

PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF STA. MONICA MULTI-
PURPOSE HALL**

Project number: 21-00025

**Sixth Edition
July 2020**

Preface

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

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

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

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

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

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

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

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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

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



Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City

April 22, 2021

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<u>Buildings – Small B</u>							
1	21-00023	Proposed Rehabilitation of Democracy Museum (Aquino House)	Central	1,894,123.95	90	City Engineering Department	Engineering Department
2	21-00024	Proposed Rehabilitation of DPOS Building	Central	9,903,203.10	120	City Engineering Department	Engineering Department
3	21-00025	Proposed Construction of Sta. Monica Multi-Purpose Hall	Sta. Monica	20,176,860.31	240	City Engineering Department	OCM-20% CDF
<u>Buildings – Medium A</u>							
4	21-00026	Proposed Construction of Housing Units No. 13 (3 Cluster - 54 Units)	Bagbag	35,527,015.42	150	City Engineering Department	OCM-20% CDF
<u>Parks – Small B</u>							
5	21-00027	Proposed Improvement of Ideal Park at Abelardo Street, Ideal Subdivision	Commonwealth	12,839,004.23	210	Parks Devt. & Admin. Dept.	Trust Fund – Green Fund
6	21-00028	Proposed Improvement of Cresta Verde Park at St. Claire Street, Cresta Verde Executive Subd.	Sta. Monica	19,660,473.14	300	Parks Devt. & Admin. Dept.	Trust Fund – Green Fund
7	21-00029	Proposed Improvement of Don Enrique Heights Park at Don Doroteo Street, Don Enrique Heights Subdivision	Holy Spirit	20,032,959.77	270	Parks Devt. & Admin. Dept.	Trust Fund – Green Fund
8	21-00030	Proposed Improvement of Damar Village Park at Damar Loop, Damar Subd.	Damar	24,571,628.30	330	Parks Devt. & Admin. Dept.	Trust Fund – Green Fund
<u>Roads – Small B</u>							
9	21-00031	Proposed Rehabilitation (Surface Improvement) of San Juan Bautista Street	Payatas	5,839,474.15	45	City Engineering Department	20% City Development Fund
10	21-00032	Proposed Rehabilitation (Surface Improvement) of De Leon Street	Holy Spirit	6,063,970.64	40	City Engineering Department	20% City Development Fund

11	21-00033	Proposed Rehabilitation (Surface Improvement) of Sta. Catalina Street	Holy Spirit	7,027,720.31	50	City Engineering Department	20% City Development Fund
12	21-00034	Proposed Rehabilitation (Surface Improvement) of AFP Road	Holy Spirit	7,186,078.49	50	City Engineering Department	20% City Development Fund
13	21-00035	Proposed Rehabilitation (Surface Improvement) of J. P. Rizal Street (Jose Abad Santos Street - Belen Street)	Sta. Lucia	7,502,302.88	40	City Engineering Department	20% City Development Fund
14	21-00036	Proposed Rehabilitation (Surface Improvement) of Pearl Drive	Fairview	10,685,085.68	55	City Engineering Department	20% City Development Fund
15	21-00037	Proposed Rehabilitation (Surface Improvement) of Camaro Street	Fairview	12,577,848.95	65	City Engineering Department	20% City Development Fund
16	21-00038	Proposed Rehabilitation (Surface Improvement) of Holy Spirit Drive	Holy Spirit	19,423,574.62	65	City Engineering Department	20% City 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 **23 April 2021 (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 on or before **April 30, 2021 - 5:00PM.**

6. The ***QC- BAC- INFRASTRUCTURE & CONSULTANCY*** will hold a Pre-Bid Conference¹ on **May 3, 2021 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)

Meeting ID: 854 9489 0133

Password: 273320

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **May 17, 2021. – 9:00AM.** Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. Bid opening shall be on **May 17, 2021 - 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 810 3646 5257

Password: 201522

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

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department

2nd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

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

Email Add: procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

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.

12. You may visit the following websites:

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

By:


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

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE HALL**, with Project Identification Number **21-00025**.

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

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

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2021** in the amount of **Twenty Million One Hundred Seventy Six Thousand Eight Hundred Sixty Pesos & 31/100 Cts. (P 20,176,860.31)**.

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 “P” 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 **May 3, 2021 10:00 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																																					
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.																																				
7.1	Subcontracting is not allowed.																																				
10.3	<i>No additional contractor license or permit is required</i> <i>In addition, eligible bidders shall qualify or comply with the following:</i> 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Buildings - Small B																																				
10.4	<table><tr><td colspan="4">The minimum work experience requirements for key personnel are the following:</td></tr><tr><td>Qty.</td><td>Key Personnel</td><td>General Experience</td><td>Relevant Experience</td></tr><tr><td>1</td><td>Project Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>DPWH duly accredited Materials Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>16</td><td>Skilled Worker</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Driver</td><td>3 years</td><td>3 years</td></tr><tr><td>24</td><td>Laborer/Helper</td><td>1 year</td><td>3 months</td></tr><tr><td colspan="4"><i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i></td></tr></table>	The minimum work experience requirements for key personnel are the following:				Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	DPWH duly accredited Materials Engineer	3 years	3 years	1	Foreman	3 years	3 years	16	Skilled Worker	3 years	3 years	1	Driver	3 years	3 years	24	Laborer/Helper	1 year	3 months	<i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i>			
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12	<i>[Insert Value Engineering clause if allowed.]</i>																																				

15.1	<p>The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a) The amount of not less than Php 403,537.21 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 1,008,843.02 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	<p>Additional Contract Documents relevant to the Project as required:</p> <ol style="list-style-type: none"> 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 240 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more than fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

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

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

j. **Temporary Facilities and Utilities**

- i. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
- ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
- iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
- iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
- v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
- vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.

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

- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
- ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
- iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
- iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.

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

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

II. **MULTI-PURPOSE BUILDING**

1. **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.

2. CIVIL / STRUCTURAL WORKS

A. CONCRETE WORK

- a. **Delivery, Storage, and Handling:** All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
- b. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.
- c. **Materials**
 - i. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).
 - ii. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
 - iii. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be coarse, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
 - iv. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.
- d. **Proportioning and Mixing**
 - i. Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement: Sand: Gravel
 - Class "A" - 1: 2: 3
 - Class "B" - 1: 2: 4
 - Class "C" - 1: 2 ½
 - ii. Concrete mixture to be used for concrete shall conform with the structural requirements.
 - iii. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.
- e. **Forms**
 - i. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss of 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 shall be cleaned of encrustations of mortar, the grout or other foreign material.

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

f. Placing Reinforcement:

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

g. Conveying and Placing Concrete:

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

h. Curing

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

i. Finishing

- i. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present or finished appearance except for minor defects which can be easily repaired with patching with cement

mortar, or can be ground to a smooth surface to remove all joint marks of the form works.

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

B. MASONRY

a. Masonry Units (CHB):

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

b. Sand:

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

c. Mortar:

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

d. Plaster bond:

Apply plaster bond to all wall area.

C. ROOFING WORKS

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

D. WATERPROOFING

a. Waterproofing:

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

b. Testing:

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

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

3. ARCHITECTURAL WORKS

A. TILE WORKS

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

B. PROVISION OF CABINET

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

C. FABRICATED DOORS & WINDOWS

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

D. PAINTING WORKS

- a. All primers, thinners and putty, also waterproofing for internal and external application shall be the same brand as the specified material.
- b. Application shall be as per paint Manufacturer's specification and recommendation.
- c. Provide all drop cloth and other covering requisite for protection of floors, walls, aluminum, glass, finishes and other works.
- d. All applications and methods used shall strictly follow the Manufacturer's Instructions and Specifications.
- e. All surfaces including masonry wall shall be thoroughly cleaned, puttied, sandpapered, rubbed and polished; masonry wall shall be treated with Neutralizer.
- f. All exposed finish hardware, lighting fixtures and accessories, glass and the like shall be adequately protected so that these are not stained with paint and other painting materials prior to painting works.
- g. All other surfaces endangered by stains and paint marks should be taped and covered with craft paper.

4. 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 Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- Q. 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.
- R. 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.
- S. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.

- T. 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.
- U. 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.
- V. Install lateral bracing with pipe hangers and supports to prevent swaying.
- W. 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.
- X. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- Y. 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.

5. 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 panel boards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- 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, Type 1.
 - ii. Outdoor Locations: NEMA, Type 3R.
 - iii. Kitchen and Wash-Down Areas: NEMA, Type 4X, stainless steel.
 - iv. Other Wet or Damp Indoor Locations: NEMA, Type 4.
 - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA, 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 Panel boards: Same gage and finish as panel board front with flanges for attachment to panel board, wall, and ceiling or floor.
- F.2.5 Gutter Extension and Barrier: Same gage and finish as panel board enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes:
 - i. 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.
- F.2.7 Directory Card: Inside panel board door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
 - 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.

6. MECHANICAL WORKS

- A. All mechanical works shall be done in accordance with the latest requirements of the National Building Code, PSME Code and the Rules and Regulation of Quezon City.
- B. All air conditioned spaces shall be maintained at 24° C Dry Bulb and 50% Relative Humidity.
- C. All vibrating equipment shall be provided with vibration isolators to prevent transmission of vibration and noise and damage to equipment.
- D. The contractor shall be responsible for all testing and commissioning of the whole ventilation and air conditioning system.
- E. Provide thermostat for all fan coil units (FCU).
- F. All condensate water drain pipes shall be tapped to the nearest floor drain, area drain or catch basin.
- G. All ducts shall be fabricated from galvanized steel Ga. 24 and wrapped by polyolefin thermal insulation unless otherwise specified on the plans.
- H. Provide pipe sleeve insulation for all refrigerant piping, ducting, and condensate water drain piping.
- I. Provide Hangers and supports for all equipment refrigerant piping, ducting and condensate water drain piping

III. LAND DEVELOPMENT

I. ITEM 108 – AGGREGATE SUBBASE COURSE DESCRIPTION

This item shall consist of furnishing, placing and compacting an aggregate subbase course on a prepared subgrade in accordance with this Specification and the lines, grades and cross-sections shown on the Plans, or as directed by the Engineer-in-charge.

MATERIAL REQUIREMENTS

Aggregate for subbase shall consist of hard, durable particles or fragments of crushed stone, crushed slag, or crushed or natural gravel and filler of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable subbase.

The subbase material shall conform to Table 200.1, Grading Requirements

Table 200.1 – Grading Requirements

Sieve Designation		Mass Percent Passing
Standard, mm	Alternate US Standard	
50	2"	100
25	1"	55-85
9.5	3/8"	40-75
0.075	No. 200	0-12

The fraction passing the 0.075 mm (No. 200) sieve shall not be greater than 0.66 (two thirds) of the fraction passing the 0.425 mm (No. 40) sieve. The fraction passing the 0.425 mm (No. 40) sieve shall have a liquid limit not greater than 35 and plasticity index not greater than 12 as determined by AASHTO T 89 and T 90, respectively. The coarse portion, retained on a 2.00 mm (No. 10) sieve, shall have a mass percent of wear not exceeding 50 by the Los Angeles Abrasion Tests as determined by AASHTO T 96. The material shall have a soaked CBR value of not less than 25% as determined by AASHTO T 193. The CBR value shall be obtained at the maximum dry density and determined by AASHTO T 180, Method D.

II. ITEM 200 – AGGREGATE BASE COURSE DESCRIPTION

This Item shall consist of furnishing, placing and compacting an aggregate base course on a prepared subgrade/subbase in accordance with this Specification and the lines, grades, thickness and typical cross-sections shown on the Plans, or as established by the Engineer-in-charge.

MATERIAL REQUIREMENTS

Aggregate for base course shall consist of hard, durable particles or fragments of crushed stone, crushed slag or crushed or natural gravel and filler of natural or crushed sand or other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable base. In some areas where the conventional base course materials are scarce or non-available, the use of 40% weathered limestone blended with 60% crushed stones or gravel shall be allowed, provided that the blended materials meet the requirements of this Item. The base course material shall conform to Table 201.1, whichever is called for in the Bill of Quantities.

Table 201.1 – Grading Requirements

Sieve Designation		Mass Percent Passing	
Standard, mm	Alternate US Standard	Grading A	Grading B
50	2"	100	
37.5	1 – ½"	-	100
25	1"	60 – 85	-
19	¾"	-	60 – 85
12.5	½"	35 – 85	-
4.75	No. 4	20 - 50	30 – 55
0.425	No. 40	5 – 20 0 -	8 – 25 2
0.075	No. 200	12	- 14

The fraction passing the 0.075 mm (No. 200) sieve shall not be greater than 0.66 (two thirds) of the fraction passing the 0.425 mm (No. 40) sieve. The fraction passing the 0.425 mm (No. 40) sieve shall have a liquid limit not greater than 25 and plasticity index not greater than 6 as determined by AASHTO T 89 and T 90, respectively. The coarse portion, retained on a 2.00 mm (No. 10) sieve shall have a mass percent of wear not exceeding 50 by the Los Angeles Abrasion test determined by AASHTO T 96. The material passing the 19 mm (¾ inch) sieve shall have a soaked CBR value of not less than 80% as determined by AASHTO T 193. The CBR value shall be obtained at the maximum dry density (MDD) as determined by AASHTO T 180, Method D. If filler, in addition to that naturally present, is necessary for meeting the grading requirements or for satisfactory bonding, it shall be uniformly blended with the base course material on the road or in a pug mill unless otherwise specified or approved. Filler shall be taken from sources approved by the Engineer, shall be free from hard lumps and shall not contain more than 15 percent of material retained on the 4.75 mm (No. 4) sieve.

III. ITEM 502 – CONCRETE CURB AND GUTTER DESCRIPTION

This Item shall consist of the construction of curb and gutter either Precast or Cast in place, made of concrete in accordance with this Specification at the location, and in conformity with the lines, grades, dimensions and design, shown on the Plans or as required by the Engineer-in-charge.

MATERIAL FOR BED COURSE

Bed course materials as shown on the Plans shall consist of cinders, sand, slag, gravel, crushed stone, or other approved porous material of such grading that all the particles will pass through 12.5 mm (½ inch) sieve.

CONCRETE

Concrete shall be of the class indicated on the Plans and shall conform to the requirements of Item 405, Structural Concrete.

EXPANSION JOINT FILLER

Expansion joint filler shall conform to the requirements of AASHTO M 153/ joint materials.

CEMENT MORTAR

Cement mortar shall consist of one part of Portland cement and two parts of fine aggregates with water added as necessary to obtain the required consistency. The mortar shall be used within 30 minutes of preparation.

BONDING COMPOUND

Where bonding compound is used, it shall conform to AASHTO M 200.

FORMS

Forms shall be of wood or metal as approved by the Engineer and shall extend to the full depth of the concrete. All forms shall be straight, free from warps and of adequate strength to resist distortion.

IV. ITEM 503 – CONCRETE SIDEWALK DESCRIPTION

This Item shall consist of the construction of asphalt or Portland Cement concrete sidewalk in accordance with this Specification and to the lines, grades, levels and dimensions shown on the Plans, or as required by the Engineer-in-charge.

MATERIAL REQUIREMENTS

PORTLAND CEMENT CONCRETE

The cement concrete shall be Class A as specified in Item 405, Structural Concrete.

ASPHALT

Asphaltic material shall be as specified in Item 308, Bituminous Plant-Mix Surface Course, Cold-Laid, or Item 310, Bituminous Concrete Surface Course, Hot-Laid.

EXPANSION JOINT FILLER

Unless otherwise ordered, the preformed joint filler shall have a thickness of 5 mm and shall conform to the requirements of Item 311, Portland Cement Concrete Pavement.

FORMS

Forms shall be of wood or metal as approved by the Engineer and shall extend to the full depth of the concrete. All forms shall be straight, free from warps and of adequate strength to resist distortion.

BED COURSE MATERIAL

Bed course material consists of cinders, sand, slag, gravel, crushed stone or other approved permeable granular material of such grading that all particles shall pass a 12.5 mm (1/2 inch) sieve.

ASPHALTIC PRIME COAT

Prime coat shall be cut-back asphalt conforming to the requirements of Item 301, Bituminous Prime Coat.

V. ITEM SPL 11- MANHOLE WITH ANGULAR BAR and SG (Ht. = Variable) DESCRIPTION

This item shall consist of construction of manholes and inlets in accordance with the Standard Specifications for Public Works and Highways and in reasonably close conformity with the lines and grades shown on the plans or as established by the Engineer-In-Charge.

MATERIAL REQUIREMENTS

Concrete for these structures shall meet the requirements of Item 405, Structural Concrete. Other materials shall meet the following specifications:

CORRUGATED METAL UNITS

The units shall conform to Plan dimensions and the metal to AASHTO M 36. Bituminous coating, when specified, shall conform to ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal.

Sewer and manhole brick (Made from clay or shale)	AASHTO M 91
Building brick (Solid masonry units made from clay or shale)	AASHTO M 114

JOINT MORTAR

Unless otherwise indicated on the Plans, joints mortar shall be composed of one part Portland Cement and two parts fine aggregate by volume to which hydrated lime has been added in an amount equal to 10 percent of the cement by weight. All materials for mortar shall meet the requirements of Item 405, Structural Concrete.

FRAMES, GRATINGS, COVERS AND LADDER RUNGS

Metal units shall conform to the plan dimensions and to the following specification requirements for the designated materials. Metal gratings and covers which are to rest on frames shall bear on them evenly. They shall be assembled before shipment and so marked that the same pieces may be reassembled readily in the same position when installed. Inaccuracy of bearings shall be corrected by machining, if necessary. A frame and a grating or cover to be used with it shall constitute one pair.

All castings shall be uniformly coated with asphalt-based emulsion meeting the requirements of ASTM D 1187, Asphalt-base Emulsion for use as Protective Coating for Metal. Samples of the material in casting shall be taken during the casting of the units and shall be separate casting poured from the same material as the casting they represent

Gray iron casting	AASHTO M 105
Mild to medium-strength carbon steel castings for general application	AASHTO M 103
Structural steel	AASHTO M 183
Galvanizing, where specified for these units, shall conform to the requirements of	AASHTO M 111
Reinforcing Steel	AASHTO M 31

PRE-CAST CONCRETE UNITS

These units shall be cast in substantial permanent steel forms. Structural concrete used shall attain a minimum 28-day compressive strength of 20.682 MPa (3000 psi). The pre-cast units shall be cured in accordance with AASHTO M 171. Water absorption of individual cores taken from such units shall not exceed 7 percent. Additional reinforcement shall be provided as necessary to provide for handling of the pre-cast units. A sufficient number of cylinders shall be cast from the concrete for each unit permit compression tests at 7, 14 and 28 days, and to allow for at least 3 cylinders for each test. If the strength requirement is met at 7 or 14 days, the units shall be certified for use 14 days from the date of casting. If the strength is not met at 28 days, all units made from that batch or load will be rejected. Cracks in units, honeycombed or patched areas in excess of 2,000 square millimeters, excessive water absorption and failure to meet strength requirements shall be the causes for rejection. Pre-cast reinforced concrete manhole risers and tops shall conform to the requirements of AASHTO M 199. The plants will be inspected periodically for compliance with specified manufacturing methods, and material samples will be obtained for laboratory testing for compliance with material quality requirements. This may be the basis for acceptance of manufacturing lots as the quality. All materials shall be subjected to inspection for acceptance as to condition at the latest practicable time the Engineer has the opportunity to check for compliance prior to or during incorporation of materials into the work.

Prepared by:

Checked by:



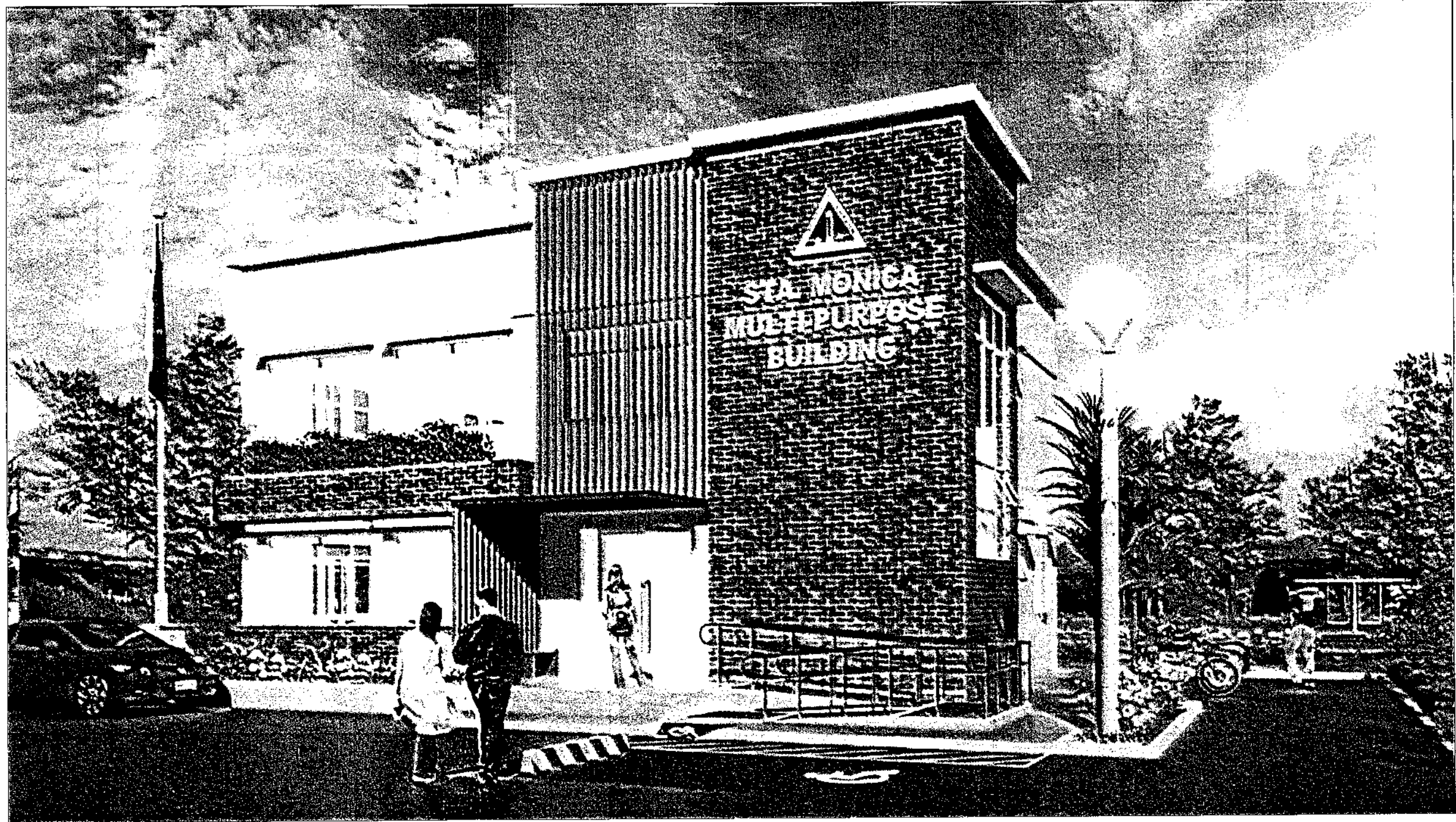
PETE ANDRE S. IMATONG
Planning and Programming Division



JEAN PAUL V. DELA CRUZ
Planning and Programming Division

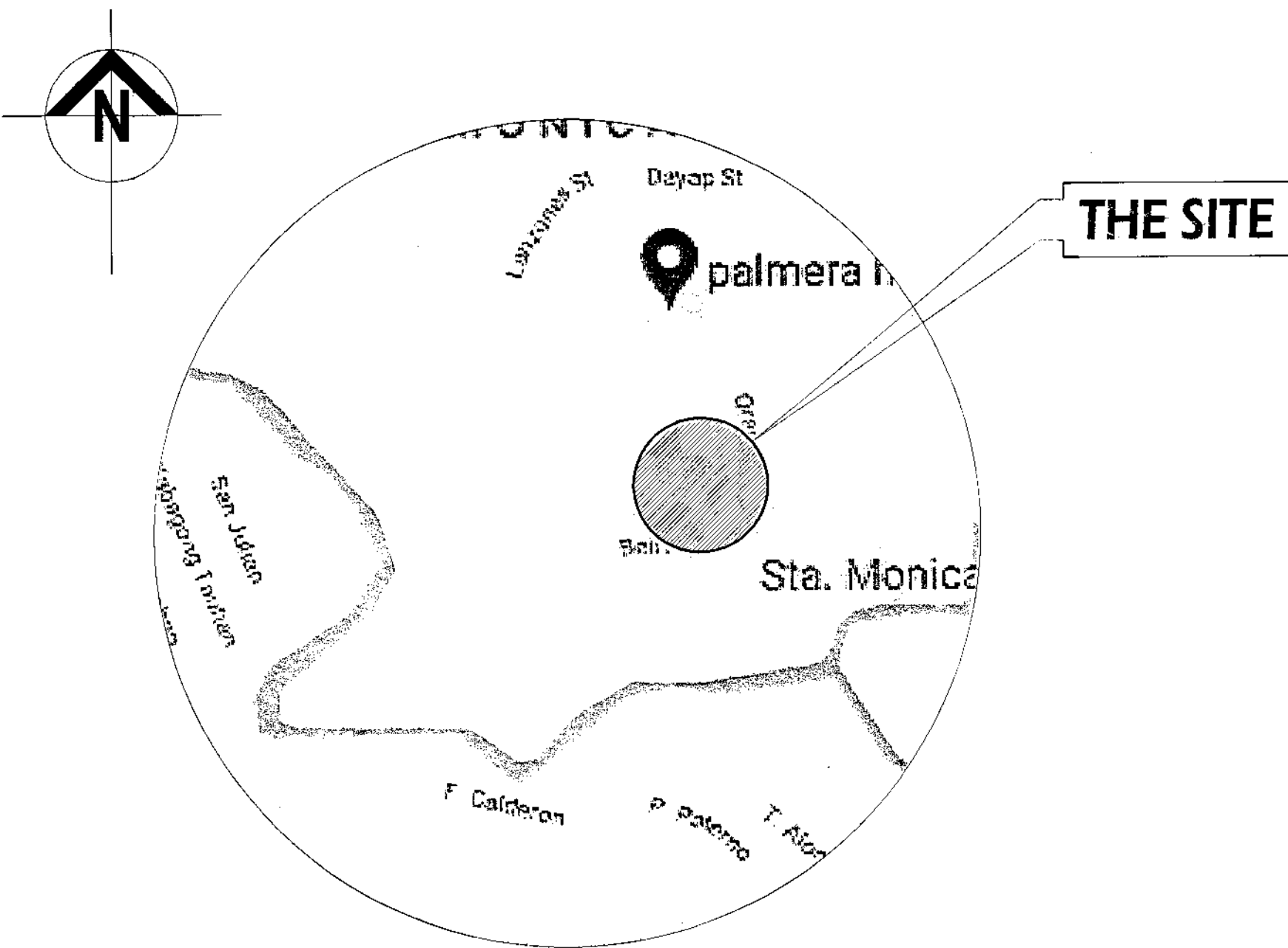
Section VII. Drawings

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



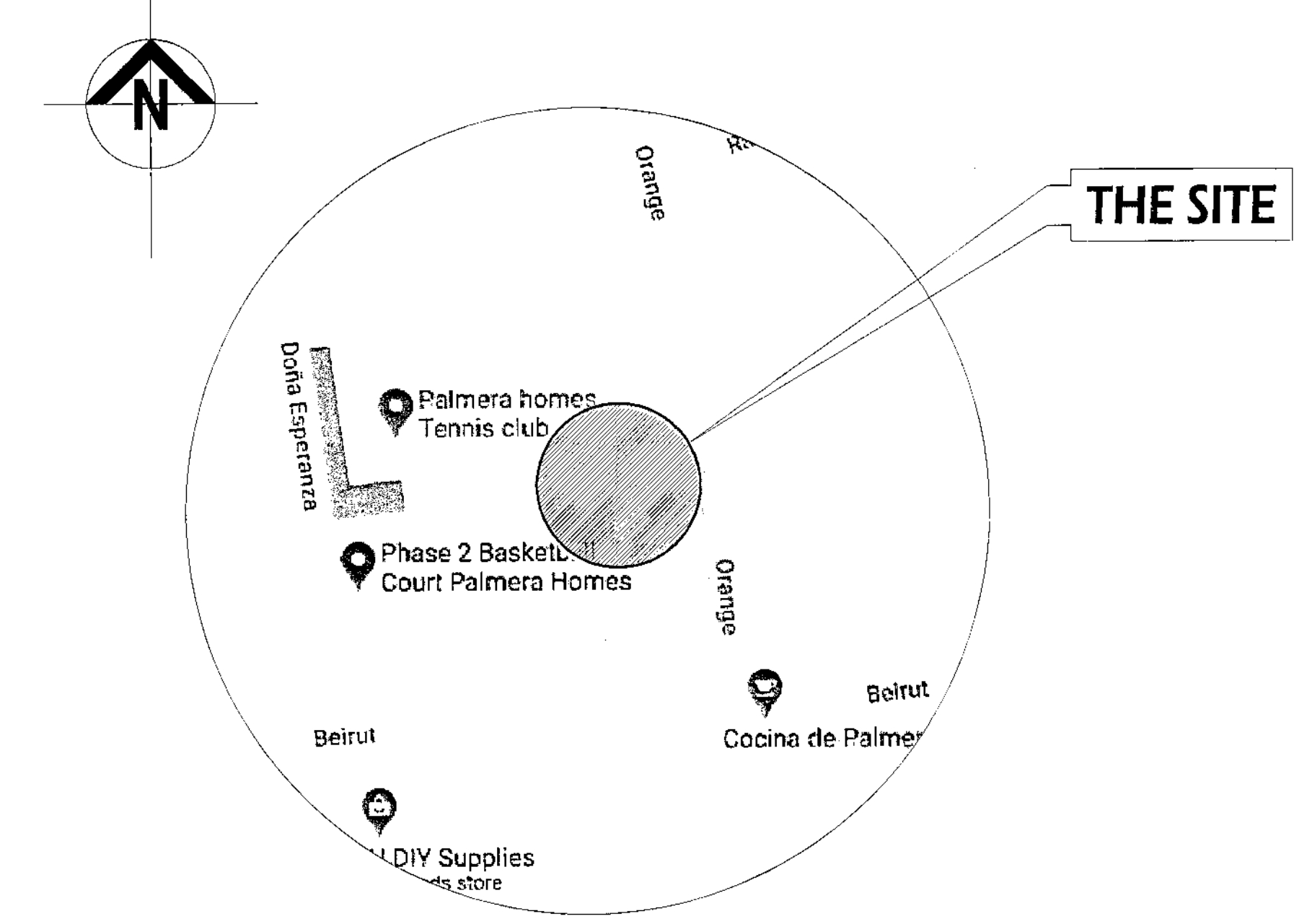
1 PERSPECTIVE

NOT TO SCALE



2 LOCATION MAP

NOT TO SCALE



3 VICINITY MAP

NOT TO SCALE

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Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LAND USE & ZONING

LINE & GRADE

ARCHITECTURAL

CIVIL / STRUCTURAL

ELECTRICAL

MECHANICAL

SANITARY

PLUMBING

ELECTRONICS

GEODETIC ENGINEER



Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
31F CIVIC CENTER - D (Bldg. 800), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



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BE THE RESPONSIBILITY OF THE USER TO
OBTAIN THE NECESSARY PERMISSIONS
FROM THE CITY ARCHITECT DEPARTMENT
FOR THE REPRODUCTION OF AND FOR OTHER
PROJECTS OR FOR OTHERS, WHETHER
EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL

Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA JR.
C.O.C. CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

LOCATION: BRGY. STA. MONICA, Q.C.

