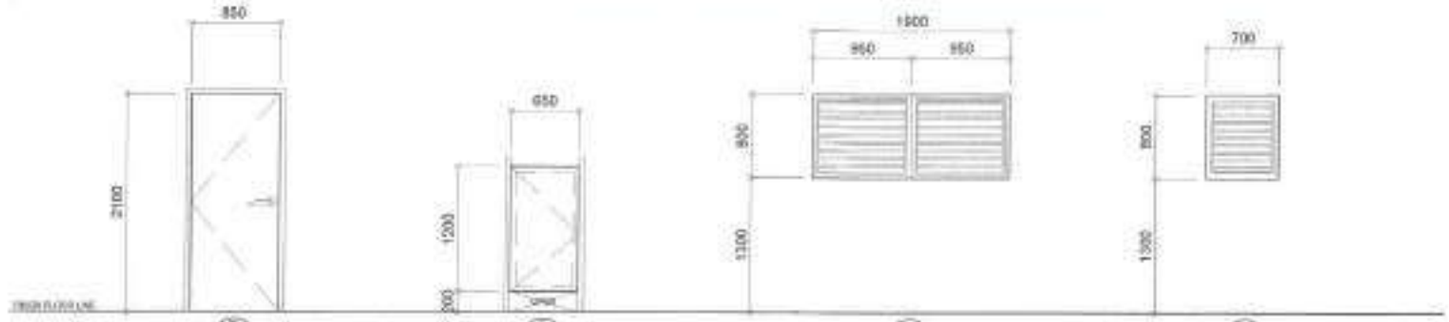


4 **RIGHT ELEVATION (STAGE)** SCALE : 1 : 100 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWING NO.	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: 05.17.2022 CHECKED BY: REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	FRONT ELEVATION (STAGE) REAR ELEVATION (STAGE) LEFT ELEVATION (STAGE) RIGHT ELEVATION (STAGE)	AR-09 09 36

DED# 2022_076 N
BID # 2022-036



D 01	
NO. OF SETS	11
DESCRIPTION	PANEL DOOR
LOCATION	FEMALE, MALE & FACULTY TOILET

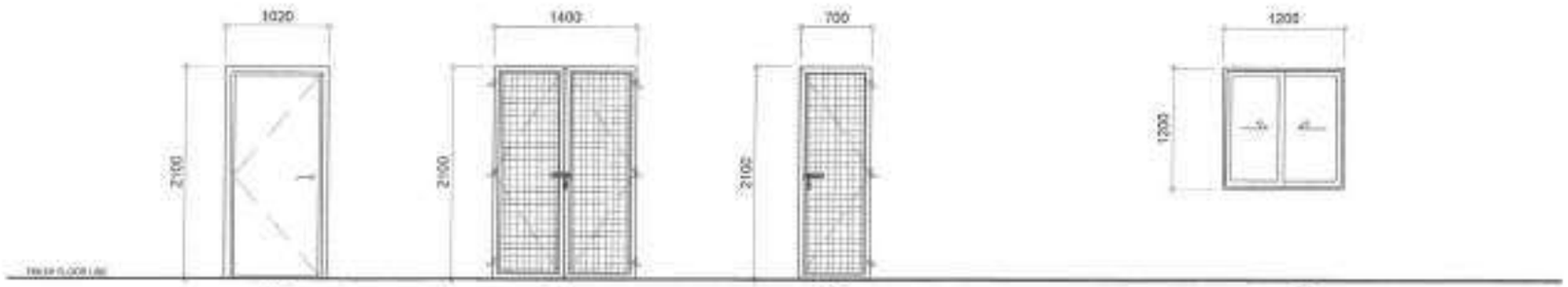
D 02	
NO. OF SETS	30
DESCRIPTION	PANEL DOOR
LOCATION	CUBICLE DOOR

W 01	
NO. OF SETS	4
DESCRIPTION	JALOUSIE TYPE
LOCATION	FEMALE TOILET

W 02	
NO. OF SETS	8
DESCRIPTION	JALOUSIE TYPE
LOCATION	MALE & FACULTY TOILET

1 SCHEDULE OF DOORS AND WINDOWS (ANNEX)

SCALE : 1 : 50 MTS



D 03	
NO. OF SETS	3
DESCRIPTION	WOODEN PANEL DOOR
LOCATION	CHANGING ROOMS, EQUIPMENT STORAGE

G 01	
NO. OF SETS	1
DESCRIPTION	STEEL GATE
LOCATION	PUMP ROOM

G 02	
NO. OF SETS	1
DESCRIPTION	STEEL GATE
LOCATION	PUMP ROOM

W 03	
NO. OF SETS	3
DESCRIPTION	ALUMINUM FRAME, POWDER COATED SLIDING WINDOW WITH 6mm THK CLEAR GLASS
LOCATION	CHANGING ROOMS, EQUIPMENT STORAGE

2 SCHEDULE OF DOORS AND WINDOWS (STAGE)

SCALE : 1 : 50 MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/17/2022	ENGR. LEO S. DEL ROSARIO	ENGR. EDGAR R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE	SCHEDULE OF DOORS AND WINDOWS (ANNEX) SCHEDULE OF DOORS AND WINDOWS (STAGE)	AR-10 10 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED:					
	REVISION NO.:					

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]
9. [illegible]

10. FORMS AND SCAFFOLDING

10.1 [illegible]
10.2 [illegible]

11. CONCRETE AND REINFORCEMENTS

11.1 [illegible]

LOCATION	STRENGTH	MAX. SIZE OF AGGREGATES	MAX. SLUMP
a. SLAB ON GRADE, CURBS, PAVEMENTS, WALL FOOTING	3000 PSI (21 MPa)	1 in. (25mm)	4 in. (100mm)
b. BEAMS, COLUMNS, SUSPENDED SLAB, COLUMN FOOTING	4000 PSI (28 MPa)	3/4 in. (19mm)	4 in. (100mm)

11.2 [illegible]
11.3 [illegible]

CONCRETE COVER	
CONCRETE DEPOSITED DIRECTLY AGAINST GROUND	75 mm
SUSPENDED SLABS	20 mm
SLAB ON GRADE	40 mm
WALL/MASONRY GRADE	20 mm

11.4 [illegible]
11.5 [illegible]
11.6 SCHEDULE FOR STRIPPING OF FORMS AND SHORES

ITEMS	CURING TIME
FOUNDATION	[illegible]
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	14 DAYS
COLUMNS & WALLS	[illegible]
BEAMS	21 DAYS

12. STRUCTURAL STEEL AND PLATES

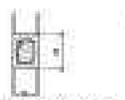
12.1 [illegible]
12.2 [illegible]
12.3 [illegible]

13. FOUNDATION

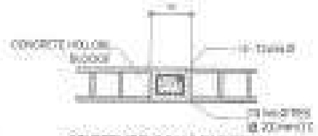
13.1 [illegible]
13.2 [illegible]
13.3 [illegible]

14. MASONRY WALLS

14.1 [illegible]
14.2 [illegible]
14.3 [illegible]
14.4 [illegible]
14.4.1 [illegible]
14.4.2 [illegible]



STIFFENER BEAM BLOCK



STIFFENER COLUMN DETAIL

180° END HOOKS

90° END HOOKS

CORNER WALL

OPENING OR END WALL

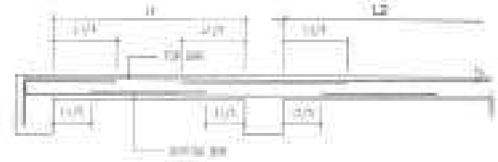
INTERSECTION WALL

INTERSECTING R.C. COL. OR WALL

TYPICAL CONNECTION DETAIL OF MASONRY WALL

NOTES ON CONCRETE SLABS:

1. [illegible]
2. [illegible]

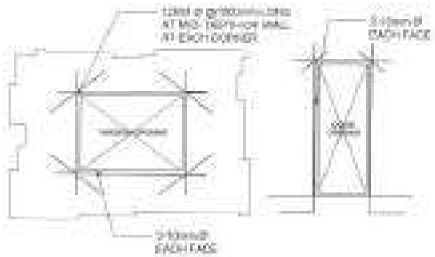


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS:

3. [illegible]
4. [illegible]

SLAB THICKNESS	MINIMUM TEMPERATURE BARS
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

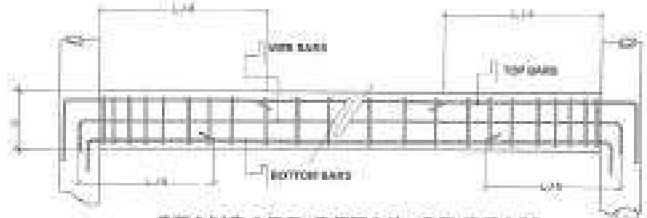
5. [illegible]
6. [illegible]
7. [illegible]



TYPICAL EXTERIOR WINDOW AND DOOR OPENING

NOTES ON STIRRUPS

1. [illegible]
2. [illegible]
3. [illegible]



STANDARD DETAIL OF BEAM

GENERAL NOTES

SCALE: NOT TO SCALE

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

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

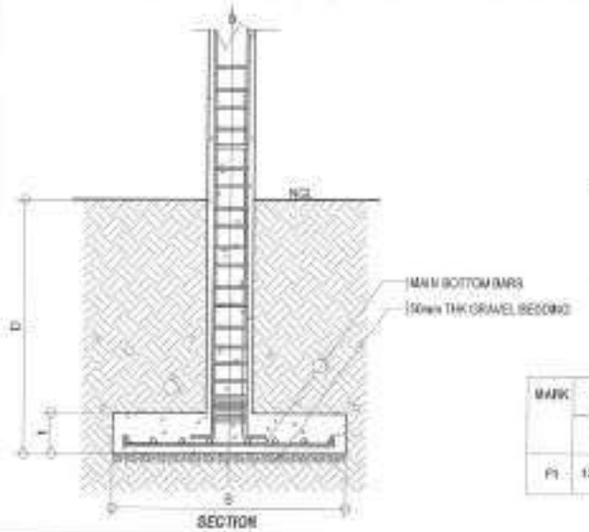
SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO

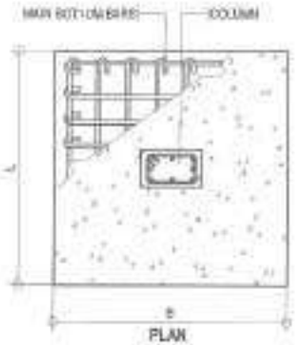
RECOMMENDING APPROVAL:
ENGR. ISAGANI R. VERZOSA, JR.
CITY ENGINEERING DEPARTMENT

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

SHEET CONTENT: GENERAL NOTES

SHEET NO.: ST-01
1136





MARK	DIMENSION (mm)			REINFORCEMENTS		D	REMARKS
	B	L	t	ALONG B	ALONG L	mm	
F1	1200	1200	300	8 - 16mmØ	8 - 16mm Ø	1200	SQUARE FOOTING

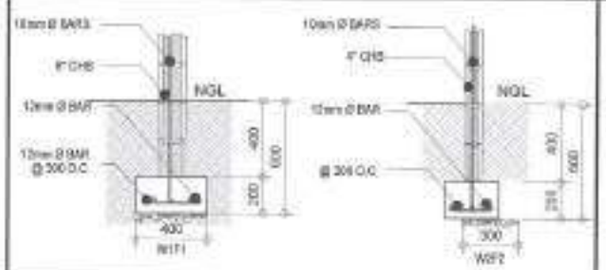
1 COLUMN FOOTING DETAIL

SCALE: NOT TO SCALE

MARK	C-1	MARK	C-2
FOUNDATION TO ROOF BEAM		FOUNDATION TO ROOF BEAM	
MAIN REINF.	8 - 16mmØ	MAIN REINF.	4 - 16mmØ
COL. TIES	10mmØ, 1 @ 0.05M, 2 @ 0.10M, 3 @ 0.15M, REST @ 0.30M	COL. TIES	10mmØ, 1 @ 0.05M, 2 @ 0.10M, 3 @ 0.15M, REST @ 0.25M

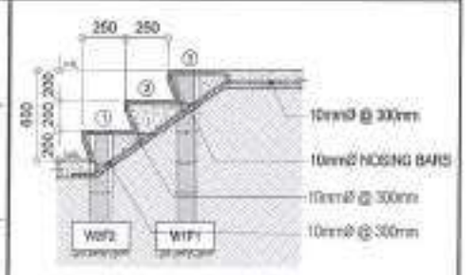
2 COLUMN DETAIL

NOT TO SCALE

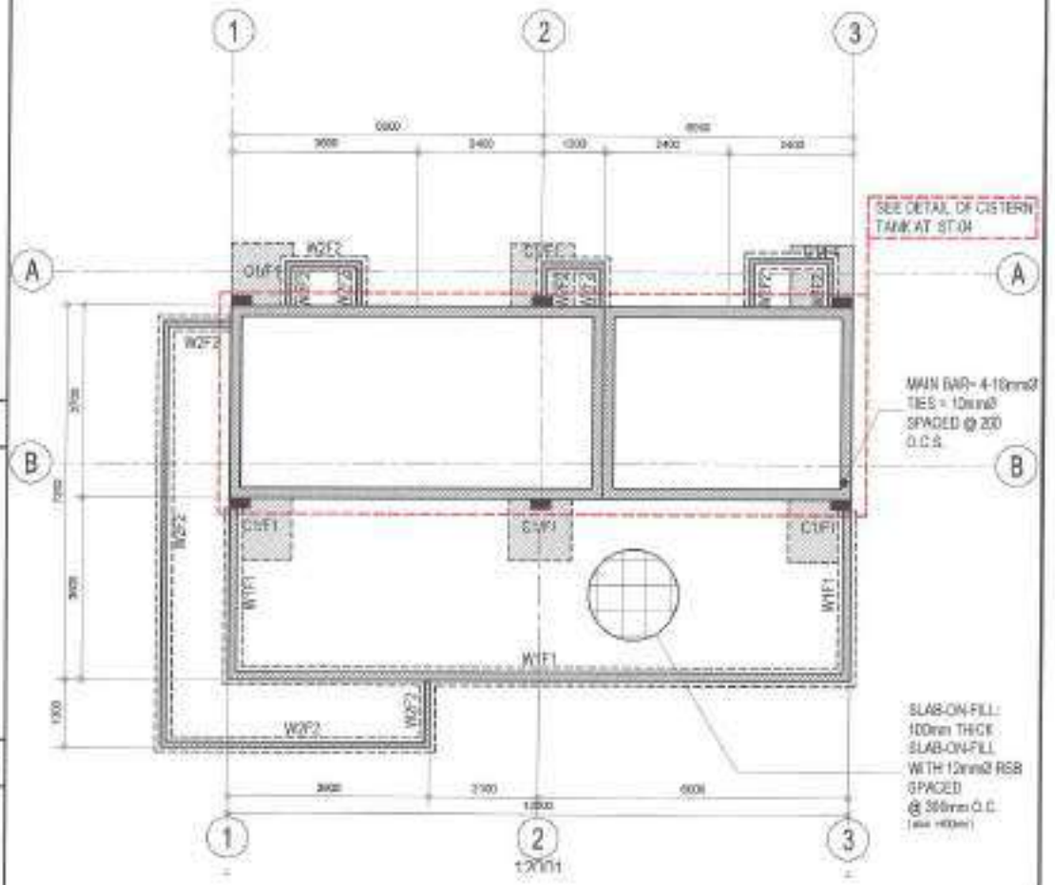


3 WALL FOOTING DETAIL

NOT TO SCALE



4 STRUCTURAL STAIR DETAIL



5 STAGE FOUNDATION PLAN

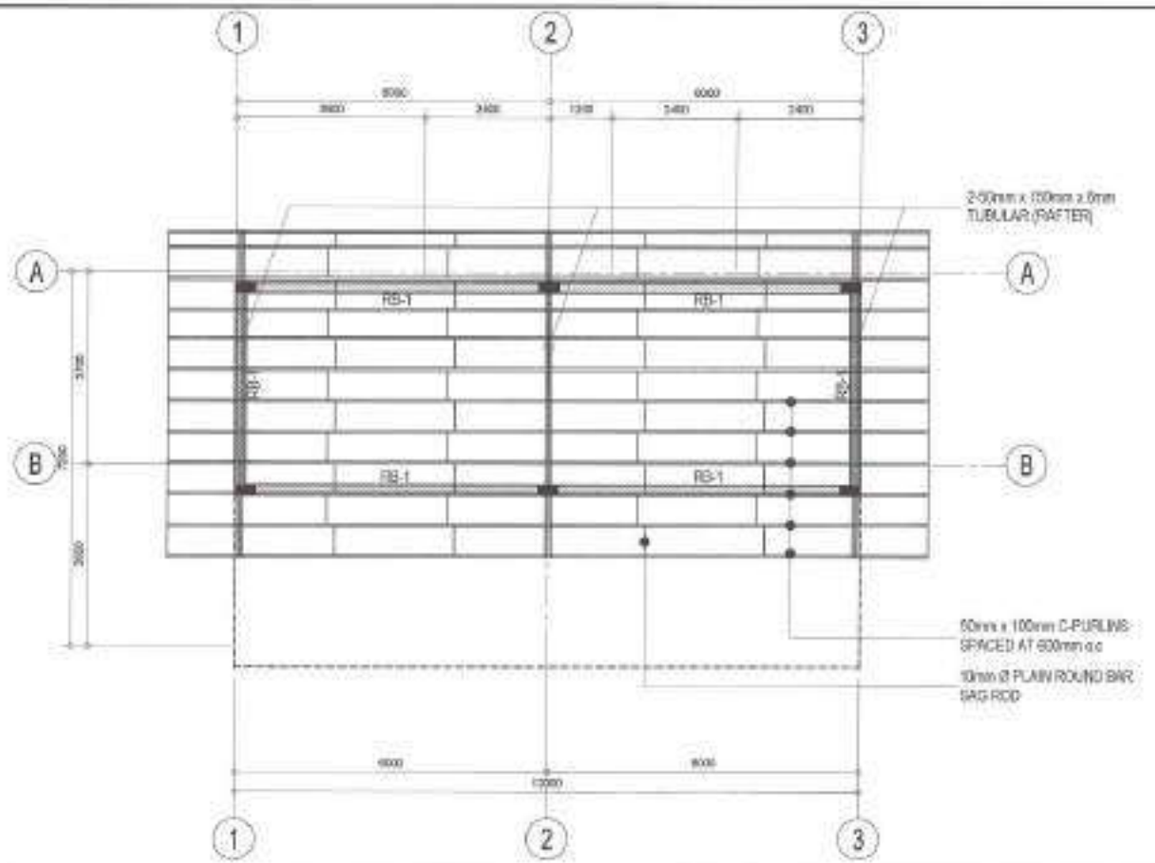
SCALE: 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08.11.2022	ENGR. LEO S. DEL ROSARIO REAL PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC-CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	COLUMN FOOTING DETAIL, COLUMN DETAIL, WALL FOOTING DETAIL, STRUCTURAL STAIR DETAIL, FOUNDATION PLAN	ST-02 12 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	REVISION NO.:					

BEAM MARK	DIMENSION B(mm)	DIMENSION H(mm)	BAR Ø	TOP BARS LEFT SUPPORT	TOP BARS MID SPAN	TOP BARS RIGHT SUPPORT	BOTTOM BARS LEFT SUPPORT	BOTTOM BARS MID SPAN	BOTTOM BARS RIGHT SUPPORT	WEB BAR 12 mm@ DSB	STIRRUPS 10mm@ DSB
RB1	200	400	16	2	2	2	2	2	2	——	2 @ 50, 4 @ 100, REST @ 200
B1	200	400	16	4	2	4	2	4	2	2	2 @ 50, 4 @ 100, REST @ 200

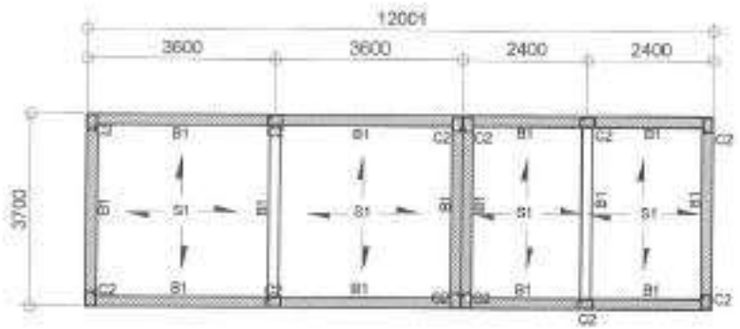
1 SCHEDULE OF BEAM



2 ROOF FRAMING PLAN

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE REAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: CHECKED BY: REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA , JR. OIC, BFP ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SCHEDULE OF BEAM ROOF FRAMING PLAN	ST-03 13 36