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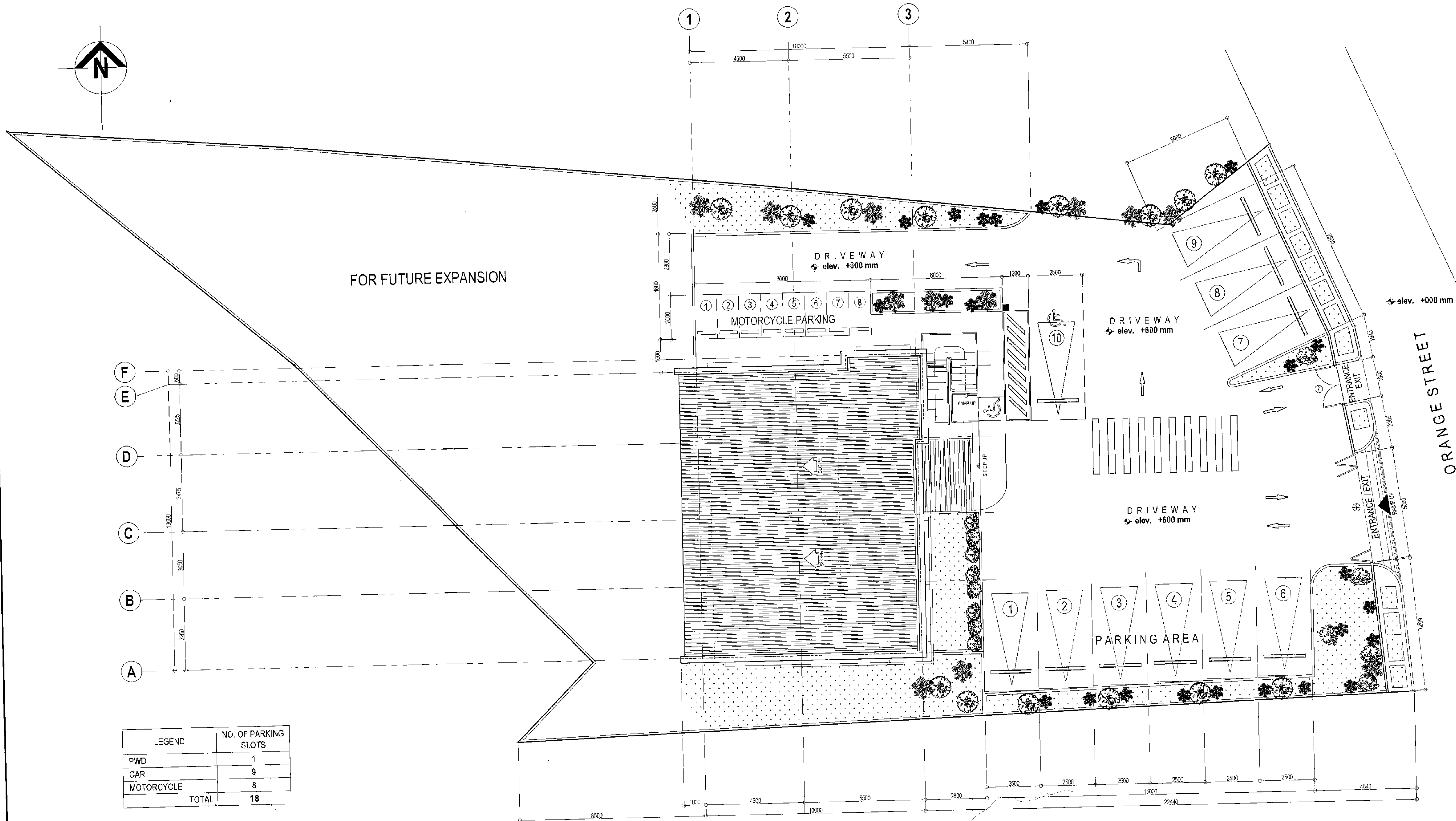
PERSPECTIVE
LOCATION MAP
VICINITY MAP
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PROJECT NO.:

DATE: November 2020
DRAWN BY: N. N. L./CSDela Cruz
DESIGNED BY: Ar. M. T. De Leon
CHECKED BY: Ar. R. G. Resurreccion

SHEET NO.:

AR-01

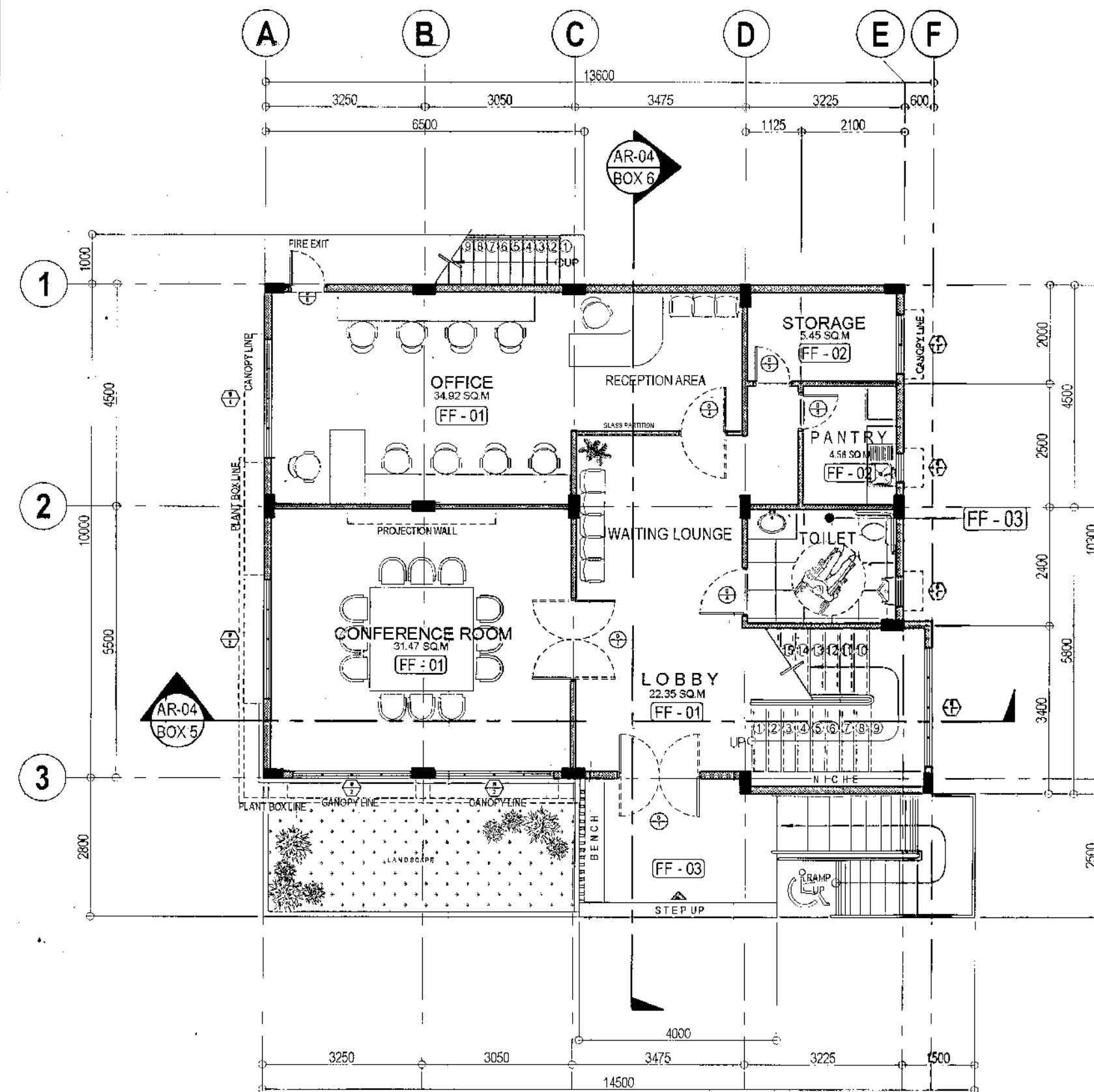


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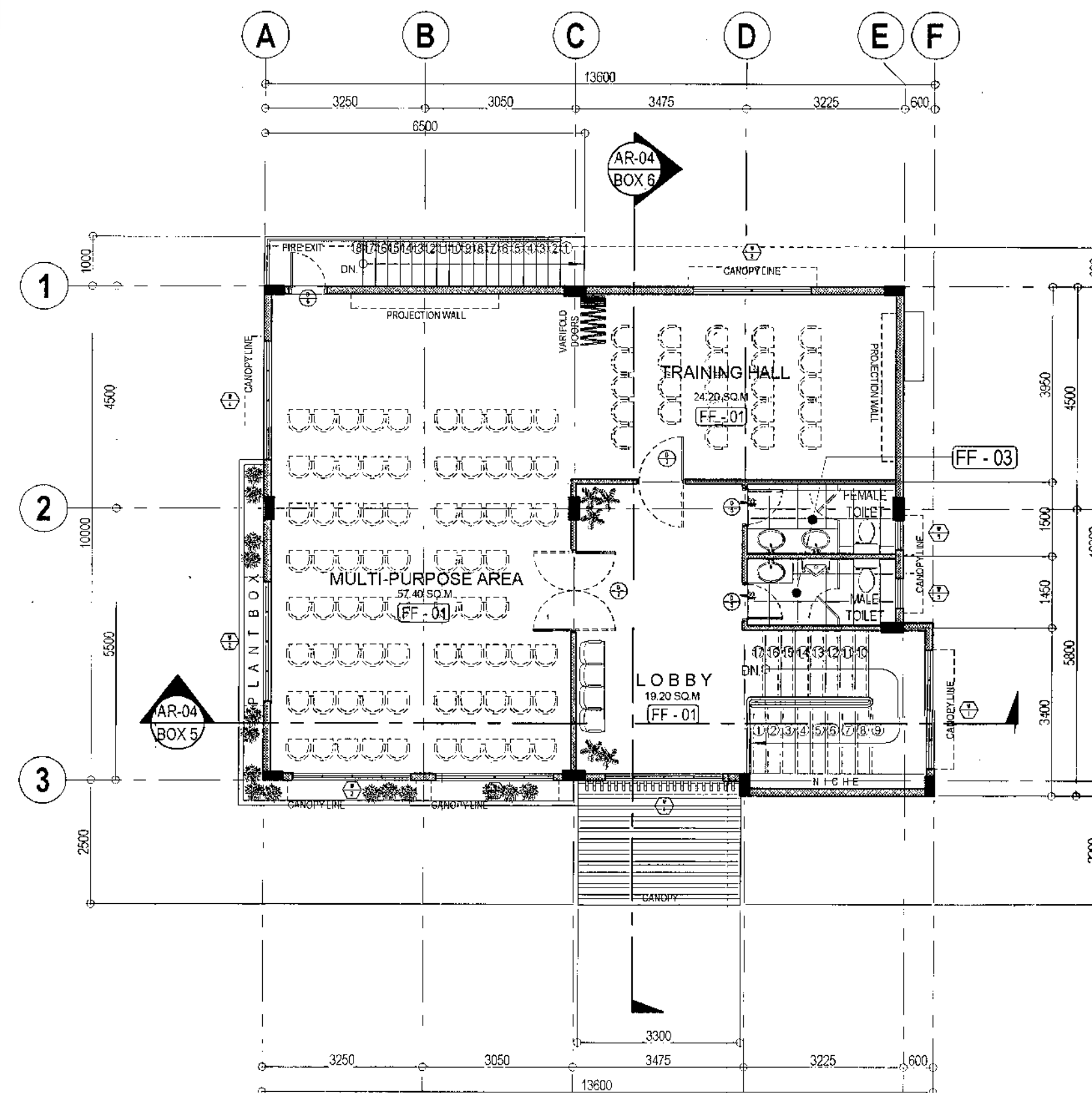
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1 SITE DEVELOPMENT PLAN

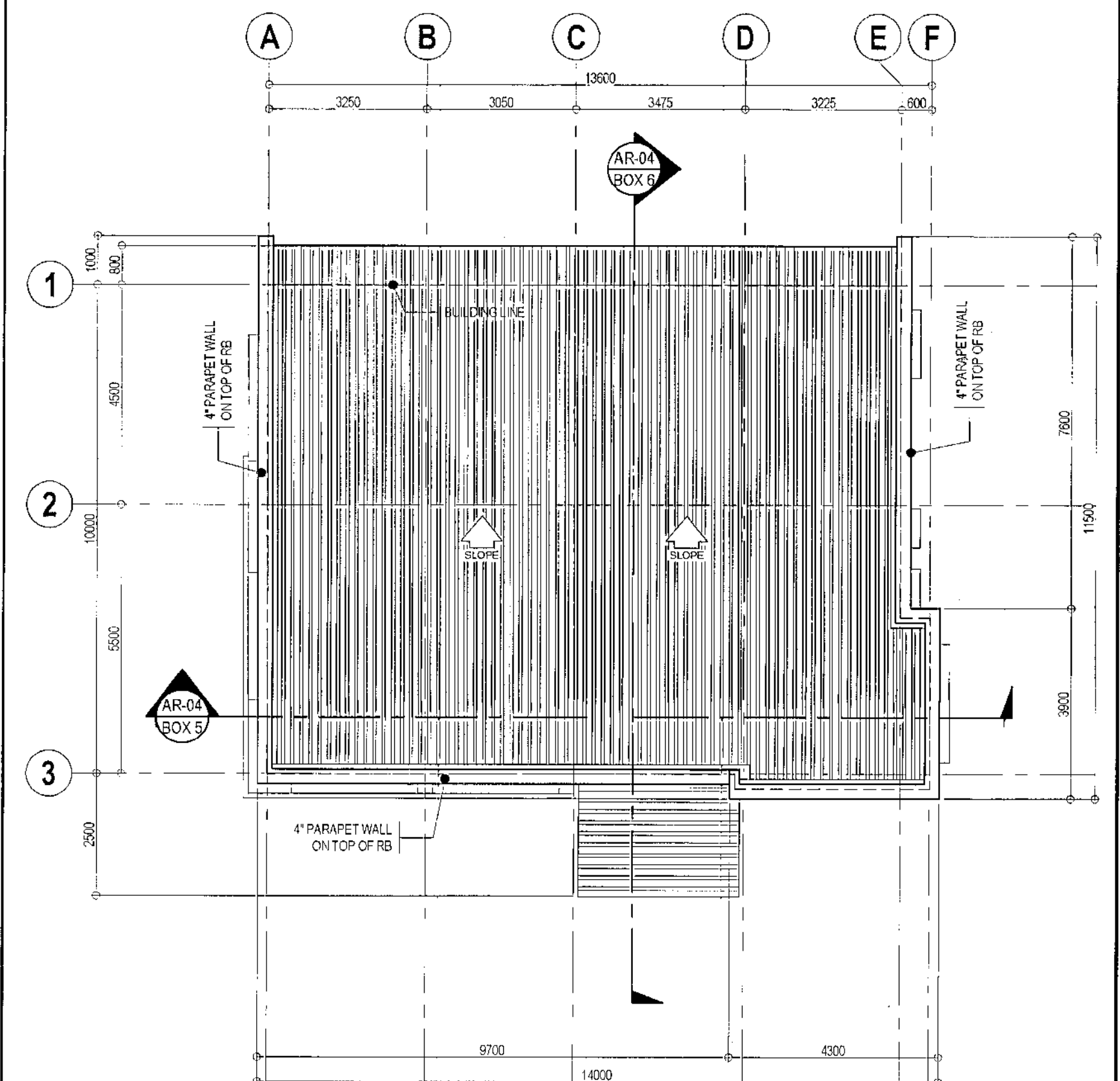
<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5/F CIVIC CENTER - D (BRD. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE SUBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucille H. Chua</i> Ar. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> ENGR. ISAGANI R. VERZOSA JR. OIC, CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>Hon. Ma. Josefina G. Belmonte</i> HON. MA. JOSEFINA G. BELMONTE MAYOR</p> <p><i>Q.C.</i></p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p> <p>LOCATION: BRGY. STA. MONICA, Q.C.</p>	<p>SHEET CONTENTS:</p> <p>SITE DEVELOPMENT PLAN</p>	<p>PROJECT NO.:</p> <p>November 2020</p> <p>DATE DRAWN BY DESIGNED BY CHECKED BY</p> <p>N. N. L. CSDelaCruz Ar. M. T. De Leon Ar. R. G. Resurreccion</p>	<p>SHEET NO.:</p> <p>AR-02</p>
				<p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p> <p>LOCATION: BRGY. STA. MONICA, Q.C.</p>	<p>SHEET CONTENTS:</p> <p>SITE DEVELOPMENT PLAN</p>	<p>PROJECT NO.:</p> <p>November 2020</p> <p>DATE DRAWN BY DESIGNED BY CHECKED BY</p> <p>N. N. L. CSDelaCruz Ar. M. T. De Leon Ar. R. G. Resurreccion</p>	<p>SHEET NO.:</p> <p>AR-02</p>



NOTE: LANDSCAPING-BY OTHERS



FLOOR TAG FINISH	EQUIVALENT
FF-01	600mm x 600mm CERAMIC FLOOR TILES
FF-02	300mm x 300mm CERAMIC FLOOR TILES
FF-03	600mm x 600mm RUSTIC CERAMIC TILES



1 GROUND FLOOR PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

2 SECOND FLOOR PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

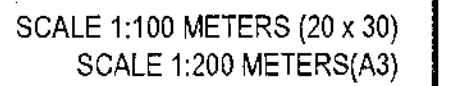
3 ROOF PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

	<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT SIF CIVIC CENTER - D (BRO. Bkg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHEREIN THE SUBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE ARCHITECT OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS ON BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE</p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> Ar. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> ENGR. ISAGANI R. VERZOSA JR. OIC, CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> HON. MA. JOSEFINA G. BELMONTE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p>	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR PLAN SECOND FLOOR PLAN ROOF PLAN</p>	<p>PROJECT NO.:</p> <p>DATE: November 2020 DRAWN BY: N. N-L./CSDela Cruz DESIGNED BY: Ar. M. T. De Leon CHECKED BY: Ar. R. G. Resurreccion</p>	<p>SHEET NO.:</p> <p>AR-03</p>
			<p>LOCATION: BRGY. STA. MONICA, Q.C.</p>						



2 REAR ELEVATION



4 LEFT SIDE ELEVATION



6 CROSS SECTION



LEGENDS & SYMBOLS

- C-1

12MM THK GYPSUM BOARD ON METAL FURRING, PAINTED FINISH
- C-2

12MM THK MOISTURE RESISTANT GYPSUM BOARD ON METAL FURRING, PAINTED FINISH

- C-3

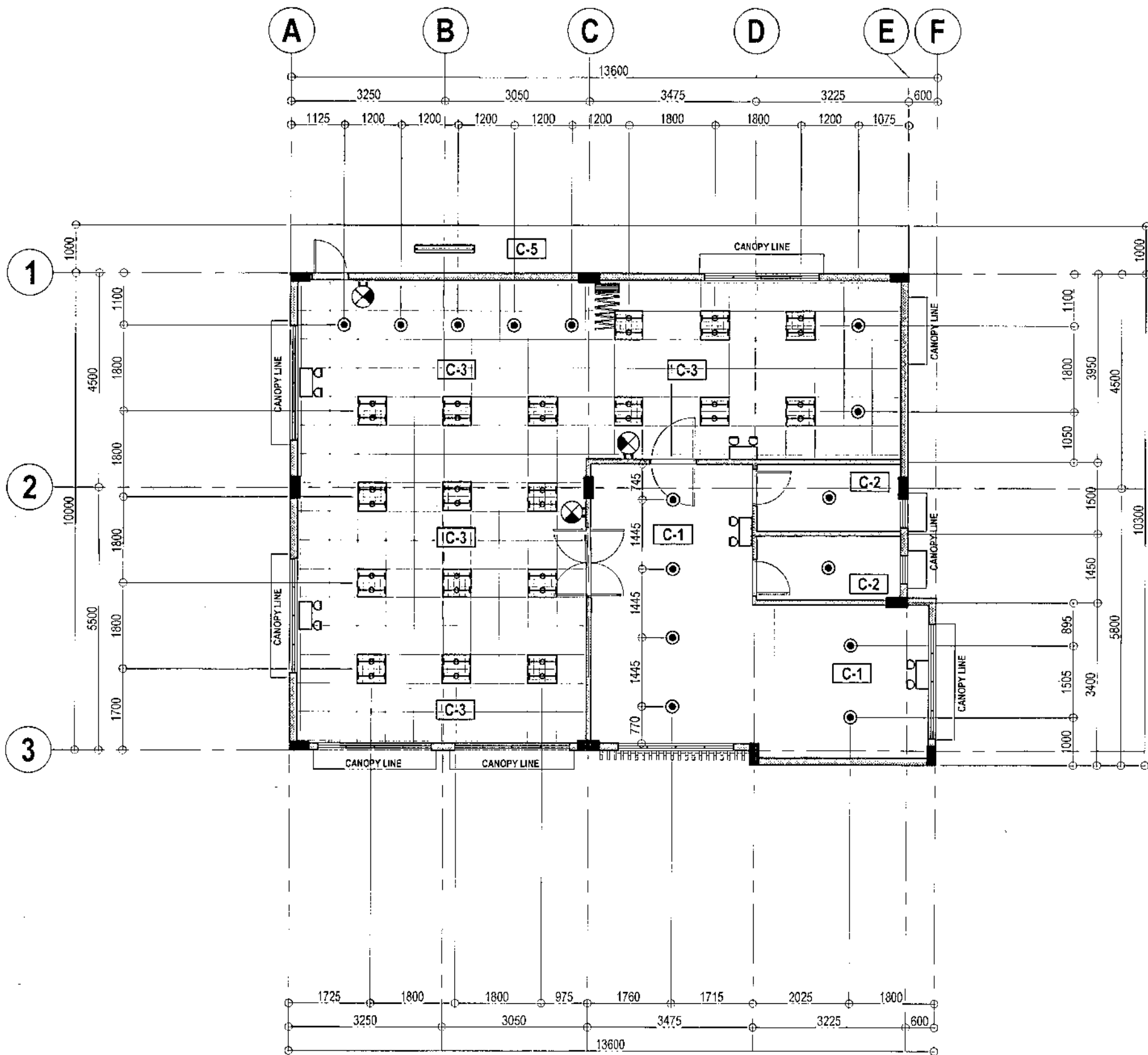
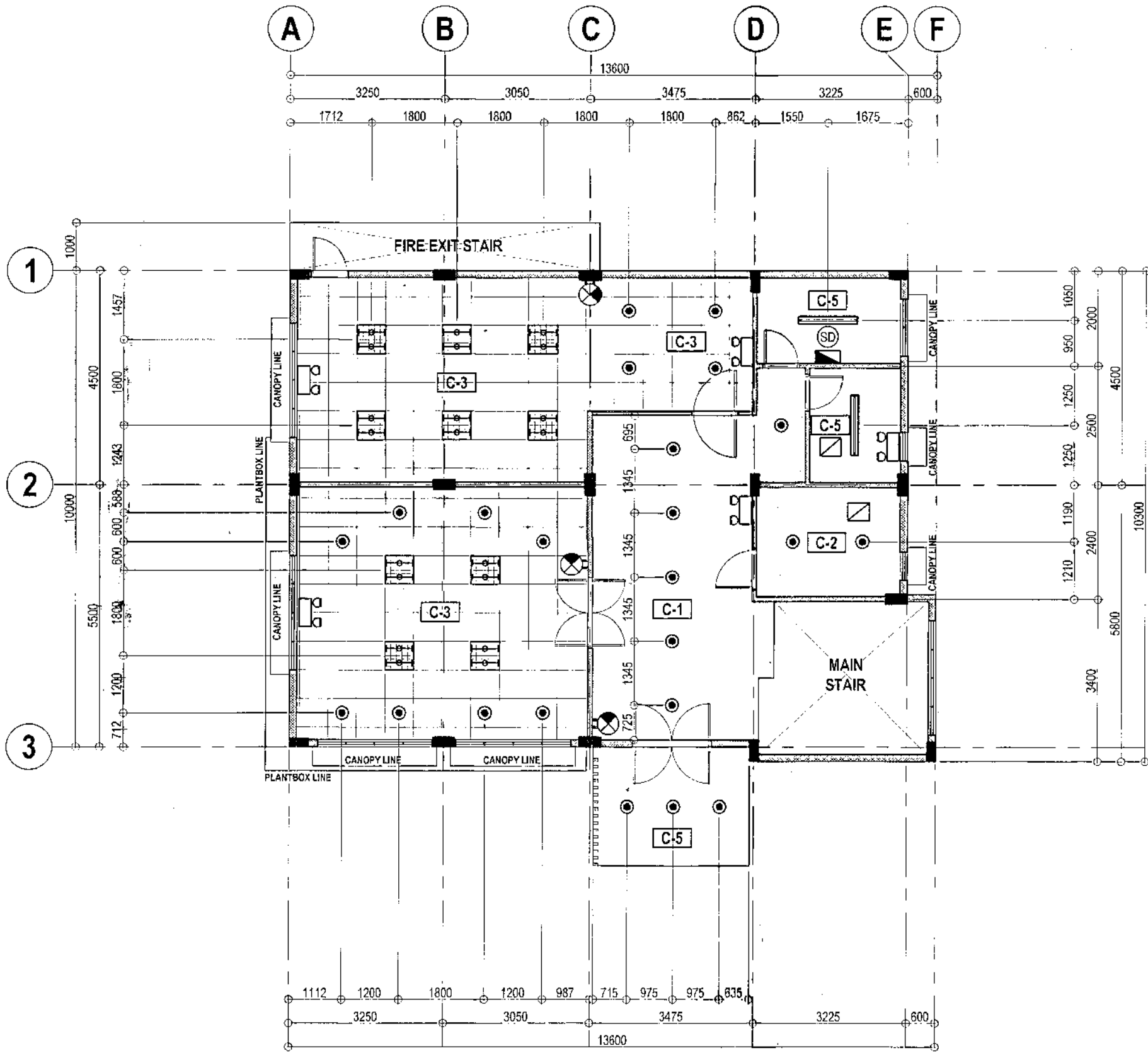
600X600MM ACOUSTIC BOARD
- C-4

6MM THK HARDIFLEX BOARD
- C-5

CONCRETE SLAB SOFFIT ON SKIM COAT FINISH (INCLUDING BEAMS)

- TROFFER LIGHT 600X600MM
- PIN LIGHT
- EXIT LIGHT
- SMOKE DETECTOR

- EXHAUST FAN
- EMERGENCY LIGHT
- LIGHTING & POWER PANEL BOARD
- FLUORESCENT LIGHT



1 GROUND FLOOR CEILING PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

2 SECOND FLOOR CEILING PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



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RECOMMENDING APPROVAL

ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.
CIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE
MAYOR

Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

LOCATION : BRGY. STA. MONICA, Q.C.

SHEET CONTENTS :

GROUND FLOOR REFLECTED
CEILING PLAN

SECOND FLOOR REFLECTED
CEILING PLAN

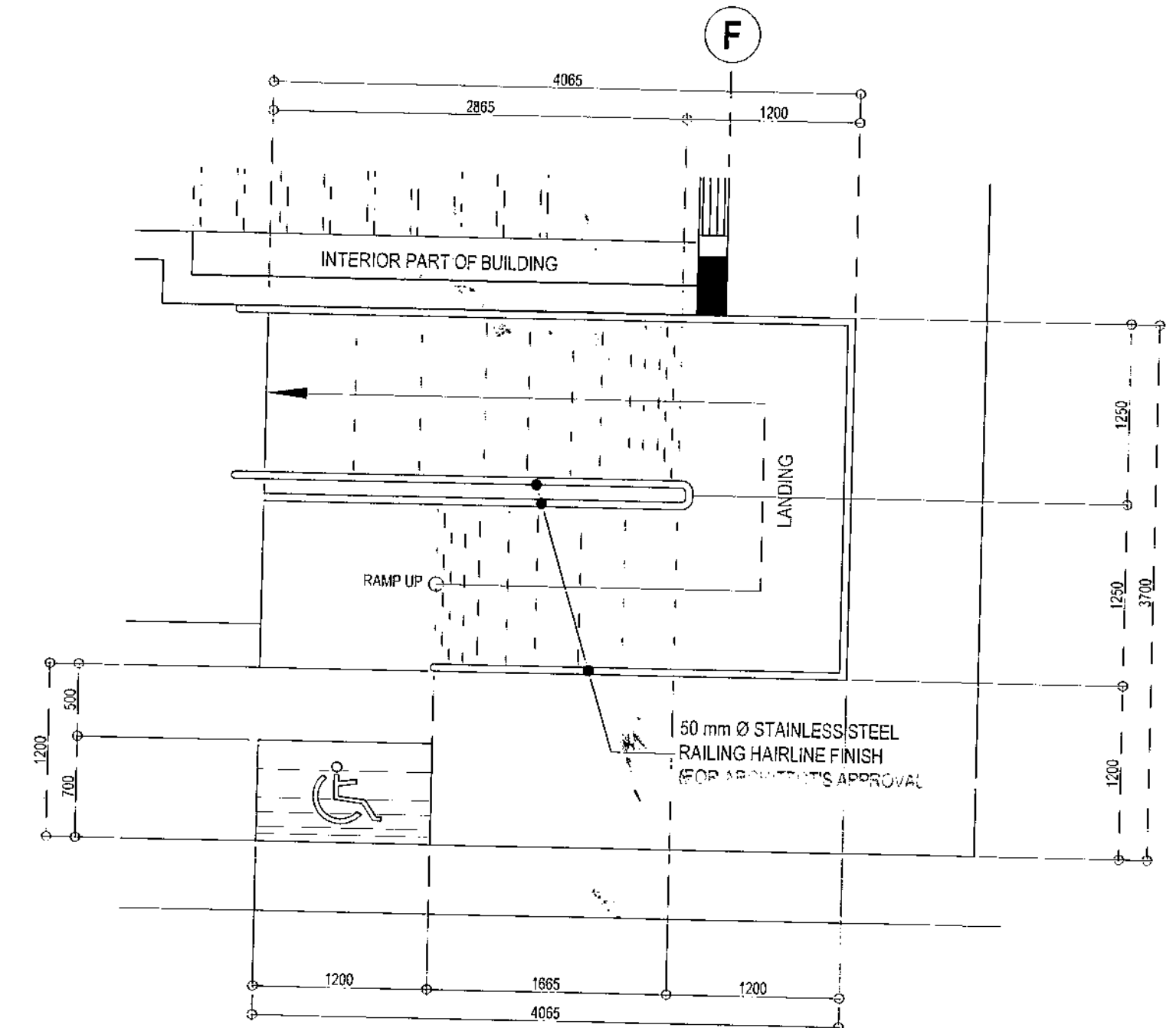
PROJECT NO.:

DATE : October 2020
DRAWN BY : N. N. L./CSDela Cruz
DESIGNED BY : Ar. M. T. De la Cruz
CHECKED BY : Ar. R. G. Resurreccion

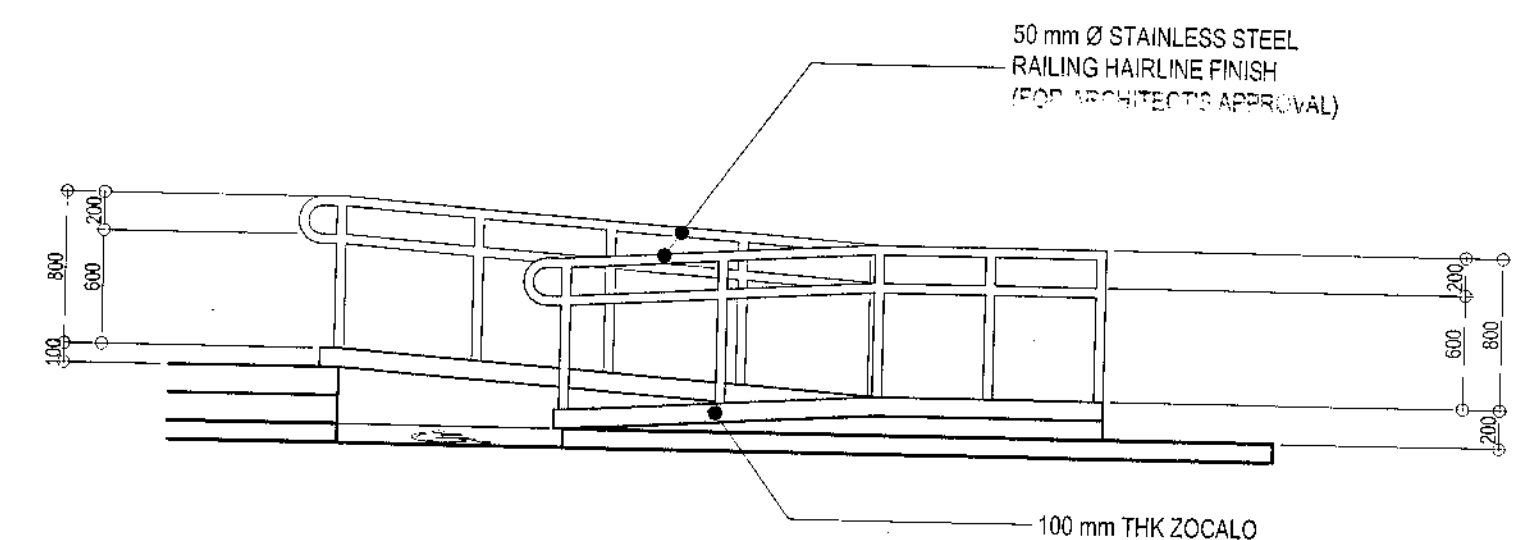
SHEET NO.:

AR-05

ELEVATION					
GATE / DOOR MARK	⓪ 1		⓪ 2	▼ FIN. FLR. LINE ⓪ 3	
LOCATION	VEHICLE ENTRANCE / EXIT GATE		PEDESTRIAN ENTRANCE / EXIT GATE	MAIN ENTRANCE	
SPECIFICATION	PAINTED STEEL GATE		PAINTED STEEL GATE	ALUMINUM FRAMED DOUBLE LEAF SWING GLASS DOOR WITH FIXED GLASS PANELS (POWDER COATED)	
HARDWARE/GLAZING	COMPLETE ACCESSORIES		COMPLETE ACCESSORIES	USE 10mm THICK CLEAR GLASS	
NUMBER OF SETS	1 SET		1 SET	1 SET	
REMARKS	POWDER COATING AND GLASS COLOR FOR ARCHITECT'S APPROVAL				
ELEVATION					
DOOR MARK	▼ FIN. FLR. LINE ⓪ 4	⓪ 5	⓪ 6	⓪ 7	⓪ 8
LOCATION	CONFERENCE ROOM MULTI-PURPOSE AREA	RECEPTION AREA TRAINING HALL	P.W.D. TOILETS	MALE AND FEMALE TOILET PANTRY	FIRE EXITS
SPECIFICATION	ALUMINUM FRAMED DOUBLE LEAF SWING GLASS DOOR (POWDER COATED)	ALUMINUM FRAMED SWING GLASS DOOR WITH FIXED GLASS PANELS (POWDER COATED)	PAINTED WOOD PANEL DOOR	PAINTED WOOD PANEL DOOR	POWDER COATED METAL FIRE DOOR
HARDWARE/GLAZING	USE 10mm THICK CLEAR GLASS	USE 10mm THICK CLEAR GLASS	PROVIDE 300mm HIGH STAINLESS STEEL KICK PLATE ON BOTH SIDES	PROVIDE 300mm HIGH STAINLESS STEEL KICK PLATE ON BOTH SIDES	WITH PANIC HARDWARE
NUMBER OF SETS	2 SET	2 SETS	1 SET	4 SETS	6 SETS
REMARKS	POWDER COATING AND GLASS COLOR FOR ARCHITECT'S APPROVAL				
ELEVATION					
WINDOW MARK	▼ FIN. FLR. LINE ⓪ 1	⓪ 2	⓪ 3	⓪ 4	⓪ 5
LOCATION	MAIN STAIRS	CONFERENCE ROOM AND TRAINING HALL MULTI-PURPOSE AREA	STORAGE ROOM	OFFICE AND 2ND FLOOR LOBBY MULTI-PURPOSE AREA	P.W.D. MALE AND FEMALE TOILET PANTRY
SPECIFICATION	ALUMINUM FRAMED FIXED GLASS PANELS WITH AWNING TYPE TRANSOMS FOR VENTILATION (POWDER COATED)	ALUMINUM FRAMED CASEMENT WINDOW (2 PANELS, POWDER COATED)	ALUMINUM FRAMED CASEMENT WINDOW (POWDER COATED)	ALUMINUM FRAMED SLIDING WINDOW (2 PANELS, POWDER COATED)	ALUMINUM FRAMED AWNING WINDOW (POWDER COATED)
HARDWARE/GLAZING	USE 10mm THICK TEMPERED GLASS	6mm THICK GLASS	6mm THICK GLASS	6mm THICK GLASS	6mm THICK GLASS
NUMBER OF SETS	1 SET	5 SETS	1 SET	1 SET	4 SETS
REMARKS	POWDER COATING AND GLASS COLOR FOR ARCHITECT'S APPROVAL				



PLAN



ELEVATION

1 DOORS AND WINDOWS SCHEDULE

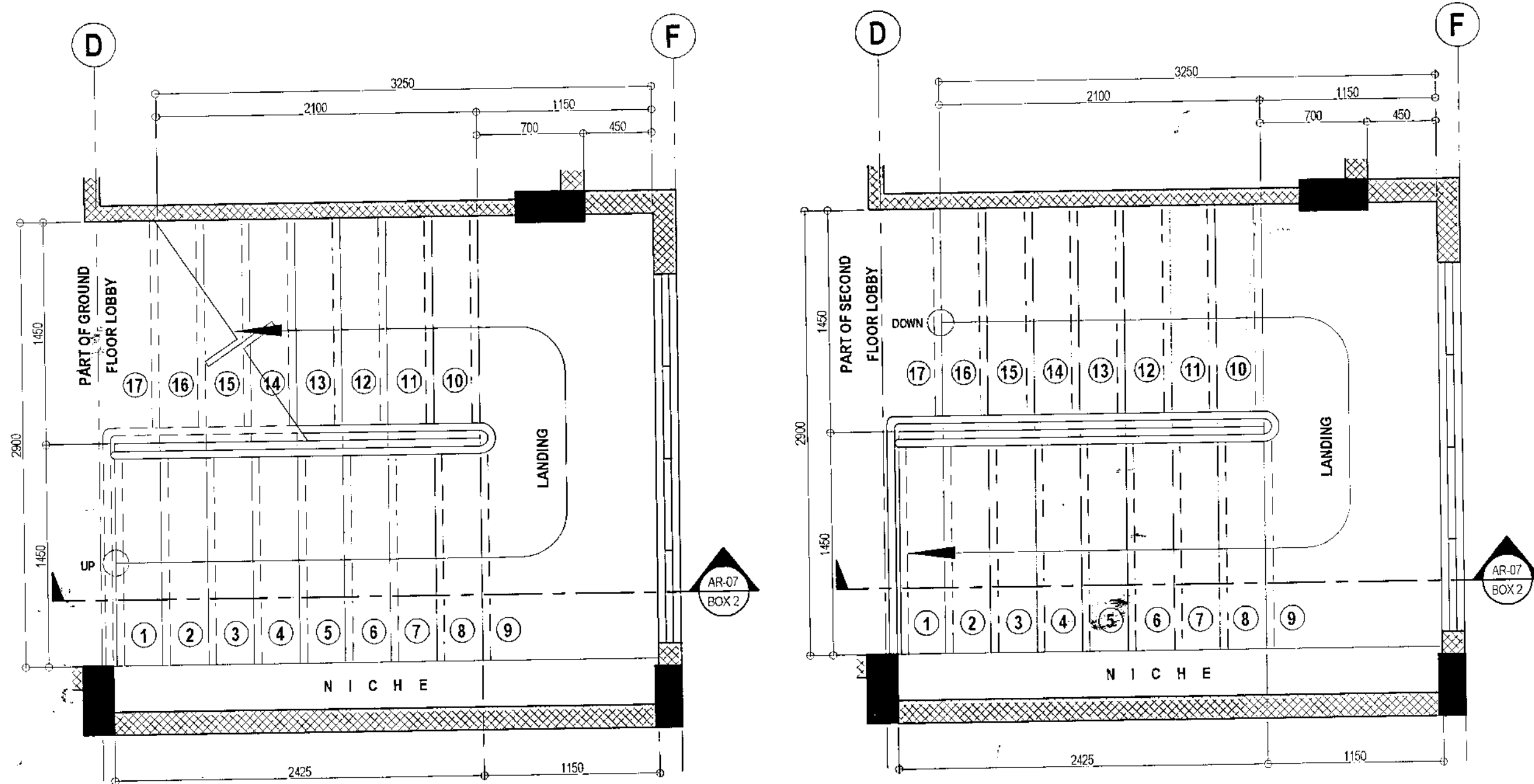
SCALE 1:50 METERS (20 x 30)
SCALE 1:100 METERS(A3)

2 RAMP DETAIL

SCALE 1:40 METERS (20 x 30)
SCALE 1:80 METERS(A3)

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		ARCH. LUCILLA H. CHUA, fuap, piep CITY ARCHITECT	ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEER	HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.	PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING	DOORS AND WINDOWS SCHEDULE RAMP DETAIL		
					LOCATION: BRGY. STA. MONICA, Q.C.			

AR-06

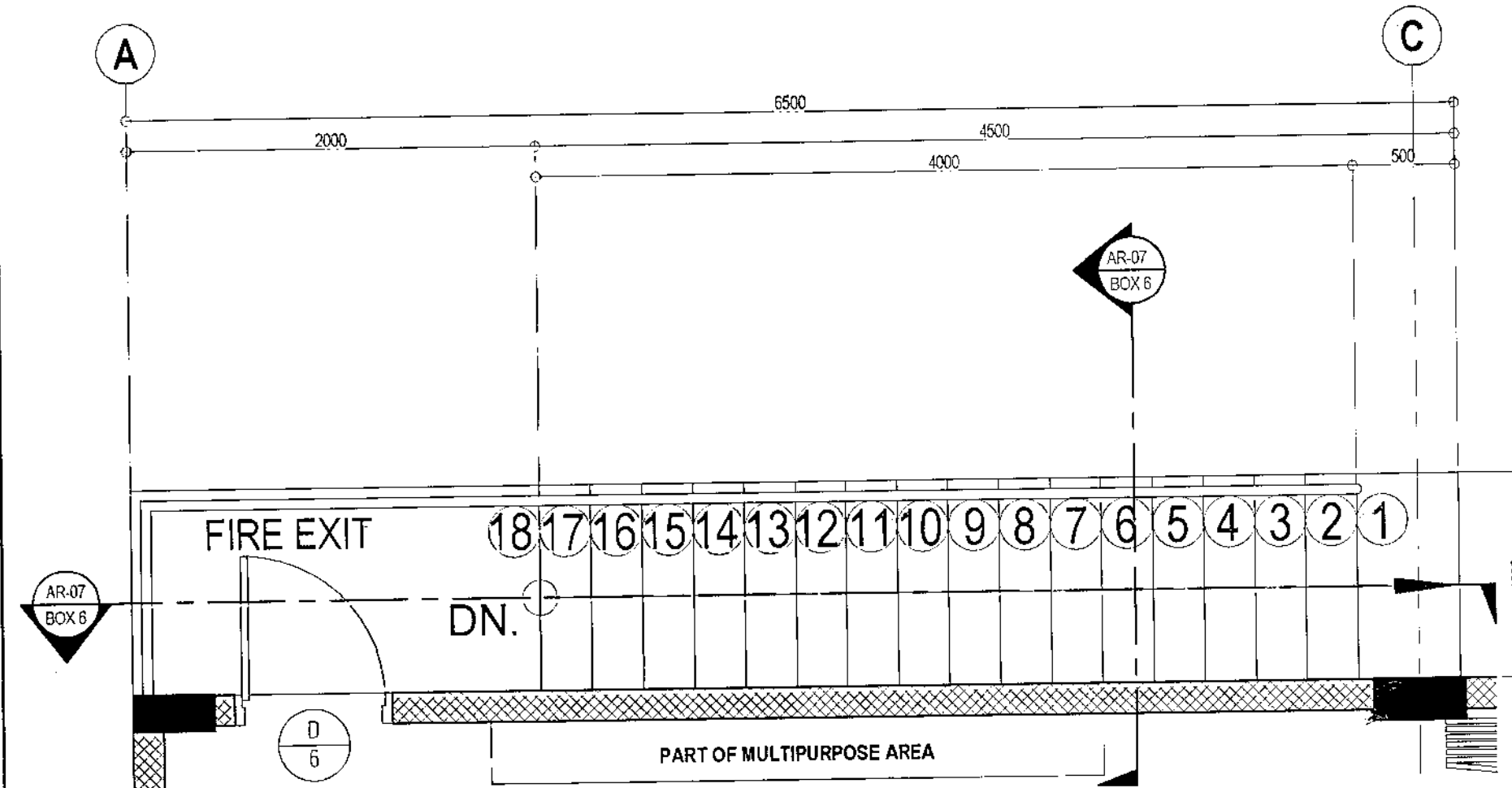


GROUND FLR. TO SECOND FLR. STAIRS PLAN

SECOND FLR. TO GROUND FLR. STAIRS PLAN

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS(A3)

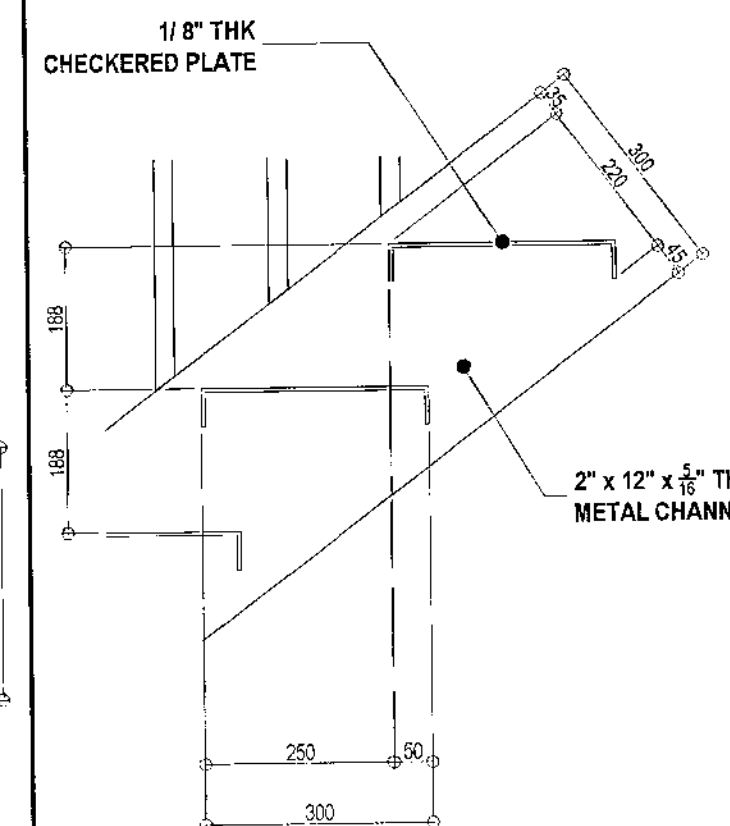
1 MAIN STAIR DETAIL (PLAN)



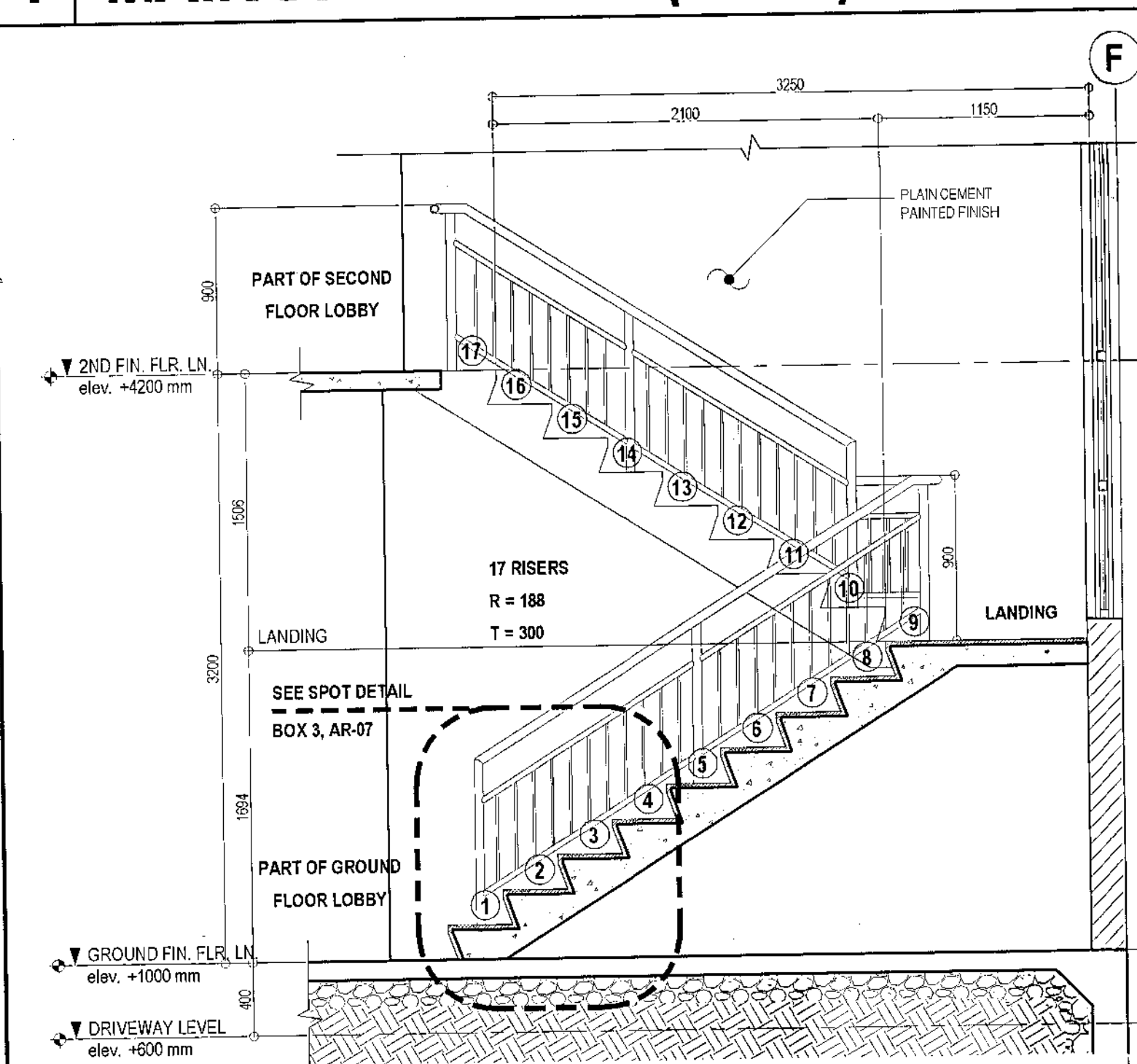
SECOND FLR. TO GROUND FLR. STAIRS PLAN

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS(A3)

4 FIRE EXIT STAIR DETAIL (PLAN)

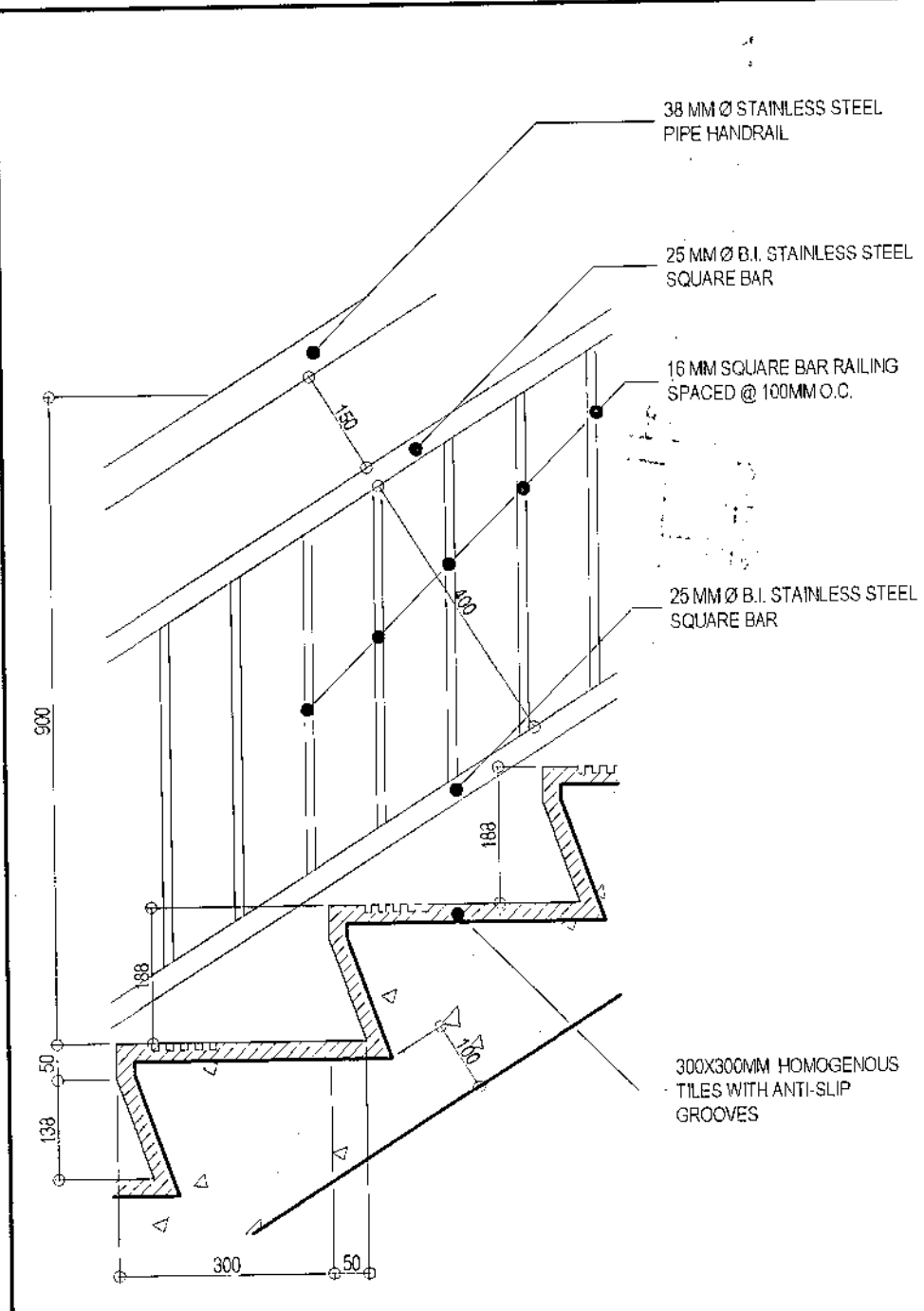


FIRE EXIT
SPOT DETAIL



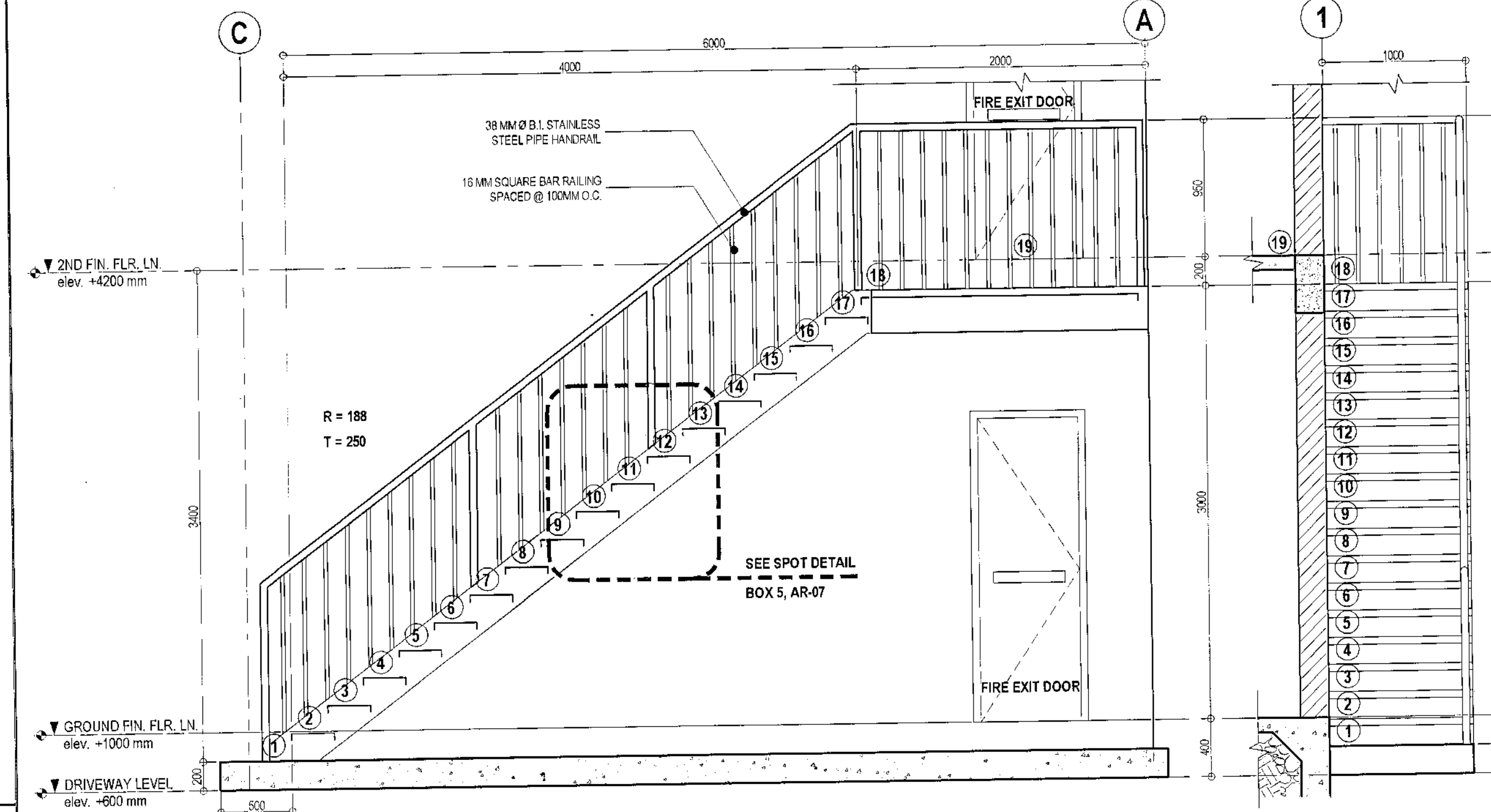
2 MAIN STAIR DETAIL (SECTION)

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS(A3)



3 MAIN STAIR SPOT DETAIL

SCALE 1:10 METERS (20 x 30)
SCALE 1:20 METERS(A3)



6 FIRE EXIT STAIR DETAIL (SECTION)

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS(A3)



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RECOMMENDING APPROVAL

ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.
O.C., CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING
LOCATION: BRGY. STA. MONICA, Q.C.

SHEET CONTENTS:

MAIN STAIR DETAIL(PLAN)
MAIN STAIR DETAIL(SECTION)
FIRE EXIT STAIR DETAIL(PLAN)
FIRE EXIT STAIR DETAIL(SECTION)
SPOT DETAILS

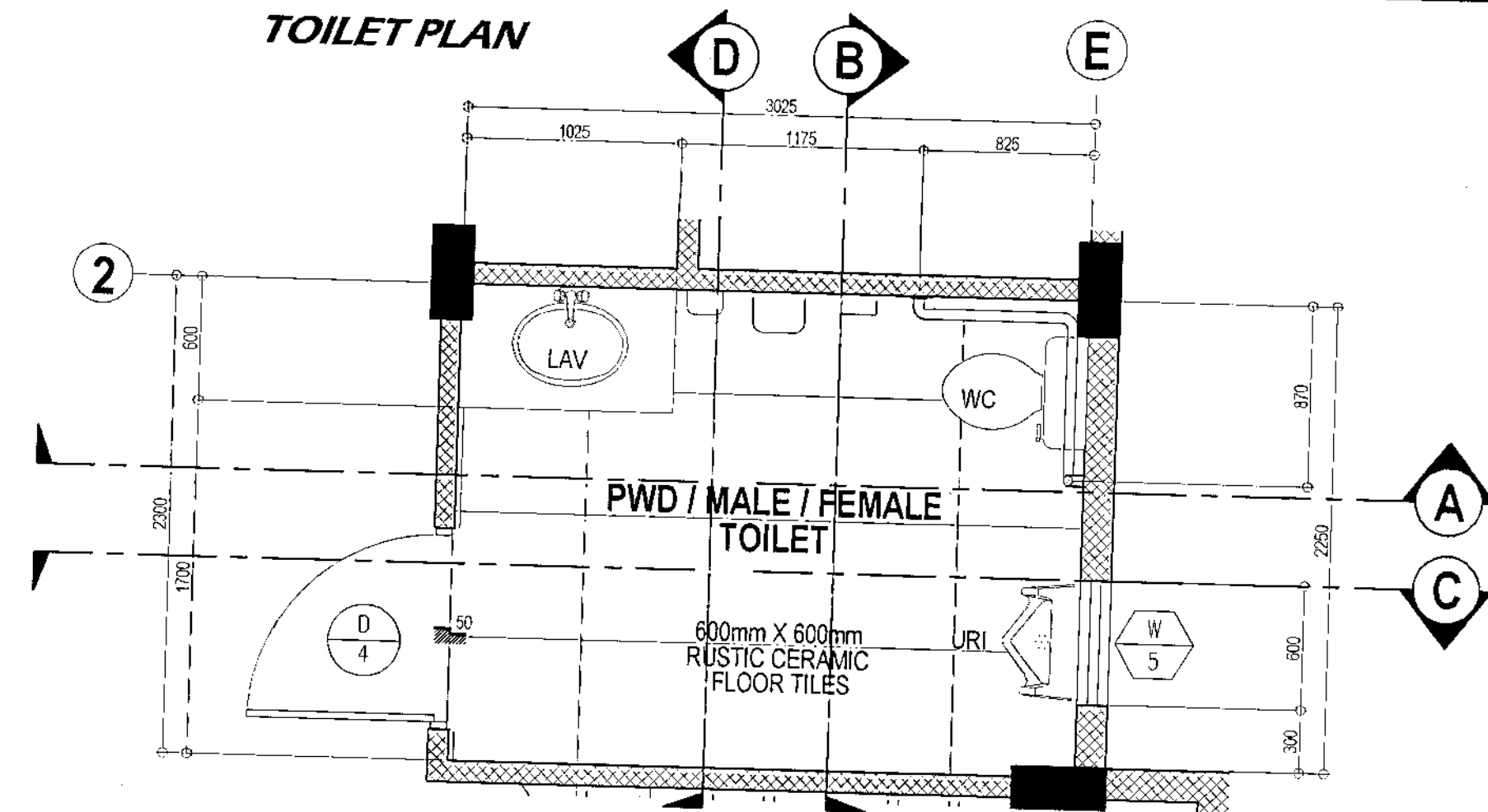
PROJECT NO.:

DATE: October 2020
DRAWN BY: N. N. L./GSDela Cruz
DESIGNED BY: Ar. M. T. Dela Cruz
CHECKED BY: Ar. R. G. Resurreccion

SHEET NO.:

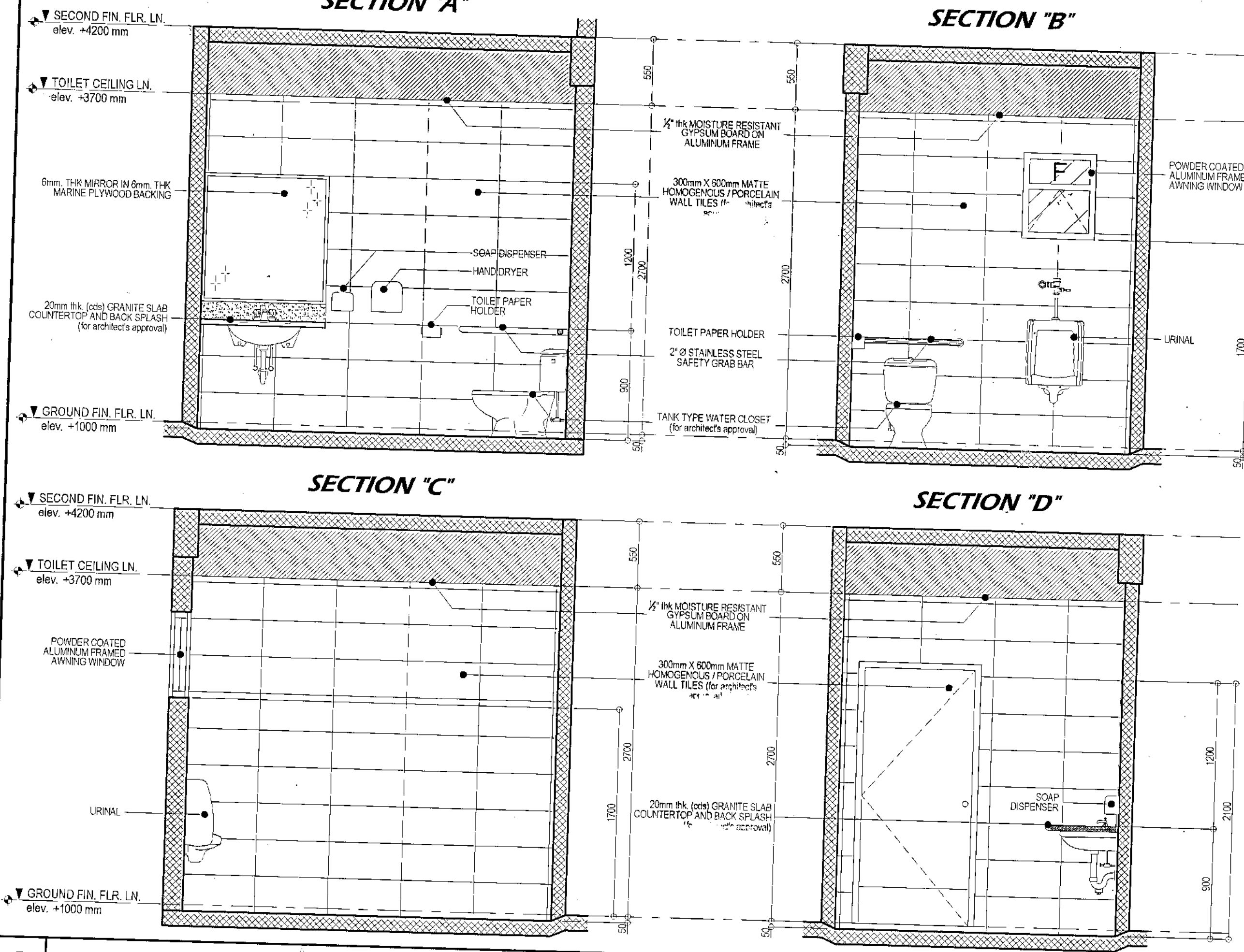
AR-07

TOILET PLAN



SECTION "A"

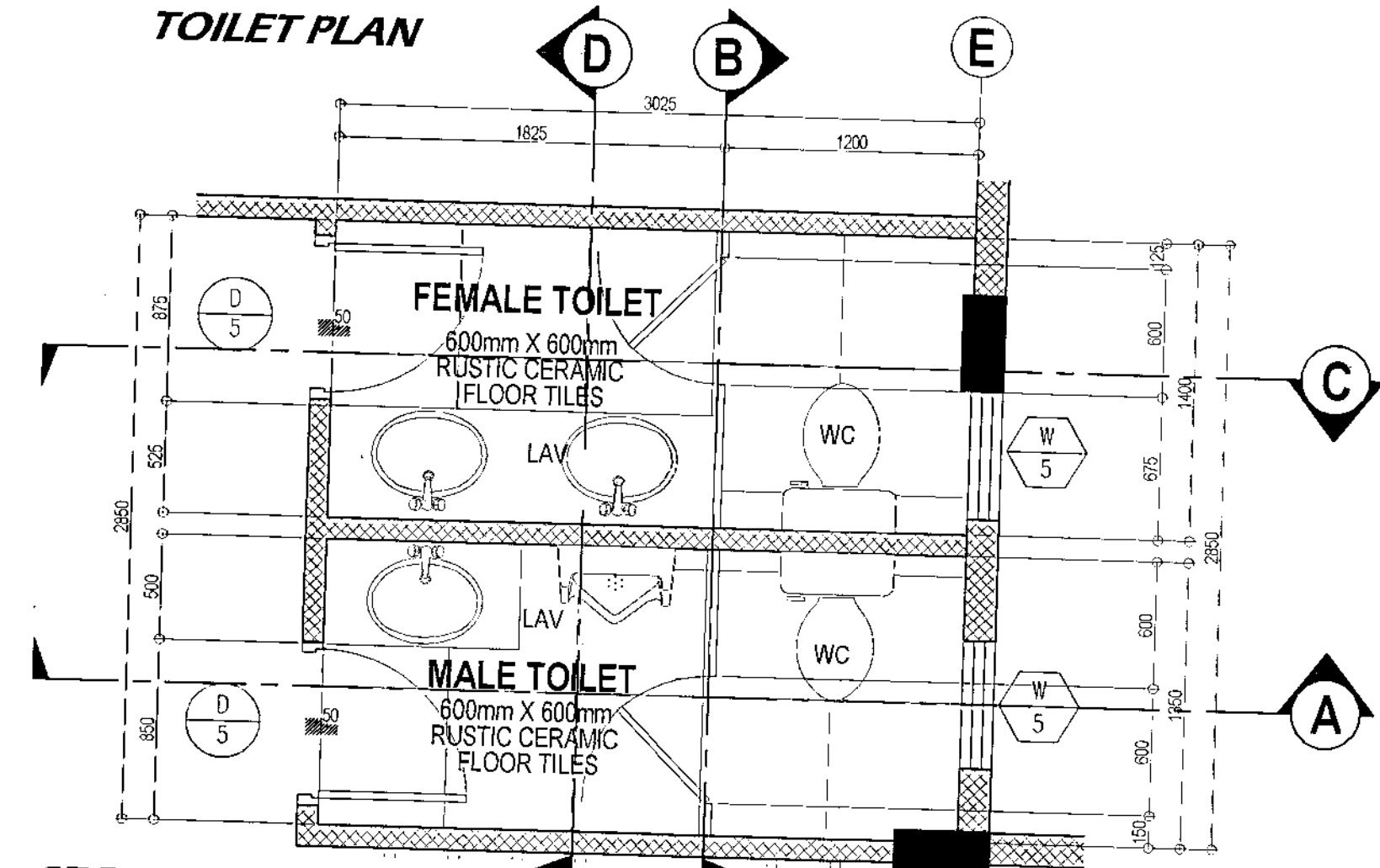
SECTION "B"



1 GROUND FLOOR TOILET DETAILS

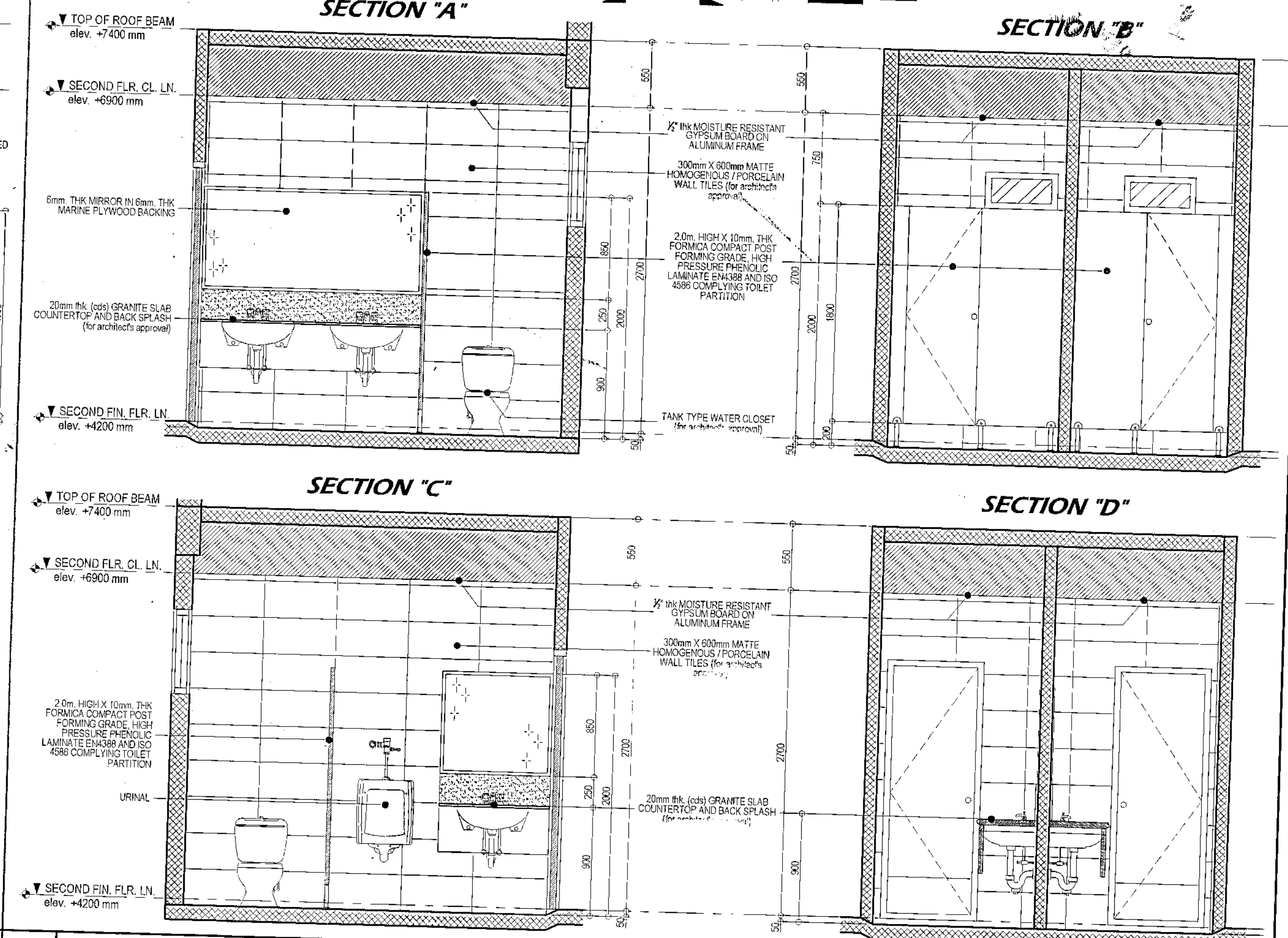
SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS (A3)

TOILET PLAN



SECTION "A"

SECTION "B"



2 SECOND FLOOR TOILET DETAILS

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS (A3)



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5F CIVIC CENTER - D (BRO. Bldg.) QUEZON CITY HALL COMPOUND,
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RECOMMENDING APPROVAL

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CITY ARCHITECT

ENGR. ISAGANI R. VERSOZA JR.
CIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

LOCATION: QUEZON CITY HALL, BRGY. CENTRAL, QC

SHEET CONTENTS:

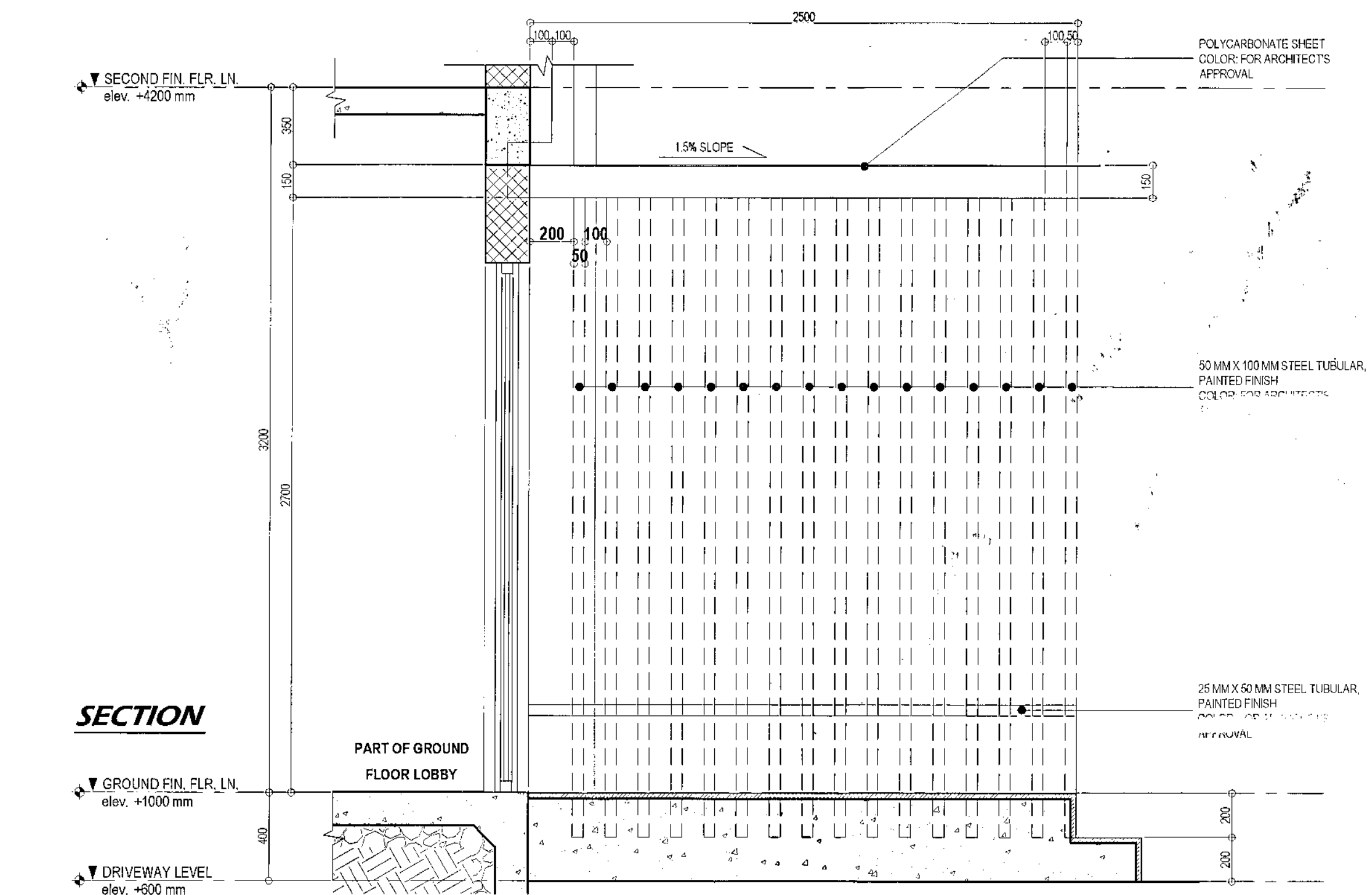
GROUND FLOOR TOILET DETAIL
SECOND FLOOR TOILET DETAIL

PROJECT NO.:

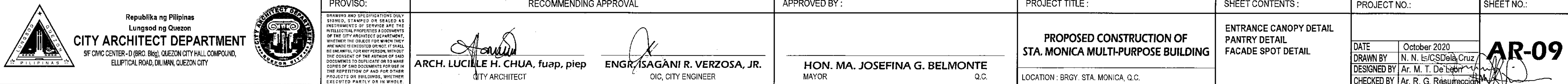
DATE: November 2020
DRAWN BY: N. N. L./CSDela Cruz
DESIGNED BY: Ar. M. T. De Leon
CHECKED BY: Ar. R. G. Resurreccion

SHEET NO.:

AR-08



SCALE 1:20 METERS (20 x 30)
SCALE 1:40 METERS(A3)



- GENERAL NOTES**
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
 - SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE ALL WORK IS TO BEGIN, CHECK WITH MECHANICAL AND ELECTRICAL CONTRACTORS FOR CONDUITS, PIPE SLEEVES, ETC., TO BE EMBEDDED IN CONCRETE.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACING'S OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.
 - IN CASE OF QUESTION ARISING FROM THE INTERPRETATION OF OR CONFLICT WITH OTHER DOCUMENTS, THE ATTENTION OF THE OWNER/ENGINEER SHALL BE CALLED IN WRITING.