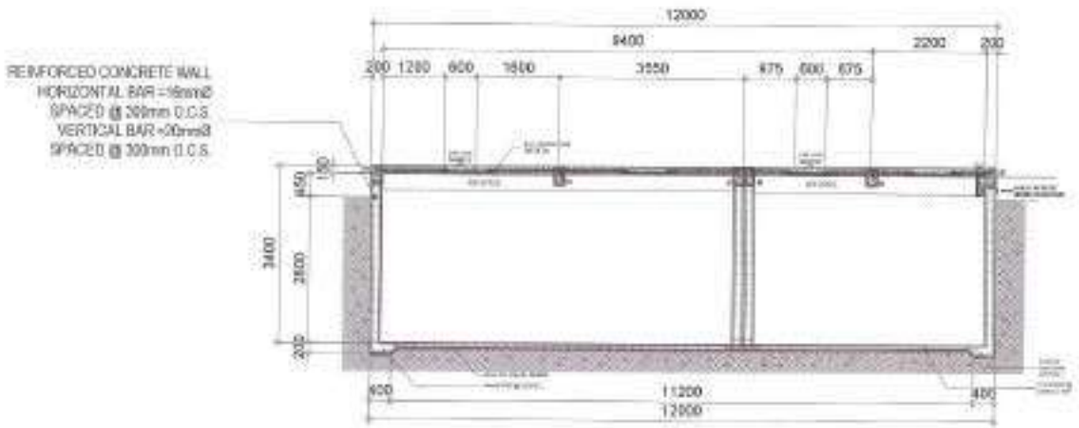
1 CISTERN FRAMING PLAN

SCALE: 1:100 METERS

MARK	t	REINFORCEMENT		ALONG SHORT SPAN				ALONG LONG SPAN				REMARKS
		MAIN BARS	TEMP	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
				4	3	1	2	4	3	1	2	
S1	125	10	10	300	150	150	300	300	150	150	300	TWO-WAY SLAB

2 SLAB DETAIL

NOT TO SCALE



3 CISTERN TANK DETAIL

SCALE: 1:100 METERS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION:
BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY:
DATE: 08.11.2022
CHECKED BY:
REVISION NO.:

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

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

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

SHEET CONTENT:
PROJECT SITE PLAN
SLAB DETAIL
CISTERN TANK DETAIL

SHEET NO.
ST-04
14 36

GENERAL NOTES FOR THREE-PHASE SYSTEM

1. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, PHILIPPINE ELECTRONICS CODE, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY.
2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN.
3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES SO TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED OVER TO THE CITY.
5. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY (IES) FOUND HEREIN.
6. ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO ITS EXECUTION.
8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATIONS IN THE PRESENCE OF ALL PARTIES INVOLVED. RESULTS SHALL BE DOCUMENTED PROPERLY.
9. ALL PIPES AND LAYOUT ARE ONLY DIAGRAMMATIC. ACTUAL LAYOUT OF PIPES AND FITTINGS, UNLESS OTHERWISE REQUIRED, SHALL BE PROPERLY CONCEALED.
10. NO PIPES SHALL BE ALLOWED TO BE EMBEDDED IN STRUCTURAL MEMBERS, UNLESS OTHERWISE APPROVED.
11. ALL PIPES, FITTINGS, EQUIPMENT AND FIXTURES SHALL BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS.
12. SUPPORTS AND ANCHORS SHALL BE PROVIDED ACCORDINGLY.
13. ALL EQUIPMENTS AND FIXTURES SHALL BE ENVIRONMENTAL FRIENDLY.
14. INSTALLATION OF SERVICE ENTRANCE
    - 14.1. THE TYPE OF SERVICE ENTRANCE SHALL BE THREE-PHASE, THREE WIRE PLUS GROUND, 3Ø+NEUTRAL 230V AC NOMINAL.
    - 14.2. THE SERVICE ENTRANCE EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
    - 14.3. THE MAIN OVERCURRENT PROTECTION DEVICE SHALL BE OF THERMAL MAGNETIC MOLDED IN REMOVABLE WEATHERPROOF ENCLOSURE.
15. INSTALLATION OF LIGHTING AND POWER SYSTEM
    - 15.1. ALL LIGHTING AND CONVENIENCE OUTLET CIRCUITS SHALL BE 3/3.5 MM² THWN 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:
        - PHASE A - RED
        - PHASE B - YELLOW
        - PHASE C - BLUE
        - NEUTRAL - WHITE
        - GROUND - GREEN
    - 15.2. ALL EMBEDDED BRANCH CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE PVC SUPPORTED BY CONDUIT CLAMPS EVERY 1500 MILIMETERS MAXIMUM OR WITH WIRE SUPPORTS EVERY 1500 MILIMETERS.
    - 15.3. CONDUITS RUNS SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS IN ANY ONE RUN. ALL CONDUIT BENDS SHALL BE FIELD MADE OF USING HYDRAULIC BENDERS. MINIMUM BENDING RADIUS SHALL NOT BE IN ACCORDANCE TO THE CODE REQUIREMENTS.
    - 15.4. ALL POWER OUTLETS AND SWITCHES SHALL BE FLUSH MOUNTED TYPE WITH PANDUIT, SLOTS FOR 220 V.
    - 15.5. PROVIDE GROUND FAULT CURRENT INTERRUPTER (GFCI) CIRCUIT BREAKERS FOR LOADS MARKED "GFCI" ON THE PLAN.
    - 15.6 ALL METALLIC CONDUITS, SWITCHES, LIGHTING FIXTURES, PANELBOARDS, TRANSFORMERS AND NON-CURRENT CARRYING PARTS SHALL BE PROPERLY GROUNDED AND BONDED.
    - 15.7. THE GROUND RESISTANCE SHALL NOT BE MORE THAN 5 OHMS.
    - 15.8 ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:
        - A. LIGHTING SWITCH - 1400 MM ABOVE FLOOR FINISH
        - B. CONVENIENCE OUTLET - 300 MM ABOVE FLOOR FINISH
          150MM ABOVE WORKING COUNTER
        - C. PANELBOARD AND CABINETS - 1400 MM ABOVE FLOOR FINISH
        - D. EXIT LIGHT - 150 MM TOP OF DOOR FRAME
        - E. EMERGENCY LIGHT - 2300 ABOVE FLOOR EMERGENCY
    - 15.9. PULL BOXES SHALL BE PROVIDED AS NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.
    - 15.10. FOR EACH SPARE BRANCH CIRCUIT IN PANELBOARD, PROVIDE ONE 20MM DIAMETER EMPTY CONDUIT STUBBED 300 TO 1000MM ABOVE CEILING. BOX ABOVE CEILING MINIMUM SIZE OF PULL BOX SHALL BE 100MM X 150MM X 100MM.
    - 15.11. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS. PANELBOARDS SHALL BE DEAD-FRONTED, EVERY POWER CONSOLE GAGE 16 MINIMUM.
    - 15.12. FEEDER AND BRANCH CIRCUIT CONDUCTORS IN CABLE TRAYS SHALL BE GROUPED, BONDED AND TAGGED TO INDICATE CLEARLY THE ELECTRICAL CHARACTERISTICS, SUCH AS CIRCUIT NUMBER AND PANEL DESIGNATION.
    - 15.13. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR RATINGS AND LOCATIONS OF EQUIPMENT AS WELL AS THEIR CONTROL SEQUENCES AS SPECIFIED AND OR SHOWN UNDER THEIR RESPECTIVE SECTIONS.
    - 15.14. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED.
16. INSTALLATION OF AUXILIARY SYSTEM (VOICE/DATA SYSTEM, CLOSED CIRCUIT TELEVISION SYSTEM AND FIRE DETECTION ALARM SYSTEM)
    - 16.1. ALL AUXILIARY WIRING MUST REFER TO WIRE SCHEDULE AS INDICATED ON PLANS.
    - 16.2. MINIMUM SIZE AND TYPE OF CONDUIT SHALL BE AS FOLLOWS:
        - A. VOICE/DATA SYSTEM - 20MM Ø PVC
        - B. CCTV SYSTEM - 20MM Ø PVC
        - C. FDAS SYSTEM - 15MM Ø GI/PVC
    - 16.3. ALL EMBEDDED CIRCUITS SHALL BE PVC CONDUITS AND FOR EXPOSED INSTALLATION SHALL BE RIGID/PVC SUPPORTED BY CONDUIT CLAMPS EVERY 1500 MILIMETERS AND/OR CONDUIT HANGER SUPPORTS EVERY 1500 MILIMETERS.
    - 16.4. ALL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES SHALL BE AS FOLLOWS:
        - A. TELEPHONE OUTLET - 300 MM ABOVE FLOOR FINISH
        - B. CCTV OUTLET - 300 MM ABOVE FLOOR FINISH
        - C. DATA OUTLET - 150MM ABOVE WORKING COUNTER
        - D. CABINETS - 1400 MM ABOVE FLOOR FINISH
    - 16.5. BOXES, WIRE, FITTINGS, ENCLOSURE SHALL BE FABRICATED FROM STEEL WITH THICKNESS AS FOLLOWS:

MAX. WIDTH OF THE WIDEST SURFACE STEEL	GA
UP TO AND LESS THAN 152.40 MM	GA 16 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 152.40 MM BUT NOT OVER 457.20 MM	GA 14 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 457.20 MM BUT NOT OVER 762 MM	GA 12 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT
OVER 762 MM	GA 10 PAINTED WITH METAL PRIMER EPOXY AND TOPCOAT

    - 16.6. THE COMMUNICATION GROUND RESISTANCE SHALL NOT EXCEED 2 OHMS.
    - 16.7. ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE OF THE BEST QUALITY, BRAND NEW AS SPECIFIED. IT MUST BE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED.

1 GENERAL NOTES

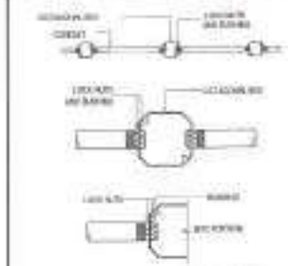
SCALE : NTS

LEGEND:

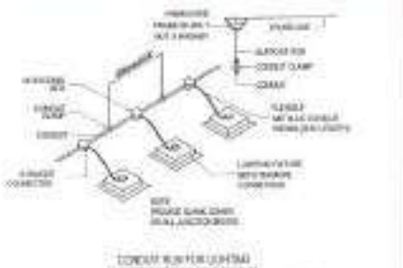
- EXISTING PANEL BOARD
- EXISTING SERVICE ENTRANCE
- KW-HR METER
- SERVICE ENTRANCE
- LIGHTING FIXTURE WITH 1-18W DAYLIGHT LED TUBE, BOX TYPE
- 300MM x 1200MM LIGHTING FIXTURE WITH 2-18W DAYLIGHT LED TUBE, TROFFER RECESSED TYPE
- 300MM x 1200MM LIGHTING FIXTURE WITH 1-18W DAYLIGHT LED TUBE, TROFFER RECESSED TYPE
- FLOOR MOUNTED SPOTLIGHT
- EXIT LIGHT
- ORBIT FAN
- CONVENIENCE OUTLET WITH GROUND, TWO-GANG
- EMERGENCY LIGHT
- Sa SWITCH SINGLE POLE
- Sab SWITCH TWO POLE
- Sabc SWITCH THREE POLE

2 LEGENDS AND SYMBOLS

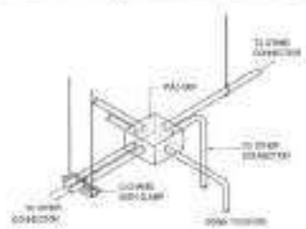
SCALE : NTS



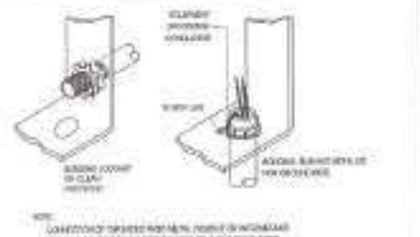
BOX DETAIL OF CONDUIT RUNNING BOX



CONDUIT RUN FOR LIGHTING DISTRIBUTION & CIRCUITS (FOR EXPOSED OR ENCLOSED PVC CONDUIT INSTALLATION)



PROPER CONDUIT LAYOUT IN PULL BOX



BONDED GROUNDING TERMINATION FOR SUBMETER

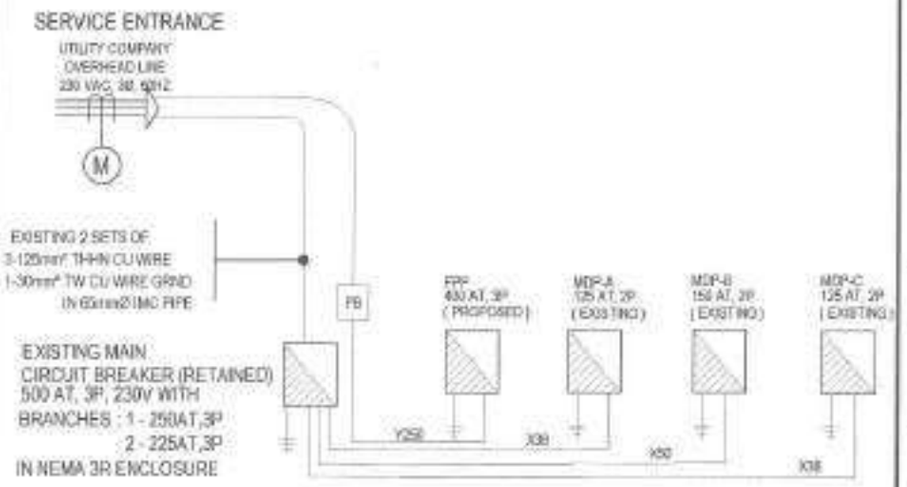
3 MISCELLANEOUS DETAIL

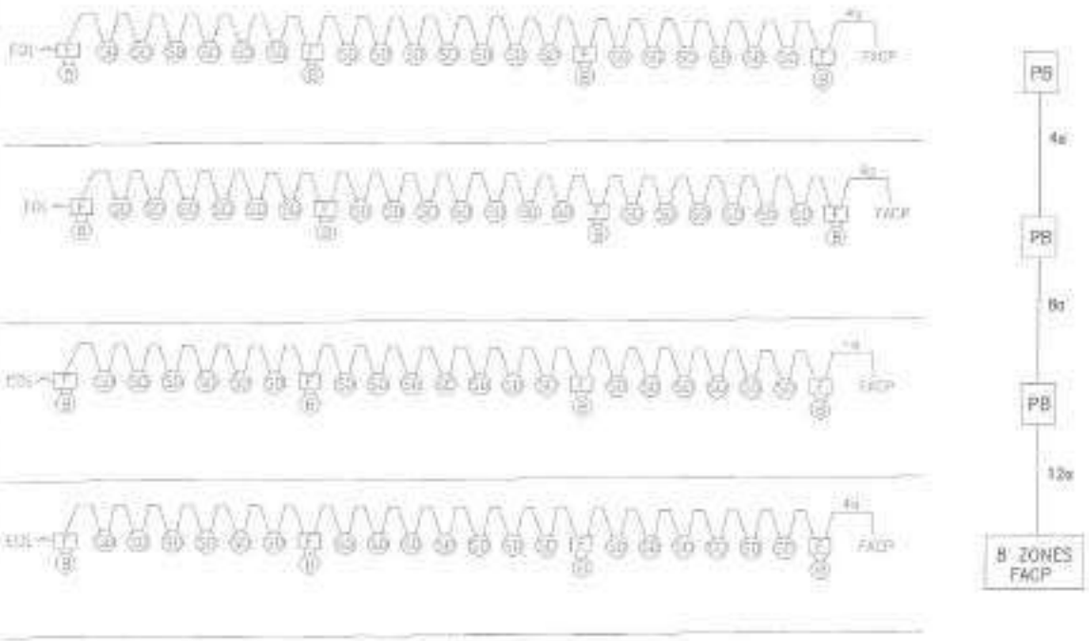
SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: **PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT**	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: 08/13/2022 CHECKED BY: REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. JHAGANI R. VERZOSA, JR. OIC-CITY ENGINEER'S DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	GENERAL NOTES, LEGENDS AND SYMBOLS, MISCELLANEOUS DETAIL	EL-01 15 36

DED# 2022 076 R
BI ID # 2022-0130





WIRE/CABLE DESIGNATION AND CONDUIT SCHEDULE x = 125 mm² "P" WIRE	
4a , 6a	19MM EMT
8a, 12a	25MM EMT

1 SINGLE LINE DIAGRAM

SCALE : NTS

2 FDAS RISER DIAGRAM

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :

PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY: PAOLA G.

DATE: 06/17/2022

CHECKED BY: ERIC

REVISION NO. :

SUBMITTED BY:

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

RECOMMENDING APPROVAL:

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

APPROVED BY:

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

SHEET CONTENT: SINGLE LINE DIAGRAM / FDAS RISER DIAGRAM

SHEET NO.: EL-02

16 36

LPP-A

LPP - EXISTING GROUND FLOOR (FOR REPLACEMENT)

CKT NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	10-LIGHTING FIXTURES	220	660	3.00	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	6-CEILING FAN	220	396	3.60	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	7-LIGHTING FIXTURES	220	350	1.60	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	ACU	220	1,540	7	20	2-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
7	FACP	220	1,100	5.00	20	2-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
8	SPARE	220	—	—	20	—	—
			7,356	33.80			

COMPUTATION

$$IT = \frac{7,356\ VA + (1,540 \times 0.25)}{220\ V}$$

IT = 33.80 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 220V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER :
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE/25mmØ IMC PIPE

LPP-A

LPP - EXISTING THIRD/FOURTH FLOOR TYPICAL

CKT NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	8-LIGHTING FIXTURES 3-CEILING FAN	220	750	3.39	15	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	8-LIGHTING FIXTURES 3-CEILING FAN	220	750	3.39	15	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	7-LIGHTING FIXTURES	220	350	1.60	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	3-EMERGENCY LIGHT (ADDITIONAL) 3-EXIT LIGHT	220	720	3.14	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
			4,730	20.57			

COMPUTATION

$$IT = \frac{4,730\ VA}{230\ V}$$

IT = 20.57 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 220V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE/25mmØ IMC PIPE

LPP-A

LPP - EXISTING SECOND FLOOR

CKT NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	10-LIGHTING FIXTURES	220	660	3.00	15	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	7-LIGHTING FIXTURES	220	350	1.60	15	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	8-CONVENIENCE OUTLET	220	1,760	8.00	20	2-3.5mm² THWN COPPER WIRE 2-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	8-CEILING FAN	220	800	3.61	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	2-EMERGENCY LIGHT (ADDITIONAL) 2-EXIT LIGHT	220	720	3.14	20	2-3.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
			4,730	20.57			

COMPUTATION

$$IT = \frac{4,730\ VA}{230\ V}$$

IT = 20.57 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 220V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE/25mmØ IMC PIPE

LPP-A

MDP - EXISTING GROUND FLOOR

CKT NO.	LOAD DESCRIPTION	VOLTS	VA	AMP	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	GROUND FLOOR	220	7,260	31.80	60	3-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	SECOND FLOOR	220	4,730	20.57	40	3-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	THIRD FLOOR	220	4,730	20.57	40	3-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	FOURTH FLOOR	220	4,730	20.57	40	3-5.5mm² THWN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			21,540	93.67			

COMPUTATION

$$IT = \frac{21,540\ VA + (1,980 \times 0.25)}{230\ V}$$

IT = 93.67 AMPERES

OVER CURRENT PROTECTION
USE : 125AT, 3P, 220V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER
USE : 2 -38.0mm² THHN & 1-14.0mm² TW GROUND WIRE IN 51mmØ PVC PIPE/ 80mmØ IMC PIPE

1 SCHEDULE OF LOADS

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY :
DATE : 05/13/22
CHECKED BY :
REVISIONS :

SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
RMP, PLANNER II PROGRAMMING DIVISION

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

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

SHEET CONTENT : SCHEDULE OF LOADS

SHEET NO. EL-03
17 36

DETAIL# 2022_070 H
ST I D # 2022-07CB

LPP-B

LPP - EXISTING GROUND FLOOR

CKT NO	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	4-LIGHTING FIXTURES 3-CEILING FAN	220	828	3.76	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	6-LIGHTING FIXTURES 2-CEILING FAN	220	828	3.76	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	6-LIGHTING FIXTURES 2-CEILING FAN	220	828	3.76	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	1-LIGHTING FIXTURES 2-CEILING FAN	220	540	2.45	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
5	5-LIGHTING FIXTURES	220	450	2.04	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
6	4-CONVENIENCE OUTLET	220	720	3.27	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
7	4-CONVENIENCE OUTLET	220	720	3.27	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
8	4-CONVENIENCE OUTLET	220	720	3.27	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
9	4-CONVENIENCE OUTLET	220	720	3.27	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
10	4-CONVENIENCE OUTLET	220	720	3.27	20	2-3.5mm² THHN COPPER 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
11	CALP	220	1,800	8.18	30	2-5.5mm² THHN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
12	STAGE	220	3,000	13.6	40	2-5.5mm² THHN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			11,268	49.13			

COMPUTATION:

$I = \frac{11,268 VA}{230 V}$

$I = 49.13$ AMPERES

OVER CURRENT PROTECTION:
USE : 60AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN MAIN L

MAIN FEEDER:
USE : 2 -5.5mm² THHN & 1-5.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/32mmØ IMC PIPE

LPP-B

LPP - EXISTING SECOND FLOOR

CKT NO	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	12-LIGHTING FIXTURES 4-CEILING FAN	220	1,380	6.00	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	10-LIGHTING FIXTURES 3-CEILING FAN	220	990	4.30	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	6-LIGHTING FIXTURES 2-CEILING FAN	220	660	2.87	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	5-LIGHTING FIXTURES	220	450	1.96	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
5	18-CONVENIENCE OUTLET	220	1,800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
6	18-CONVENIENCE OUTLET	220	1,800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
7	2-EXIT LIGHT (ADDITIONAL)	220	200	1.22	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
8	SPARE (ADDITIONAL)	220	—	—	30	—	—
9	SPARE (ADDITIONAL)	220	—	—	30	—	—
			7,480	33.0			

COMPUTATION:

$I = \frac{7,180 VA}{230 V}$

$I = 33.0$ AMPERES

OVER CURRENT PROTECTION:
USE : 60AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN MAIN L

MAIN FEEDER:
USE : 2 -5.5mm² THHN & 1-5.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/32mmØ IMC PIPE

LPP-B

LPP - EXISTING THIRD FLOOR

CKT NO	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	5-LIGHTING FIXTURES 2-CEILING FAN	220	550	2.51	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	6-LIGHTING FIXTURES 2-CEILING FAN	220	600	2.61	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	5-LIGHTING FIXTURES 2-CEILING FAN	220	550	2.51	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	10-LIGHTING FIXTURES 2-CEILING FAN	220	900	3.43	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
5	5-LIGHTING FIXTURES	220	400	1.80	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
6	18-CONVENIENCE OUTLET	220	1800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
7	10-CONVENIENCE OUTLET	220	1800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
8	3-EXIT LIGHT (ADDITIONAL)	220	720	3.14	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			7,480	31.9			

COMPUTATION:

$I = \frac{7,180 VA}{230 V}$

$I = 31.9$ AMPERES

OVER CURRENT PROTECTION:
USE : 60AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN MAIN L

MAIN FEEDER:
USE : 2 -5.5mm² THHN & 1-5.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/32mmØ IMC PIPE

LPP-B

LPP - EXISTING FOURTH FLOOR

CKT NO	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF WIRES	SIZE OF CONDUITS
1	15-LIGHTING FIXTURES 4-CEILING FAN	220	1,200	5.22	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	14-LIGHTING FIXTURES 3-CEILING FAN	220	990	4.30	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	8-LIGHTING FIXTURES 3-CEILING FAN	220	660	2.87	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	5-LIGHTING FIXTURES	220	450	1.96	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
5	18-CONVENIENCE OUTLET	220	1800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
6	18-CONVENIENCE OUTLET	220	1800	7.83	30	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
7	3-EXIT LIGHT (ADDITIONAL)	220	720	3.14	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
8	SPARE (ADDITIONAL)	220	—	—	30	—	—
			7,480	32.19			

COMPUTATION:

$I = \frac{7,180 VA}{230 V}$

$I = 32.19$ AMPERES

OVER CURRENT PROTECTION:
USE : 60AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN MAIN L

MAIN FEEDER:
USE : 2 -5.5mm² THHN & 1-5.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/32mmØ IMC PIPE

SCALE : NTS

SCHEDULE OF LOADS

1

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	OWNER:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 05.17.2022	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING AND DESIGN SECTION	ENGR. GAGAN R. VERZOSA, JR. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SCHEDULE OF LOADS	EL-04 18 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	REVISIONS:					

LPP-B

MDP - EXISTING GROUND FLOOR

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	GROUND FLOOR	230	11,300	49.13	60	2-8.0mm² THWN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	SECOND FLOOR	230	7,180	31.13	60	2-8.0mm² THWN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	THIRD FLOOR	230	7,180	31.13	60	2-8.0mm² THWN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	FOURTH FLOOR	230	7,180	31.13	60	2-8.0mm² THWN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			32,780	142.52			

COMPUTATION:

$IT = \frac{32,780\ VA}{230\ V}$

IT = 142.52 AMPERES

OVER CURRENT PROTECTION
USE : 150AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER :
USE : 2 -60.0mm² THHN & 1-14.0mm² TW GROUND WIRE IN 63mmØ PVC PIPE
/40mmØ IMC PIPE

LPP-C

LPP - EXISTING GROUND FLOOR (FOR REPLACEMENT)

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	8-LIGHTING FIXTURES	230	309	1.34	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	8-LIGHTING FIXTURES	230	309	1.34	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	6-CEILING FAN	230	360	1.56	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	7-LIGHTING FIXTURES	230	353	1.52	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
7	4-CONVENIENCE OUTLET	230	720	3.13	20	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
8	FACP	230	1,000	4.52	20	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			4,810	21.35			

COMPUTATION

$IT = \frac{4,810\ VA}{230\ V}$

IT = 21.35 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER :
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/20mmØ IMC PIPE

LPP-C

LPP - EXISTING SECOND FLOOR

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	4-LIGHTING FIXTURES 3-CEILING FAN	230	750	3.26	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	4-LIGHTING FIXTURES 3-CEILING FAN	230	750	3.26	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	7-LIGHTING FIXTURES	230	360	1.52	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	4-CONVENIENCE OUTLET	230	720	3.13	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
7	2-EMERGENCY LIGHT (ADDITIONAL) 3-EXIT LIGHT	230	720	3.14	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
8	SPARE	230	—	—	50	—	—
			4,730	20.57			

COMPUTATION :

$IT = \frac{4,730\ VA}{230\ V}$

IT = 20.57 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER :
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/20mmØ IMC PIPE

LPP-C

LPP - EXISTING THIRD FLOOR

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	10-LIGHTING FIXTURES 6-CEILING FAN	230	1909	8.30	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	7-LIGHTING FIXTURES	230	350	1.52	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	8-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	8-CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	2-EMERGENCY LIGHT (ADDITIONAL) 3-EXIT LIGHT	230	720	3.14	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	SPARE	230	—	—	20	—	—
			4,730	20.57			

COMPUTATION :

$IT = \frac{4,730\ VA}{230\ V}$

IT = 20.57 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER :
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/20mmØ IMC PIPE

1 SCHEDULE OF LOADS

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 06/17/2022	ENGR. LEO S. DEL ROSARIO Asst. Building & Housing project	ENGR. ISAGANI R. VERZOSA, JR.	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SCHEDULE OF LOADS	EL-05 19 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	REVISION(S):					

LPP-C

LPP - EXISTING FOURTH FLOOR

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	6-LIGHTING FIXTURES 3-CEILING FAN	220	756	3.26	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	6-LIGHTING FIXTURES 3-CEILING FAN	220	756	3.26	15	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	6-CONVENIENCE OUTLET	220	1,080	4.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
4	6-CONVENIENCE OUTLET	220	1,080	4.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
5	7-LIGHTING FIXTURES	220	350	1.52	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
6	2-EMERGENCY LIGHT (ADDITIONAL) 2-EXIT LIGHT	220	720	3.14	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
			4,720	20.57			

COMPUTATION:

$IT = \frac{4,720\ VA}{230\ V}$

IT = 20.57 AMPERES

OVER CURRENT PROTECTION
USE : 40AT, 2P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/20mmØ IMC PIPE

LPP-C

MDP - EXISTING GROUND FLOOR

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	GROUND FLOOR	230	4,910	21.35	40	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
2	SECOND FLOOR	230	4,730	20.57	40	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
3	THIRD FLOOR	230	4,730	20.57	40	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
4	FOURTH FLOOR	230	4,730	20.57	40	2-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 25mmØ PVC PIPE
			19,100	83.06			

COMPUTATION:

$IT = \frac{19,100\ VA}{230\ V}$

IT = 83.06 AMPERES

OVER CURRENT PROTECTION
USE : 125AT, 2P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

MAIN FEEDER
USE : 2 -38.0mm² THHN & 1-14.0mm² TW GROUND WIRE IN 50mmØ PVC PIPE
/40mmØ IMC PIPE

FPP - (PROPOSED)

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMPERE LOAD			3Ø	AT	SIZE OF	
				AB	BC	CA			WIRES	CONDUITS
1	FIRE PUMP,5HP,3Ø	230	51,789				130	250	3-125mm² THHN COPPER WIRE 1-38mm² TW GROUND WIRE	IN 65mmØ IMC PIPE
2	JOCKEY PUMP,5HP,3Ø	230	6,060				15.21	40	3-5.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ IMC PIPE
3	BOOSTER PUMP_1,5HP,3Ø	230	8,765				22	50	3-8.0mm² THHN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 20mmØ IMC PIPE
4	BOOSTER PUMP_1,5HP,3Ø	230	8,765				22	50	3-8.0mm² THHN COPPER WIRE 1-5.5mm² TW GROUND WIRE	IN 20mmØ IMC PIPE
			75,376				189.21			

COMPUTATION:

IT = (2/3 X 0.25) + 189.21 A

IT = 194.71 AMPERES

OVER CURRENT PROTECTION
USE : 400AT, 3P, 230V MOULDED CASE CIRCUIT BREAKER

MAIN FEEDER
3 - 250.0mm² THHN & 1-50.0mm² TW GROUND WIRE IN 110mmØ PVC PIPE / 90mmØ IMC PIPE

STAGE

LPP 5 - PROPOSED

CKT. NO.	LOAD DESCRIPTION	VOLTS	VA	AMP.	AT	SIZE OF	
						WIRES	CONDUITS
1	LIGHTING FIXTURES	230	660	2.61	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
2	CONVENIENCE OUTLET	230	1,080	4.70	20	2-3.5mm² THHN COPPER WIRE 1-3.5mm² TW GROUND WIRE	IN 20mmØ PVC PIPE
3	SPARE	230	—	—	20	—	—
4	SPARE	230	—	—	20	—	—
			3,000	7.31			

COMPUTATION:

$IT = \frac{3,000\ VA}{230\ V}$

IT = 13.04 AMPERES

OVER CURRENT PROTECTION
USE : 30AT, 3P, 230V MOLDED CASE CIRCUIT BREAKER IN NEMA 1

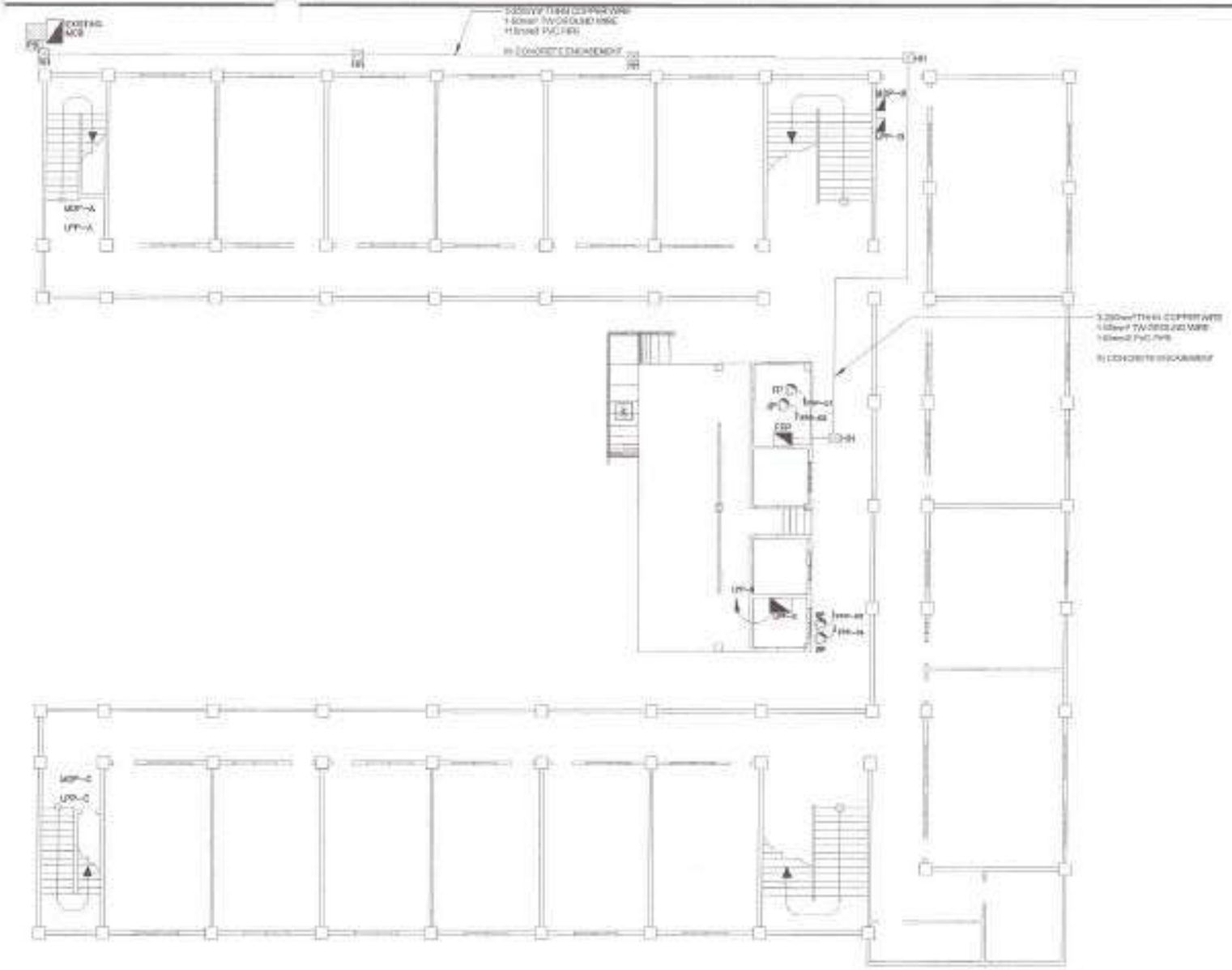
MAIN FEEDER
USE : 2 -5.5mm² THHN & 1-3.5mm² TW GROUND WIRE IN 25mmØ PVC PIPE
/20mmØ IMC PIPE

1 SCHEDULE OF LOADS

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 20.07.2022	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC-CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SCHEDULE OF LOADS	EL-06 2036
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED:					
	REVISIONS:					

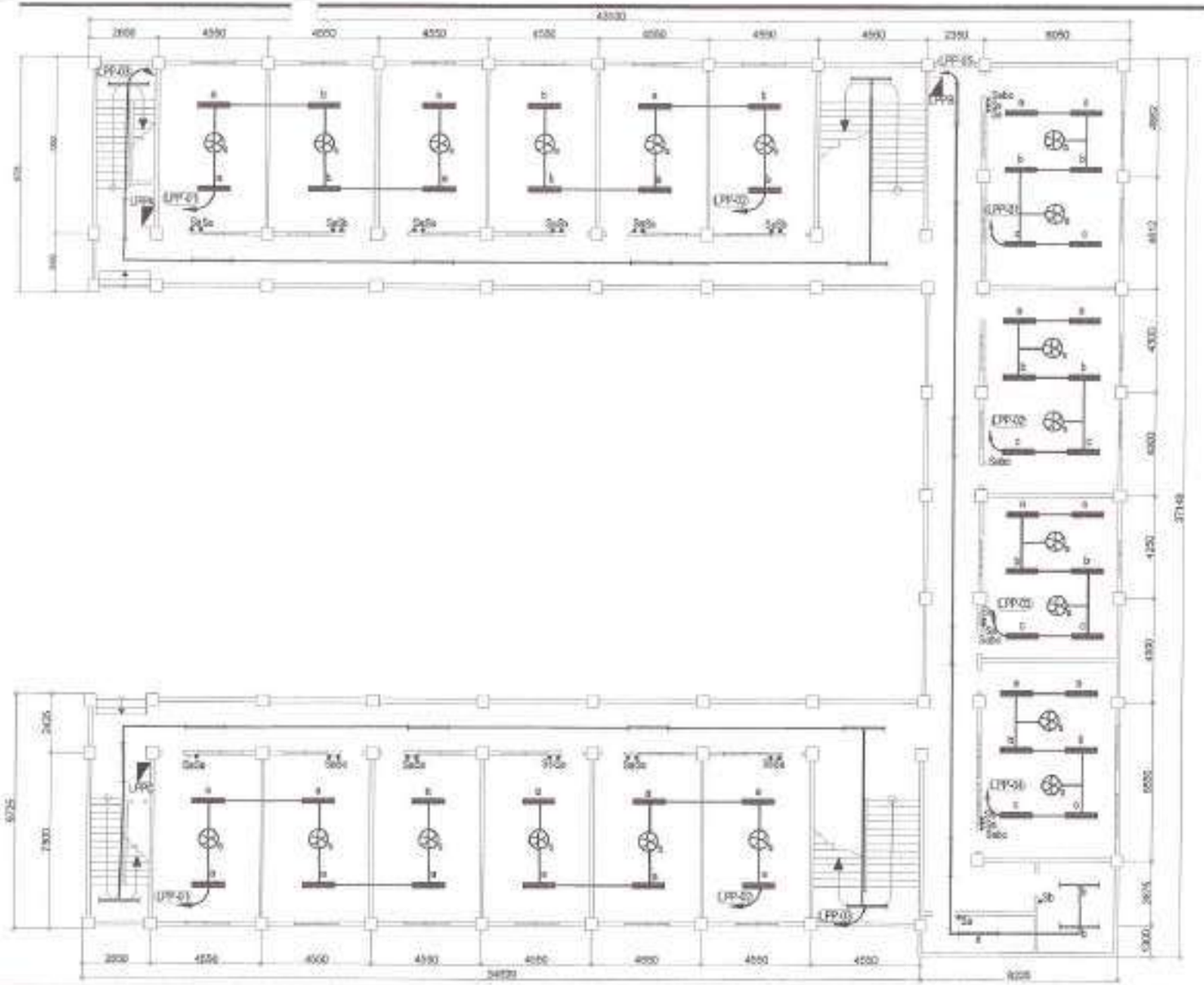


1 GROUND FLOOR FEEDER LAYOUT

SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	OWNER:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 8/1/2022	ENGR. LEO S. DEL ROSARIO BDG. PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA , JR. ASS. CITY ENGINEER-OIC/MANAGER	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	GROUND FLOOR FEEDER LAYOUT	EL-07 21 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED:					
	REVISION NO.:					