CONCRETE AND REINFORCEMENT

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST BUILDINGS CODE OF AMERICAN CONCRETE INSTITUTE (ACI-318).
- ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS WITH CORRESPONDING MAXIMUM SIZE AGGREGATE AND SLUMPS AS FOLLOWS:

LOCATION	STRENGTH	MAX. SIZE OF AGGREGATES	MAXIMUM SLUMP
a. SLAB ON GRADE, CURBS, PAVEMENTS, FOOTING AND WALL FOOTING	3000 PSI (20.685 Mpa)	1 in. (25mm)	4 in. (100mm)
b. BEAMS, COLUMNS AND SUSPENDED SLAB	3000 PSI (20.685 Mpa)	3/4 in. (19mm)	4 in. (100mm)
d. LEAN CONCRETE	2500 PSI (17.24 Mpa)	1 in. (25mm)	4 in. (100mm)

- ALL REINFORCING BARS SHALL CONFORM TO ASTM (A15-625) GRADE 40 FOR 12mm Ø AND SMALLER BARS AND GRADE 60 FOR 16mm Ø AND LARGER BARS.
- IN GENERAL, THE LATEST EDITION OF ACI-315, MANUAL OF STANDARD PRACTICE DETAILING REINFORCED CONCRETE STRUCTURES SHALL BE ADHERED TO UNLESS OTHERWISE SHOWN OR NOTED.
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

CONCRETE DEPOSITED DIRECTLY AGAINST GROUND.....75 mm
SUSPENDED SLABS.....20mm
SLAB ON GRADE.....40mm
WALLS ABOVE GRADE.....25mm
BEAMS AND COLUMNS.....40mm

- SPICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPICE AND ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPICES SHALL BE STAGGERED WHENEVER POSSIBLE.
 - ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
 - CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
 - ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
 - STRIPPING OF FORMS AND SHORES:
- | | |
|---|----------|
| CONCRETE | CURING |
| FOUNDATION | 24 HOURS |
| SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED | 8 DAYS |
| PEDESTALS, COLUMNS AND WALLS | 2 DAYS |
| BEAMS | 21 DAYS |
- DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 60 BAR DIAMETER, UNLESS OTHERWISE NOTED.

CONCRETE AND REINFORCEMENT

- FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 240 KPa.
- FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER UPON COMPLETION OF FOUNDATION EXCAVATION FOR ACTUAL SOIL CONDITIONS WHICH DO NOT CONFORM TO THE SOIL BEARING CAPACITY FOR PROPER REVISION.

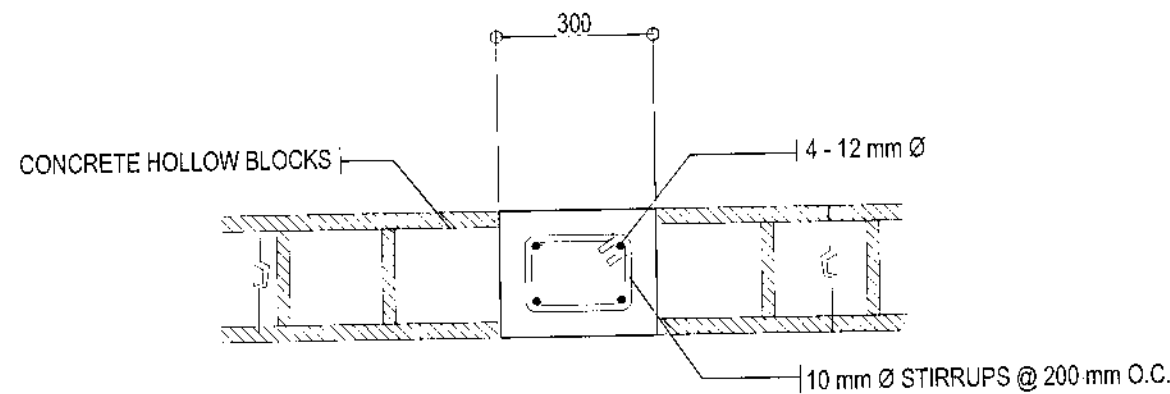
MASONRY WALLS

- ALL MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE W/ THE APPLICABLE STANDARD AND SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES & UNIFORM BUILDING CODE.
- MORTAR & GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 270 - TYPE N AND SHALL HAVE A MINIMUM OF 28 DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 17.5 MPa (2500 PSI).
- ALL CHB SHALL BE LAID OUT WITH THE CELLS IN UNOBSTRUCTED VERTICAL CONTINUITY. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH MORTAR.
- REINFORCEMENT, AS TABULATED BELOW SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN.
- ALL MASONRY WALLS SHALL BE PROVIDED W/ STIFFENER BEAM BLOCK & STIFFENER AS REQUIRED.

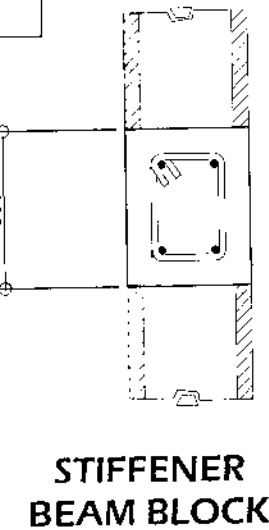
5.1. FOR HIGH WALLS & EVERY 3000 mm & COLUMN (BOLT) AT 3000 mm ON CENTER.

5.2. FOR DOORS & WINDOWS OPENING PROVIDE LINTEL BEAM SAME AS STIFFENER BEAM BLOCK.

BLOCK THICKNESS (mm)	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
100	10mm Ø BARS @ EVERY 3RD LAYER OF CHB	10mm Ø @ 600 mm O.C.	A. MIN. LAP SPICE = 300mm LONG
150	10mm Ø BARS @ EVERY 3RD LAYER OF CHB	10mm Ø @ 600 mm O.C.	B. PROVIDE RIGHT ANGLE REINFORCEMENT @ CORNERS



STIFFENER COLUMN



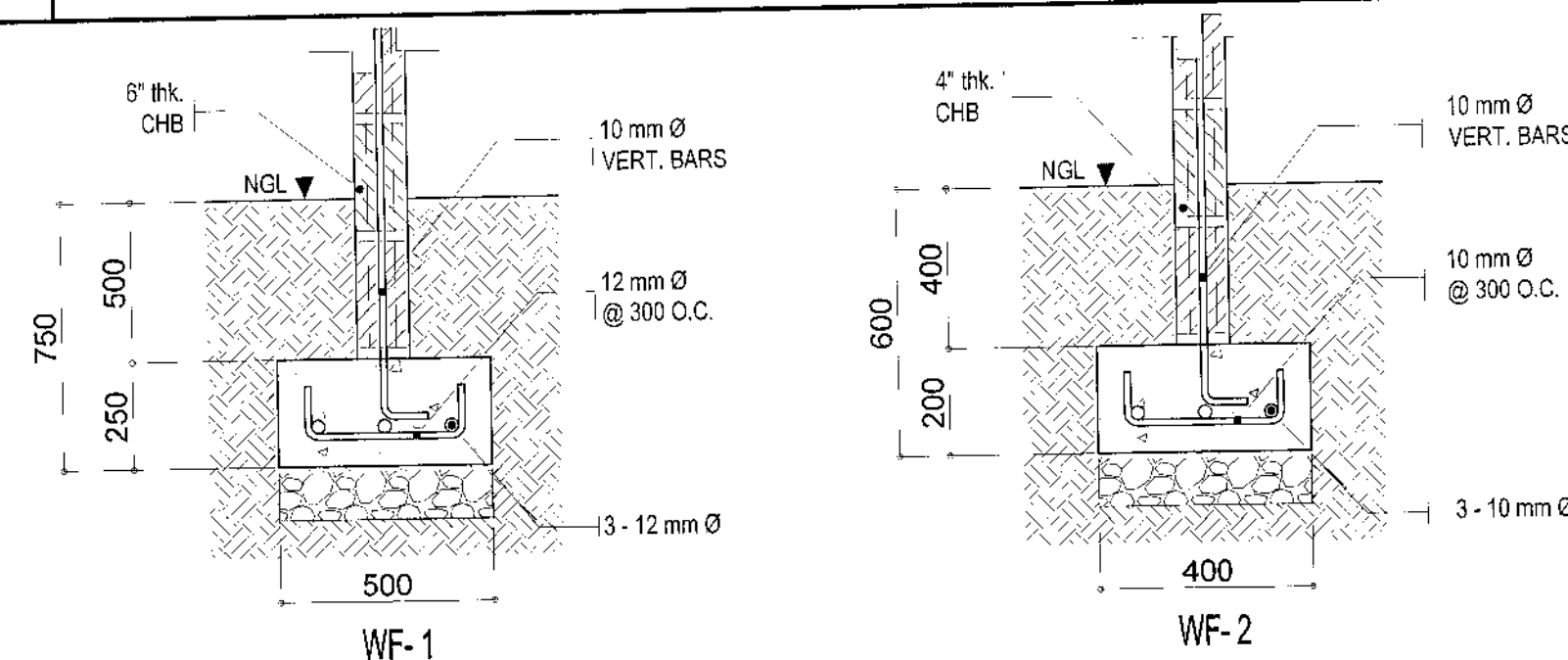
STIFFENER BEAM BLOCK

MARK	C-1 / 2C-1	C-2 / 2C-2
COLUMN SIZE	200 450	175 400
VERTTICAL BARS	10 - 16mmØ	8 - 16mmØ
COL. TIES	2 - 10mm Ø, @ 150 O.C.	2 - 10mm Ø, @ 150 O.C.
JOINT HOOPS	2 - 10mm Ø, @ 100 O.C.	2 - 10mm Ø, @ 100 O.C.
CONF. HOOPS	2 - 10mm Ø, @ 100 O.C.	2 - 10mm Ø, @ 100 O.C.

fc' = 3,000psi

2 SCHEDULE OF COLUMN

NOT TO SCALE



3 DETAIL OF WALL FOOTING

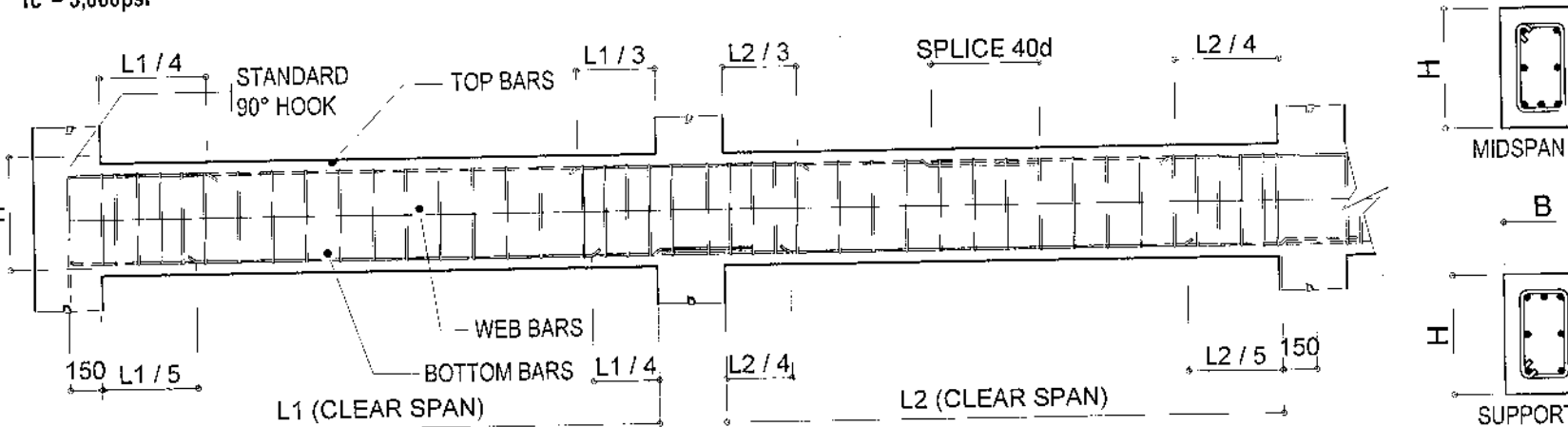
NOT TO SCALE

SCHEDULE OF BEAMS

FLOOR	BEAM MARK	DIMENSIONS		BAR Ø	TOP BARS			BOTTOM BARS			WEB BARS	STIRRUPS 10MMØ
		B(mm)	H(mm)		LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT		
SECOND FLOOR	2B-1	275	500	16	6	2	6	2	6	2	2-10	1 @ 50, 4 @ 100, REST @ 200
	2B-2	250	450	16	5	2	5	2	5	2	-	1 @ 50, 4 @ 100, REST @ 200
	2B-3	225	400	16	4	2	4	2	4	2	-	1 @ 50, 4 @ 100, REST @ 200
	2B-4	200	300	16	3	2	3	2	3	2	-	1 @ 50, 4 @ 100, REST @ 200
	RB	200	350	16	3	2	3	2	3	2	-	1 @ 50, 4 @ 100, REST @ 200

(ACI) EXTEND FROM FACE OF SUPPORT

fc' = 3,000psi



1 STRUCTURAL NOTES

NOT TO SCALE

4 SCHEDULE OF BEAM

NOT TO SCALE

6 DETAIL OF SLAB

NOT TO SCALE

SCHEDULE OF FOOTINGS

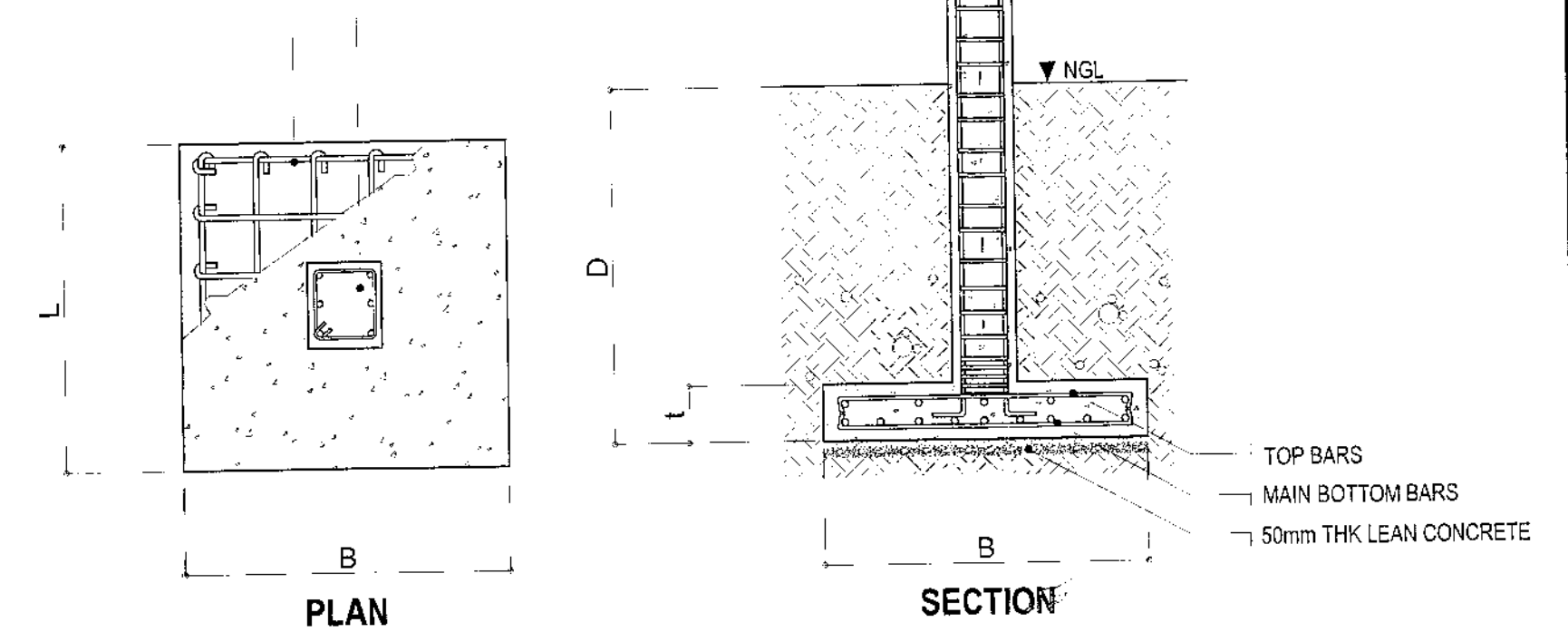
MARK	DIMENSION (mm)			MAIN REINFORCEMENTS		TOP BARS		D	REMARKS
	B	L	t	ALONG B	ALONG L	ALONG B	ALONG L		
FOOTING ONE (F-1)	1500	1500	425	10 - 20 mmØ	10 - 20 mmØ	5 - 12 mmØ	5 - 12 mmØ	2000	SQUARE FOOTING
FOOTING TWO (F-2)	1300	1300	400	9 - 20 mmØ	9 - 20 mmØ	4 - 12 mmØ	4 - 12 mmØ	2000	SQUARE FOOTING

fc' = 3,000psi

NOTES:

- USE SBC - 300KP (ASSUMED)
- NO FOUNDATION SHALL REST ON FILL
- THE CONTRACTOR SHALL CONDUCT SOIL TEST FOR ACTUAL SBC, BEFORE CONSTRUCTION OF FOOTING AND INFORM THE DESIGNER FOR PROPER REVISION.

MAIN BOTTOM BARS | COLUMN

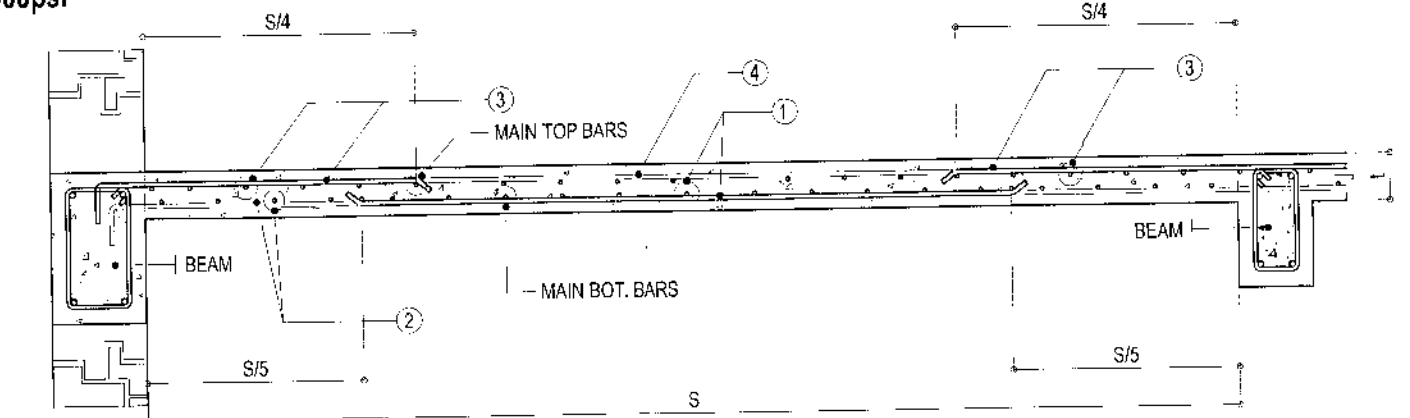


5 SCHEDULE OF FOOTING

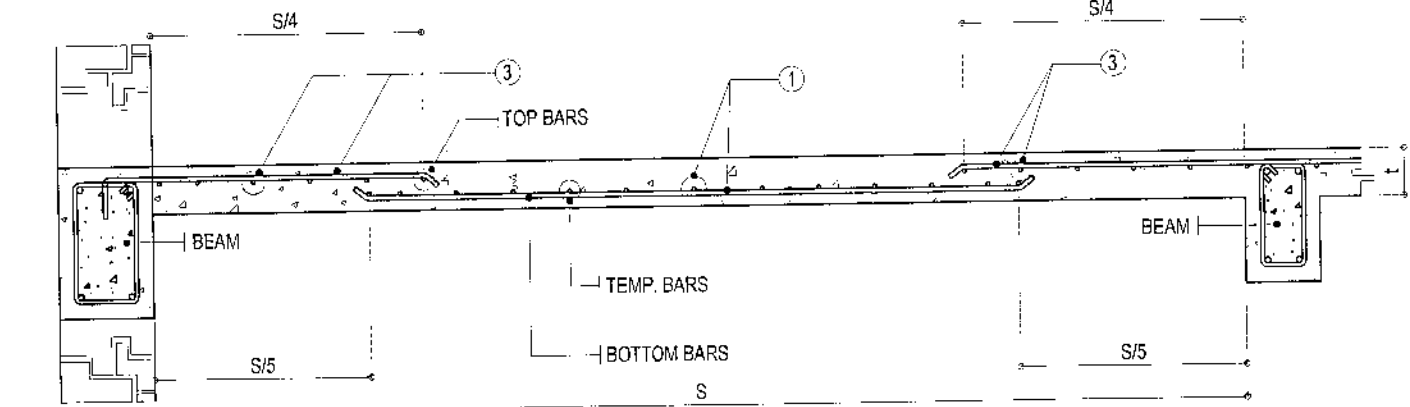
NOT TO SCALE

MARK	t	REINFORCEMENT										REMARKS
				SHORT SPAN				LONG SPAN				
		MAIN BARS	TEMP.	TOP BARS		BOTTOM BARS		TOP BARS		BOTTOM BARS		
				4	3	1	2	4	3	1	2	
S - 1	125	12	10	300	150	150	300	300	150	150	300	TWO-WAY SLAB
S - 2	100	10	10	-	150	150	-	-	150	150	-	ONE-WAY SLAB

fc' = 3,000psi



TYPICAL DETAIL OF TWO-WAY SLABS



TYPICAL DETAIL OF ONE-WAY SLABS



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RECOMMENDING APPROVAL

ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

LOCATION - BRGY. STA. MONICA, Q.C.

SHEET CONTENTS:

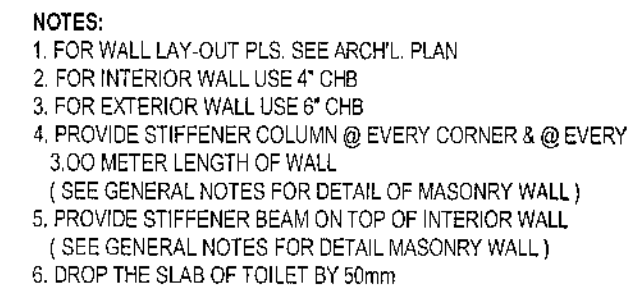
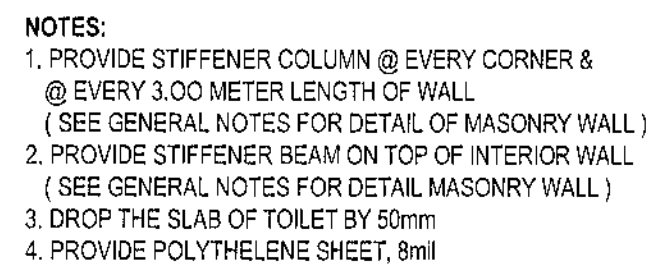
STRUCTURAL NOTES
SCHEDULE OF COLUMN
DETAIL OF WALL FOOTING
SCHEDULE OF BEAM
SCHEDULE OF FOOTING
DETAIL OF SLAB

PROJECT NO.:

DATE: October 2020
DRAWN BY: N. N. L. / CSDelaCruz
DESIGNED BY: Engr. A. Sales
CHECKED BY: Engr. R. Chua

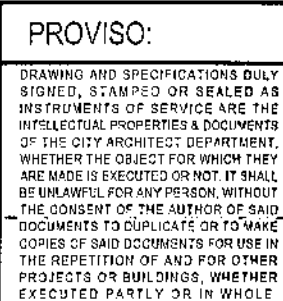
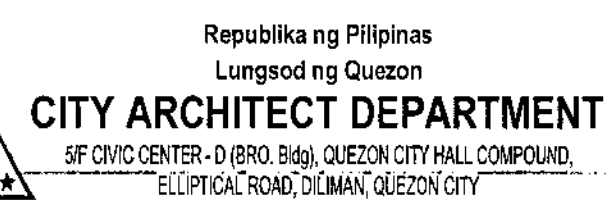
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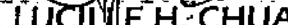

ST-01



SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



RECOMMENDING APPROVAL	
 ARCH. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT	 ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEER

APPROVED BY : _____

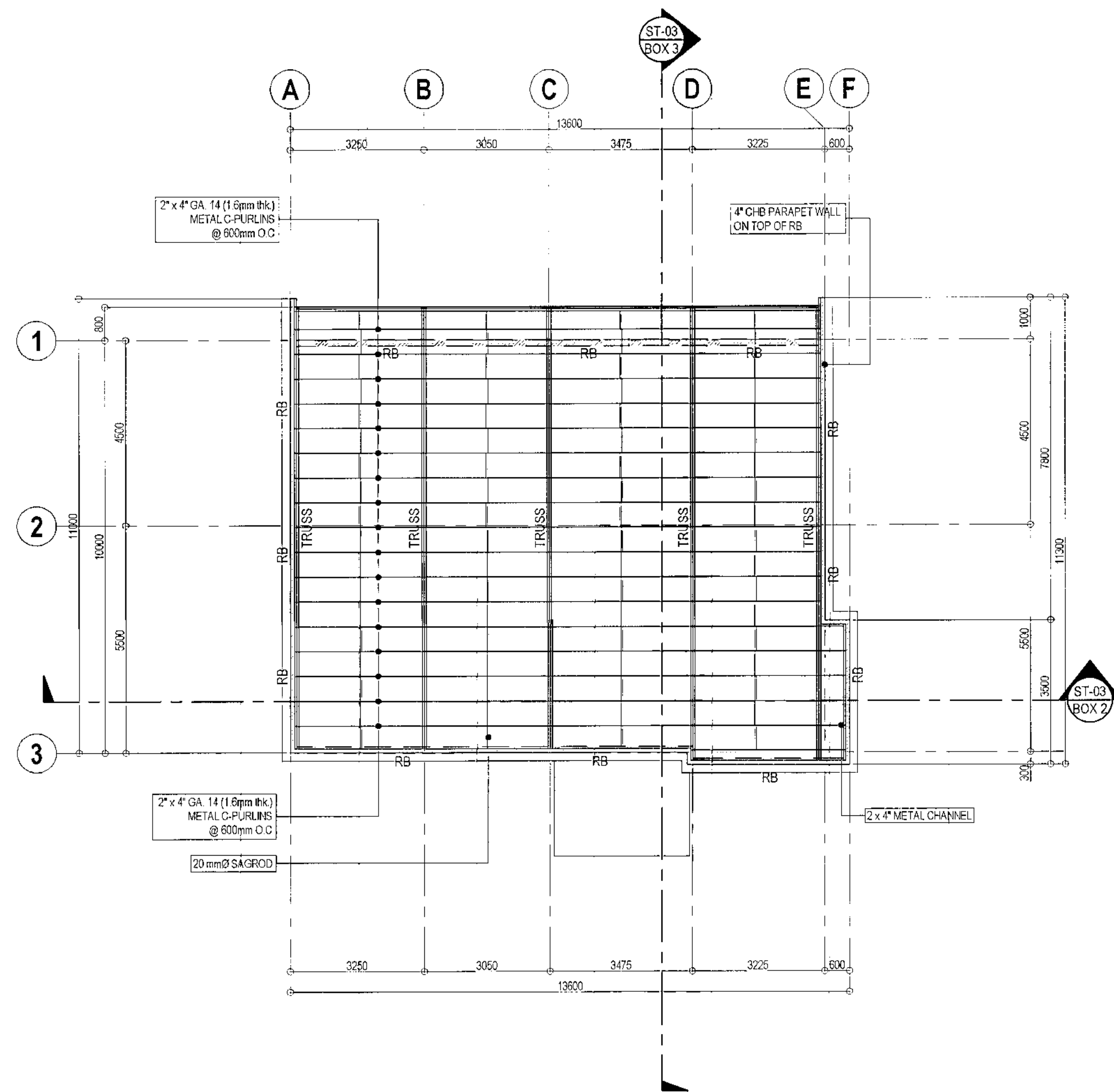
HON. MA. JOSEFINA G. BELMONTE
MAYOR Q.C.

PROJECT TITLE :	
PROPOSED CONSTRU	
STA. MONICA MULTI-PUR	
LOCATION : BRGY. STA. MONICA, Q.C.	