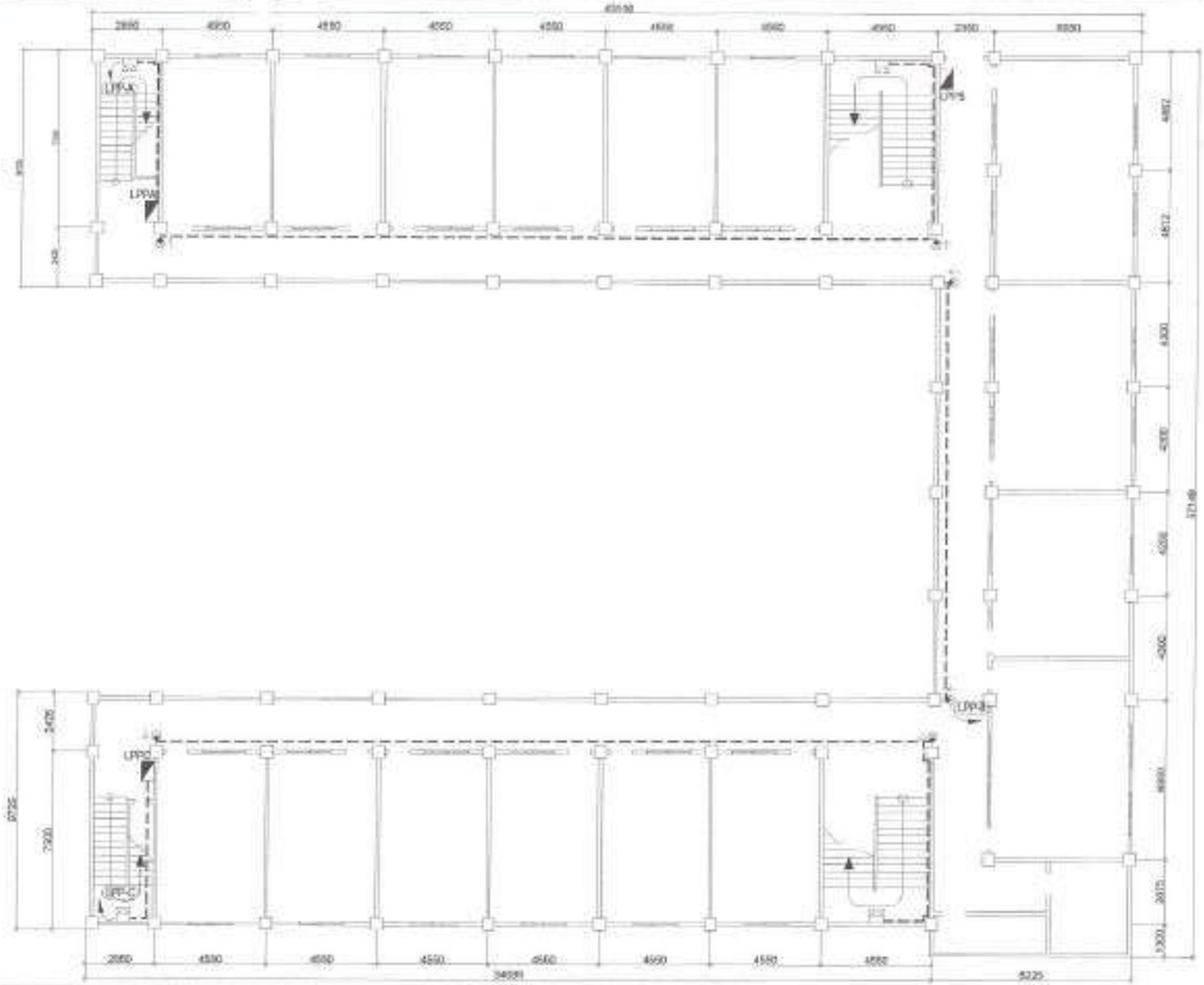
NOTE:
1. REPLACEMENT OF LIGHTING FIXTURE, CEILING FANS, AND SWITCHES
2. REWIRING

1 FOURTH FLOOR LIGHTING LAYOUT

SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL, ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/11/2022	ENGR. LEO S. DEL ROSARIO HEAD, PLUMBING & FIRE PROTECTION DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	FOURTH FLOOR LIGHTING LAYOUT	EL-08 22 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	REVISION NO.:					



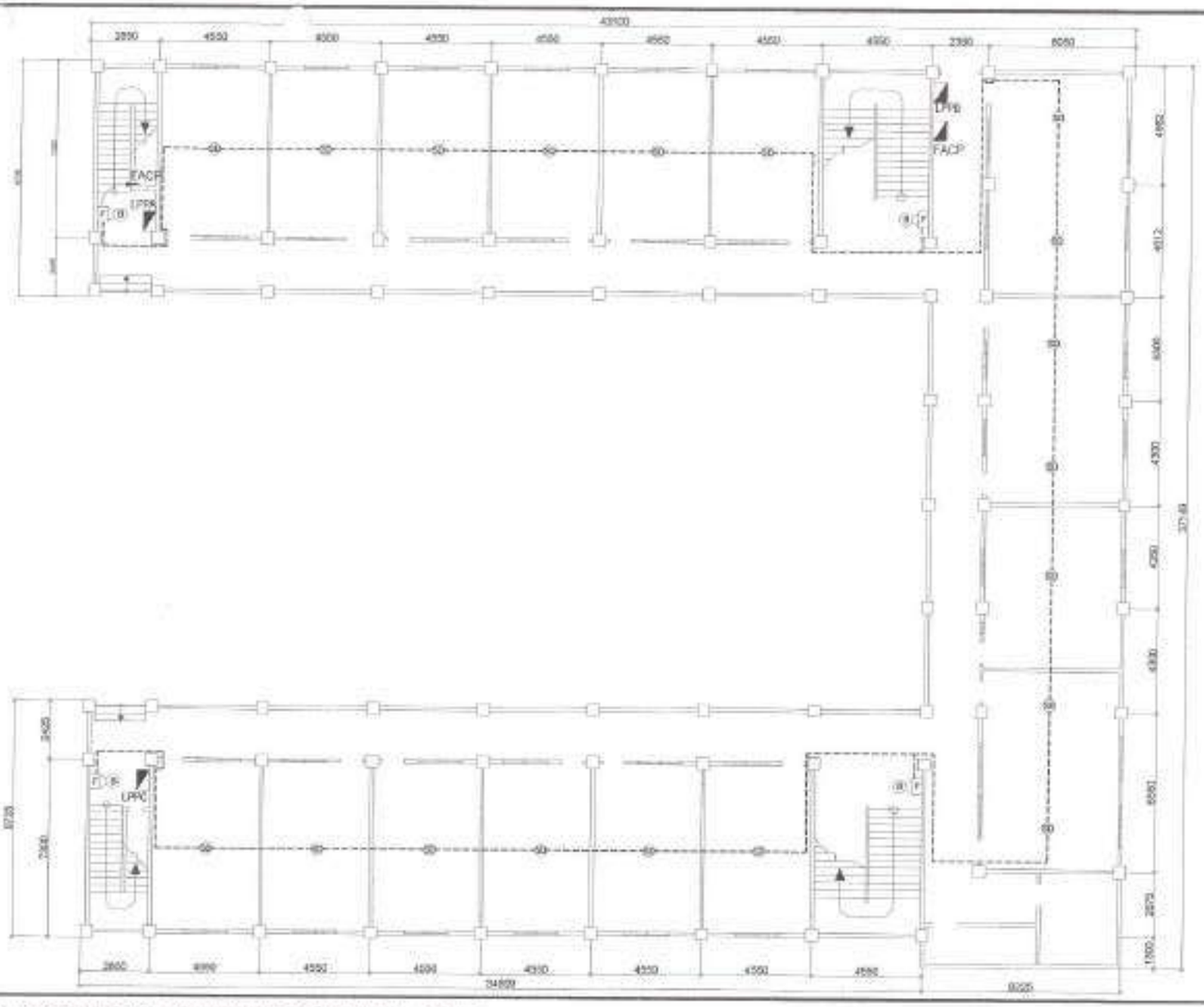
NOTE:
1. INSTALLATION OF EXIT LIGHT
2. REPLACEMENT OF EMERGENCY LIGHT
3. REWIRING

1 PROPOSED TYPICAL GROUND TO FOURTH FLOOR POWER LAYOUT

SCALE: 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 10.17.2022	ENGR. LEO S. DEL ROSARIO HEAD - PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	PROPOSED TYPICAL GROUND TO FOURTH FLOOR POWER LAYOUT	EL-09 23 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	REVISION NO.:					



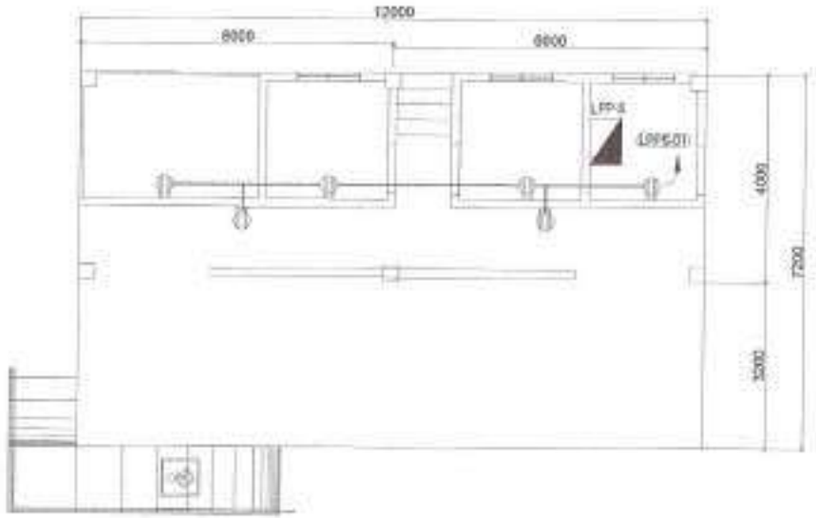
NOTE:
1. INSTALLATION OF FIRE ALARM SYSTEM.

1 PROPOSED TYPICAL GROUND TO FOURTH FLOOR FDAS LAYOUT

SCALE: 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

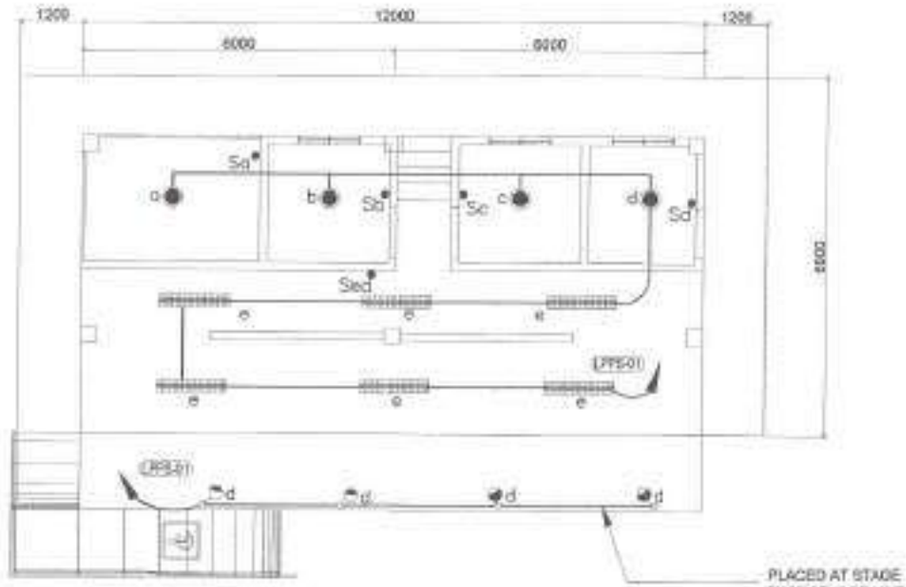
PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/7/2022	ENGR. LEO S. DEL ROSARIO	ENGR. SAMMI R. VERZOSA, JR.	HON. MA. JOSEFINA G. BELMONTE	PROPOSED TYPICAL GROUND TO FOURTH FLOOR FDAS LAYOUT	EL-10
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:			CITY MAYOR, QUEZON CITY		24 36
	REVISION NO.:					



NOTE:
1. INSTALLATION OF OUTLETS

1 STAGE POWER LAYOUT

SCALE : 1:100MTS



NOTE:
1. INSTALLATION OF LIGHTING FIXTURE AND SWITCHES

2 STAGE LIGHTING LAYOUT

SCALE : 1:100MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DRAWN BY: P.A.H.L. DATE: 05.17.2022 CHECKED BY: REVISED NO.:	SUBMITTED BY: ENGR. LEOIS DEL ROSARIO HEAD, PLANNING AND PROGRAMMING DIVISION	RECOMMENDING APPROVAL: ENGR. ISMAEL R. VERZOSA , JR. OIC-CITY ENGINEERING DEPARTMENT	APPROVED BY: HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SHEET CONTENT: STAGE POWER LAYOUT / STAGE LIGHTING LAYOUT	SHEET NO.: EL-11 / 2536

1. ALL THE PLUMBING/SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE PHILIPPINE PLUMBING CODE , THE NATIONAL BUILDING CODE RULES AND REGULATION OF QUEZON CITY.
2. COORDINATE THE DRAWINGS WITH OTHER RELATED DRAWINGS AND SPECIFICATION REQUIRED. THE ENG'R./ ARCH. SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
3. ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.
4. PROPOSED SANITARY UTILITIES SHALL BE CONFORM TO THE ACTUAL LOCATION, DEPTH, AND INVERT ELEVATION OF ALL EXISTING STRUCTURES AND PIPES AS VERIFIED BY THE CONTRACTOR.
5. ALL SLOPES FOR HORIZONTAL DRAINAGE SHALL MAINTAIN 1% MIN. UNLESS OTHERWISE SPECIFIED.
6. SIZES OF WATER SUPPLY PIPES TO FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE AND COORDINATE THE WORKS WITH THE SEWER LINE EFFLUENT DISPOSAL POINT AND WATER LINE SERVICE CONNECTING POINT.
8. ALL WATER PIPE AND WATER TANKS SHALL BE THOROUGHLY FLUSHED AND DISINFECTED WITH LIQUID CHLORINE OR HYDROCHLORIDE SOLUTION.
9. ALL WATER PIPES SHALL BE HYDROSTATICALLY TESTED TO A PRESSURE 1-1/2 THE DESIGNED WORKING PRESSURE OF THE SYSTEM.
10. ALL SANITARY AND STORM DRAINAGE PIPES SHALL BE HYDROSTATICALLY TESTED AT LEAST 2.0 MTS. HEAD TO ENSURE THAT THE SYSTEM ARE WATER TIGHT.
11. ALL DIMENSIONS ARE IN METERS AND ALL PIPES SIZES ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
12. ALL PIPES INDICATED ON PLANS REFER TO PIPES INSIDE DIAMETER.

1 GENERAL NOTES

SCALE : NTS

I. SEWER/ WASTE AND VENT SYSTEM:

- SP / WP - SOIL PIPE / WASTE PIPE
- VP / VAC - VENT PIPE / VENT AT CEILING
- DP - STORM DRAIN PIPE
- FCO/ GCO - FLOOR CLEANOUT / GROUND CLEANOUT
- CCO - CEILING CLEAN-OUT
- DS - DRAINAGE STACK / DOWNSPOUT
- VSTR - VENT STACK/EXTENDED THROUGH ROOF
- SS - SOIL STACK

II. WATER DISTRIBUTION SYSTEM:

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

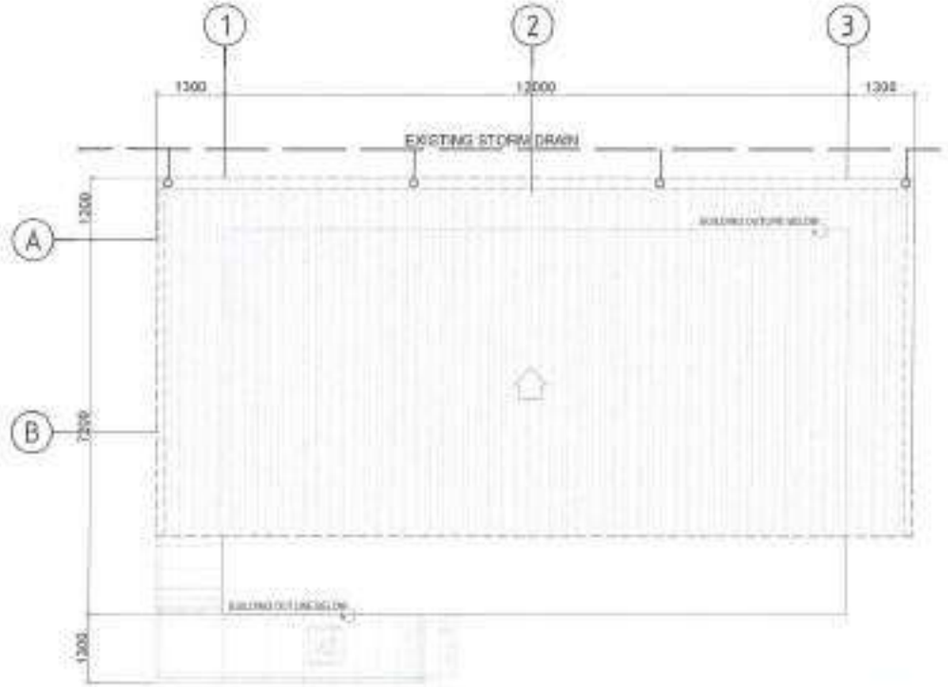
2 LEGENDS AND SYMBOLS

SCALE : NTS

DESIGNATION	DESCRIPTION	QUANTITY	TYPE	CAPACITY GPM/ GAL		TDH FT	MOTOR INPUT HP/ KW/ BKW
BP 1	BOOSTER PUMP	2	CENTRIFUGAL	150	GPM	100	7.5 / 230/ 3 PD
PT 1	PRESSURE TANK	1	-	120	GAL	-	-

3 EQUIPMENT SCHEDULE

SCALE : NTS



4 STORM DRAINAGE LAYOUT (STAGE)

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE REZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN:
DATE:
DESIGN BY:
REVISIONS:

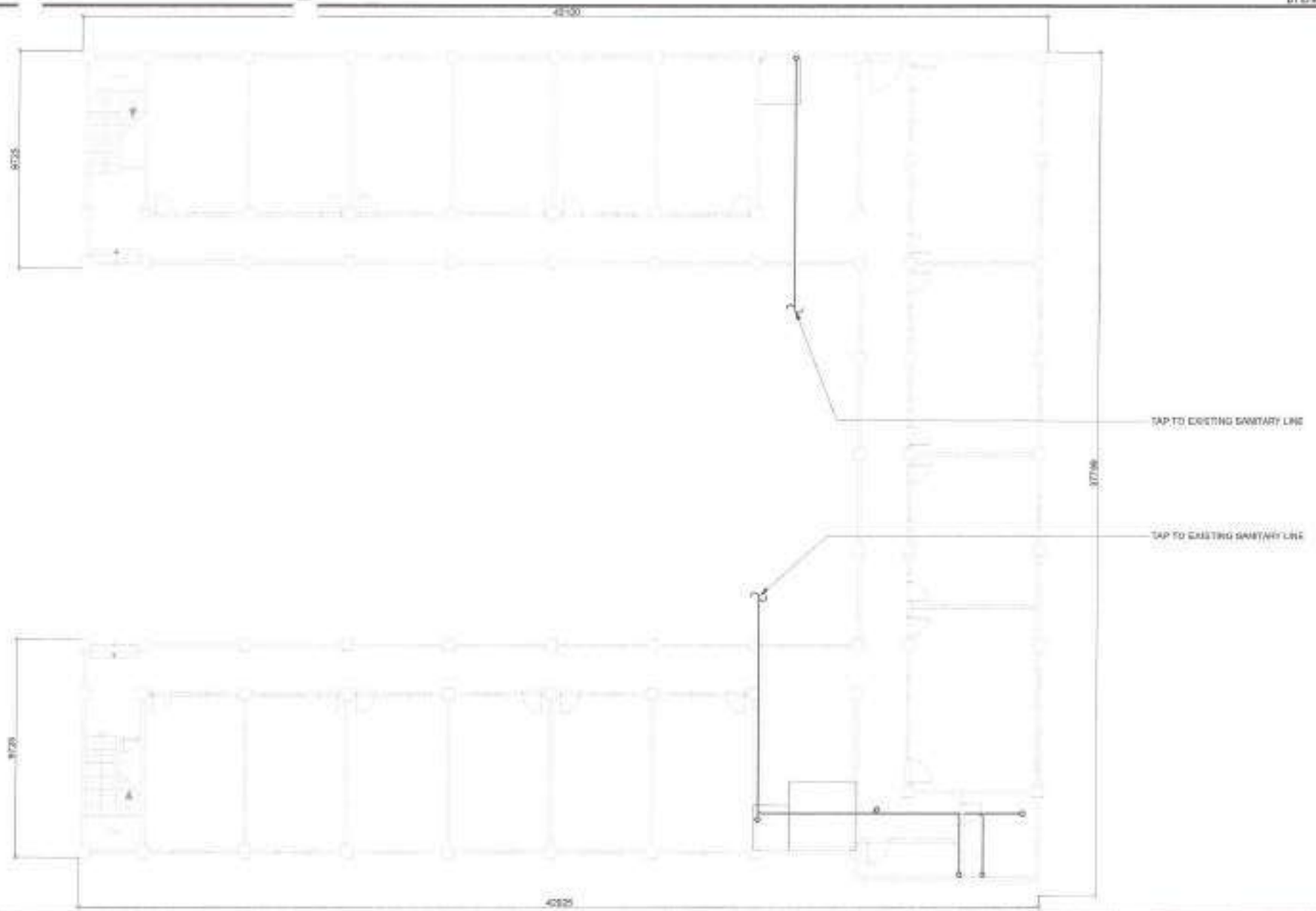
SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLUMBING INSPECTION DIVISION

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

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

SHEET CONTENT: GENERAL NOTES, LEGENDS AND SYMBOLS, EQUIPMENT SCHEDULE, STORM DRAINAGE LAYOUT (STAGE)

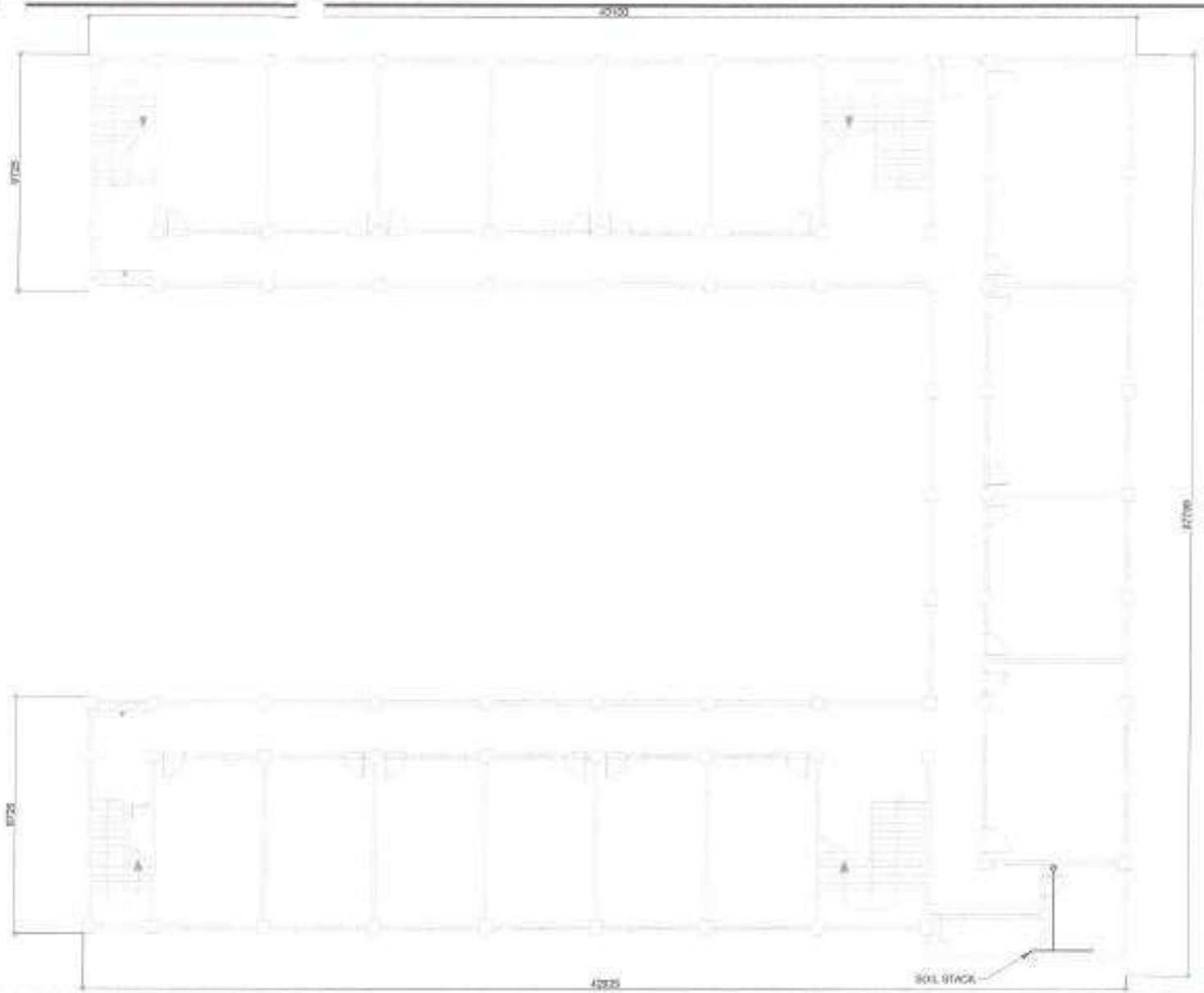
SHEET NO.: PL-01
26 36



1 **SEWER LINE LAYOUT AT GROUND FLOOR** SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE : PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DRAWN BY: PAOLO L. DATE: 02.17.202 CHECKED BY: REVISION NO. :	SUBMITTED BY: ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	RECOMMENDING APPROVAL: ENGR. ISAGANI R. VERZOSA , JR. OIC, CITY ENGINEER/CONCERNED	APPROVED BY: HON. MA. JOSEFINA G. BELMONTE CITY MAYOR , QUEZON CITY	SHEET CONTENT: SEWER LINE LAYOUT AT GROUND FLOOR	SHEET NO.: PL-02 / 27 / 36

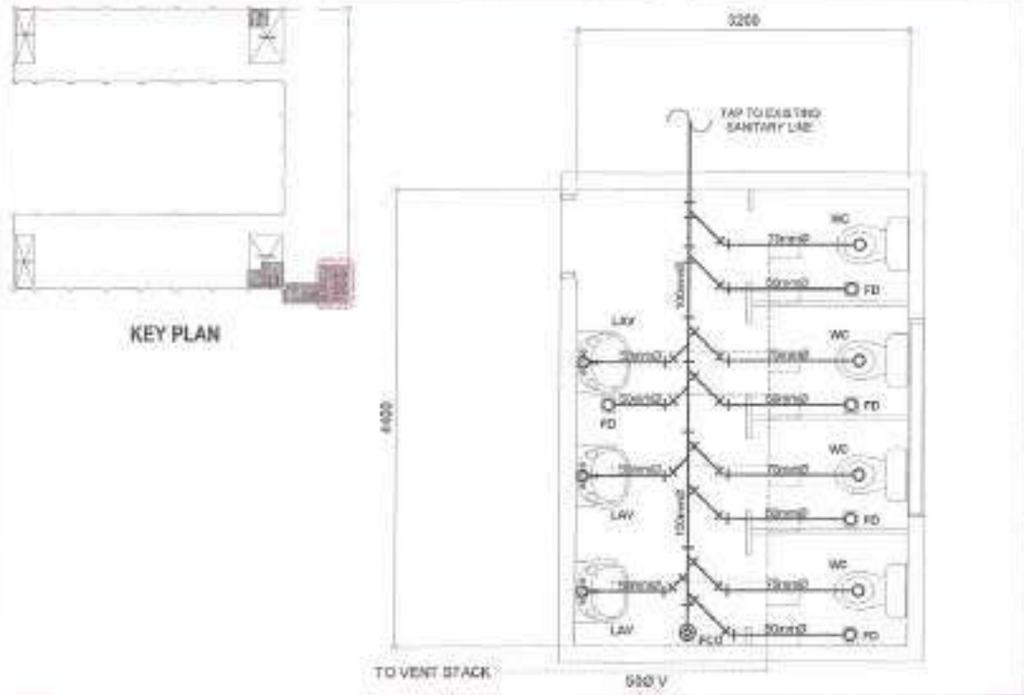


1 SEWER LINE LAYOUT AT SECOND TO FOURTH FLOOR

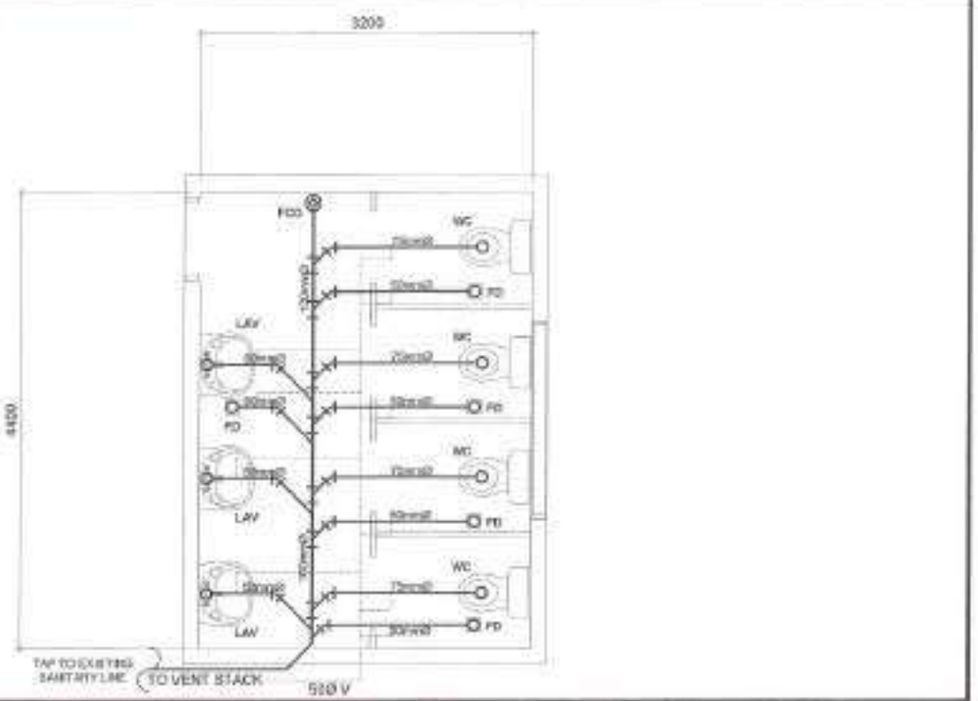
SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

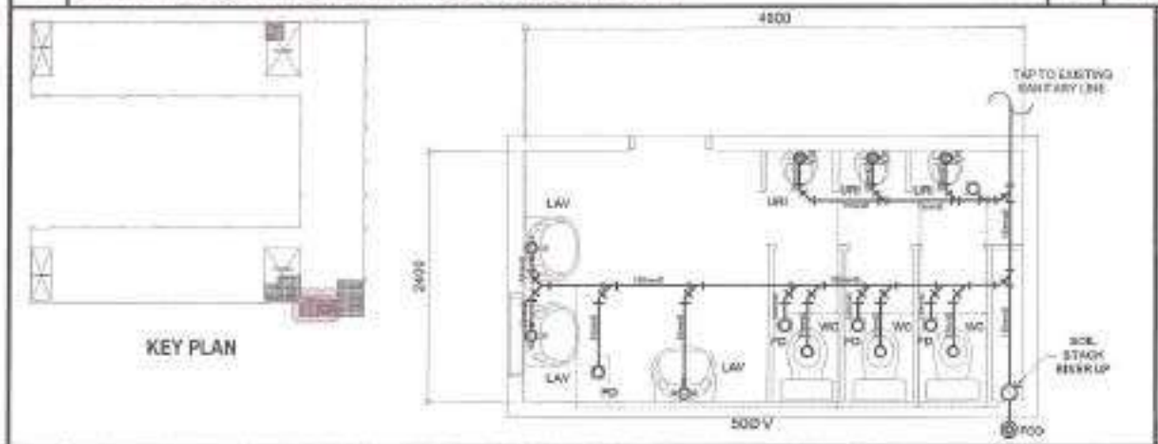
PROJECT TITLE:	DRAWN:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE:	ENGR. LEO S. DEL ROSARIO	ENGR. ISIDRINI R. VERZOSA , JR.	HON. MA. JOSEFINA G. BELMONTE	SEWER LINE LAYOUT AT SECOND TO FOURTH FLOOR	PL-03 28 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 3, QUEZON CITY	CHECKED:					
	REVISIONS:					



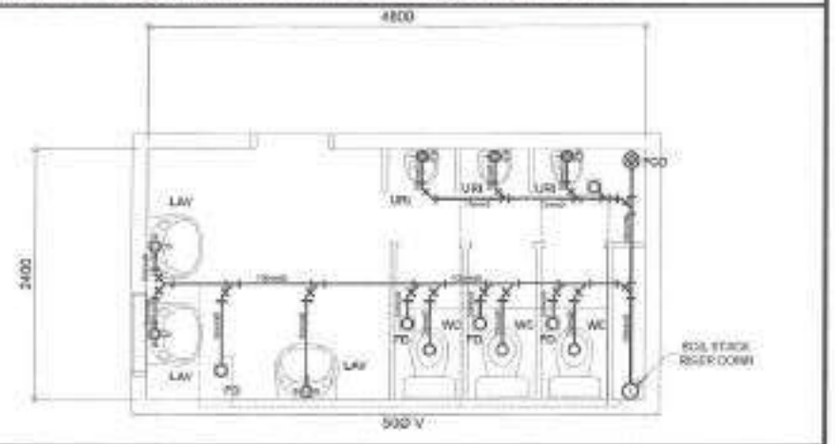
1 **C.R. SEWERLINE LAYOUT AT GROUND FLOOR** SCALE : 1:50MTS



2 **C.R. SEWERLINE LAYOUT AT SECOND TO FOURTH FLOOR** SCALE : 1:50MTS



3 **C.R. SEWERLINE LAYOUT AT GROUND FLOOR** SCALE : 1:50MTS



4 **C.R. SEWERLINE LAYOUT AT SECOND TO FOURTH FLOOR** SCALE : 1:50MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY:
DATE: 05/17/2023
CHECKED BY:
REVISION NO. :

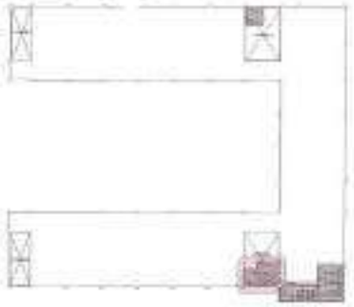
SUBMITTED BY:
ENGR. LEO S. DEL ROSARIO
HEAD, PLANNING & PROGRAMMING DIVISION

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

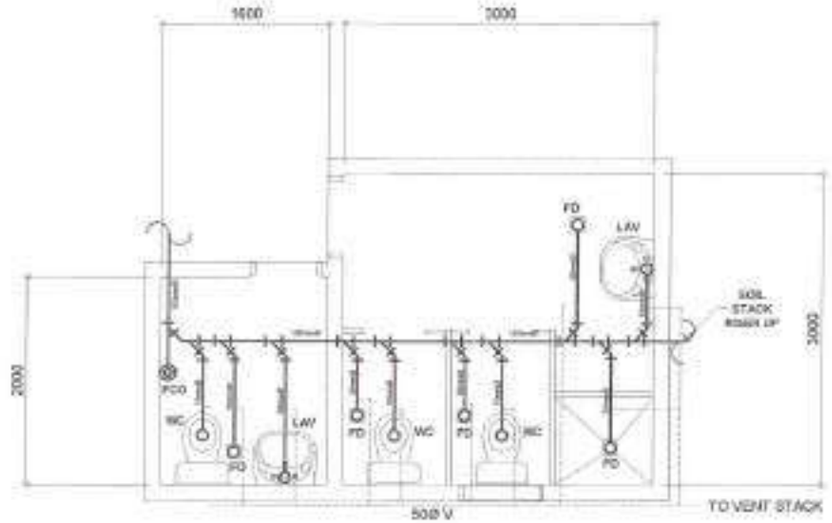
APPROVED BY:
HON. MA. JOSEFINA G. BELMONTE
CITY MAYOR, QUEZON CITY

SHEET CONTENT:
C.R. SEWERLINE LAYOUT AT GROUND FLOOR
C.R. SEWERLINE LAYOUT AT SECOND TO FOURTH FLOOR
C.R. SEWERLINE LAYOUT AT GROUND FLOOR
C.R. SEWERLINE LAYOUT AT SECOND TO FOURTH FLOOR

SHEET NO.
PL-04
29 36

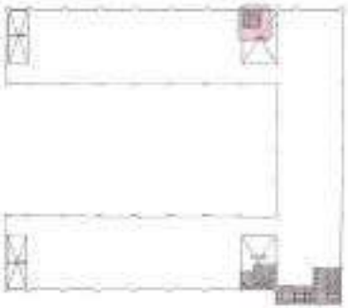


KEY PLAN

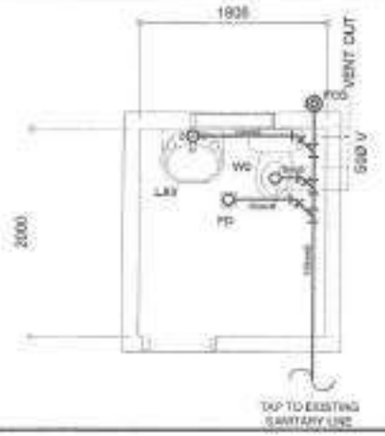


1 C.R. SEWERLINE LAYOUT AT GROUND FLOOR

SCALE : 1:50MTS



KEY PLAN

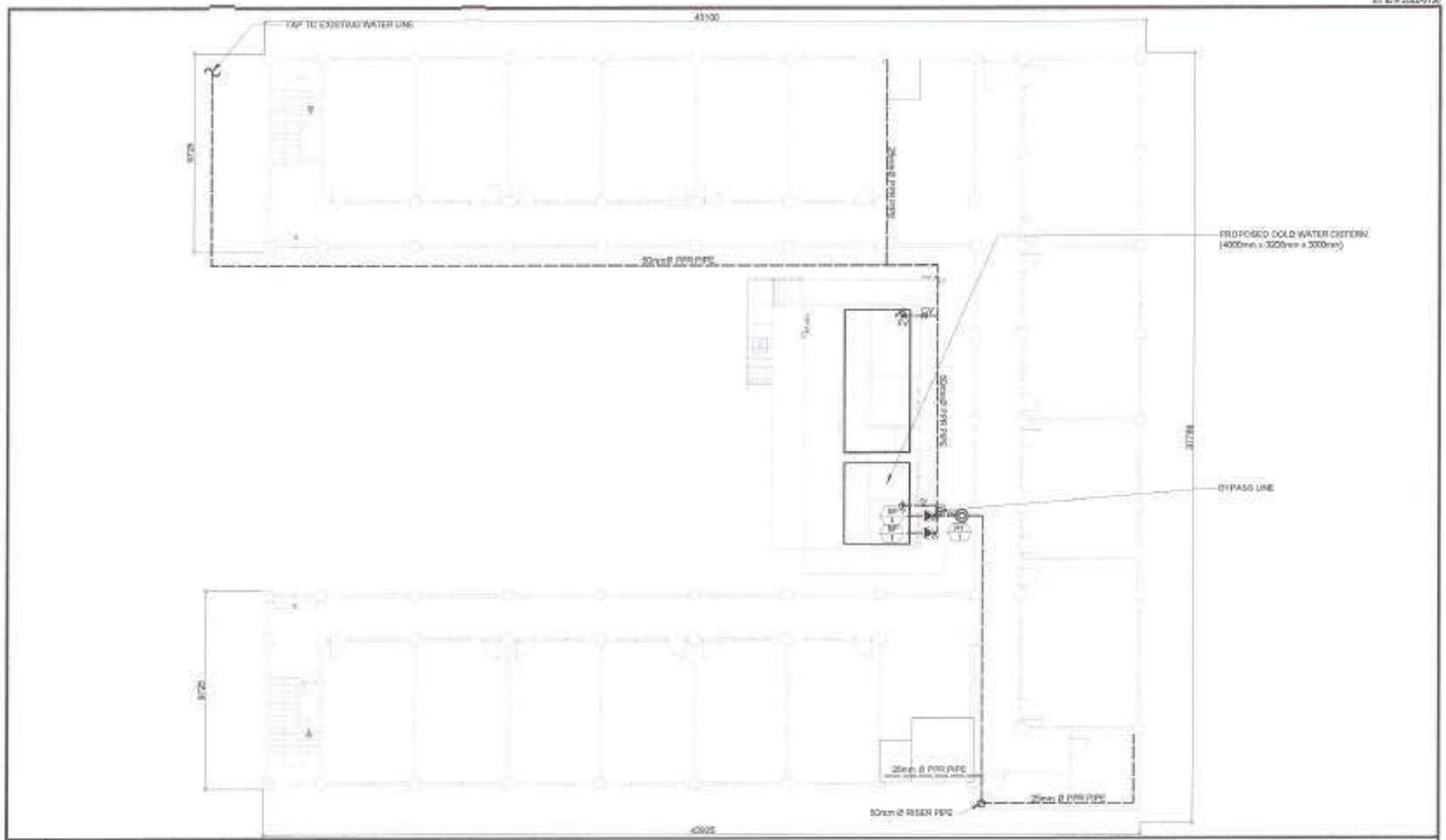


1 C.R. SEWERLINE LAYOUT AT GROUND FLOOR

SCALE : 1:50MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: 08/17/2022 CHECKED BY: REVISIONS:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. GASANI R. VERZOSA , JR. OIC-CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	C.R. SEWERLINE LAYOUT AT GROUND FLOOR C.R. SEWERLINE LAYOUT AT GROUND FLOOR	PL-05 30 36