SHEET CONTENTS :
FOUNDATION PLAN SECOND FLOOR FRAMING PLAN

PROJECT NO.:	
DATE	October 2020
DRAWN BY	N.-N.-L./CSDela Cru
DESIGNED BY	Engr. A. Sales
CHECKED BY	Engr. R. Debalos

ST-02

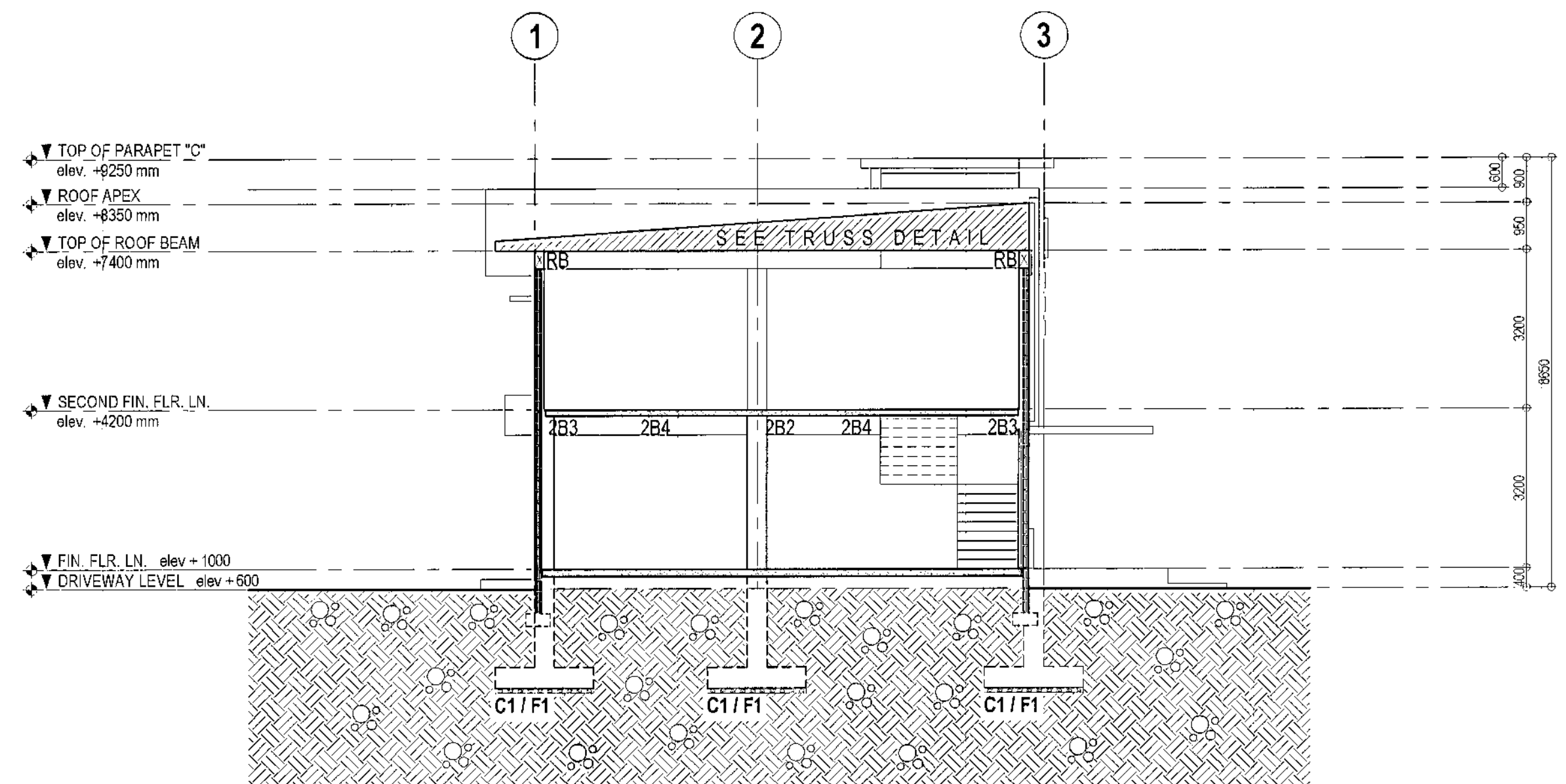
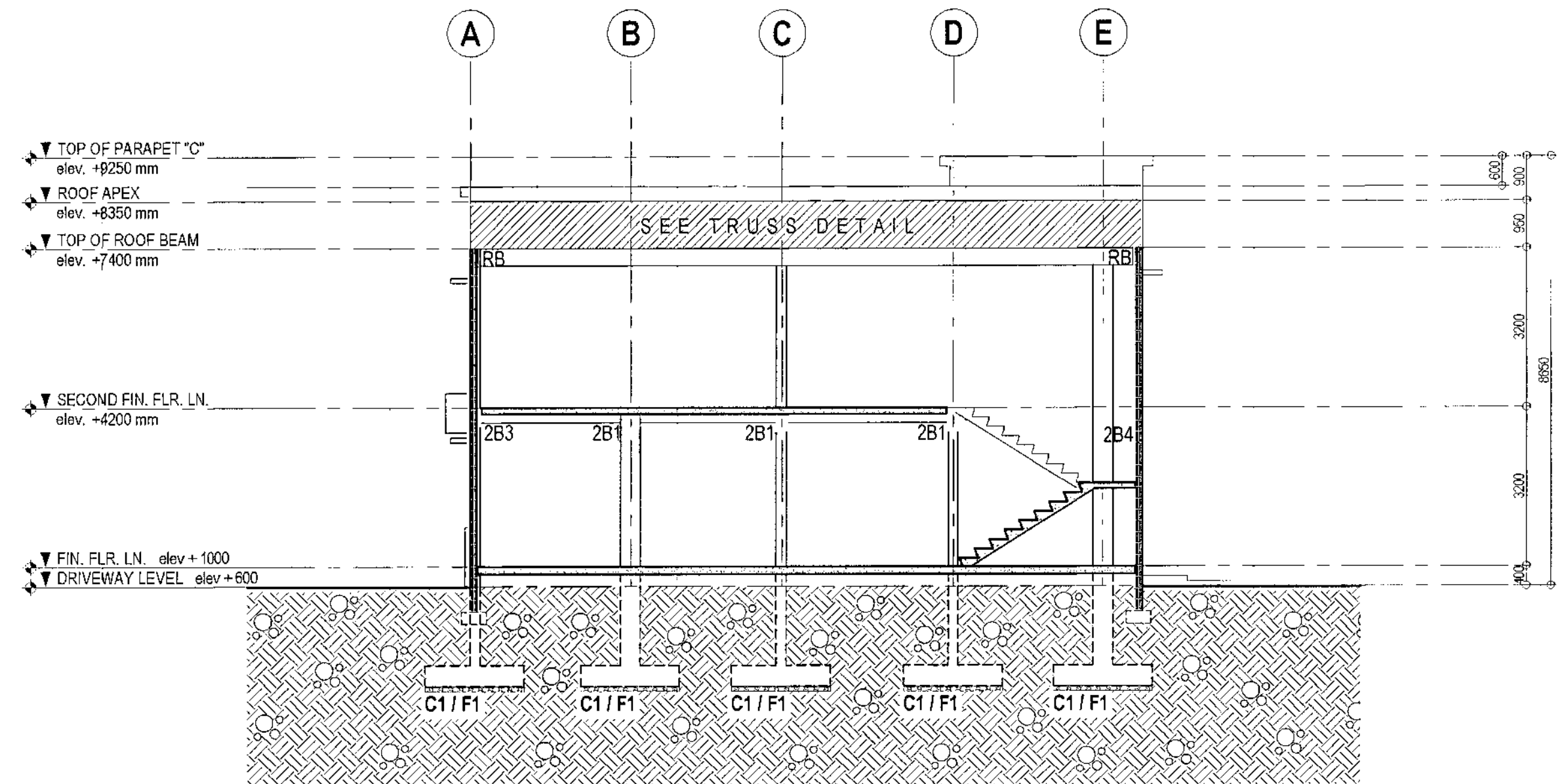


1 ROOF FRAMING PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

2 LONGITUDINAL SECTION

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



3 CROSS SECTION

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
Sf CIVIC CENTER - C (BRG. Bng), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



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DEPARTMENT TO DUPLICATE OR TO MAKE
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THE REPRODUCTION OF AND FOR OTHER
PROJECTS OR BUILDINGS, WHETHER
EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL

Ar. Lucille H. Chua
Ar. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. Isagani R. Verzosa Jr.
ENGR. ISAGANI R. VERZOSA JR.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

PROJECT TITLE:

**PROPOSED CONSTRUCTION OF
STA-MONICA-MULTI-PURPOSE BUILDING**

LOCATION: BRGY. STA. MONICA, Q.C.

SHEET CONTENTS:

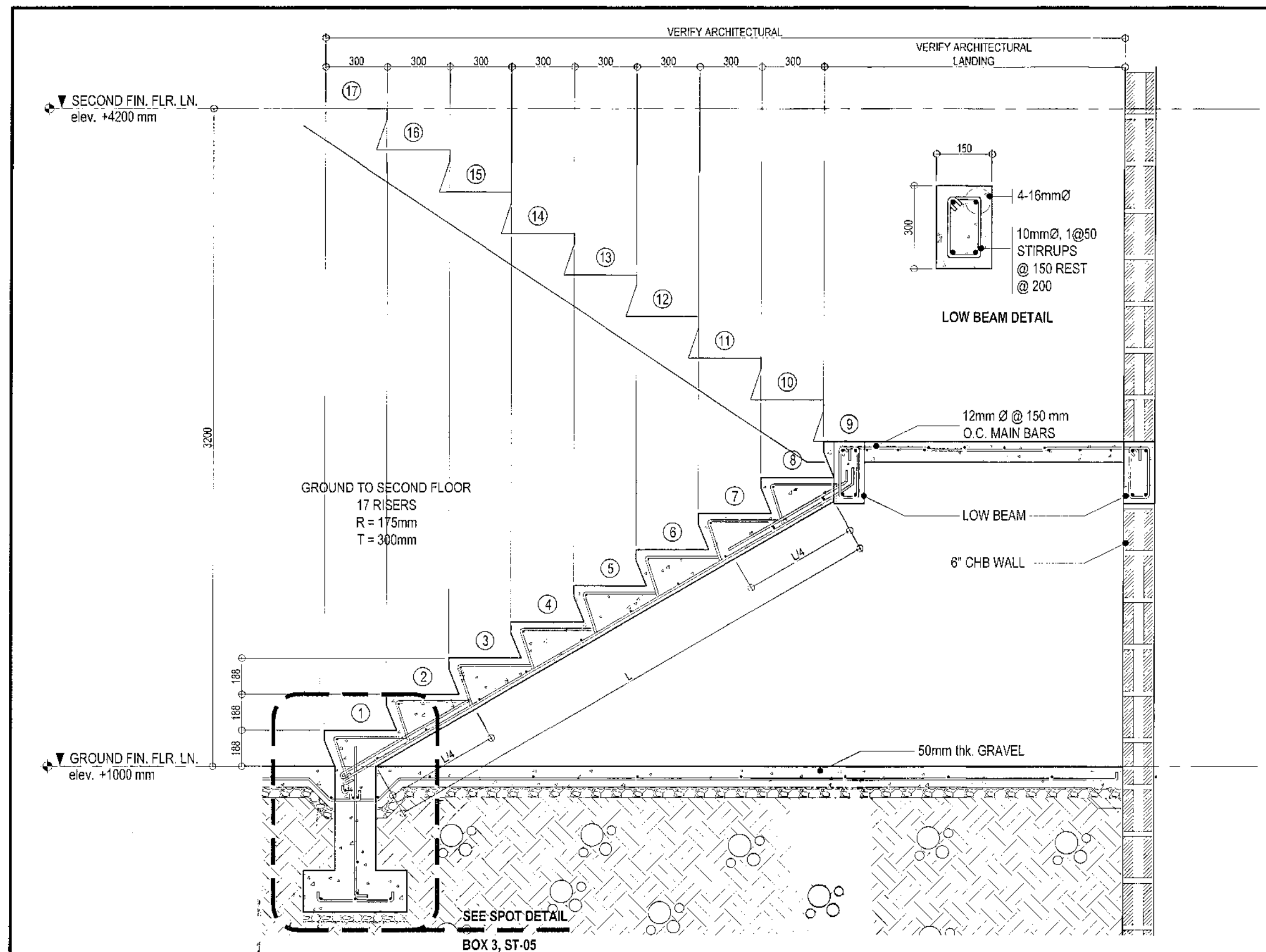
ROOF FRAMING PLAN
LONGITUDINAL SECTION
CROSS-SECTION

PROJECT NO.:

DATE: November 2020
DRAWN BY: N. N. L. / CSDela Cruz
DESIGNED BY: Engr. A. Sales / J. Y.
CHECKED BY: Engr. S. B. B. / J. Y.

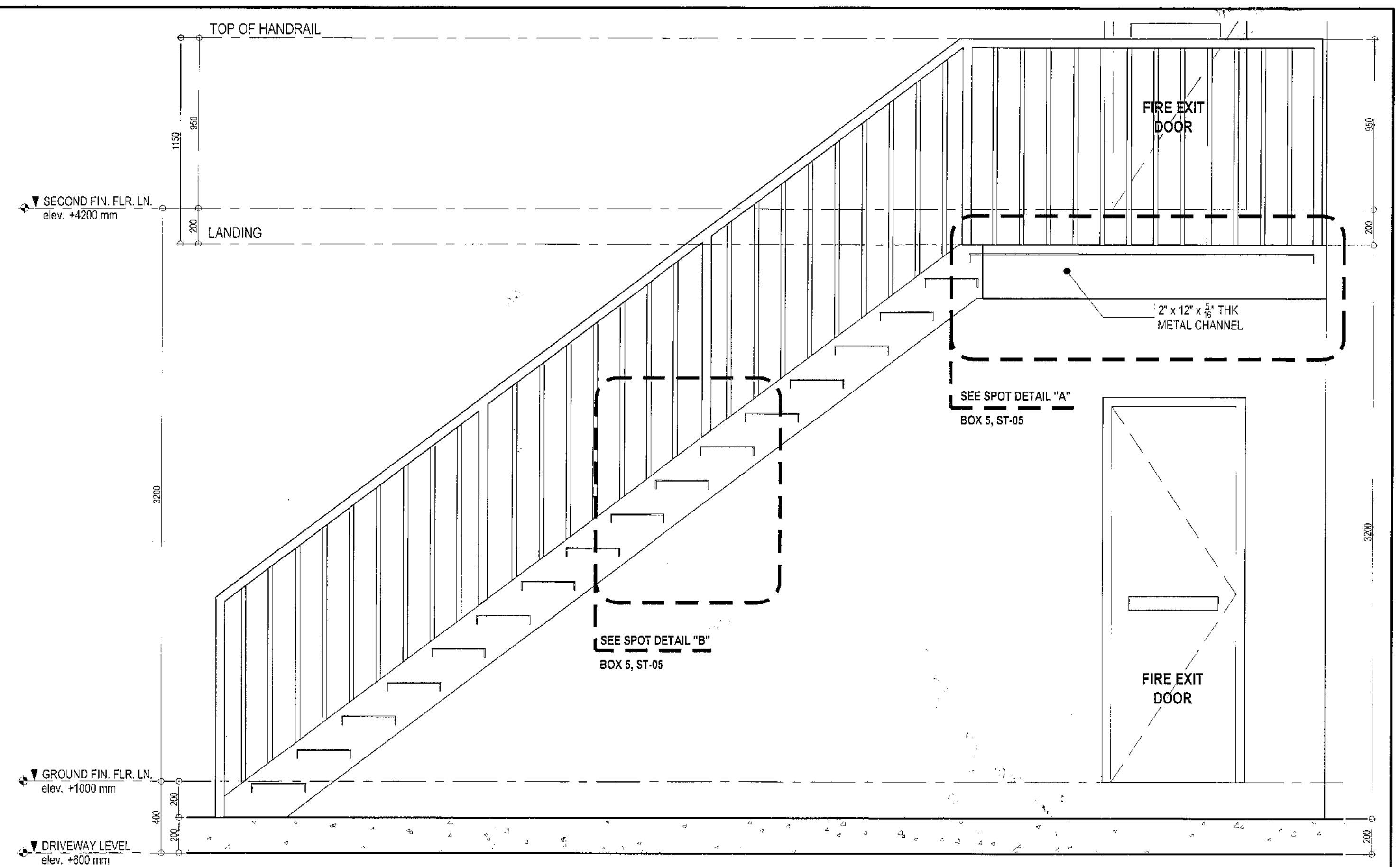
SHEET NO.:

ST-03



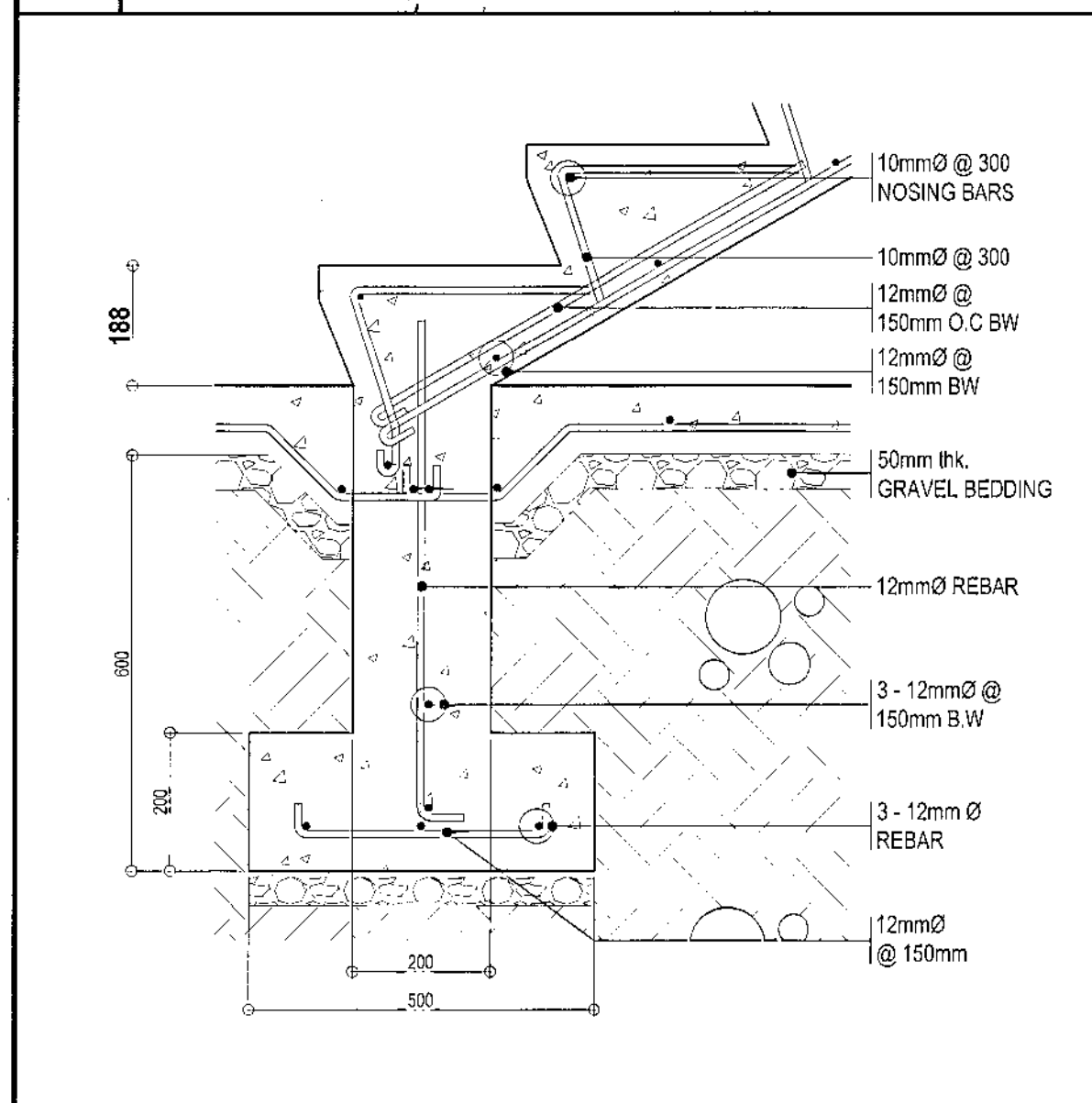
1 MAIN STAIR DETAIL

SCALE 1:20 METERS (20 x 30)
SCALE 1:40 METERS(A3)



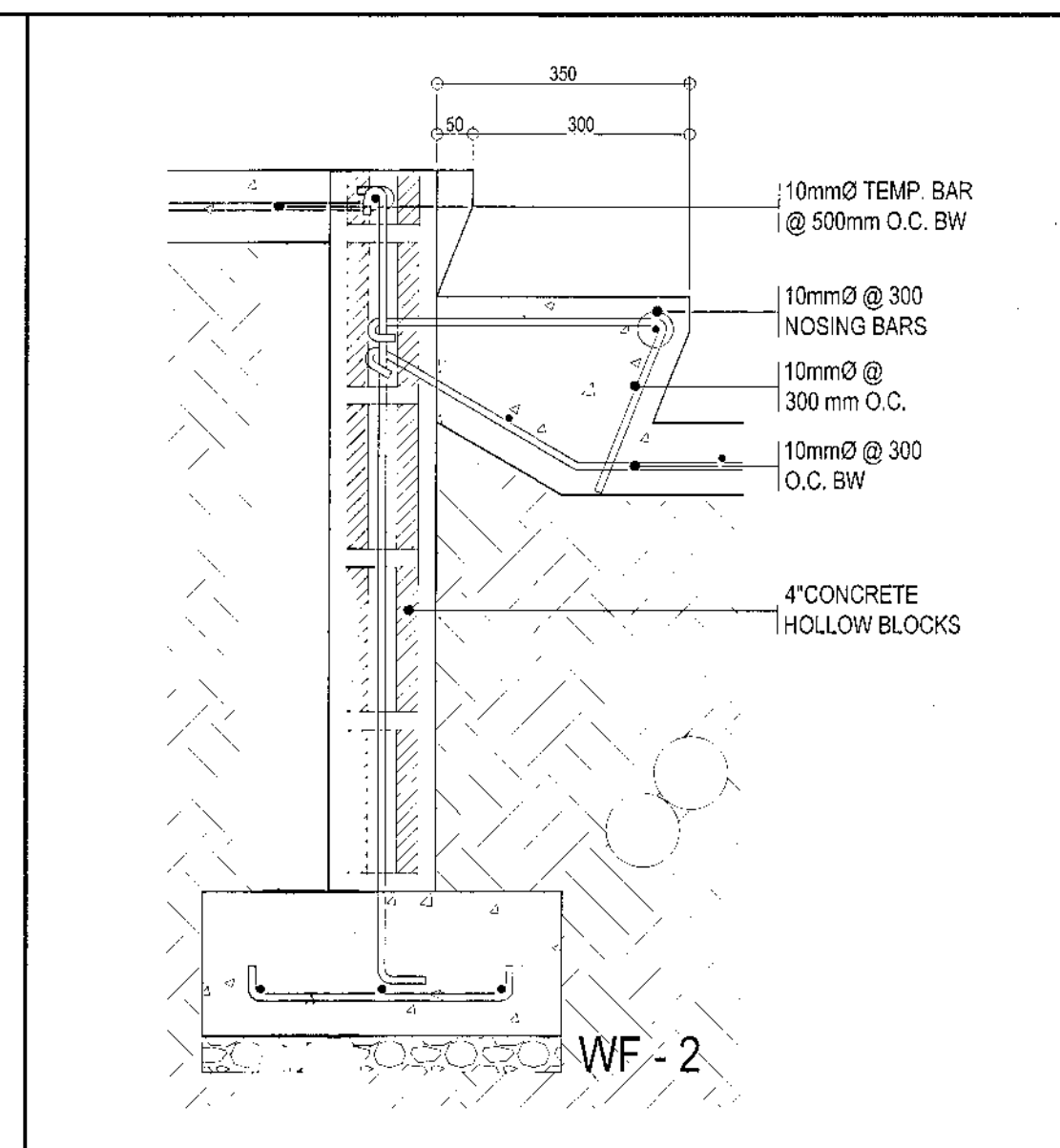
4 FIRE EXIT STAIR DETAIL

SCALE 1:20 METERS (20 x 30)
SCALE 1:40 METERS(A3)



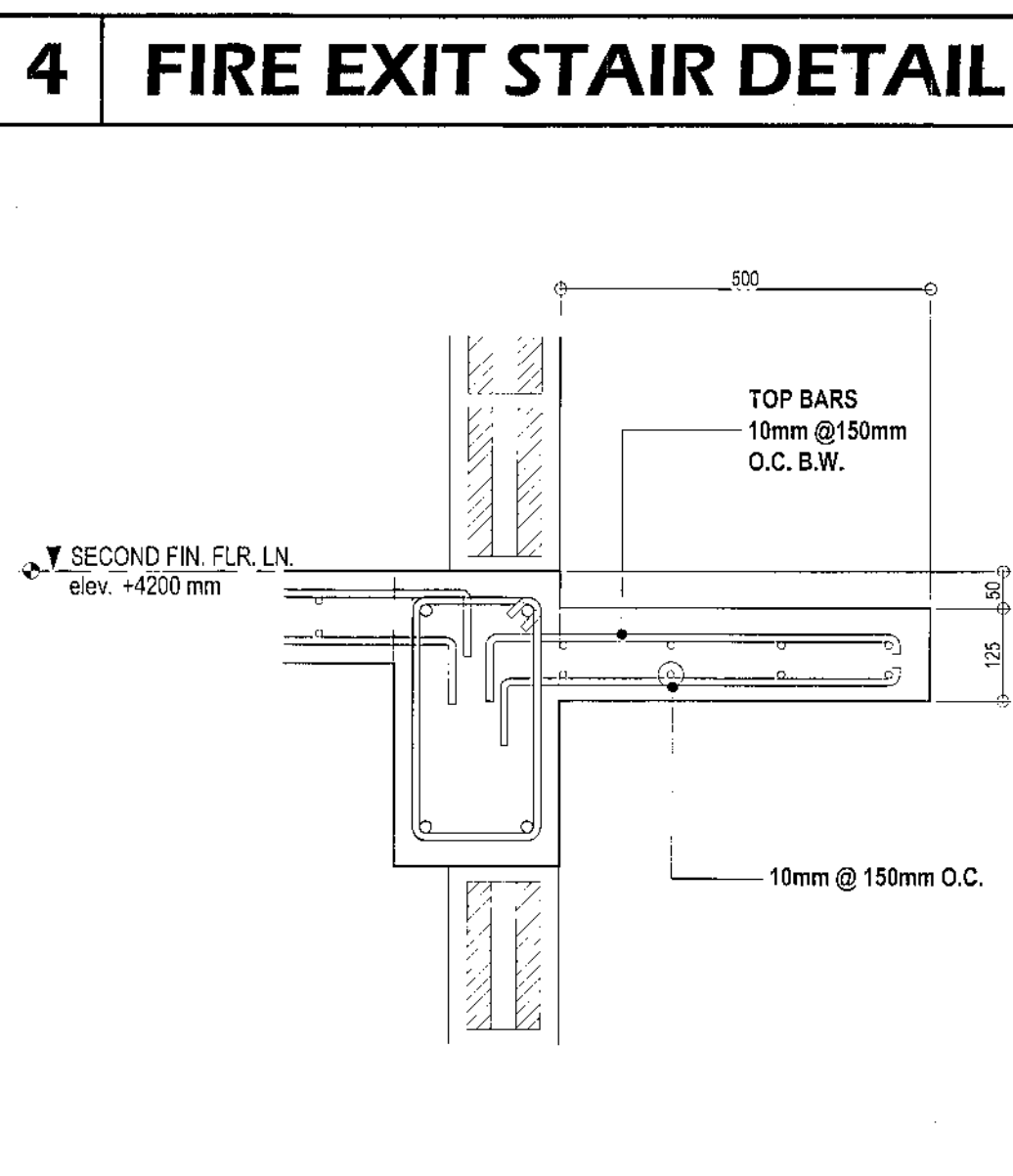
2 MAIN STAIR SPOT DETAIL

SCALE 1:10 METERS (20 x 30)
SCALE 1:20 METERS(A3)



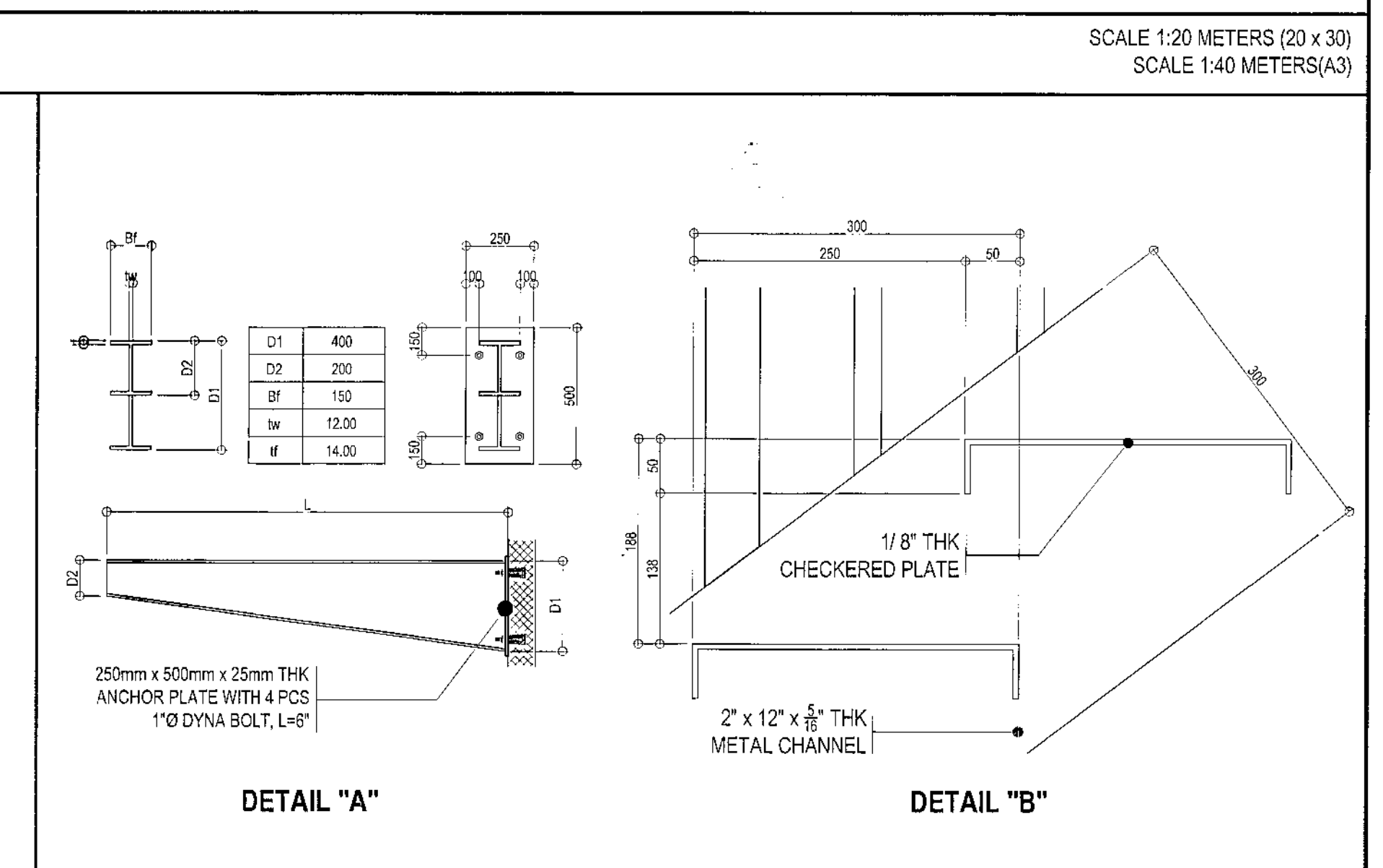
3 ENTRANCE STEPS SPOT DETAIL

SCALE 1:10 METERS (20 x 30)
SCALE 1:20 METERS(A3)



5 CANTILEVER SLAB DETAIL

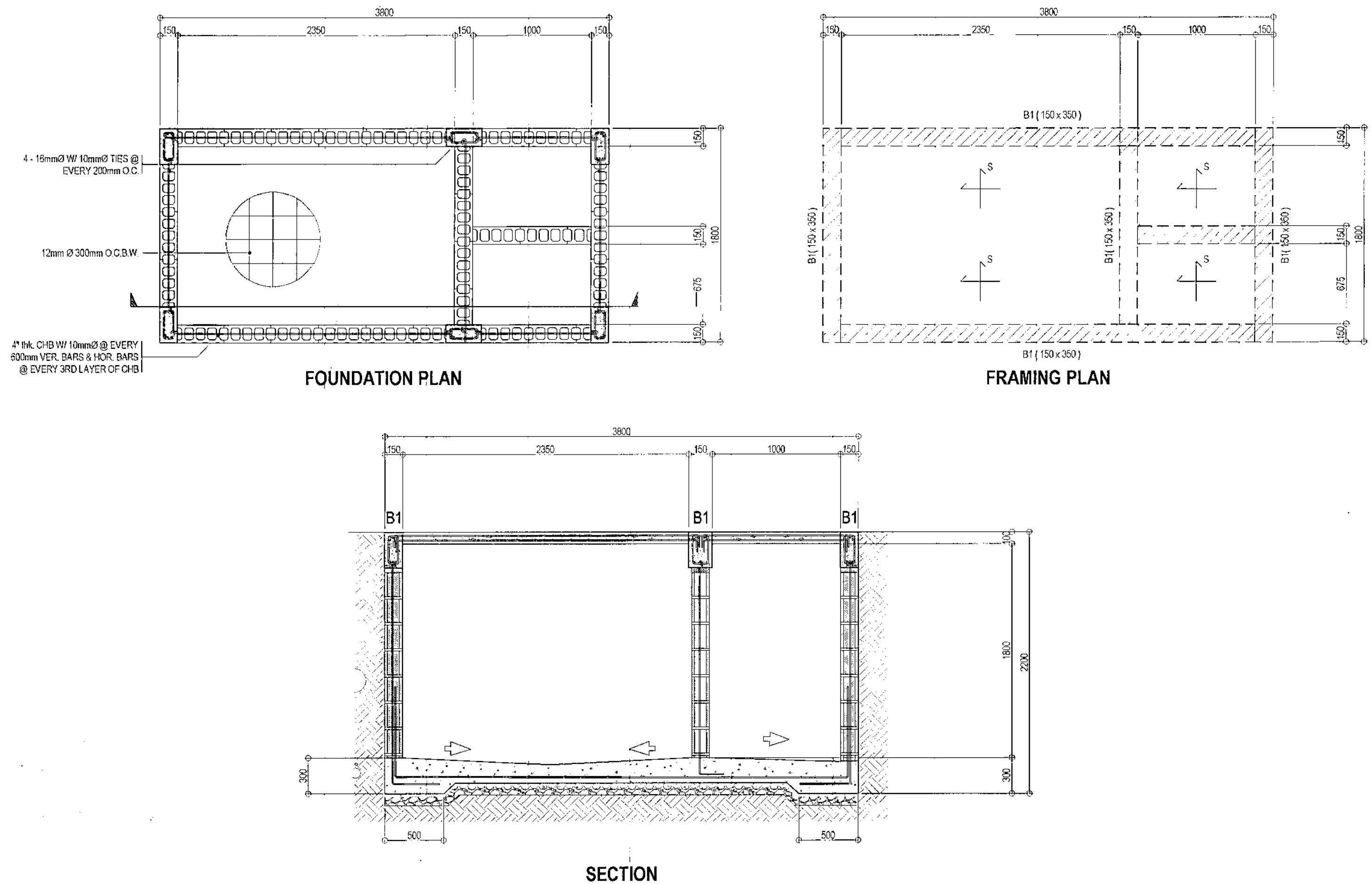
SCALE 1:10 METERS (20 x 30)
SCALE 1:20 METERS(A3)



6 FIRE EXIT STAIR SPOT DETAIL

SCALE 1:10 METERS (20 x 30)
SCALE 1:20 METERS(A3)

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	<p>ST-04</p>						

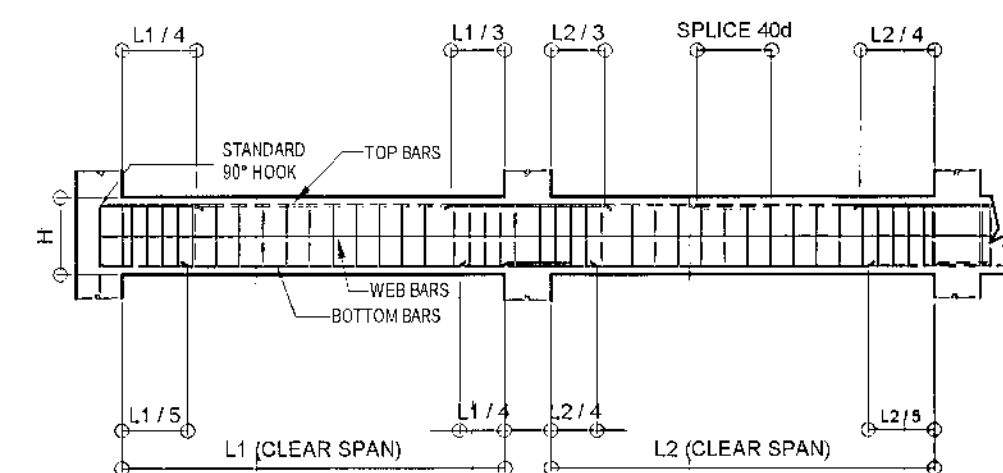
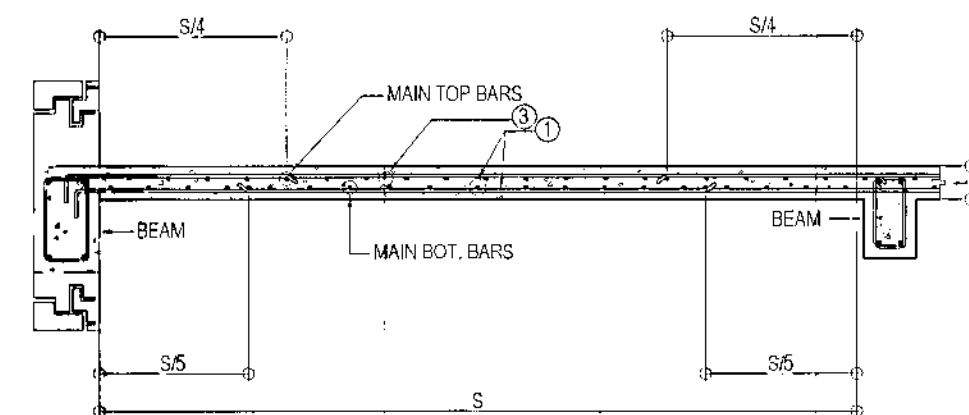


DETAIL OF SLAB

MARK	t	REINFORCEMENT		SHORT SPAN				LONG SPAN				REMARK
		MAIN BARS	TEMP.	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
				4	3	1	2	4	3	1	2	
S	100	10	10	-	150	150	-	-	150	150	-	ONE-WAY SLAB

SCHEDULE OF BEAM

BEAM	DIMENSIONS (mm)		BAR	TOP BARS			BOTTOM BARS			WEB BARS	1 @ 50, 4 @ 100, REST @ 200mm O.C.
MARK	B	H	Ø	LEFT SUPPORT	MIDSPAN	RIGHT SUPPORT	LEFT SUPPORT	MIDSPAN	RIGHT SUPPORT		
B1	150	350	16	4	2	4	2	4	2	-	STIRRUPS 10mmØ



1 SEPTIC TANK DETAIL

SCALE 1:30 METERS (20 x 30)
SCALE 1:60 METERS(A3)

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ST-06

1.

ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.

2.

THE ELECTRIC SERVICE ENTRANCE VOLTAGE SHALL BE 1-PHASE 3 WIRES, 220VOLTS, 60Hz.

3.

THE ELECTRICAL WIRING INSTALLATION SHALL BE DONE IN INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL METALLIC TUBING (EMT), FLEXIBLE CONDUIT SHALL BE USED WHERE REQUIRED. MINIMUM SIZE FOR ALL CONDUIT SHALL BE 15mm NOMINAL INSIDE DIAMETER ELECTRICAL TRADE SIZE. WHERE PVC CONDUITS IS TO BE USED, IT SHALL BE SCHEDULE 40.

4.

ALL WIRES SHALL BE COPPER. TYPE 'THW', 'THHN' OR 'THWN' SHALL BE USED. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING SHALL BE 3.5mm².

5.

THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE SUPPLY ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.

6.

ALL PIPE SLEEVES SHALL BE PROVIDED WITH PROPER SUPPORT OR ANCHORAGE NECESSARY FOR PERMANENT CONNECTION WITH CONCRETE WALLING OR BEAM.

7.

ALL EQUIPMENTS, SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.

8.

ALL 20- AMPERE CIRCUIT HOME RUNS TO PANEL BOARDS MORE THAN 30 METERS IN LENGTH SHALL BE 5.5mm² UNLESS OTHERWISE SPECIFIED.

9.

ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE WITH INTERRUPTING CAPACITY AS INDICATED IN THE PLANS PANEL BOARDS SHALL BE GALVANIZED SHEET POWDER COATED GAUGE 16 MINIMUM. ALL CIRCUIT BREAKER SHALL BE SIEMENS BRAND OR APPROVED EQUIVALENT.

10.

ANY DISCREPANCY IN LOCATION AND RATINGS OF EQUIPMENT AND APPARATUS SHALL BE VERIFIED WITH THE OWNER OR ANY OF HIS REPRESENTATIVES AND CHANGES SHALL BE MADE ACCORDINGLY.

11.

ALL MATERIALS TO BE USED AND THE EQUIPMENT TO BE INSTALLED SHALL BE BRAND NEW AND MUST BE OF THE APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE INTENDED. SUBMIT SAMPLES FOR ARCHITECT APPROVAL.

12.

FOR EACH SPARE BRANCH CIRCUIT IN PANEL BOARD, PROVIDE ONE 20mm DIAMETER EMPTY CONDUIT TERMINATED TO 100mm OCTAGONAL BOX ABOVE CEILING. MINIMUM SIZE OF PULL BOX SHALL BE 150 X 150 X 100.

13.

PROVIDE PULL WIRES IN ALL SPARE DUCT AND EMPTY CONDUITS.

14.

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.

FOR EXACT LOCATION AND RATINGS OF MECHANICAL EQUIPMENTS, REFER TO MECHANICAL DRAWINGS.

16.

SUBMIT TEST RESULTS / REPORT.

17.

PROVIDE SLEEVE PIPES FOR STRUCTURAL CABLING & ADDITIONAL POWER PROVISION

LIGHTING AND POWER PANEL BOARD

MAIN DISTRIBUTION FRAME

INTERMEDIATE DISTRIBUTION FRAME

SWITCH LOCATION

S₃W

3 WAY SWITCH

S

SINGLE POLE SWITCH

S₂,S_{ab}

TWO-GANG SWITCH(2 SINGLE IN 1 SWITCH PLATE)

S₃,S_{abc}

THREE-GANG SWITCH(3 SINGLE IN 1 SWITCH PLATE)

1 X 36W F.F. TROFFER TYPE FIXTURE (1200mm x 300mm)

2 X 18W F.F. TROFFER TYPE FIXTURE (600mm x 600mm)

6"Ø PINLIGHT W/ 1x8W LED BULB, DIMMABLE

SINGLE CONVENIENCE OUTLET W/ 1 x EMERGENCY LIGHT, TWIN HEAD

SINGLE CONVENIENCE OUTLET W/ 1 x EXIT LIGHT SLIM TYPE (SHADE INDICATES EXIT DIRECTION)

WP

WEATHER PROOF CONVENIENCE OUTLET

DUPLEX CONVENIENCE OUTLET W/ GROUND (UNIVERSAL TYPE)

SPECIAL PURPOSE/ ACU OUTLET

EXHAUST FAN, CEILING MOUNTED

ECB

ENCLOSED CIRCUIT BREAKER

BULLET HD CCTV CAMERA

DOME HD CCTV CAMERA

SPECIAL PURPOSE OUTLET/ACU OUTLET

JUNCTION BOX

PPA

CIRCUIT HOMERUN TO PANELBOARD

DC

DC POWER SUPPLY FOR FIRE ALARM (LOCATED @ G/F-ELECTRICAL ROOM)

SIMPLEX LAN OUTLET , 1-DEVICE

DUPLEX LAN OUTLET (VOICE 4- DATA), 2-DEVICE

SIMPLEX OUTLET FOR WIRELESS ACCESS POINT

NORTH

SITE

SANTA LUCIA

palmera homes

Sta. Monica

Vanocan

Dayan St

Lakewood St

San Juan

Agapang Tuguegarao

T. Calderon

P. Oatanga

T. Alarcon

1

GENERAL NOTES

2

LEGENDS AND SYMBOLS

3

VICINITY MAP

NOT TO SCALE

PANEL: LPP

MAIN: 300AT, 300AF, 2P

35KAIC, 240V, MCCB

CKT NO.	VOLTS	OUTLET		OTHER LOAD SERVICE	AMPERE LOAD (1Ø)	VOLT AMPERE	CIRCUIT BREAKER	SIZE OF WIRE
		LO	CO					
1	220	20			9.09	2000	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
2	220	19		1 - Exhaust Fan	9.30	2050	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
3	220	18			8.18	1,900	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
4	220	20		2 - Exhaust Fan	10.45	2,300	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
5	220		10	2 - Emergency Light	9.82	2,160	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
6	220		8	3 - Emergency Light / 1 - Exit Light	9.82	2,160	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
7	220		8	2 - Emergency Light / 2 - Exit Light	9.82	2,160	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
8	220		6	3 - Emergency Light / 1 - Exit Light	9.18	1,900	20AT, 2P, Bolt-On	2 - 3.5mm² THHN + 1 - 2.0mm² THW (G) in 20mmØ PVC
9	220			3Hp Aircon	17.00	3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² THW (G) in 25mmØ PVC
10	220			3Hp Aircon	17.00	3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² THW (G) in 25mmØ PVC
11	220			1.0Hp Aircon	8.00	1,840	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
12	220			1.0Hp Aircon	8.00	1,840	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
13	220			3.0Hp Aircon	17.00	3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² THW (G) in 25mmØ PVC
14	220			3.0Hp Aircon	17.00	3,910	40AT, 2P, Bolt-On	2 - 8.0mm² THHN + 1 - 5.5mm² THW (G) in 25mmØ PVC
15	220			IDF Power Provision	6.82	1,500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
16	220			CCTV Power Provision	6.82	1,500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
17	220			Audio Power Provision	6.82	1,500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
18	220			Sigange Power Provision	6.82	1,500	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
19	220			Perimeter Lightings	9.09	2,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
20	220			Perimeter Lightings	9.09	2,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
21	220			Perimeter Lightings	9.09	2,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
22	220			Perimeter Lightings	9.09	2,000	30AT, 2P, Bolt-On	2 - 5.5mm² THHN + 1 - 3.5mm² THW (G) in 20mmØ PVC
23	220			Spare	6.82	1,500	30AT, 2P, Bolt-On	
24	220			Spare	6.82	1,500	30AT, 2P, Bolt-On	
TOTAL					239.77	52,750		

$I_T = 239.77 + (17.00 \times 0.25) = 244.02 \text{ AMPS.}$

Feeder Line:
Use: 2 - 150mm² THHN + 1 - 38mm² THW (G) in 80mmØ IMC / X150

SERVICE ENTRANCE

SINGLE PHASE 3 WIRES WITH NEUTRAL

220 V 60 HZ BY MERALCO

KWHR. METER BY MERALCO

MCB

300AT, 2P

LPP

GROUND FLOOR

15mmØ X 3000mm

GROUNDING ROD

ELECTRICAL RISER DIAGRAM

X 150

X 150

1 - HC

2 - DUPLEX NODES

2 x 25 mm Ø PVC

DISTRIBUTION FRAME (DF)

5 x 25 mm Ø PVC

5 - HC

2 - DUPLEX NODES

9 - SIMPLEX NODES

2 x 50 mm Ø EMPTY PVC CONDUIT

(TO SHARE W/ ELECTRICAL SERVICE ENTRANCE COLUMN)

INCOMING TELECOM SERVICE PROVIDER

VOICE AND DATA RISER DIAGRAM

2 x 1.25 mm² TF WIRE + 1 x RG 6

COAX CABLE IN ¾ inch Ø PVC

SECOND FFL

2 x 1.25 mm² TF WIRE + 2 x RG 6

COAX CABLE IN ¾ inch Ø PVC

32" LED DISPLAY

8 - CHANNEL DVR

IN LOCK BOX

UPS

GROUND FFL

CCTV RISER DIAGRAM

4

ELECTRICAL LOAD SCHEDULE

5

RISER DIAGRAM

NOT TO SCALE

Republike ng Pilipinas

Lungsod ng Quezon

CITY ARCHITECT DEPARTMENT

SIF CIVIC CENTER - D (BRO. BKG), QUEZON CITY HALL COMPOUND,

ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

PROVIDO:

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RECOMMENDING APPROVAL

ARCH. LUCILE H. CHUA, fuap, piep

CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.

OIC, CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE

MAYOR

Q.C.

PROJECT TITLE :

PROPOSED CONSTRUCTION OF

STA. MONICA MULTI-PURPOSE BUILDING

LOCATION : BRGY. STA. MONICA, Q.C.

SHEET CONTENTS :

GENERAL NOTES

LEGENDS AND SYMBOLS

VICINITY MAP

ELECTRICAL LOAD SCHEDULE

RISER DIAGRAM

PROJECT NO.:

October 2020

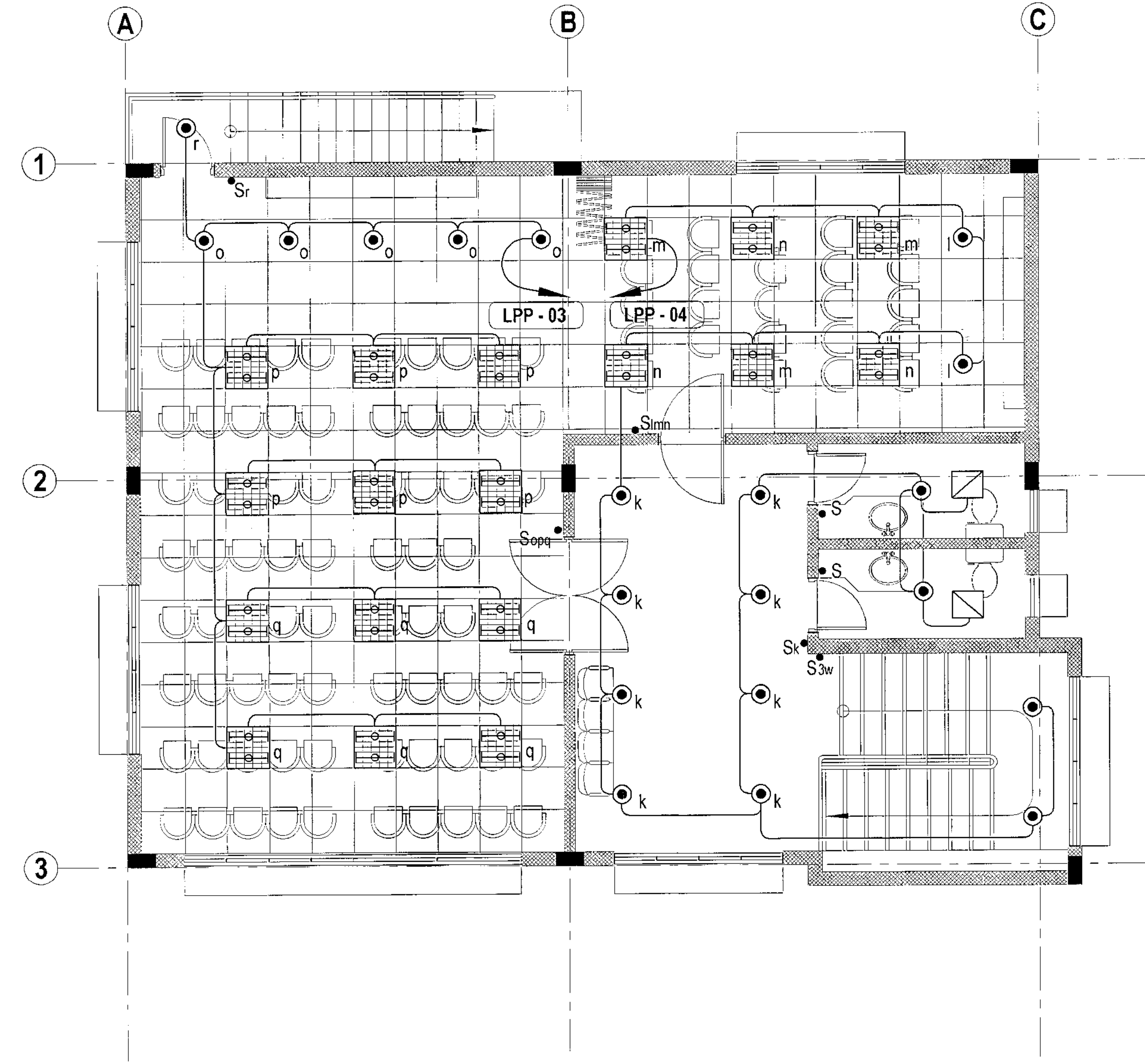
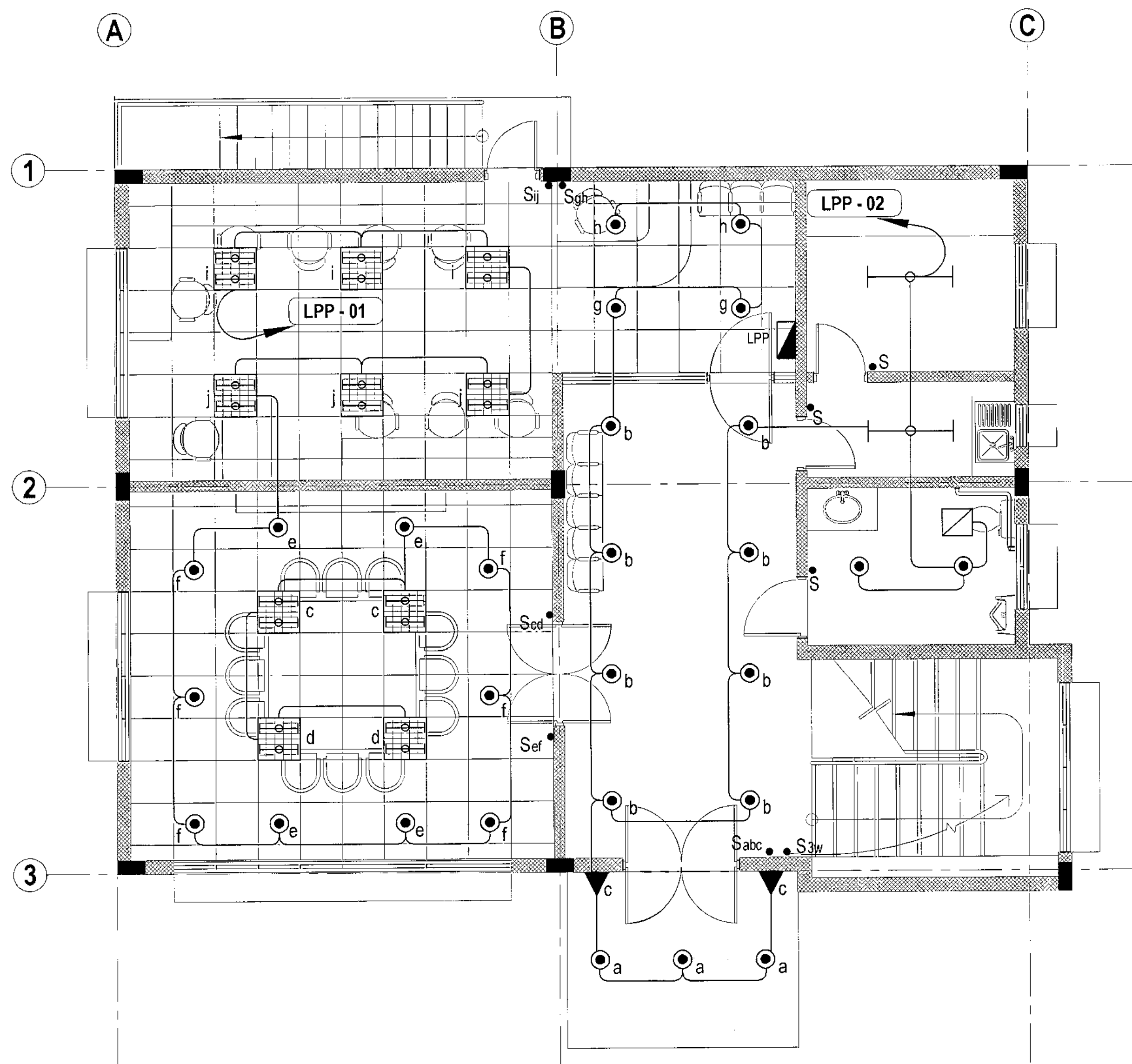
N. N. L./CSDela Cruz


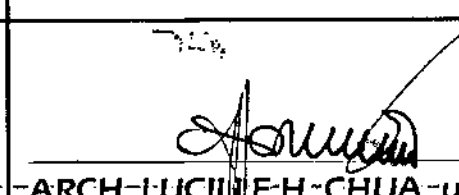
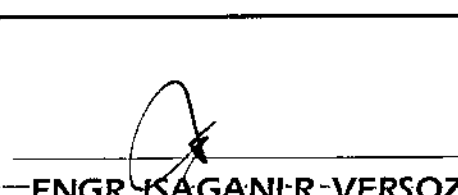
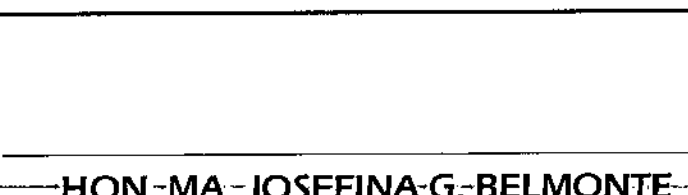
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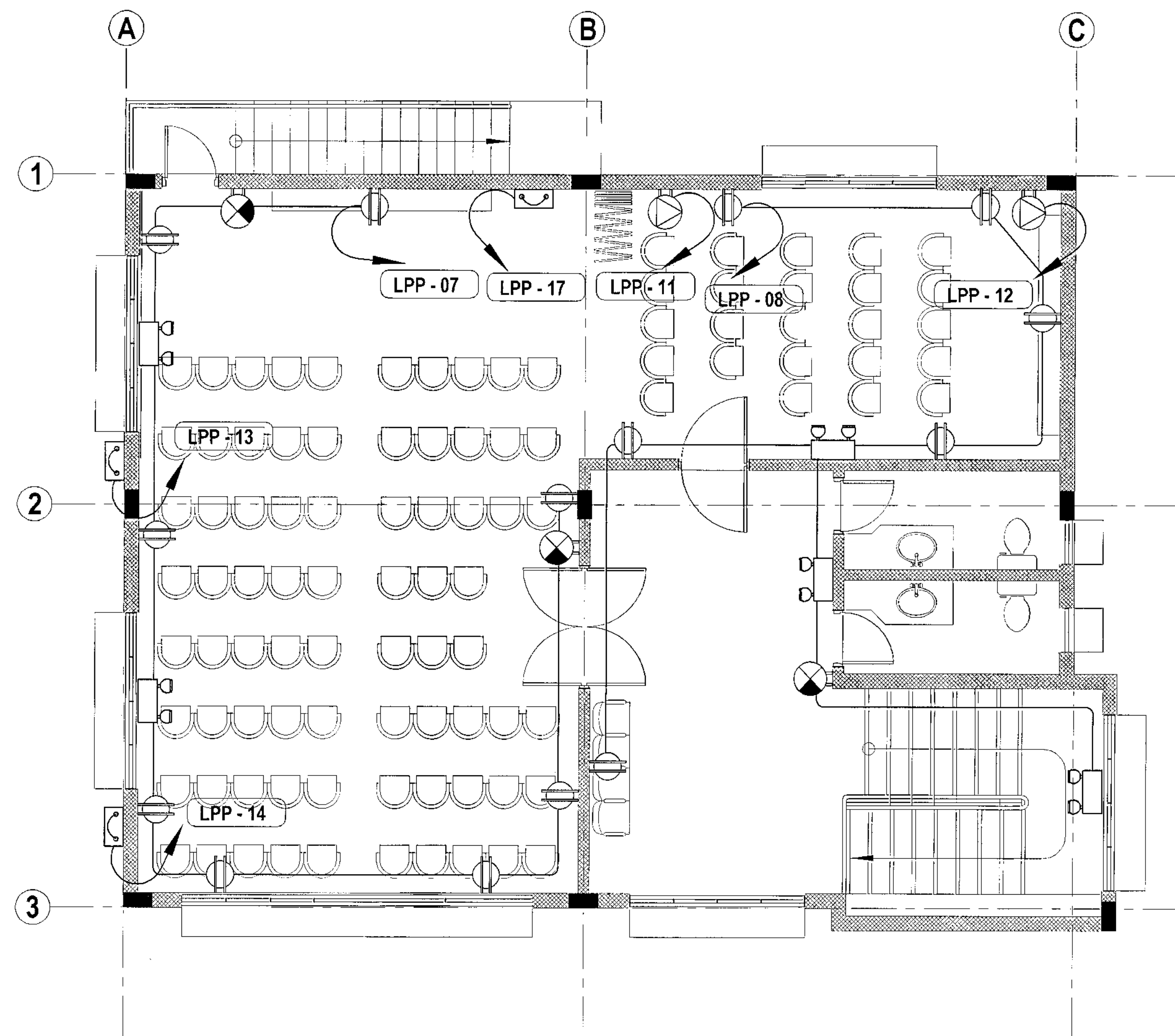
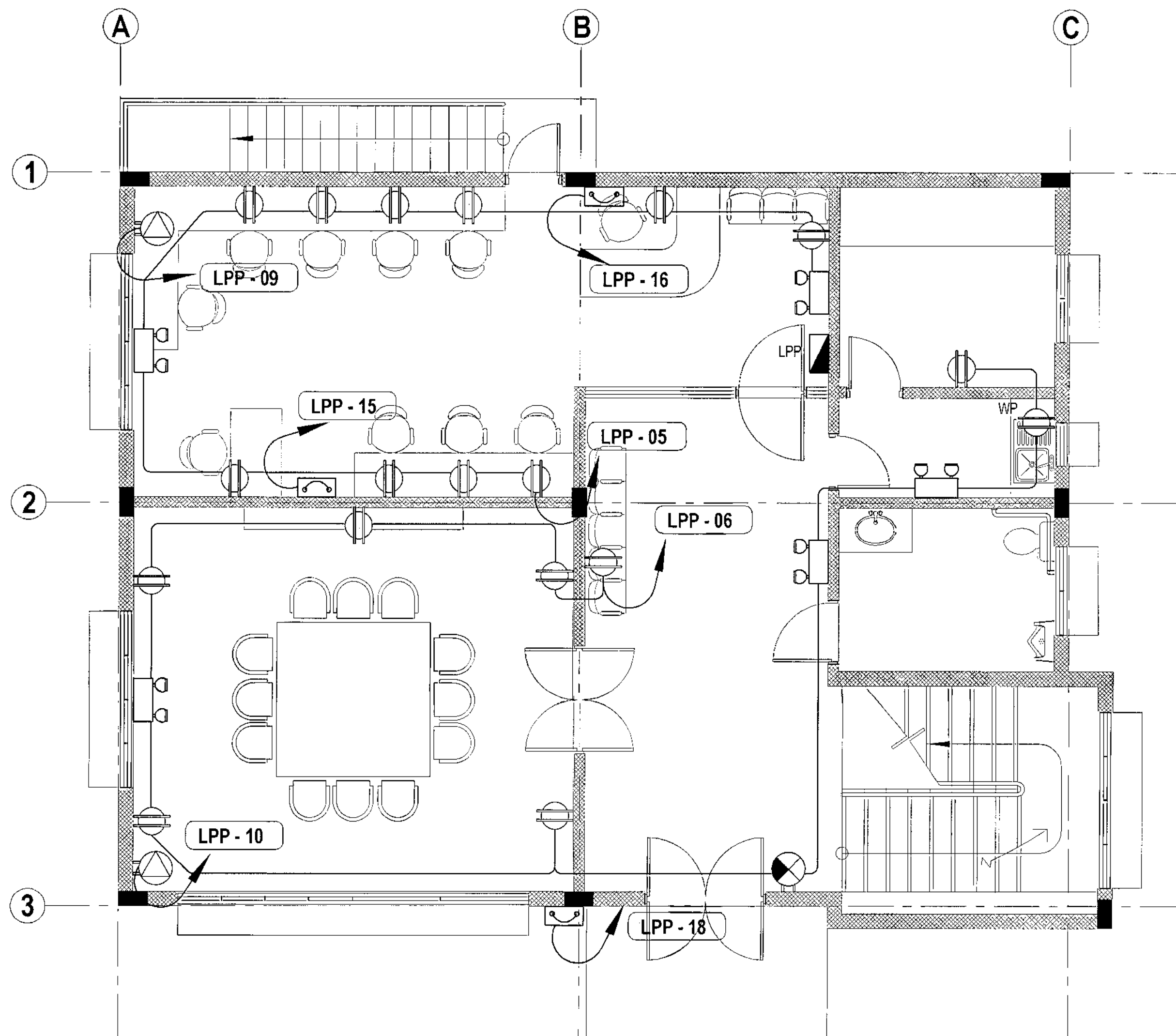
ENGR. T.B. Infante Jr.

SHEET NO.:

EL-01



1 GROUND FLOOR LIGHTING LAYOUT SCALE 1:50 METERS (20 x 30) SCALE 1:100 METERS (A3)	2 SECOND FLOOR LIGHTING LAYOUT SCALE 1:50 METERS (20 x 30) SCALE 1:100 METERS (A3)
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 20%;">  <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5F CIVIC CENTER - 3 (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELIPTICAR ROAD, DILIMAN, QUEZON CITY</p> </div> <div style="width: 30%;"> <p>PROVISO:</p> <p><small>DRAWING AND SPECIFICATIONS ONLY STAMPED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS SUBJECT OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF SAID FOR OTHER PROJECTS OF BUILDINGS, WHETHER EXECUTED MANUALLY OR IN WHOLE.</small></p> </div> <div style="width: 30%;"> <p>RECOMMENDING APPROVAL</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  ARCH. LUCILLE H. CHUA, uap, piep OIC, ARCHITECT </div> <div style="text-align: center;">  ENGR. ISAGANI R. VERSOZA JR. OIC, CITY ENGINEER </div> </div> </div> <div style="width: 20%;"> <p>APPROVED BY:</p> <div style="text-align: center;">  HON. MA. JOSEFINA G. BELMONTE MAYOR </div> </div> </div> <div style="width: 20%;"> <p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p> <p>LOCATION: PALMERA HOMES, BRGY. STA. MONICA, QC</p> </div> <div style="width: 10%;"> <p>SHEET CONTENTS:</p> <p>GROUND FLOOR LIGHTING LAYOUT SECOND FLOOR LIGHTING LAYOUT</p> </div> <div style="width: 10%;"> <p>PROJECT NO.:</p> <p>DATE: December 2020 DRAWN BY: N.N.L. DESIGNED BY: Engr. ARG CHECKED BY: Engr. Tirso B. Infante</p> </div> <div style="width: 10%; text-align: center;"> <p>SHEET NO.:</p> <p>EL-03</p> </div>	





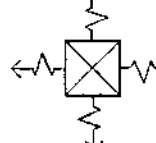
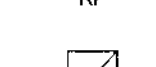






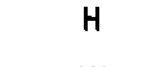








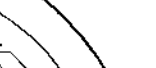

1 GROUND FLOOR POWER LAYOUT

SCALE 1:50 METERS (20 x 30)
SCALE 1:100 METERS (A3)

2 SECOND FLOOR POWER LAYOUT

SCALE 1:50 METERS (20 x 30)
SCALE 1:100 METERS (A3)

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 9F CIVIC CENTER - D (BRC, Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DR. MAN, QUEZON CITY</p>	PROVISO:	RECOMMENDING APPROVAL		APPROVED BY :	PROJECT TITLE :	SHEET CONTENTS :	PROJECT NO.:	SHEET NO.:	
	DRAWING AND SPECIFICATIONS FULLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHICHEVER THE SUBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHATEVER EXECUTED PARTLY OR IN WHOLE.	 ARCH. LUCILLE H. CHUA, uap, piep <small>CITY ARCHITECT</small>		 ENGR. ISAGANI R. VERSOZA JR. <small>CITY ENGINEER</small>	 HON. MA. JOSEFINA G. BELMONTE <small>MAYOR</small>	PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING	GROUND FLOOR POWER LAYOUT SECOND FLOOR POWER LAYOUT	DATE December 2020 DRAWN BY N.N.L. DESIGNED BY Engr. ARG CHECKED BY Engr. Tirso B. Infante	EL-04
						LOCATION: PALMERA HOMES, BRGY. STA. MONICA, QC			

1.	ALL MECHANICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL BUILDING CODE, PSME CODE AND THE RULES AND REGULATIONS OF QUEZON CITY.		EQUIPMENT DESIGNATION
2.	THE SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS.		CAR PARK VENTILATION SYSTEM
3.	THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL OTHER TRADES.		FAN COIL UNIT
4.	ALL AIRCONDITIONED SPACES SHALL BE MAINTAINED AT 24°C DB AND 50% RH.		REFRIGERANT PIPING
5.	CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, MANUFACTURERS CATALOGUE, SPECIFICATIONS, SAMPLES, INCLUDING VIBRATION ISOLATORS BEFORE EXECUTION OF WORK.		EXHAUST FAN
6.	ALL FLOOR SLAB MOUNTED VIBRATING EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS TO PREVENT VIBRATIONS AND NOISE TRANSMISSION.		ELBOW UP
7.	EXHAUST FAN SHALL BE PROVIDED WITH SUITABLE FLEXIBLE CONNECTIONS TO DISCHARGE DUCT.		ELBOW DOWN
8.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING AND COMMISSIONING OF THE WHOLE VENTILATION AND AIRCONDITIONING SYSTEM AND INSTALLATION.		DRAIN PIPE
9.	ALL POWER WIRING SHALL BE ELECTRICAL AND TERMINATION TO EQUIPMENT SHALL BE MECHANICAL.		WINDOW TYPE AIR-CONDITIONER
10.	PROVIDE CONTROL WIRING FOR AIRCONDITIONING EQUIPMENT.		SPLIT TYPE AIR-CONDITIONER
11.	PROVIDE THERMOSTAT FOR ALL INDOOR UNITS / FAN COIL UNITS.		AIR-COOLED CONDENSING UNIT
12.	VERIFY LOCATION OF CONTROLLERS AND SWITCHES ON ELECTRICAL PLANS.		MULTI-SPLIT FAN COIL UNIT
13.	ALL PIPE EQUIPMENT CONDENSATE DRAIN SHALL BE CONNECTED TO THE NEAREST FLOOR DRAIN / AD/CB.		EXHAUST FAN
14.	PROVIDE GUIDES, HANGERS, AND SUPPLEMENTAL STEEL SUPPORT FOR ALL PIPING, DUCTING AND EQUIPMENTS.		VOLTS
15.	PROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THRU BUILDING STRUCTURE.		HORSEPOWER
16.	ALL PIPE DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE NOTED.		HERTZ
			WATTS
			CUBIC FEET PER MINUTE
			MILLIMETER
			KILO CALORIE PER HOUR
			REVOLUTION PER MINUTE

SPLIT TYPE AIR CONDITIONER

DESIGNATION	QUANTITY	LOCATION	TYPE	COOLING CAPACITY, KW	REFRIGERANT PIPE SIZE Ø, mm	POWER INPUT KW	POWER SUPPLY VOLTS	PHASE	HERTZ	UNIT DIMENSION WxDxH, mm	REMARKS
SAC 1	2 UNITS	SECOND FLOOR	4-WAY CEILING-CASSETTE FAN COIL UNIT; HORIZONTAL BLOW AIR-COOLED CONDENSING UNIT	8.8	GAS - 15.88 LIQUID - 9.52	2.94	220	1Ø	60.0	INDOOR 840 x 840 x 298 OUTDOOR 840 x 330 x 880	CONDENSATE DRAIN SHALL BE 32Ø INSULATED PVC PIPE. UNIT SHALL BE EQUIPPED W/ REMOTE CONTROL

WINDOW TYPE AIR CONDITIONER

DESIGNATION	QUANTITY	LOCATION	NOMINAL SIZE HP	COOLING CAPACITY KJ/HR	AIR CIRCULATION CMM	POWER CONSUMPTION WATTS	POWER SUPPLY VOLTS	PHASE	HERTZ	REMARKS
WAC 1	2 UNITS	GROUND FLOOR	2.5	25,500	14.5	2,660	220	1Ø	60.0	IT SHALL BE EQUIPPED WITH TIMER AND REMOTE CONTROL
WAC 2	2 UNITS	SECOND FLOOR	1.0	11,000	9.6	940	220	1Ø	60.0	IT SHALL BE EQUIPPED WITH TIMER AND REMOTE CONTROL

EXHAUST FAN

DESIGNATION	QUANTITY	LOCATION	TYPE	FAN DIAMETER mm	AIR FLOW CMH	POWER CONSUMPTION WATTS	POWER SUPPLY VOLTS	PHASE	HERTZ	REMARKS
EF 1	1 UNIT	GROUND FLOOR	DUCT-MOUNTED CEILING VENTILATING FAN	150Ø	330-340	35	220	1Ø	60.0	UNIT SHALL BE CASSETTE TYPE OPENING, EASY TO CLEAN & INSTALL. TOP OR SIDE DISCHARGED DUCK CONNECTION WITH REVERSE FLOW PREVENTION SHUTTER.
EF 2	2 UNITS	SECOND FLOOR	DUCT-MOUNTED CEILING VENTILATING FAN	100Ø	140-150	14 - 15	220	1Ø	60.0	UNIT SHALL BE CASSETTE TYPE OPENING, EASY TO CLEAN & INSTALL. TOP OR SIDE DISCHARGED DUCK CONNECTION W/ REVERSE FLOW PREVENTION SHUTTER.