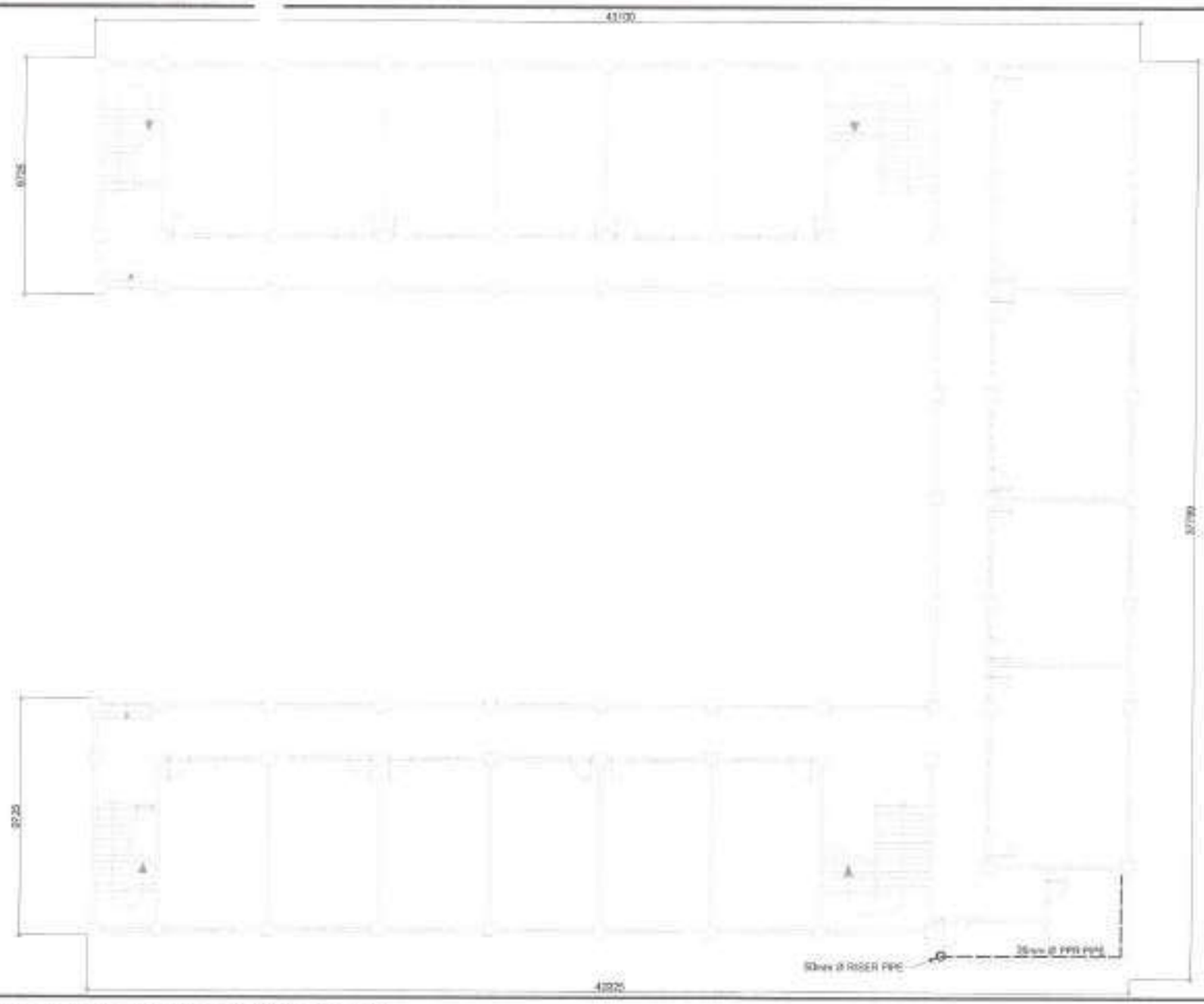
1 C.R. WATERLINE LAYOUT AT GROUND FLOOR

SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 06.17.2022	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING PROGRAMMING DIVISION	ENGR. SAIDAMI R. VERZOSA , JR. OIC-CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	C.R. WATERLINE LAYOUT AT GROUND FLOOR	PL-06 31 36
LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	REVISION NO.:					

DED# 2023_076 H
BT ID # 2022-0130



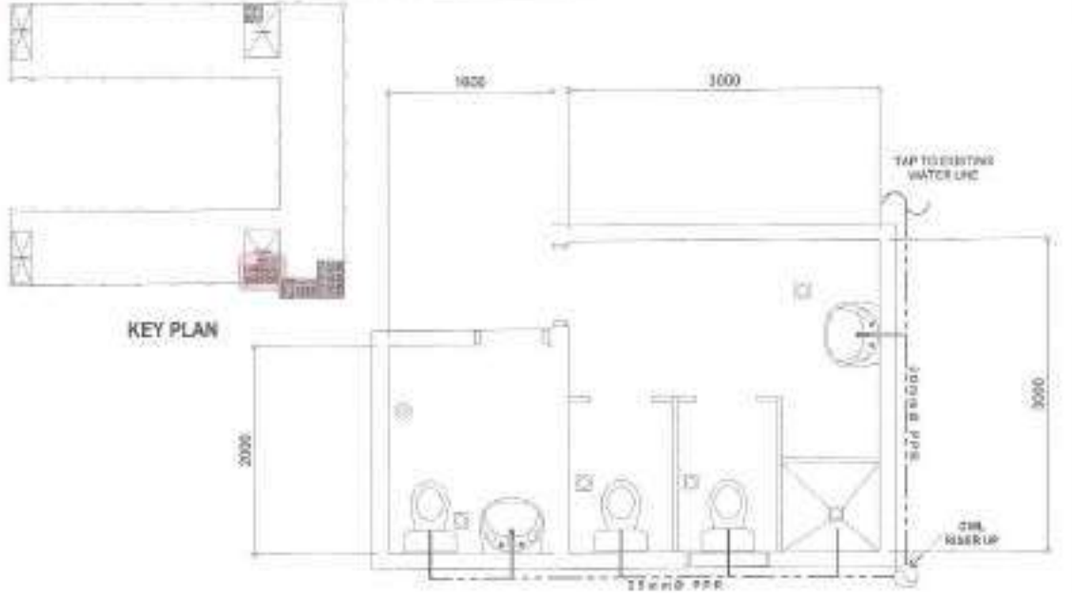
1 C.R. WATERLINE LAYOUT AT SECOND TO FOURTH FLOOR

SCALE : 1:175MTS

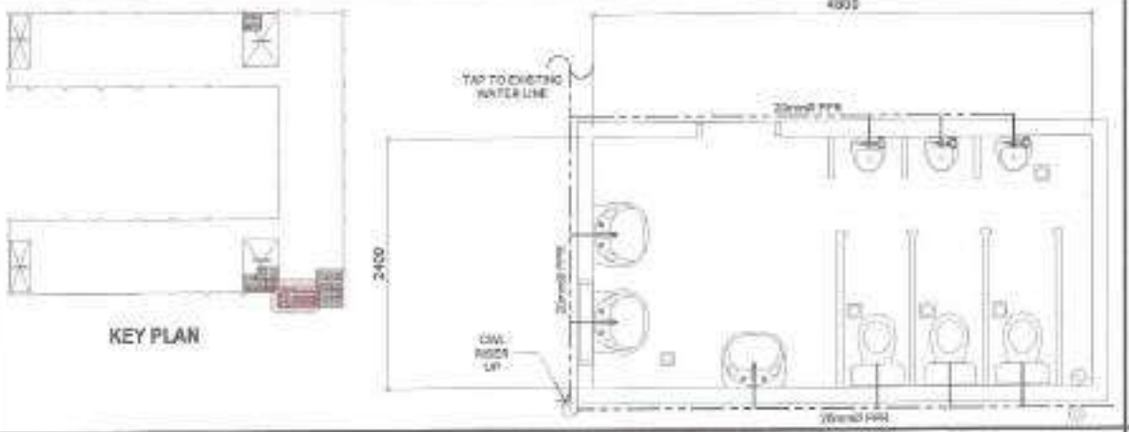
Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE:	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DATE: 06/1/2023 CHECKED BY: REVISION NO.:	ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	ENGR. GABANI R. VERZOSA , JR. OIC, CITY ENGINEERS DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	C.R. WATERLINE LAYOUT AT SECOND TO FOURTH FLOOR	PL-07 3236

1 C.R. WATERLINE LAYOUT AT GROUND TO FOURTH FLOOR SCALE : 1:50MTS



3 C.R. WATERLINE LAYOUT AT GROUND FLOOR SCALE : 1:50MTS



2 C.R. WATERLINE LAYOUT AT GROUND TO FOURTH FLOOR SCALE : 1:50MTS

4 C.R. WATERLINE LAYOUT AT GROUND FLOOR SCALE : 1:50MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

DRAWN BY:
DATE: 06/17/2022
CHECKED BY:
REVISION NO.:

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

RECOMMENDING APPROVAL:
ENGR. ISAGANI R. VERZOSA , JR.
OIC, CITY ENGINEERING DIVISION

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

SHEET CONTENT:
C.R. WATERLINE LAYOUT AT GROUND TO FOURTH FLOOR
C.R. WATERLINE LAYOUT AT GROUND TO FOURTH FLOOR
C.R. WATERLINE LAYOUT AT GROUND FLOOR
C.R. WATERLINE LAYOUT AT GROUND FLOOR

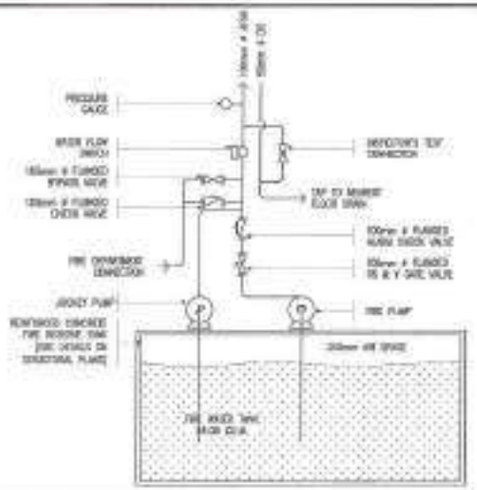
SHEET NO.
PL-08
33 36

FIRE PROTECTION WORKS

1. ALL WORKS SHALL BE EXECUTED IN ACCORDANCE TO THE NATIONAL FIRE PROTECTION ASSOCIATION CODES 13 AND 20, NATIONAL FIRE CODE OF THE PHILIPPINES, THE NATIONAL BUILDING CODE OF THE PHILIPPINES AND OTHER RELATED LAWS AND ORDINANCES OF THIS CITY.
2. ALL WORKS SHALL BE SUPERVISED BY A REGISTERED PROFESSIONAL RELATED TO THE ACTIVITIES BEING UNDERTAKEN
3. ALL WORKS SHALL BE COORDINATED WITH THE RESPECTIVE TRADES IN ORDER TO AVOID CONFLICTS DURING EXECUTION OF ACTIVITIES.
4. ALL NECESSARY PERMITS SHALL BE SECURED AND TURNED-OVER TO THE CITY
5. ALL DRAWINGS AND SPECIFICATIONS SHALL BE CORRECTLY REVIEWED BY THE CONTRACTOR AND SHALL IMMEDIATELY BE INFORMED IF DISCREPANCY (IES) FOUND HEREIN.
6. ALL DIMENSIONS, ELEVATIONS AND REFERENCES SHALL BE VERIFIED WITH THE ACTUAL CONDITION PRIOR TO EXECUTION.
7. SHOP DRAWINGS SHALL BE PROVIDED AS NECESSARY PRIOR TO THE EXECUTION.
8. ALL WORKS SHALL BE TESTED AND COMMISSIONED AS INDICATED IN THE SPECIFICATION WITH THE PRESENCE OF ALL PARTIES INVOLVE. RESULT SHALL BE DOCUMENTED PROPERLY.
9. READ THE DRAWINGS IN CONNECTION WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES FOUND THERE IN.
10. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF SPRINKLER HEADS IN COORDINATION WITH THE REFLECTED CEILING LAYOUTS. RELOCATION OF SPRINKLER HEADS SHALL BE SUBJECTED TO THE ARCHITECTS AND ENGINEER'S APPROVAL.
11. ALL DRAIN PIPES FOR INSPECTOR'S TEST CONNECTIONS AND DRAIN VALVES SHALL BE DISCHARGED TO THE NEAREST FLOOR DRAINS.
12. FIRE PUMPS & JOCKEY PUMP'S ELECTRICAL CONNECTIONS SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
13. PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS AND WALLS.
14. MINIMUM PIPE SIZE OF FOR ALL SPRINKLER HEADS SHALL BE 25MM Ø UNLESS OTHERWISE NOTED.
15. ALWAYS REFER TO TECHNICAL SPECIFICATIONS AND MATERIAL SPECIFICATIONS.

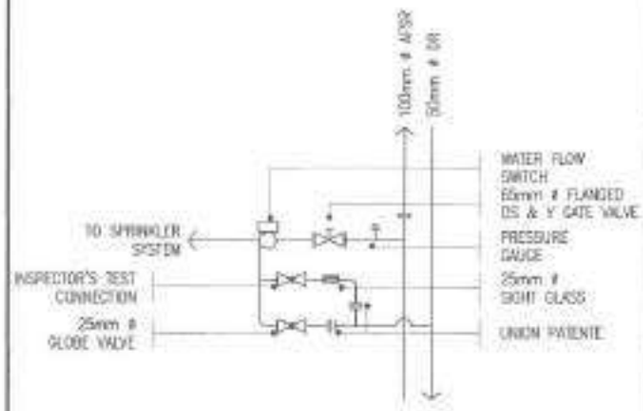
1 GENERAL NOTES

SCALE : NTS



2 FIRE PUMP ASSEMBLY DIAGRAM

SCALE : NTS



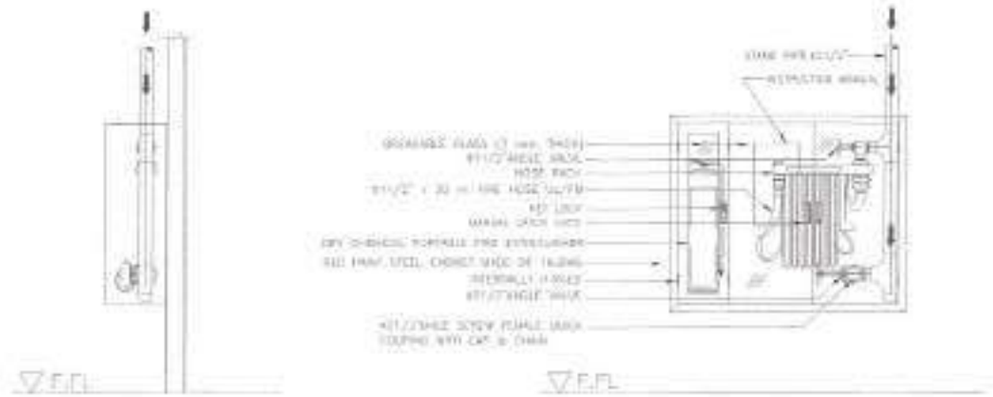
3 FLOW CONTROL VALVE ASSEMBLY DIAGRAM

SCALE : NTS

DESIGNATION	DESCRIPTION	QUANTITY	TYPE	CAPACITY GPM	SIZE HP	MOTOR INPUT VOLTS (VOLTS)
FP 1	FIRE PUMP	1	VERTICAL TURBINE	500	200	3 / 230 / 60
JP 1	JOCKEY PUMP	1	VERTICAL TURBINE	100	10	230

5 EQUIPMENT SCHEDULE

SCALE : NTS



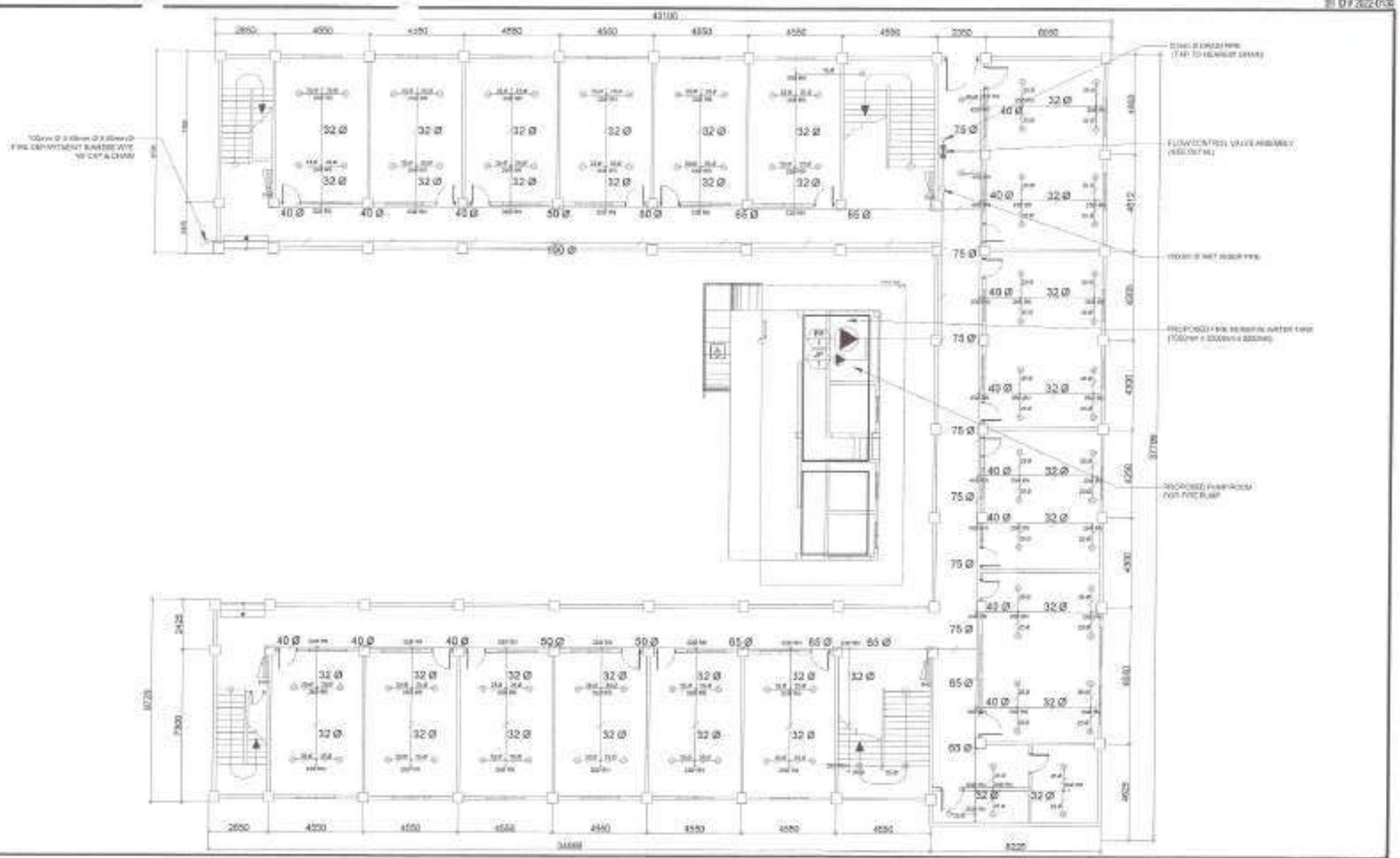
4 FIRE HOSE CABINET DETAIL

SCALE : NTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE: PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT LOCATION: BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	DRAWN BY: [illegible] DATE: 02/7/2022 CHECKED BY: [illegible] REVISION NO.:	SUBMITTED BY: ENGR. LEO S. DEL ROSARIO HEAD, PLANNING & PROGRAMMING DIVISION	RECOMMENDING APPROVAL: ENGR. ISAGANI R. VERZOSA, JR. CITY ENGINEER/DEPARTMENT	APPROVED BY: HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	SHEET CONTENT: GENERAL NOTES; FIRE PUMP ASSEMBLY DIAGRAM; FLOW CONTROL VALVE ASSEMBLY DIAGRAM; FIRE HOSE CABINET DETAIL; EQUIPMENT SCHEDULE	SHEET NO.: FP-01 (34 36)