1

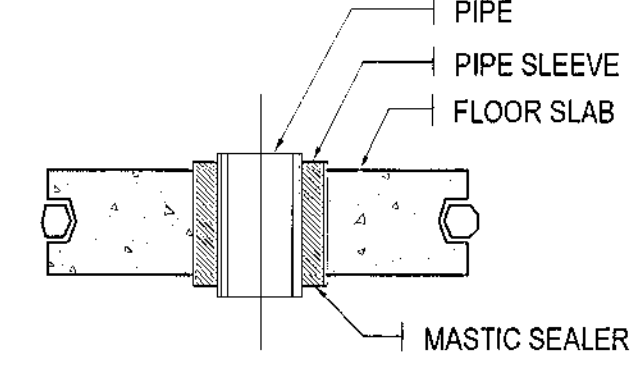
GENERAL NOTES

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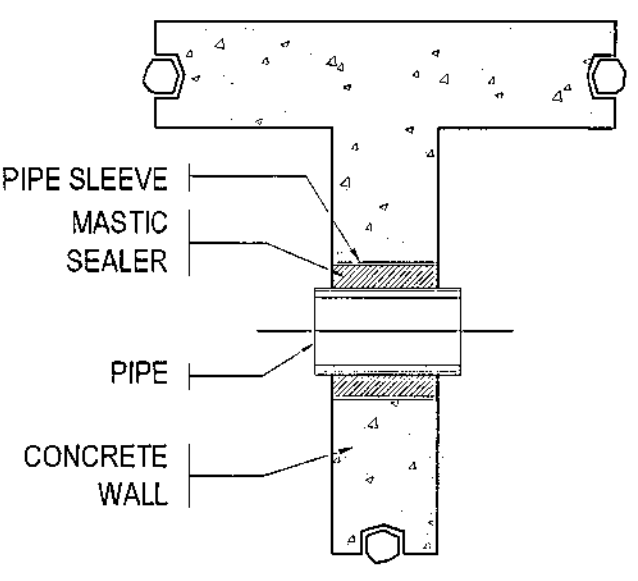
LEGENDS & SYMBOLS

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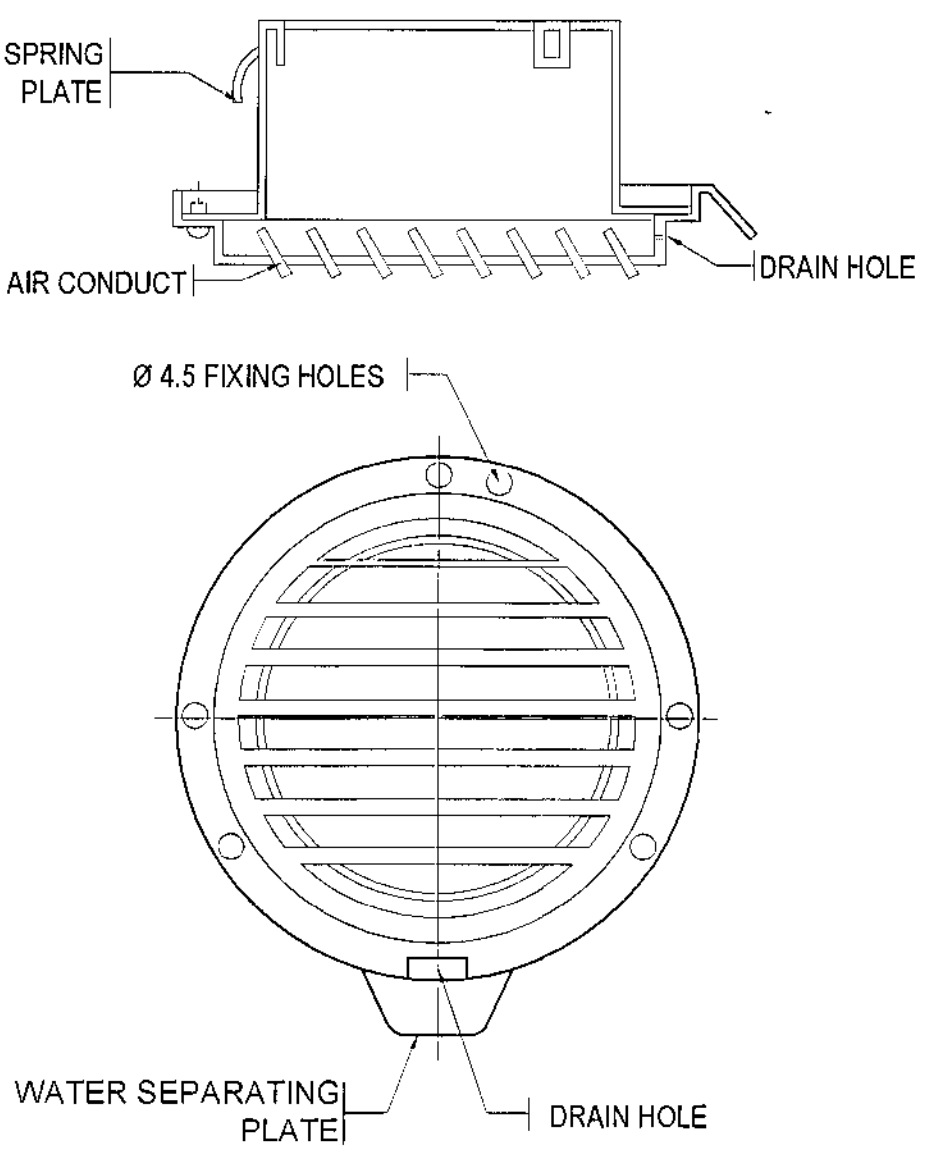
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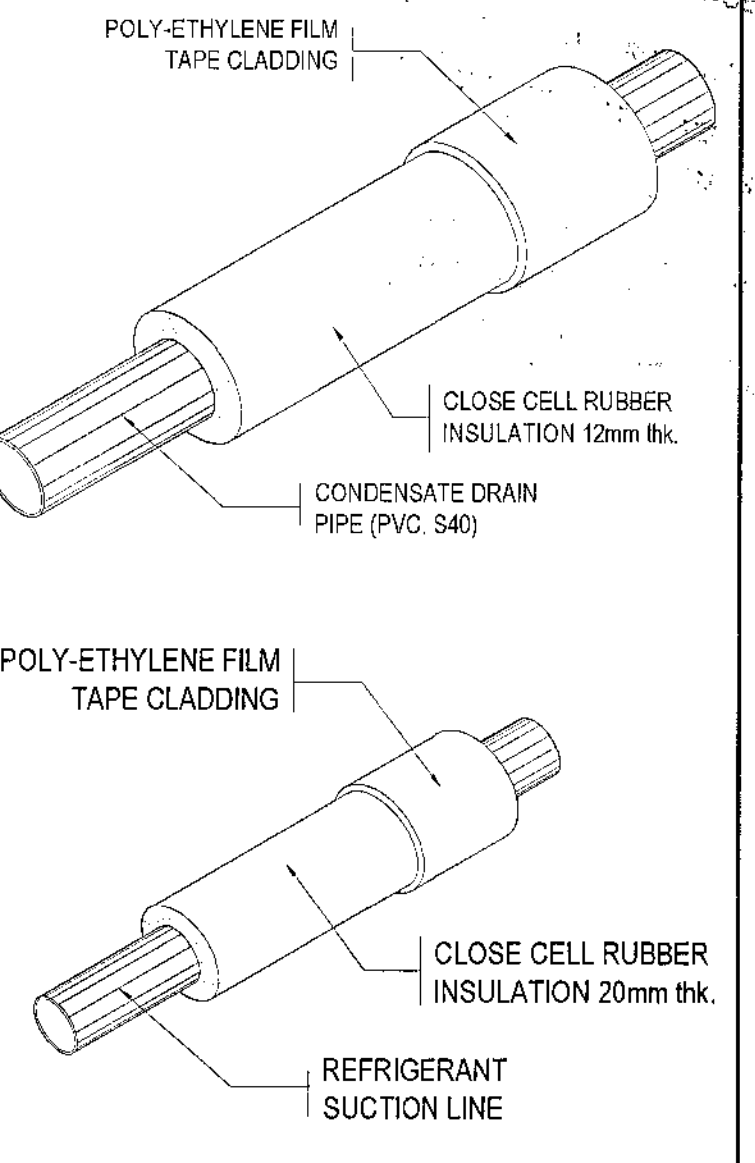
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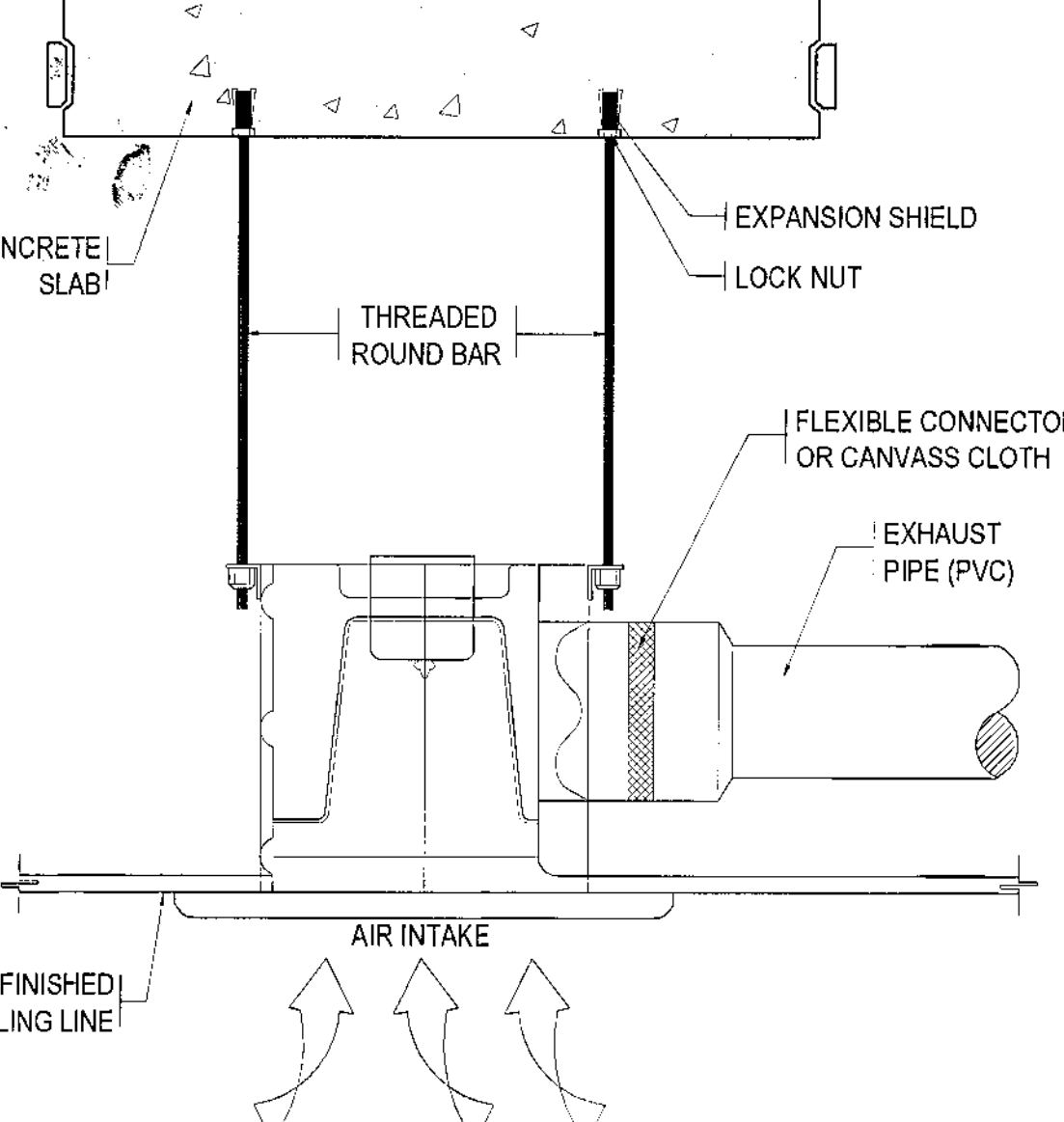
WALL



DUCT CAPS DETAIL

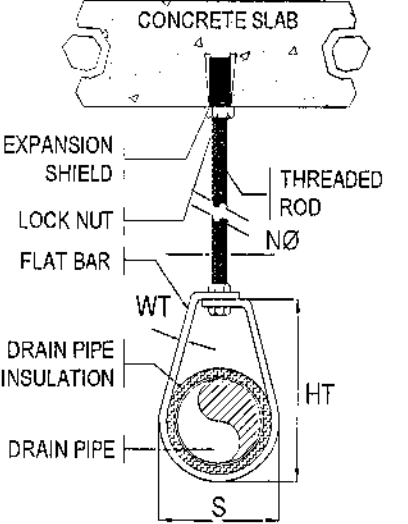


REFRIGERANT DRAIN PIPE DET.

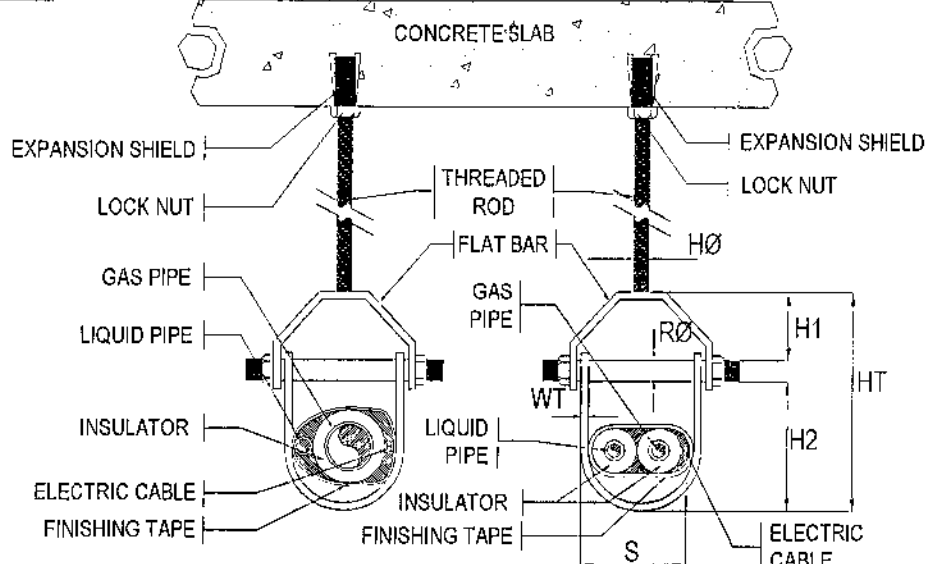


CEILING CASSETTE EXHAUST FAN DETAIL

GALVANIZED LOOP HANGER						
NOMINAL PIPE SIZE	WT	S	HT	NØ	MAX. LOAD	
INCHES	MM	MM	MM	MM	Recom'd LBS.	
1/2	0.80	27.00	64.00	9.50	300	
3/4	0.80	31.00	68.00	9.50	300	
1	0.80	37.00	68.00	9.50	300	
1 1/4	0.80	45.00	76.00	9.50	300	
1 1/2	0.80	48.50	84.00	9.50	300	
2	1.00	63.00	97.50	9.50	300	
4	2.00	116.50	161.00	9.50	650	
6	3.00	169.00	234.00	12.70	1250	
8	3.00	226.00	305.00	12.70	1250	



GALVANIZED CLEVIS HANGER										
NOMINAL PIPE SIZE	HT	H1	H2	HØ	RØ	WT	S	MAX. LOAD		
INCHES	MM	MM	MM	MM	MM	MM	MM	Recom'd LBS.		
2	117.00	70.50	37.00	10.00	5.20	2.70	65.00	810		
2 1/2	137.20	80.60	43.00	13.50	8.30	3.00	80.00	1130		
3	155.00	96.00	45.50	13.50	8.30	3.00	94.00	1130		
4	197.00	135.00	49.00	16.00	8.30	3.00	116.30	1430		
6	247.00	182.00	55.50	19.50	11.00	4.00	117.60	1940		
8	323.00	235.00	76.00	23.50	14.00	4.20	226.00	2000		
10	414.00	291.00	106.00	24.00	17.00	5.50	284.00	3600		
12	475.00	343.00	112.50	24.00	17.00	6.00	345.00	3800		



4

PIPE SLEEVE DETAIL

5

DUCT CAPS DETAIL

6


REFRIGERANT DRAIN PIPE DET.

7

CEILING CASSETTE EXHAUST FAN DETAIL

8

PIPE HANGER & SUPPORT DETAIL



Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5/F CIVIC CENTER - D (BROL Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY

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RECOMMENDING APPROVAL

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CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR

Q.C.

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

LOCATION: BRGY. STA. MONICA, Q.C.

SHEET CONTENTS:

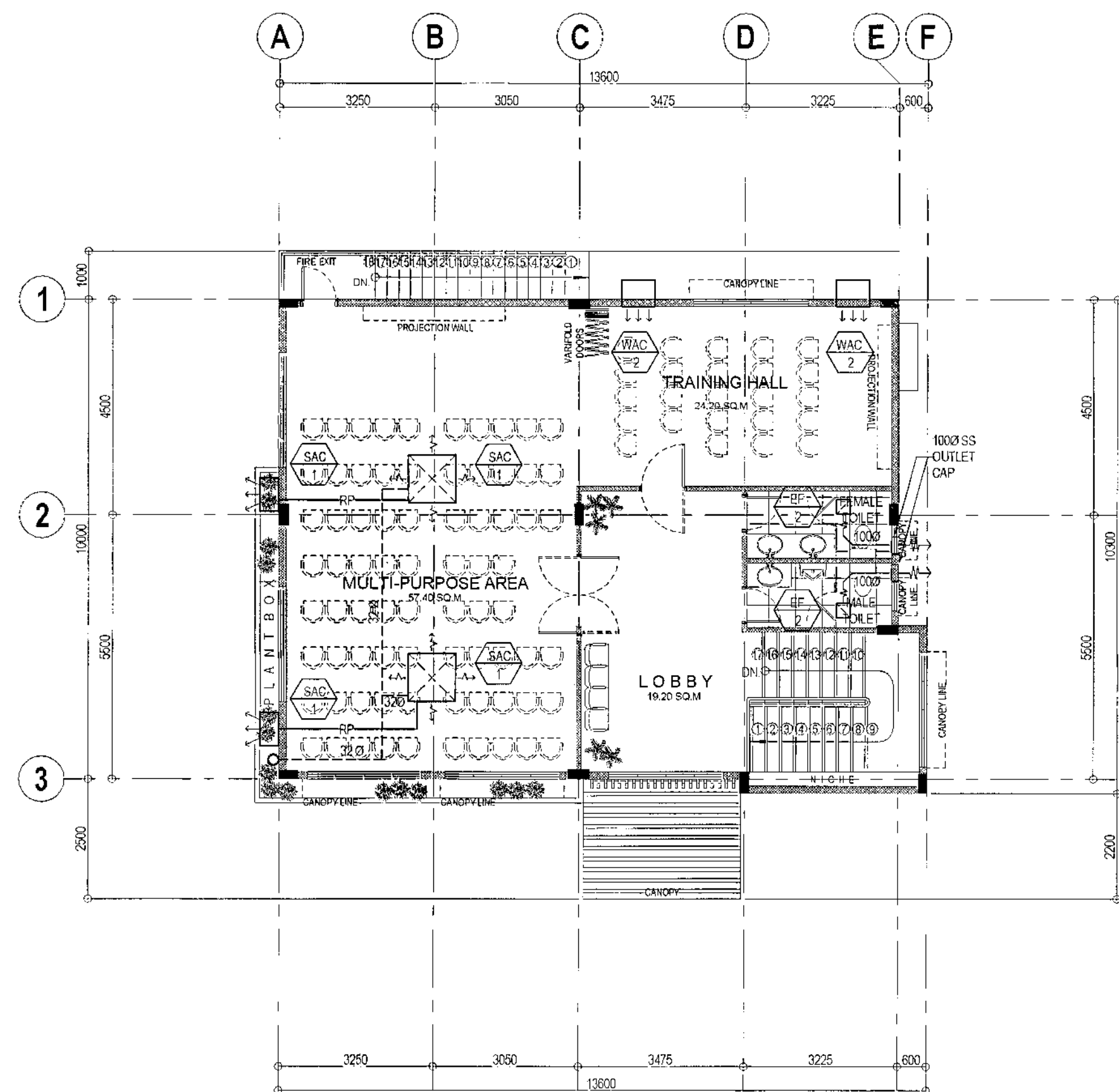
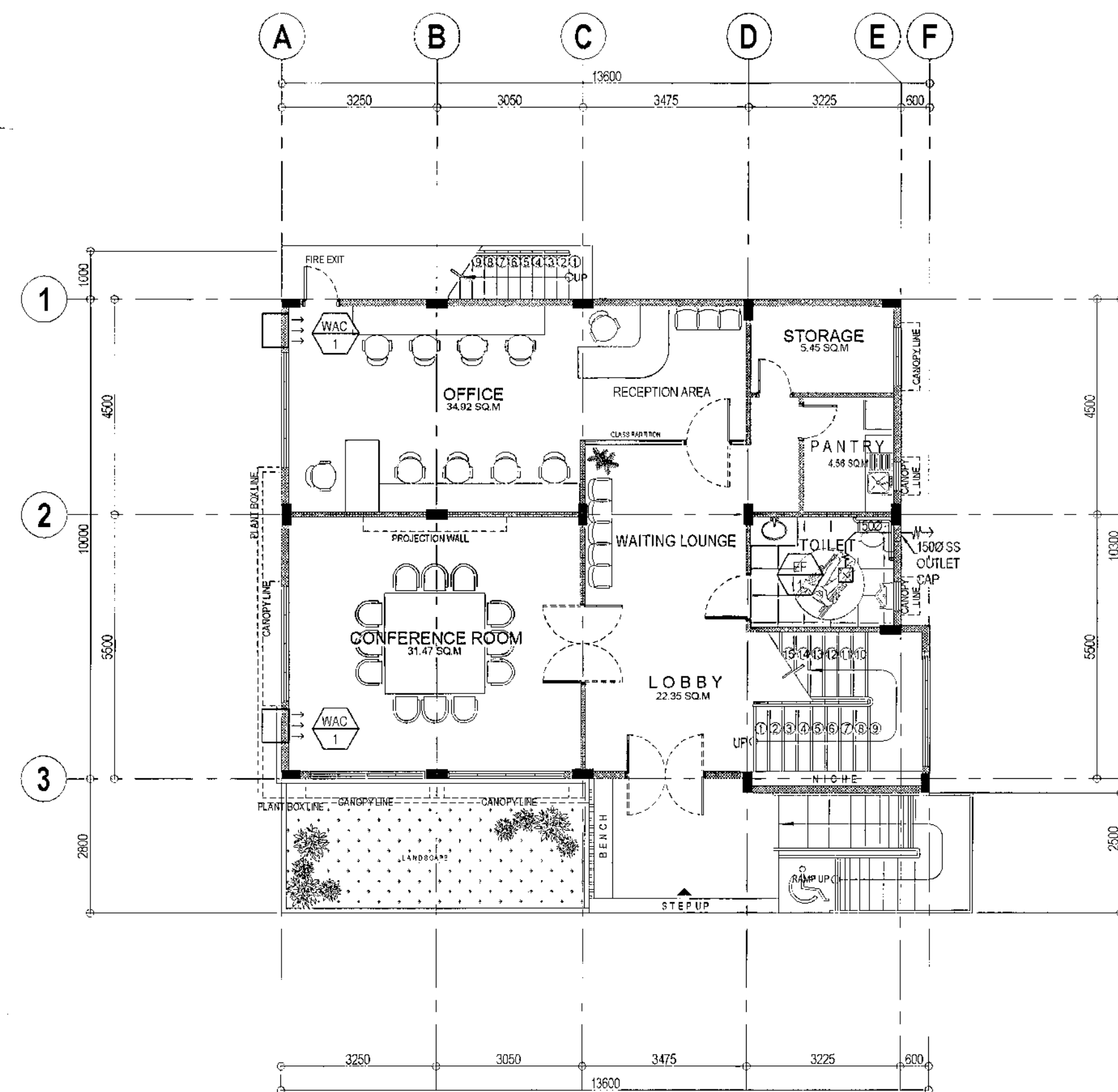
GENERAL NOTES
LEGEND AND SYMBOLS
EQUIPMENT LOAD SCHEDULE
SPOT DETAILS

PROJECT NO.:

DATE: October 2020
DRAWN BY: N. N. L.
DESIGNED BY: Engr. A. Bahay
CHECKED BY: Engr. E. R. Sibucab

SHEET NO.:

MP-01




1 GROUND FLOOR MECHANICAL LAYOUT

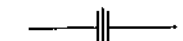
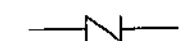
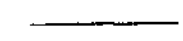
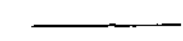
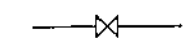
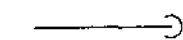
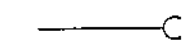
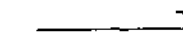


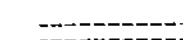
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2 SECOND FLOOR MECHANICAL LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

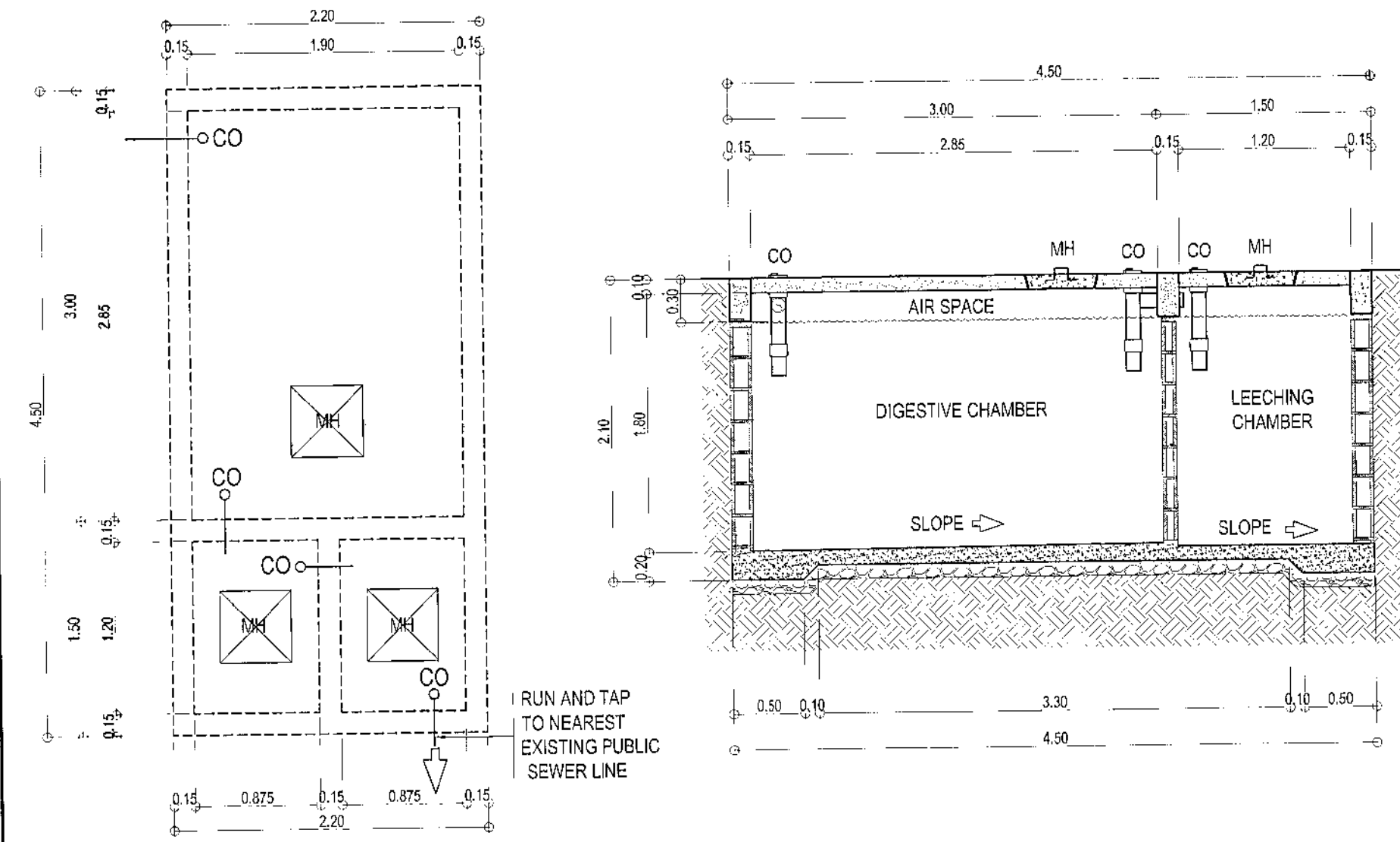
 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	RECOMMENDING APPROVAL		APPROVED BY:	PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:
		<p>ARCH. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT</p> <p>ENGR. KAGANI R. VERZOSA, JR. OIC, CITY ENGINEER</p>		<p>HON. MA. JOSEFINA G. BELMONTE MAYOR</p> <p>Q.C.</p>	<p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p> <p>LOCATION: BRGY. STA. MONICA, Q.C.</p>	<p>GROUND FLOOR MECHANICAL LAYOUT</p> <p>SECOND FLOOR MECHANICAL LAYOUT</p>	<p>DATE: October 2020</p> <p>DRAWN BY: N. N. L. /</p> <p>DESIGNED BY: Engr. A. Bahoy</p> <p>CHECKED BY: Engr. E. R. Babucao</p>	<p>MP-02</p>

1. ALL PLUMBING WORKS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST PROVISION OF PHILIPPINE PLUMBING CODE, THE UNIFORM PLUMBING CODE, THE NATIONAL BUILDING CODE, AND THE RULES AND REGULATION OF THE QUEZON CITY.
2. ALL SLOPES FOR SANITARY AND STORM DRAINAGE LINES SHALL MAINTAIN A ONE PERCENT (0.01) AND ONE-HALF (0.005) MIN. RESPECTIVELY UNLESS OTHERWISE SPECIFIED.
3. PROPOSED SANITARY UTILITIES SHALL CONFORM TO ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES & STRUCTURES.
4. ALL WATER SUPPLY PIPES & DRAIN SIZES OF FIXTURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
5. TESTING OF SANITARY AND WATERLINES SHALL CONFORM TO THE LATEST REQUIREMENTS OF PHILIPPINE PLUMBING CODE AND UNIFORM PLUMBING CODE.
6. ALL PIPES SIZES AND DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
7. WATERLINE SHALL BE PPR TYPE OR FUSION WELD TYPE.
8. SOIL PIPE, WASTE & VENT SHALL BE PVC SANIMOLD EXTRA OR APPROVAL EQUAL. STORM DRAINAGE LINE 200mmØ AND BELOW SHALL BE POLYVINYL CHLORIDE. 250mmØ AND ABOVE SHALL BE REINFORCED CONCRETE PIPE.
9. GATE VALVE SHALL BE PPR TYPE.
10. WATER METER SHALL BE ANY ANY BRAND APPROVE BY MWSS.
11. ROOF DRAIN SHALL BE ASA 10-12, PIPE SIZE 4" Ø BY ASA METAL OR APPROVAL EQUAL.
12. WATER CLOSET SHALL BE VITREOUS CHINA, FREE STANDING TOILET COMBINATION, ROUND FRONT BOTTOM OUTLET SIPHON VORTEX OR WASH-DOWN BOWL WITH EXTENDED REAR SELF AND CLOSED COUPLED TANK WITH COVER COMPLETE WITH FITTING AND MOUNTING ACCESSORIES.
13. LAVATORY SHALL BE VITREOUS CHINA, WALL HUNG WITH REAR OVERFLOW AND CAST IN SOAP DISHES, POCKET HANGER WITH INTEGRAL CHINA BRACKET, COMPLETE WITH TWIN FAUCETS, SUPPLY PIPES, P-TRAP AND MOUNTING ACCESSORIES.
14. WHERE INDICATED ON PLANS, THE COUNTER TOP MODEL MAKE AND COLOR SHALL BE APPROVED BY THE DESIGNING ARCHITECT.
15. URINAL SHALL BE WALL HUNG, CONCEALED WALL HANGER POCKETS, COMPLETE WITH FITTING AND MOUNTING ACCESSORIES. MODEL MAKE AND COLOR SHALL APPROVED BY THE DESIGNING ARCHITECT.
16. SHOWER HEAD AND FITTING SHALL BE MOVABLE, CONE TYPE WITH ESCUTCHEON ARM COMPLETE WITH STAINLESS STEEL SHOWER VALVE AND CONTROL LEVEL. ALL EXPOSED SURFACE TO BE CHROMIUM FINISH.
17. GRAB BARS SHALL BE MADE OF TUBULAR STAINLESS STEEL PIPE PROVIDED WITH SAFETY GRIP AND MOUNTING FLANGE.
18. FLOOR DRAINS SHALL BE MADE OF STAINLESS STEEL BEEHIVE TYPE, MEASURING 10cm X 10cm AND PROVIDED WITH DETACHABLE STAINLESS STRAINER, EXPANDED METAL LATH TYPE.
19. SOAP HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED. COLOR SHALL RECONCILE WITH THE ADJACENT TILE WORKS.
20. TOILET PAPER HOLDER SHALL BE VITREOUS CHINA WALL MOUNTED. COLOR SHALL RECONCILE WITH THE ADJACENT FIXTURE AND FACING TILES.
21. FAUCETS SHALL BE MADE OF STAINLESS STEEL FOR INTERIOR USE.
22. HOSE BIBS SHALL BE MADE OF BRONZE CAST FINISH.
23. KITCHEN SINK SHALL BE MADE OF STAINLESS STEEL SELF RIMMING, SINGLE / DOUBLE COMPARTMENT COMPLETE WITH SUPPLY FITTINGS, STRAINER TRAPS, DUAL CONTROL LEVEL AND OTHER ACCESSORIES.