DEDB 2022-079 R
BI D # 2022-0130

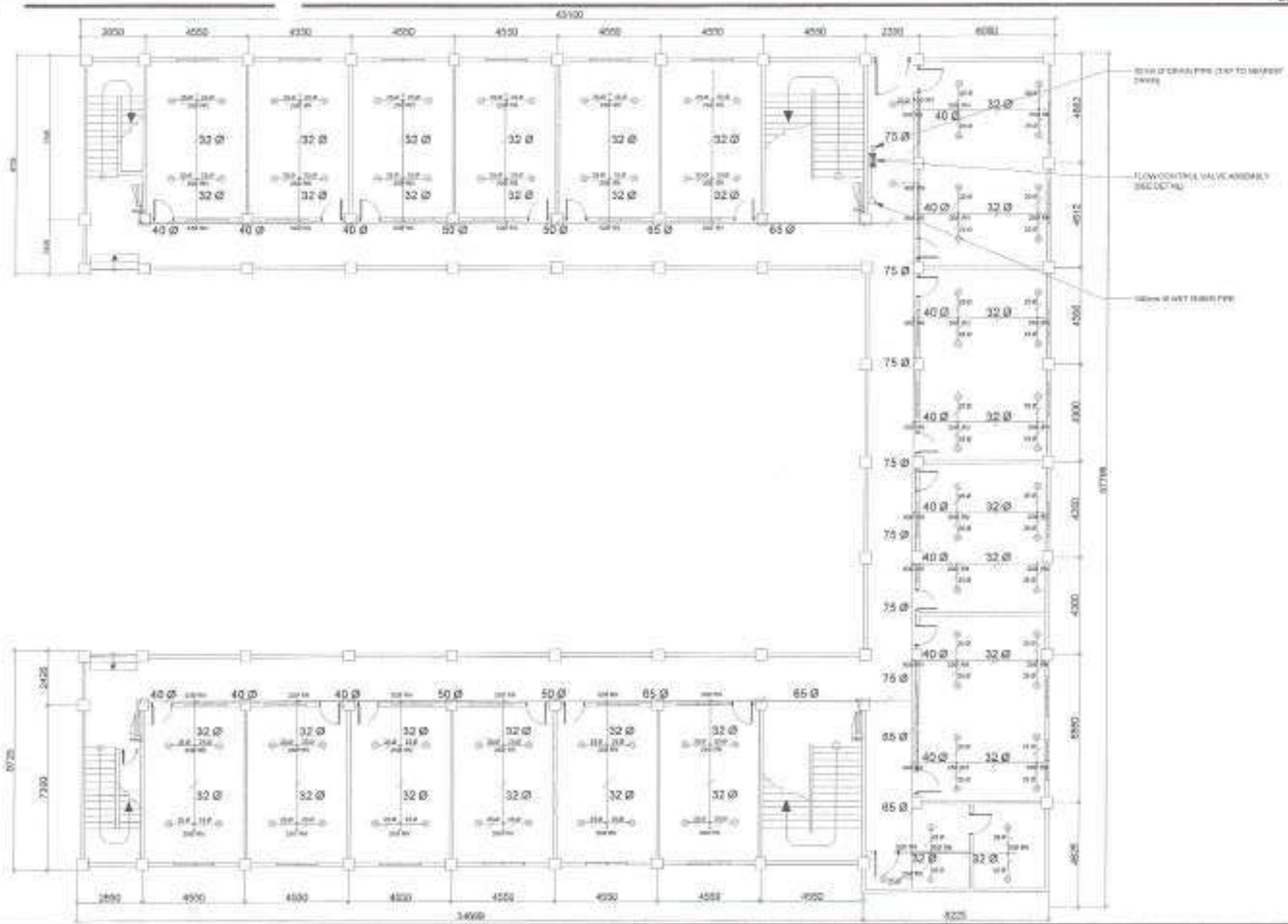


1 **GROUND FLOOR FIRE PROTECTION PLAN**

SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :	DRAWN BY:	SUBMITTED BY:	RECOMMENDING APPROVAL	APPROVED BY:	SHEET CONTENT	SHEET NO.
PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT	DATE: 08/17/2022	ENGR. LEO S. DEL ROSARIO HEAD - PLANNING & PROGRAMMING DIVISION	ENGR. ISAGANI R. VERZOSA , JR. CITY ENGINEERING DEPARTMENT	HON. MA. JOSEFINA G. BELMONTE CITY MAYOR, QUEZON CITY	GROUND FLOOR FIRE PROTECTION PLAN	FP-02 35 36
LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY	CHECKED BY:					
	PERMIT NO. :					



1 **SECOND TO FOURTH FLOOR FIRE PROTECTION PLAN**

SCALE : 1:175MTS

Republika ng Pilipinas
Lungsod ng Quezon
CITY ENGINEERING DEPARTMENT

PROJECT TITLE :	PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT
LOCATION :	BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY
DRAWN BY :	
DATE :	
CHECKED BY :	
REVISION NO. :	

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

RECOMMENDING APPROVAL:
ENGR. ISAGANI R. VERZOSA , JR.
CITY ENGINEER/DEPARTMENT

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

SHEET CONTENT: SECOND TO FOURTH FLOOR FIRE PROTECTION PLAN

SHEET NO.: FP-03
36 36

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 INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT

LOCATION : BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY

PROJECT NO. : 22 - 00127

DURATION : One Hundred Eighty (180) Calendar Days

BREAKDOWN OF COST

ITEM CODE	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
GR	GENERAL REQUIREMENTS				
OGR	OTHER GENERAL REQUIREMENTS				
SW	SITE WORKS				
CWS	CIVIL/ STRUCTURAL WORKS				
AW	ARCHITECTURAL WORKS				
S/PW	SANITARY/ PLUMBING WORKS				
EW	ELECTRICAL WORKS				
AUX	AUXILLIARY WORKS				
FPW	FIRE PROTECTION WORKS				
UTI	UTILITY AND ANCILLARY WORKS				

TOTAL COST ₱ _____

LUMP SUM BID IN WORDS : _____

_____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : **PROPOSED INSTALLATION OF WET STANDPIPE SYSTEM AND REHABILITATION OF JOSE RIZAL HIGH SCHOOL (HOLY SPIRIT NATIONAL HIGH SCHOOL ANNEX) AT BARANGAY HOLY SPIRIT**

LOCATION : **BARANGAY HOLY SPIRIT, DISTRICT 2, QUEZON CITY**

PROJECT NO. : **22 - 00127**

DURATION : **One Hundred Eighty (180) Calendar Days**

SCOPE OF WORK :

GR	**General Requirements** include billboard(s).
OGR	**Other General Requirements (NON-O.C.M.)** include, but not limited to:
1	Temporary enclosure around the construction area.
2	Temporary water system including water meter/sub-meter and connections.
3	Temporary electrical system including electric meter/sub-meter and connections.
4	Clearing, hauling, disposal of construction materials and debris, and Construction Safety Net.
5	Scaffolding for general use (rental).
SW	**Site Works:**
1	Excavation for structures and backfill
2	Layout and staking.
3	Site clearing and preparation.
4	Demolition/removal works.
CWS	**Civil / Structural Works:**
1	Concrete works include concreting, installation of reinforcing steel bars, and formworks.
2	Masonry works include laying of CHB, restoration of concrete and plastering works.
3	Moisture protection include waterproofing works.
4	Metal works include fabrication of metal structures.
5	Roofing works include installation of roofing and bended materials.
AW	**Architectural Works (Finishes as indicated in the plans):**
1	Ceiling works include installation of ceilings with framings.
2	Wall finishes include tile works and other wall finishes.
3	Floor finishes include tile works for flooring and other floor finishes.
4	Painting works include painting for interior walls, metal surfaces and ceilings.
5	Fabricated materials include installation of doors and windows, cabinetry, logos and letterings.
S/PW	**Sanitary/Plumbing Works:**
1	Installation of roughing-ins, valves, appurtenances and supports.
2	Installation of water efficient sanitary/plumbing fixtures and accessories.
EW	**Electrical Works:**
1	Installation of roughing-ins and wirings.
2	Installation of system devices, energy efficient lighting fixtures and components, panelboards, switchgears and accessories.
AUX	**Auxillary Works:**
1	Fire detection and alarm system (FDAS) includes roughing-ins, wirings, devices and accessories.
FPW	**Fire Protection Works:**
1	Installation of floor control assembly includes roughing-ins, devices and accessories.
2	Installation of fire pump equipment assembly includes roughing-ins, valves, equipment and accessories.

UTI	**Utility and Ancillary Works:**
1	Construction of cistern/fire reserve tank.
2	Installation of booster pumps, etc.
3	Installation of pressure tank.
4	Construction of electrical utilities include electrical hand holes and concrete encasement.
O	**Others (included in O.C.M.)**
1	Provision of construction, health and safety such as safety gears, medical kit, etc.
2	Preparation of shop drawings, as necessary.
3	Preparation of as-built plans (signed and sealed by the respective professional(s)).
4	Testing and commissioning works shall be performed as per standard procedures.

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
GR	**GENERAL REQUIREMENTS**				
SPL7	Billboard (1.20m x 2.40m in Plywood)	1	piece	₱	₱
				MATERIALS COST GR	₱
				LABOR COST GR	
				DIRECT COST GR	₱
OGR	**OTHER GENERAL REQUIREMENTS**				
OGR02c	Temporary Enclosure at the Construction Area (Coveraged Length; H=2.4m)	42	l.m.	₱	₱
OGR0301	Temporary Water Facility (For Construction/Renovation)	1	unit		
OGR0302	Temporary Electrical Facility (Rehabilitation)	1	unit		
				Subtotal (Material)	₱
OGR01	Clearing, Hauling and Disposal of Construction Materials and Debris	148	t.l.	₱	₱
OGR05	Scaffolding (Rental)	95	sq.m.		
				Subtotal (Labor)	₱
				MATERIALS COST OGR	₱
				LABOR COST OGR	
				DIRECT COST OGR	₱
SW	**SITE WORKS**				
106	Excavation	320	cu.m.	₱	₱
SW01	Layout and Staking	87	sq.m.		
SW02	Site Clearing and Preparation	87	sq.m.		
DEMV001	Chipping Works for Pipelines and Utilities	12	cu.m.		
DEMV004	Demolition of Column	1	cu.m.		
DEMV004	Demolition of Concrete Pad	72	cu.m.		
DEMV004	Demolition of Ramp	9	cu.m.		
DEMV004	Demolition of CHB Wall	10	cu.m.		
DEMV004	Demolition of Concrete Stairs	11	cu.m.		
DEMV010	Removal of Doors	45	set		
DEMV011	Removal of Lavatory	26	set		
DEMV013	Removal of Water Closet	28	set		
DEMV015	Removal of Ceiling Board Including Framing	1,349	sq.m.		
DEMV021	Removal of Existing Floor and Wall Tiles	518	sq.m.		
DEMV024	Removal of Existing Ramp Railings	26	sq.m.		
DEMV025b	Removal of Roof	102	sq.m.		
DEMV027	Removal of Existing Window Panel Including Hardware and Accessories	14	sq.m.		
				DIRECT COST SW (Labor)	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWS	**CIVIL/STRUCTURAL WORKS**				
CWSC	Concrete Works				
CWSCO	On-Site Mix Concrete, (3/4" Gravel @ 28 days)				
CWSCO04	3000 psi (Beam)	4	cu.m.	₱	₱
CWSCO04	3000 psi (Column)	3	cu.m.		
CWSCO04	3000 psi (Column Footing)	3	cu.m.		
CWSCO04	3000 psi (Concrete Stairs)	2	cu.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSCO04	3000 psi (Ramp)	7	cu.m.		
CWSCO04	3000 psi (Wall Footing)	4	cu.m.		
CWSCR1	Ready Mix Concrete (3/4" Gravel @ 28 days; Pumpcrete Design)				
CWSCR104	3000 psi (Slab-on-Fill)	27	cu.m.		
CWSRB	Reinforcing Steel Bar including G.I. Tie Wire # 16				
CWSRB40	Grade 40 Reinforcing Steel Bar including G.I. Tie Wire # 16				
CWSRB4001	10mm Ø (Beam)	495	kg		
CWSRB4001	10mm Ø (Column)	178	kg		
CWSRB4001	10mm Ø (Stairs)	65	kg		
CWSRB4001	12mm Ø (Wall Footing)	281	kg		
CWSRB4001	10mm Ø (Ramp)	15	kg		
CWSRB4002	12mm Ø (Beam)	53	kg		
CWSRB4002	12mm Ø (Slab on Fill)	410	kg		
CWSRB 60	Grade 60 Reinforcing Steel Bar including G.I. Tie Wire # 16				
CWSRB 6001	16mm Ø (Beam)	4	kg		
CWSRB 6001	16mm Ø (Column)	339	kg		
CWSRB 6001	16mm Ø (Column Footing)	219	kg		
CWSF	Formworks, Scaffoldings and Shoring				
CWSF01	Beam / Girder	7	sq.m.		
CWSF03	Column / Pedestal	7	sq.m.		
CWSF04	Slab on Fill	4	sq.m.		
CWSF04	Ramp	16	sq.m.		
CWSF06	Concrete Stairs	18	sq.m.		
CWSMA	Masonry Works				
CWSMA04	150mm CHB Wall Laying, including Mortar, Reinforcement and Two-Face Plastering	119	sq.m.		
CWSMA07	Plastering, 25mm thk for Door and Window Openings	16	sq.m.		
CWSMA08	Concrete/Floor Topping (100mm Thk.) with Plain Cement Finish	89	sq.m.		
CWSMA09	Plain Cement Finish	100	sq.m		
CWSMA11	Floor Topping For Preparation of Tiles Works	124	sq.m.		
CWSMA12	Concrete/Floor Topping 50mm	89	sq.m.		
CWSMA13	Restoration of Concrete	175	sq.m.		
CWSMP	Moisture Protection				
CWSMPW	Waterproofing Works				
CWSMPW03	Membrane Type	124	sq.m		
CWSME	Metal Works				
SPL21	Steel Railings	21	l.m.		
CWSME07	Structural Steel				
CWSME0706	50mm x 100mm C-Purlins, Metal Channel	434	kg		
CWSME0712	Round Bar (Sagrod)	19	kg		
CWSME0714	50mm x 150mm x 6mm Tubular Bar	781	kg		
CWSPRW	Roofing Works				
CWSPRW0403	Rib-Type / Long Span 0.50 mm, 1000 with Connection Accessories	108	sq.m.		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
CWSPRW07	Pre-Painted Roofing, Components and Accessories				
CWSPRW0706	Pre Painted G.I. Gutter, GA 26 x 0.60m	16	l.m.		
MC	Miscellaneous and Consumables				
MC/G05	Grinding Disc	8	piece		
MC/G19	Acetylene Tank	4	tank		
MC/G23	Cut Off Blade	8	piece		
MC/G27	Drill Bit, 20mm Ø (metal)	8	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/G29	Oxygen Tank	8	tank		
MC/G36	Welding Rod	2	box		
				MATERIALS COST CWS	₱
				LABOR COST CWS	
				DIRECT COST CWS	₱
AW	**ARCHITECTURAL WORKS**				
AW02	Ceiling Finishes				
AW0202	12mm thk. MR Gypsum Board including framing and accessories	1,356	sq.m.	₱	₱
AW0204	6mm Thk Fiber Cement Board Including Metal Framing	94	sq.m.		
AW03	Wall Finishes				
AWCM0303	Comfort Room Partition (Urinal)	12	set		
AW0306	400mm x 400mm Homogenous Wall Tiles	398	sq.m.		
AW0315	6mm thk Fiber Cement Board on Metal Studs (Double Wall)	1	sq.m.		
AW04	Floor Finishes				
AW0402	400mm x 400mm Non-Skid Homogeneous Floor Tiles	124	sq.m.		
AWCM0404	Welded Wire Mesh, 2" x 2" x 3mm thk.	345	sq.m.		
AWP	Painting Works				
AWP0101	Flat Latex Paint Finish (Interior Wall - 3 Coats)	331	sq.m.		
AWP0102	Elastomeric Paint Finish (Exterior Wall - 3 coats)	275	sq.m.		
AWP0103	Acrylic Floor Paint (Concrete Floor -3 Coats)	91	sq.m		
AWP0105	Flat Latex Paint Finish (Ceiling - 3 Coats)	121	sq.m.		
AWP0106	Epoxy Enamel Paint Finish (Steel Member - 3 Coats)	111	sq.m.		
AWP0205	Fire Red Paint Finish	574	sq.m.		
				Materials Cost AW02-AWP	₱
				Labor Cost AW02-AWP	
				Subtotal AW02-AWP	₱
AW01	Fabricated Materials				
AW0114	Countertop with Aluminum Cabinet & 600mm x 600mm Homegenous Tiles (width=600mm)	20	l.m.	₱	₱
AWD	Installation of Doors				
AWD010204	D1 - (0.85m x 2.10m) Wooden Panel Door (Simple Design), Indoor	11	set		
AWD010205	D2 - (0.65m x 1.20m) Wooden Panel Door (Simple Design), Indoor	30	set		
AWD010201	D3 - 1.020m x 2.10m Wooden Panel Door (Simple Design), Indoor	3	set		
AWD010202	G1 - 1.40m x 2.10 Steel Gate (50mm & 25mm G.I. Pipe with 50mm x 50mm Wire Mesh)	1	set		
AWD010203	G2 - 0.70m x 2.10 Steel Gate (50mm & 25mm G.I. Pipe with 50mm x 50mm Wire Mesh)	1	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AWW	Installation of Windows				
AWW06	W1 - (0.8m x 1.9m) Powder Coated Aluminum Framed Jalousie Window	4	set		
AWW06	W2 - (0.7m x 0.8m) Powder Coated Aluminum Framed Jalousie Window	6	set		
AWW03	W3 - (1.2m x 1.2m) Aluminum Frame Powder Coated Sliding Window with 6mm THK Clear Glass	3	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AW05	Logos and Lettering				
AW0501	600 mm ⌀ Barangay Logo / Office Logo	1	set		
AW0502	600 mm QC Logo	1	set		
AW0505	200 mm Stainless Letter				
	"HOLY SPIRIT NATIONAL HIGH SCHOOL"	28	letter		
				Materials Cost AW01-AW05	₱
				Labor Cost AW01-AW05	
				Subtotal AW01-AW05	₱
				MATERIALS COST AW	₱
				LABOR COST AW	
				DIRECT COST AW	₱
S/PW	**SANITARY / PLUMBING WORKS**				
S/PW01	Sewer Line / Storm Drainage System				
S/PW0101	Roughing-Ins				
S/PW010102	50mm Ø, PVC Pipe with Hub	76	piece	₱	₱
S/PW010103	75mm Ø, PVC Pipe with Hub	16	piece		
S/PW010104	100mm Ø, PVC Pipe with Hub	16	piece		
S/PW010111	50mm Ø, P-Trap	85	piece		
S/PW010112	75mm Ø, P-Trap	34	piece		
S/PW010114	50mmØ 1/4 Bend	70	piece		
S/PW010120	50mm Ø, 1/8 Bend	100	piece		
S/PW010121	75mm Ø, 1/8 Bend	84	piece		
S/PW010122	100mm Ø, 1/8 Bend	22	piece		
S/PW010127	50mmØ x 50mmØ Wye	28	piece		
S/PW010129	75mmØ x 75mmØ Wye	12	piece		
S/PW010130	100mmØ x 50mmØ Wye	56	piece		
S/PW010131	100mmØ x 75mmØ Wye	24	piece		
S/PW010132	100mmØ x 100mmØ Wye	7	piece		
S/PW010163	50mmØ x 50mmØ Tee	127	piece		
S/PW010184	100mmØ Cleanout	14	piece		
S/PW02	Waterline System				
S/PW0201	Roughing-Ins including Connecting Machine				
S/PW020102	PPR Pipe				
S/PW02010201	20mmØ PPR Pipe	17	piece		
S/PW02010202	25mmØ PPR Pipe	16	piece		
S/PW02010205	50mmØ PPR Pipe	19	piece		
S/PW02010211	20mmØ Tee Equal	41	piece		
S/PW02010220	20mmØ x 25mmØ Tee Unequal	24	piece		
S/PW02010227	50mmØ x 25mmØ Tee Unequal	6	piece		
S/PW02010257	20mmØ 90° Elbow	14	piece		
S/PW02010286	20mmØ Coupling	17	piece		
S/PW02010287	25mmØ Coupling	16	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW02010290	50mmØ Coupling	25	piece		
S/PW0202	Valves and Appurtenances				
S/PW020201	20mmØ Gate Valve	10	piece		
S/PW03	Sanitary Fixtures, Fittings and Accessories				
S/PW0301	Bidet with Complete Fittings and Accessories (Water Efficient)	34	set		
S/PW0311	Lavatory Faucet, Wall Mounted, Lever Type (Water Efficient)	27	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
S/PW0314	Lavatory, Wall Mounted, with Complete Fittings and Accessories	27	set		
S/PW0317	Slop Sink Faucet with Complete Fittings and Accessories (Water Efficient)	1	set		
S/PW0318	Slop Sink with Complete Fittings and Accessories	1	set		
S/PW0321	Urinal , Flush Valve with Complete Fittings and Accessories (Water Efficient)	12	set		
S/PW0327	Water Closet, Tank-Type with Complete Fittings and Accessories (Water Efficient)	34	set		
S/PW04	Comfort Room Accessories				
S/PW0406	Wall Metal Door Hook Hanger	34	piece		
S/PW05	Plumbing Fixtures, Fittings and Accessories				
S/PW0501	Angle Valve, Single Way, Stainless	27	piece		
S/PW0502	Angle Valve, Two Way, Stainless	34	piece		
S/PW0503	Flexible Hose, Stainless Steel	61	piece		
S/PW06	Drains				
S/PW0601	Floor Drain, 100mmØ, Stainless	45	piece		
S/PW07	Pipe Hangers and Supports				
S/PW0705	For Horizontal Pipes Less than 50mmØ (2m Interval)	132	l.m.		
S/PW0706	For Horizontal Pipes More than 50mmØ (1m Interval)	556	l.m.		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	17	piece		
MC/G13	All-Around Sealant	66	tube		
MC/G14	Solvent Cement, 400cc	33	can		
MC/G15	Teflon Tape	19	roll		
MC/G18	Waste Cloth	20	kg		
MC/G25	Drill Bit, 15mm Ø	39	piece		
				MATERIALS COST S/PW	₱
				LABOR COST S/PW	
				DIRECT COST S/PW	₱
EW	**ELECTRICAL WORKS**				
EW01	Pipes				
EW0101	20mmØ PVC Pipe	477	piece	₱	₱
EW0102	25mmØ PVC Pipe	21	piece		
EW0109	110mmØ PVC Pipe	27	piece		
EW0111	20mmØ IMC Pipe	3	piece		
EW0112	25mmØ IMC Pipe	12	piece		
EW0116	65mmØ IMC Pipe	3	piece		
EW0118	90mmØ IMC Pipe	1	piece		
EW0401	12mm x 12mm x 2.44m Rectangular PVC Moulding	180	piece		
EW05	Fittings and Accessories				
EW05001	20mmØ PVC Elbow	100	piece		
EW05002	25mmØ PVC Elbow	3	piece		
EW05009	110mmØ PVC Elbow	5	piece		
EW05010	20mmØ PVC Adaptor	225	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW05011	25mmØ PVC Adaptor	6	piece		
EW05018	110mmØ PVC Adaptor	4	piece		
EW05022	20mmØ PVC Locknut and Bushing	180	pair		
EW05023	25mmØ PVC Locknut and Bushing	6	pair		
EW05030	110mmØ PVC Locknut and Bushing	4	pair		
EW05032	20mmØ IMC Elbow	3	piece		
EW05033	25mmØ IMC Elbow	10	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW05037	65mmØ IMC Elbow	3	piece		
EW05042	20mmØ IMC Locknut and Bushing	2	pair		
EW05043	25mmØ IMC Locknut and Bushing	10	pair		
EW05047	65mmØ IMC Locknut and Bushing	2	pair		
EW05049	90mmØ IMC Locknut and Bushing	2	pair		
EW05052	20mmØ IMC Coupling	3	piece		
EW05053	25mmØ IMC Coupling	20	piece		
EW05057	65mmØ IMC Coupling	3	piece		
EW05059	90mmØ IMC Coupling	2	piece		
EW05161	90mmØ Weatherproof Entrance Cap	1	piece		
EW06	Boxes and Fabricated Pullbox				
EW0601	50mm x 100mm PVC Utility Box	30	piece		
EW0602	100mm x 100mm PVC Junction Box with Cover	85	piece		
EW0608	Fabricated Pull Box, 0.20m x 0.20m x 0.15m at 0.16	1	piece		
EW09	Wires and Cables				
EW0901	THHN Wires				
EW090102a	3.5mm² THHN Wire	34	roll		
EW090103a	5.5mm² THHN Wire	1	roll		
EW090104a	8.0mm² THHN Wire	1	roll		
EW090113b	125mm² THHN Wire	30	l.m.		
EW090117b	250mm² THHN Wire	240	l.m.		
EW0903	TW Wires				
EW090302a	3.5mm² TW Wire	7	roll		
EW090303a	5.5mm² TW Wire	1	roll		
EW090307b	30mm² TW Wire	10	l.m.		
EW090309b	50mm² TW Wire	80	l.m.		
EW10	Wiring Devices				
EW1001	Outlet with Grounding, One-Gang	30	piece		
EW1002	Outlet with Grounding, Two-Gang	6	piece		
EW1015	Switch with Plate and Cover, One-Gang	26	piece		
EW1016	Switch with Plate and Cover, Two-Gang	1	piece		
EW1017	Switch with Plate and Cover, Three-Gang	4	piece		
EW11	Lighting fixtures				
EW11005	300mm x 1200mm,Troffer, Recessed Type (Fixture Only)	48	piece		
EW11034	300mm x 1200mm, 1 x 18w LED, Troffer Type, with Complete Accessories, Recessed Type	6	set		
EW11057	T8, 18w LED Tube light	96	piece		
EW11059	Emergency Light, Twinhead	12	piece		
EW11064	LED Exit Light Milled Aluminum Type Double-sided Face,1.2V, 600mAh Rechargeable Ni-Cd Battery	18	piece		
EW11067	300mm x 1200mm Surface Mounted Box Type	32	set		
EW11096	10W LED Bulb	4	piece		
EW11120	150mm Ø Round Recessed Pinlight (case)	4	piece		
EW11140	Orbit Fan with Selector Switch	20	set		
EW11147	Floor Mounted Spotlight	4	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW12	Grounding System				
EW1201	16mm Ø x 3000mm Grounding Rod (Copper Clod) with Ground Clamp	1	set		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
EW13	Panelboard	1	assy		
ASSY	LPP-A Main: 40AT, 2P, 230V Branches: 6 - 20 AT, 2P, Bolt-On 1 - 30 AT, 2P, Bolt-On 1 - 30 AT, 2P , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs				
ASSY	LPP-B Main: 50AT, 2P, 230V Branches: 8 - 20 AT, 2P, Bolt-On 4 - 30 AT, 2P, Bolt-On Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
ASSY	LPP-C Main: 40AT, 2P, 230V Branches: 6 - 20 AT, 2P, Bolt-On 1 - 30 AT, 2P, Bolt-On 1 - 30 AT, 2P , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
ASSY	FPP Main: 400AT, 3P, 230V Branches: 1 - 250 AT, 3P, Bolt-On 2 - 50 AT, 3P , Bolt-On 1 - 40 AT, 3P , Bolt-On Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
ASSY	LPP-S Main: 30AT, 2P, 230V Branches: 2 - 20 AT, 2P, Bolt-On 2 - 30 AT, 2P , Spare Enclosure: NEMA 1 with Ground Terminals and Terminal Lugs	1	assy		
EW1302	Additional Branches				
EW130202	20 AT, 2P, Bolt-On	12	piece		
EW130204	30 AT, 2P , Bolt-On	5	piece		
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	300	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G01	All Around Sealant	10	qrt		
MC/G06	Hacksaw Blade	7	roll		
MC/G14	Solvent Cement, 400cc	10	can		
MC/G37	G.I. Tie Wire, Ga.16 (for Wire / Cable Pulling)	7	kg		
MC/E01	Electrical Tape	15	roll		
MC/E03	Pulling Lubricant	3	can		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/E04	Rubber Tape	10	roll		
				MATERIALS COST EW	₱
				LABOR COST EW	
				DIRECT COST EW	₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
AUX	**AUXILLARY WORKS**				
AUX04	Fire Detection and Alarm System				
EW01	Pipes				
EW0120	15mmØ EMT Pipe	394	piece	₱	₱
EW0122	25mmØ EMT Pipe	7	piece		
EW05	Fittings and Accessories				
EW05061	15mmØ EMT Elbow	180	piece		
EW05063	25mmØ EMT Elbow	7	piece		
EW05067	15mmØ EMT Connector, Compression Type	184	piece		
EW05069	25mmØ EMT Connector, Compression Type	7	piece		
EW05079	15mmØ EMT Coupling, Compression Type	395	piece		
EW05081	25mmØ EMT Coupling, Compression Type	7	piece		
EW06	Boxes and Fabricated Pullbox				
EW0604	100mm x 100mm Metal Junction Box with Cover	20	piece		
EW0610	Fabricated Pull Box, (0.30m x 0.30m x 0.20m)	3	piece		
AUX0401	Wires and Cables				
AUX040101	1.25mm² TF Wire	32	roll		
AUX0402	Devices and Equipment				
AUX040201	150mmØ Bell	16	piece		
AUX040206	Fire Alarm Manual Pull Station	16	unit		
AUX040209	Fire Alarm Control Panel, 8 Zones Fully Addressable	1	assy		
AUX040216	Uninterruptible Power Supply, 1500VA, 230VAC, 60Hz	1	unit		
AUX040217	Smoke Detector	76	piece		
EW16	Pipe Hangers and Supports				
EW1601	Horizontal Layout of Pipe	350	l.m.		
EW1602	Vertical Layout of Pipe	5	l.m.		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	6	piece		
MC/G20	Assorted Concrete Nails	12	box		
MC/G21	Assorted Tox with Screw	2	kg		
MC/G37	GI Tie Wire, Ga. 16 (for Wire/Cable Pulling)	20	kg		
MC/E01	Electrical Tape	15	roll		
MC/E03	Pulling Lubricant	4	can		
				MATERIALS COST AUX	₱
				LABOR COST AUX	
				DIRECT COST AUX	₱
FPW	**FIRE PROTECTION WORKS**				
FPW01	Pipes and Fittings				
FPW01007	25mm x 6m Ø B.I. Pipe, Schedule 40	90	piece	₱	₱
FPW01008	32mm x 6m Ø B.I. Pipe, Schedule 40	74	piece		
FPW01009	40mm x 6m Ø B.I. Pipe, Schedule 40	35	piece		
FPW01010	50mm x 6m Ø B.I. Pipe, Schedule 40	16	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
FPW01011	65mm x 6m Ø B.I. Pipe, Schedule 40	22	piece		
FPW01012	75mm x 6m Ø B.I. Pipe, Schedule 40	22	piece		
FPW01013	100mm x 6m Ø B.I. Pipe, Schedule 40	15	piece		
FPW01021	25mm Ø B.I. 90° Elbow, Threaded	280	piece		
FPW01023	40mm Ø B.I. 90° Elbow, Threaded	24	piece		
FPW01027	100mm Ø B.I. 90° Elbow, Welded	4	piece		
FPW01048	100mm Ø x 75mm Ø B.I. Tee, Weldable	1	piece		
FPW01049	100mm Ø x 100mm Ø B.I. Tee, Weldable	4	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
FPW01070	32mm Ø B.I. End Cap, Threaded	84	piece		
FPW01073	65mm Ø B.I. End Cap, Threaded	4	piece		
FPW01074	75mm Ø B.I. End Cap, Threaded	4	piece		
FPW01087	65mm Ø x 40mm Ø B.I. Tee, Welded	8	piece		
FPW01088	75mm Ø x 65mm Ø B.I. Tee, Welded	8	piece		
FPW01089	75mm Ø x 75mm Ø B.I. Tee, Welded	16	piece		
FPW01090	25mm x 150mm B.I. Riser Nipple	180	piece		
FPW01091	32mm x 150mm B.I. Riser Nipple	56	piece		
FPW01092	40mm x 150mm B.I. Riser Nipple	36	piece		
FPW02	Fixtures and Accessories				
FPW01093	100mm Ø x 65mm Ø B.I. Siamese Connection, with Chain and Cap	1	piece		
FPW020302	13mm Ø Pendent-type Fire Sprinkler Head, 68°C	281	piece		
FPW04	Pipe Hangers and Supports				
FPW0402	Hangers for 25mm Ø B.I. Pipe	539	l.m.		
FPW0403	Hangers for 32mm Ø B.I. Pipe	444	l.m.		
FPW0404	Hangers for 40mm Ø B.I. Pipe	192	l.m.		
FPW0405	Hangers for 50mm Ø B.I. Pipe	80	l.m.		
FPW0406	Hangers for 65mm Ø B.I. Pipe	115	l.m.		
FPW0407	Hangers for 75mm Ø B.I. Pipe	117	l.m.		
FPW0408	Hangers for 100mm Ø B.I. Pipe	50	l.m.		
FPW0409	Support for Vertical Pipes	18	l.m.		
FPW0410	Support for Horizontal Pipes	6	l.m.		
	Floor Control Assembly				
FPW0303	25mm Ø Inspector Test Connection	4	piece		
FPW0304	25mm Ø Sight Glass	4	piece		
FPW0305	25mm Ø Globe Valve	4	piece		
FPW0319	100mm Ø Flow Switch	4	piece		
FPW0324	100mm Ø OS and Y Gate Valve	4	piece		
FPW0321	300psi Pressure Gauge	4	piece		
FPW01007	25mm x 6m Ø B.I. Pipe, Schedule 40	4	piece		
FPW01010	50mm x 6m Ø B.I. Pipe, Schedule 40	4	piece		
FPW01013	100mm x 6m Ø B.I. Pipe, Schedule 40	8	piece		
FPW01021	25mm Ø B.I. 90° Elbow, Threaded	8	piece		
FPW01034	25mm Ø x 25mm Ø B.I. Tee, Threaded	4	piece		
FPW01040	50mm Ø x 25mm Ø B.I. Tee, Threaded	4	piece		
FPW01062	100mm Ø x 75mm Ø B.I. Reducer, Threaded	4	piece		
FPW01068	25mm Ø B.I. Union Patente, Threaded	8	piece		
FPW01094	100mm Ø x 25mm Ø B.I. Tee, Welded	4	piece		
	Fire Pump Assembly				
FPW0314	100 mmØ, Check Valve, Flanged	2	piece		
FPW0317	100 mmØ, By-Pass Gate Valve, Flanged	1	piece		
FPW0319	100mm Ø Flow Switch	1	piece		
FPW0324	100mm Ø OS and Y Gate Valve	1	piece		
FPW0327	100mm Ø Victaulic Coupling	4	piece		
FPW0329	Supervisory Switch	1	piece		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
FPW0332	Vertical Turbine Jockey Pump, 25gpm, 130psi head,	1	unit		
FPW0333	Vertical Turbine Fire Pump, 500gpm, 130psi head, 50.0hp, 230V / 3ϕ / 60Hz	1	unit		
MC	Miscellaneous and Consumables				
MC/G06	Hacksaw Blade	50	piece		
MC/G15	Teflon Tape	5	rolls		
MC/G18	Waste Cloth	10	kg		

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
MC/G23	Cut-Off Blade/Wheel	20	piece		
MC/G36	Welding Rod (Steel)	150	kg		
				MATERIALS COST FPW	₱
				LABOR COST FPW	
				DIRECT COST FPW	₱
UTI	**UTILITY AND ANCILLARY WORKS**				
SW	**SITE WORKS**				
106	Excavation	10	cu.m.	₱	₱
DEMV001	Chipping Works for Pipelines and Utilities	2	cu.m.		
				Subtotal UTI-SW (Labor)	₱
CWS	**CIVIL/STRUCTURAL WORKS**				
503a	Restoration of Concrete Sidewalk	41	sq.m	₱	₱
CWSMA	Masonry Works				
CWSMA13	Restoration of Concrete	17	sq.m.		
CWSMA14	Floor Topping 50mm with Plain Cement Finish	13	sq.m.		
S/PW02	Waterline System				
S/PW0201	Roughing-Ins including Connecting Machine				
S/PW020102	PPR Pipe				
S/PW02010205	50mmØ PPR Pipe	6	piece		
S/PW02010261	50mmØ 90° Elbow	1	piece		
S/PW02010215	50mmØ Tee Equal	3	piece		
S/PW02010290	50mmØ Coupling	6	piece		
S/PW0202	Valves and Appurtenances				
S/PW020213	50mmØ Check Valve	4	piece		
S/PW020224	50mmØ Float Valve	2	piece		
S/PW08	Equipment and Accessories				
S/PW0805	Booster Pump				
S/PW080506	150 gpm, 100ft, 7.5hp, 230V,3Ø,60Hz	2	unit		
S/PW0806	Pressure Tank				
S/PW080605	Stainless steel, Ga #14, 120 gallons capacity, 40/60 psi	1	unit		
UT010202	Hand Hole (0.40m x 0.40m x 0.35m)	5	unit		
UT010803	Concrete Encasement(0.40m Width X 0.35m Height)	65	l.m.		
UT010901	Cistern and Fire Reserve	159	cu.m.		
				Materials Cost 503a-UT010803	₱
				Labor Cost 503a-UT010803	
				Subtotal 503a-UT010803	₱
				MATERIALS COST UTI	₱
				LABOR COST UTI	

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
			DIRECT COST UTI		₱

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST

SUMMARY

ITEM CODE	WORK DESCRIPTION AND SCOPE OF WORKS	AMOUNT
OGR	OTHER GENERAL REQUIREMENTS	₱
	TOTAL ESTIMATED COST A	₱
GR	GENERAL REQUIREMENTS	₱
SW	SITE WORKS	
CWS	CIVIL/ STRUCTURAL WORKS	
AW	ARCHITECTURAL WORKS	
S/PW	SANITARY/ PLUMBING WORKS	
EW	ELECTRICAL WORKS	
AUX	AUXILLIARY WORKS	
FPW	FIRE PROTECTION WORKS	
UTI	UTILITY AND ANCILLARY WORKS	

NOTE: • Strictly enforce health protocols relative to the latest applicable DPWH memorandum	**TOTAL DIRECT COST B** Overhead, Contingencies and Miscellaneous Expenses (OCM) Profit	₱
	TOTAL ESTIMATED COST B	₱
	TOTAL ESTIMATED COST A TOTAL ESTIMATED COST B	₱
	TOTAL ESTIMATED COST	₱
	VAT	
	TOTAL APPROVED BUDGET FOR THE CONTRACT	₱

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or

b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
and

☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;
and

☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and

☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid *(please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy)*; **and**

☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*; **and**

☐ (h) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; **and**

☐ (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**

(j) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy)*;

☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

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

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

Additional Technical Requirements:

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

Financial Documents

☐ (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) *(please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy).*

Class "B" Documents

☐ (n) If applicable, duly signed joint venture agreement (JVA) in accordance with RA No. 4566 and its IRR in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

☐ (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; **and**

☐ (r) Cash Flow by Quarter.

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____

Project Identification No. : _____

To: [name and address of Procuring Entity]

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

a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;

b. We offer to execute the Works for this Contract in accordance with the PBDs;

c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;

d. The discounts offered and the methodology for their application are: *[insert information]*;

e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,

f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;

g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[1] for this purpose;

h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;

i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

---

[1] currently based on GPPB Resolution No. 09-2020

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

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

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.

2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f),of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.

3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:

   a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
   b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
   c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

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

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

   [If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

   [If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

   [If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

   [If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

   [If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

   [If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:

   a. Carefully examining all of the Bidding Documents;
   b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
   c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
   d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project].*

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

11. We pledge that the project will be completed in accordance and congruency with the approved plans and programs.

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

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

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

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

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

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:

   a. Philippine Bidding Documents (PBDs);
      i. Drawings/Plans;
      ii. Specifications;
      iii. Bill of Quantities;
      iv. General and Special Conditions of Contract;
      v. Supplemental or Bid Bulletins, if any;

   b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

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

   c. Performance Security;

   d. Notice of Award of Contract and the Bidder's conforme thereto; and

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

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

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

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

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

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

for: *for:*

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

Acknowledgment

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

Performance Securing Declaration (Revised)

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

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

PERFORMANCE SECURING DECLARATION

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/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.

2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;

3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:

    a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
        i. Procuring Entity has no claims filed against the contract awardee;
        ii. It has no claims for labor and materials filed against the contractor; and
        iii. Other terms of the contract; or

    b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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

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

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

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

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

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: _____

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

NOTES:

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

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

REPUBLIC OF THE PHILIPPINES)

_____) S. S.

AFFIDAVIT OF UNDERTAKING

I, _____, of legal age, Filipino, _____ *[OFFICER OR REPRESENTATIVE]* _____

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

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

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

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

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

IN WITNESS HEREOF, I have hereunto signed my name below this _____ day of_____, _____ at _____.

AFFIANT FURTHER SAYETH NAUGHT.

_____

Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this ___ day of _____, _____ in _____,

affiant exhibiting to me his/her _____ issued at _____ on _____.

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

_____

Notary Public


Republic of the Philippines
gppb
Government Procurement Policy Board