	UNION PATENT	GV	GATE VALVE	VS	VENT STACK
	CHECK VALVE	SD	SHOWER DRAIN	FS	FLOW SWITCH
	WASTE LINE	FLV	FLOAT VALVE	TP	TRANSFER PUMP
	WATER LINE	BV	BALL VALVE	UR	URINAL
	GATE VALVE	GIP	GALVANIZED IRON PIPE	FCO	FLOOR CLEANOUT
	PIPE DOWN	PVC	POLYVINYL CHLORIDE	FD	FLOOR DRAIN
	PIPE UP	WC	WATER CLOSET	BD	BUILDING DRAIN
	END CAP	LAV	LAVATORY	AD/CB	AREA DRAIN/CATCH BASIN
	DIRECTION OF FLOW /SLOPE	SP	SOIL PIPE	HP	HORSE POWER
HB	HOSE BIBB	WM	WATER METER	SS	SOIL STACK
	STORM DRAIN LINE	MH	MANHOLE	GCO	GROUND CLEANOUT
	VENT LINE				

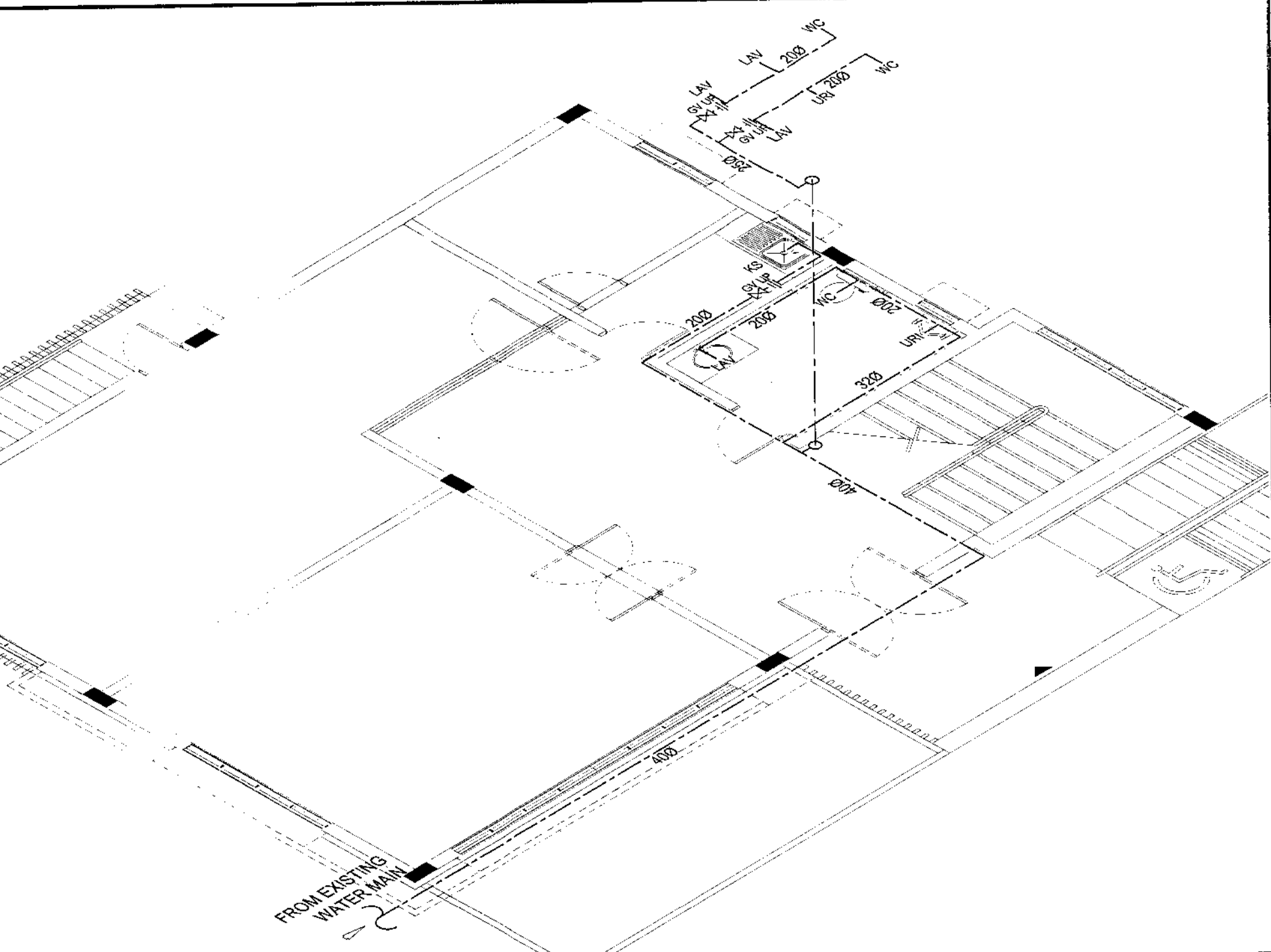
2 LEGENDS AND SYMBOLS

NOT TO SCALE



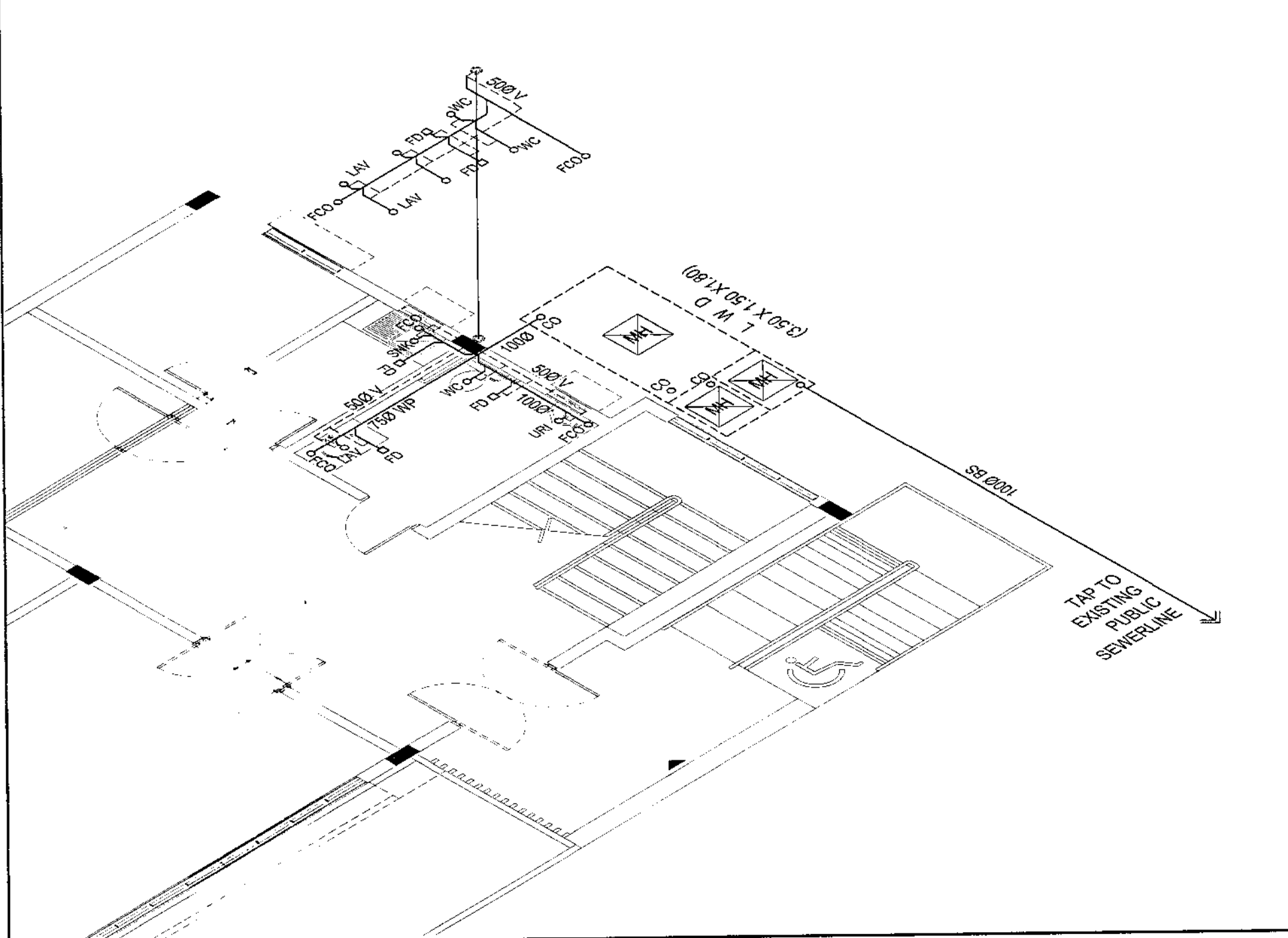
3 SEPTIC TANK DETAIL

NOT TO SCALE



4 WATERLINE ISOMETRIC LAYOUT

NOT TO SCALE

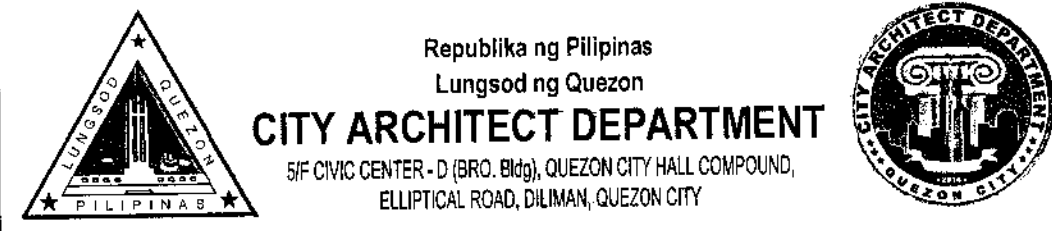


5 SANITARY & STORM DRAINAGE ISOMETRIC LAYOUT

NOT TO SCALE

1 GENERAL NOTES

NOT TO SCALE



PROVISO:
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RECOMMENDING APPROVAL
ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA, JR.
CITY ENGINEER

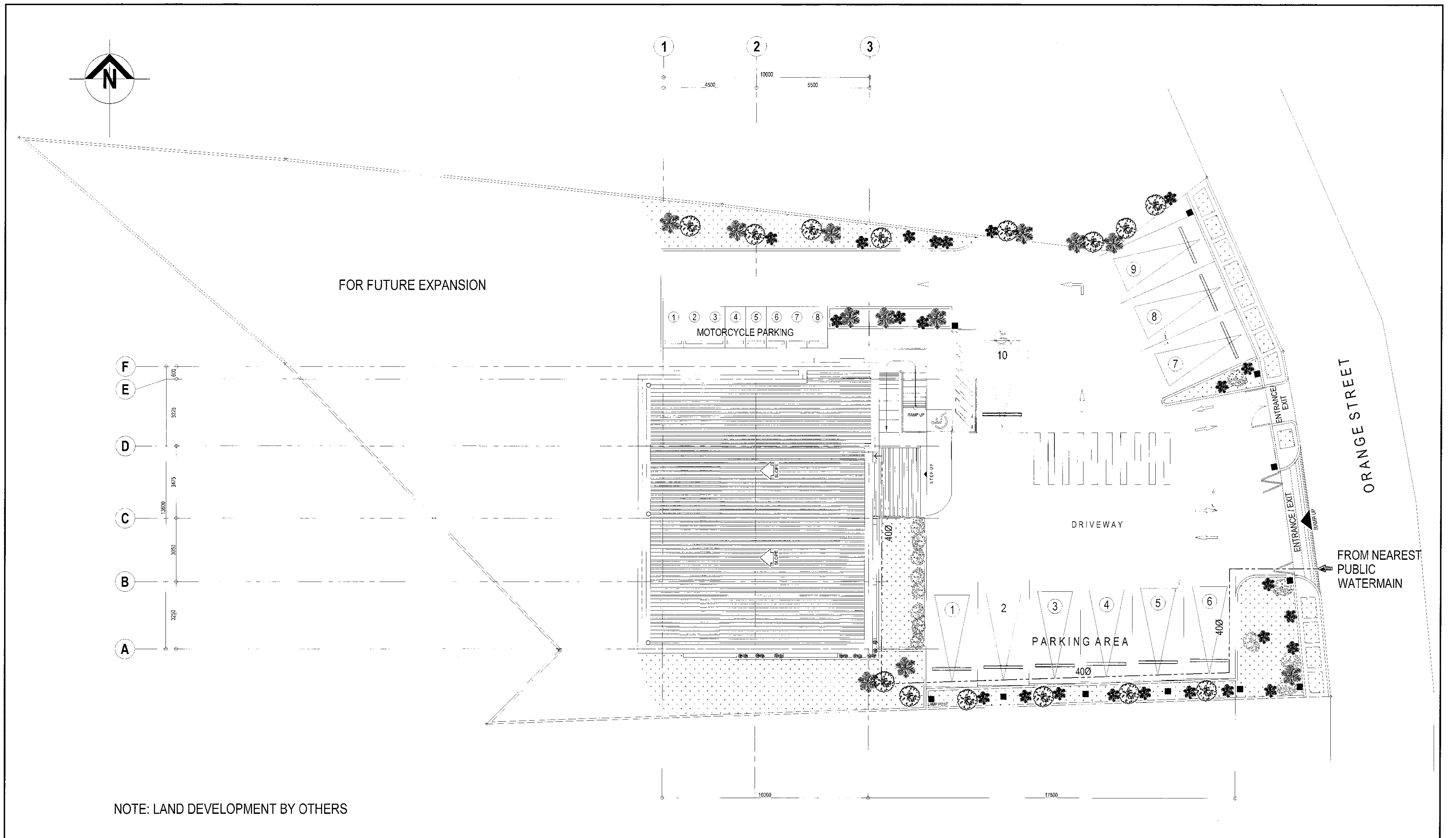
APPROVED BY :
HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROJECT TITLE :
PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING
LOCATION : BRGY. STA. MONICA, Q.C.

SHEET CONTENTS :
GENERAL NOTES
LEGENDS AND SYMBOLS
SEPTIC TANK DETAIL
EQUIPMENT SCHEDULE
WATERLINE ISOMETRIC LAYOUT
SANITARY & STORM ISOMETRIC LAYOUT




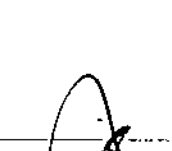

PROJECT NO.:
DATE: October 2020
DRAWN BY: N. N. L. /
DESIGNED BY: Engr. E. R. Pulmones
CHECKED BY: Engr. E. R. Pulmones

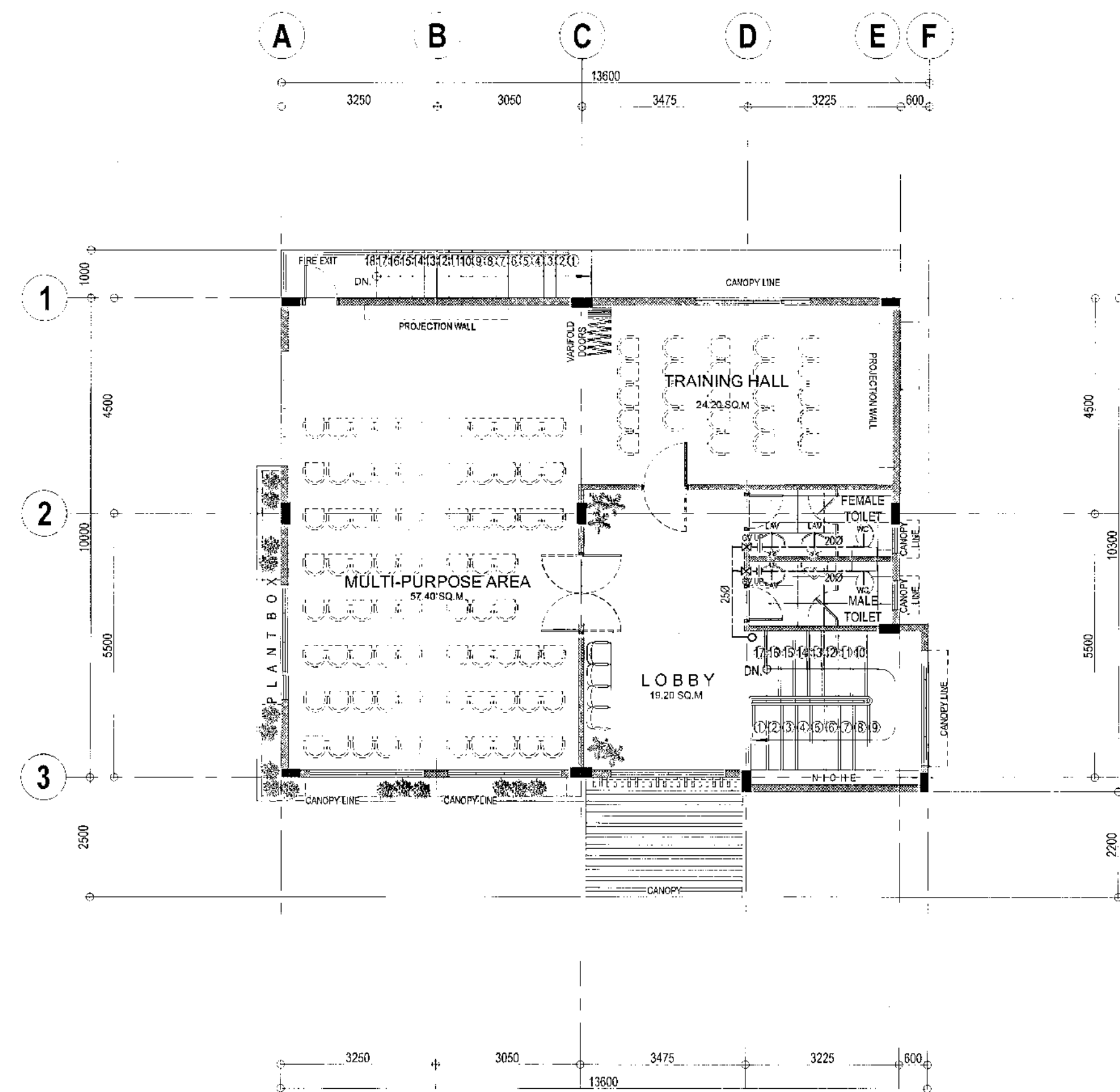
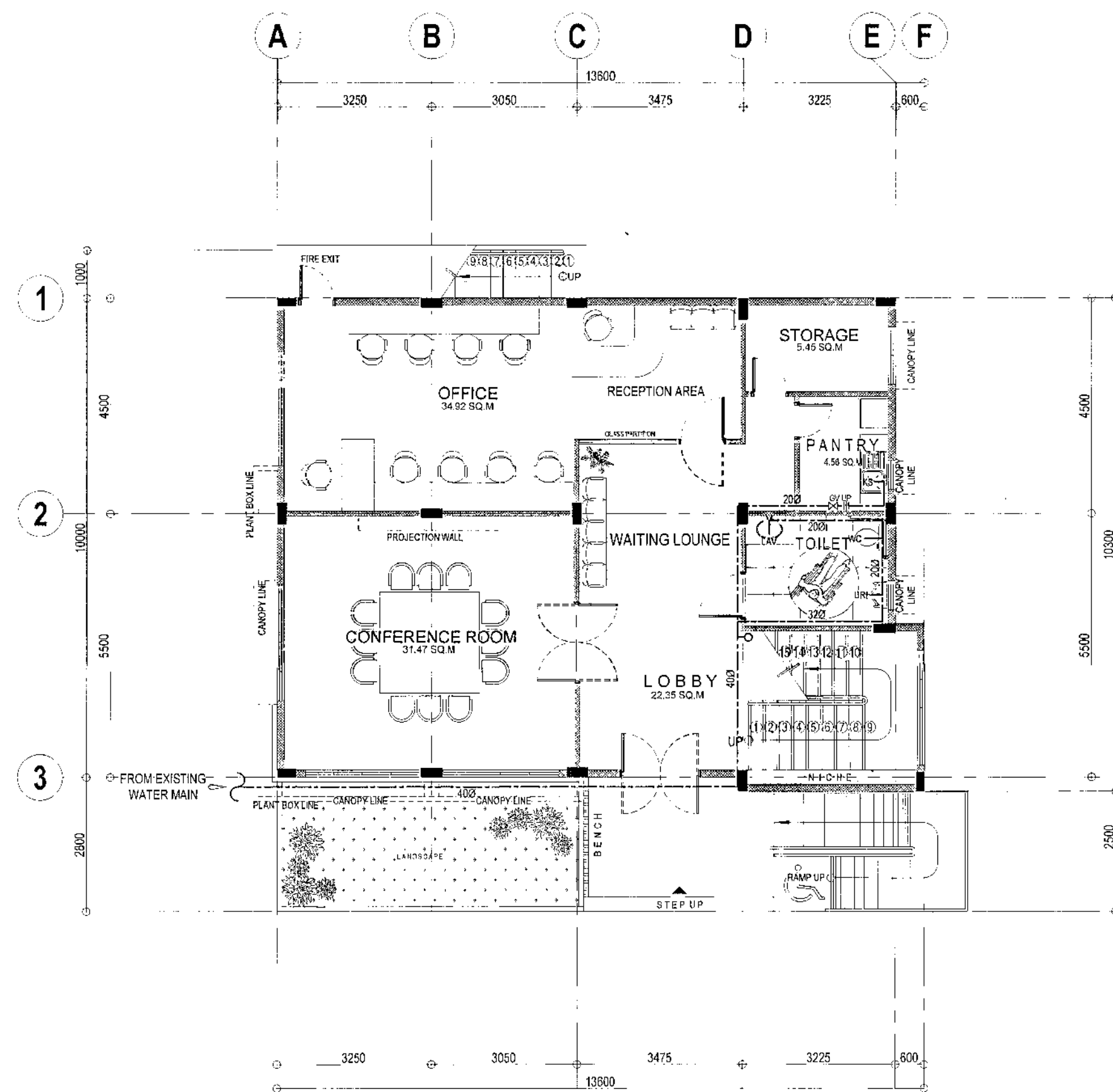
SHEET NO.:
PL-01



1 SITE WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

 <div>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILMAN, QUEZON CITY</div>	 <div>PROVISO: DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE RECEPTION OF SAID FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</div>	RECOMMENDING APPROVAL		APPROVED BY :		PROJECT TITLE :	SHEET CONTENTS :	PROJECT NO.:	SHEET NO.:
		 ARCH. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT		 ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEER		PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING	SITE WATERLINE LAYOUT		
		 HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.		LOCATION : BRGY. STA. MONICA, Q.C.		DATE : October 2020 DRAWN BY : N. N. L. DESIGNED BY : J. S. F. Pulmones CHECKED BY : Engr. E. R. Sibicag			



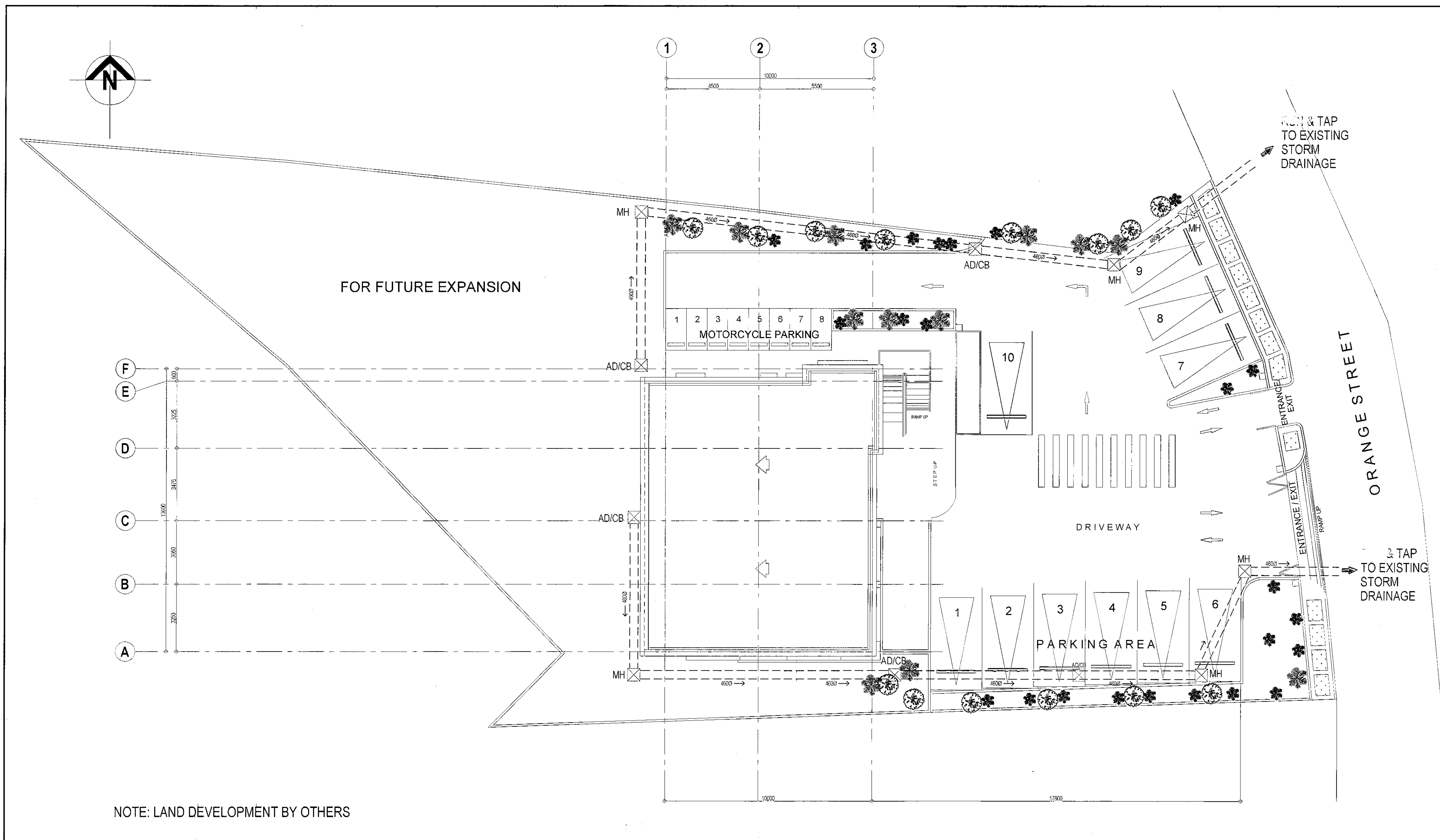
1 GROUND FLOOR WATERLINE LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

2 SECOND FLOOR WATERLINE LAYOUT




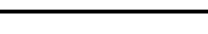
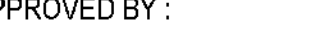






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SCALE 1:200 METERS(A3)

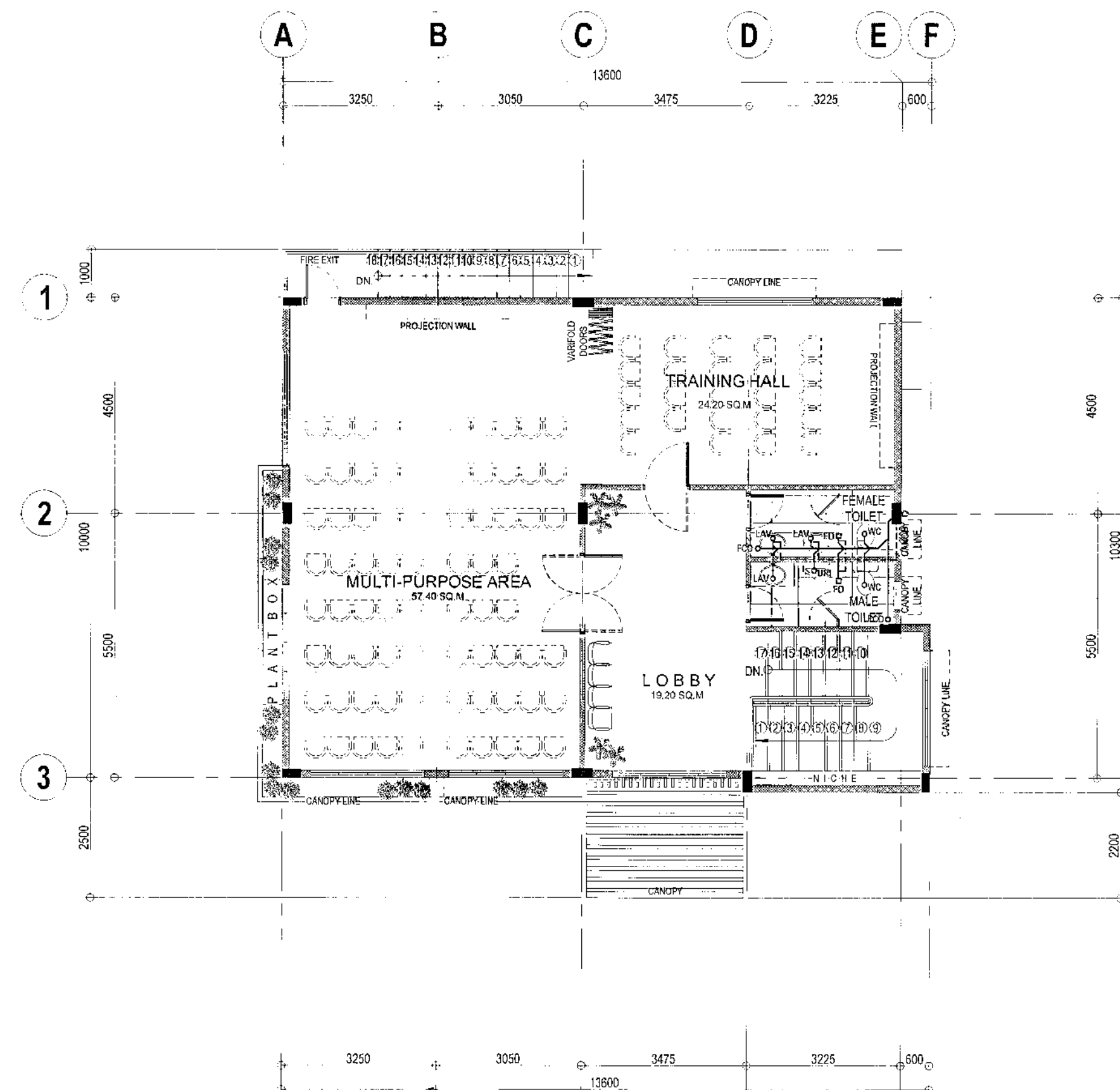
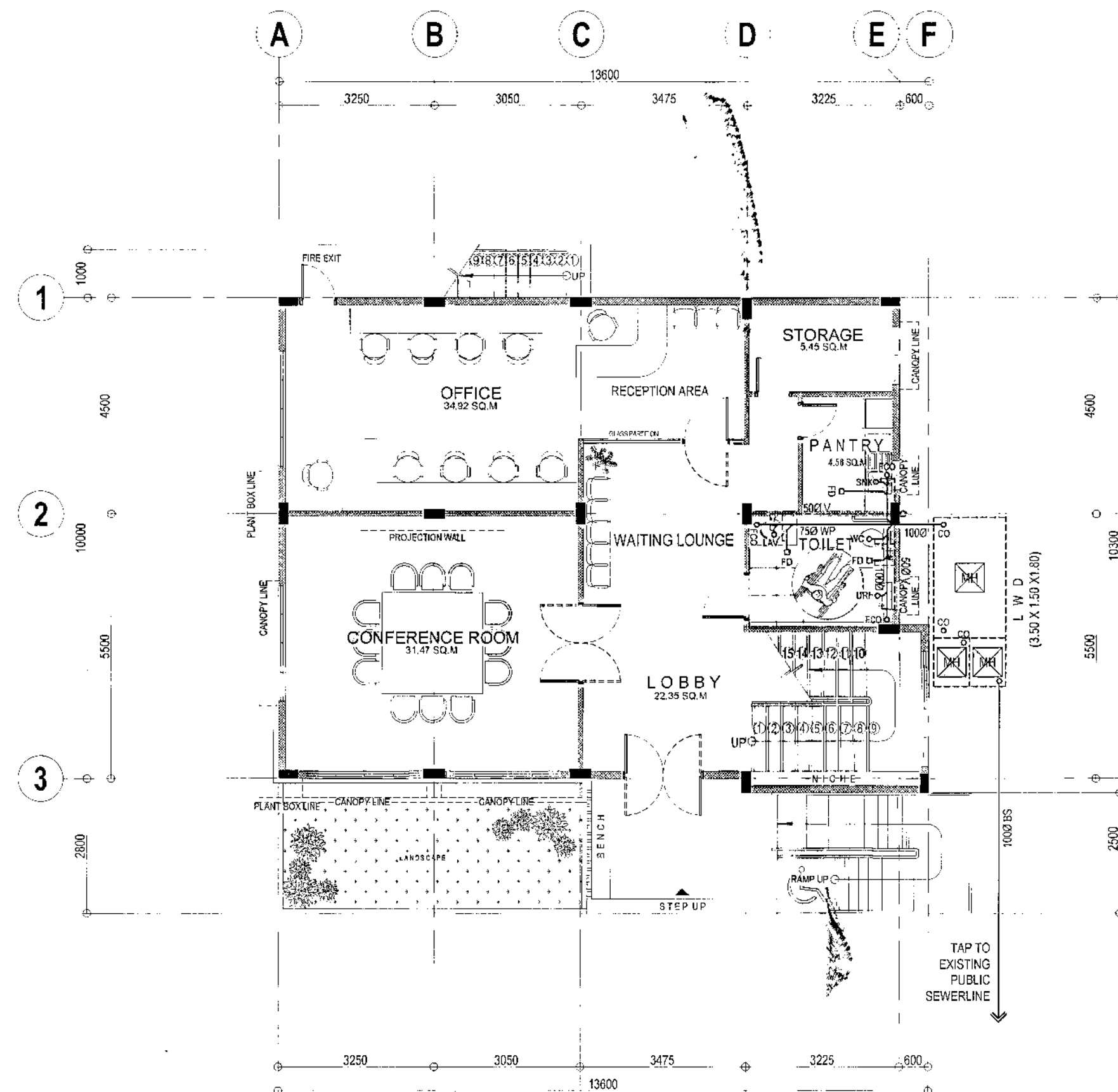
	Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 51F CIVIC CENTER - D (BRO. 346), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DELIMAN, QUEZON CITY	PROVISO: DRAWING AND SPECIFICATIONS DULY SHOWED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHORITY OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPUTATION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.	RECOMMENDING APPROVAL ARCH. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT	 ENGR. ISAGANI R. VERZOSA, JR. OIC, CITY ENGINEER	APPROVED BY : HON. MA. JOSEFINA G. BELMONTE MAYOR	PROJECT TITLE : PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING LOCATION : BRGY. STA. MONICA, Q.C.	SHEET CONTENTS : GROUND FLOOR WATERLINE LAYOUT SECOND FLOOR WATERLINE LAYOUT	PROJECT NO.: <table> <tr> <td>DATE</td> <td>October 2020</td> </tr> <tr> <td>DRAWN BY</td> <td>N. N. L.</td> </tr> <tr> <td>DESIGNED BY</td> <td>Engr. S. F. Pulmones</td> </tr> <tr> <td>CHECKED BY</td> <td>Engr. E. R. Sibucan</td> </tr> </table>	DATE	October 2020	DRAWN BY	N. N. L.	DESIGNED BY	Engr. S. F. Pulmones	CHECKED BY	Engr. E. R. Sibucan	SHEET NO.: PL-03
	DATE	October 2020															
	DRAWN BY	N. N. L.															
	DESIGNED BY	Engr. S. F. Pulmones															
CHECKED BY	Engr. E. R. Sibucan																



1 SITE SANITARY LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS (A3)

<div><div>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 51F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</div><div></div></div>	<p>PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHICHEVER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE OBLIGED, ON ANY PERSON WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<div><div> ARCH. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT</div><div> ENGR. SAGANI R. VERZOSA JR. OIC, CITY ENGINEER</div></div>	<div><div> HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.</div></div>	<p>PROJECT TITLE :</p> <p>PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING</p> <p>LOCATION : BRGY. STA. MONICA, Q.C.</p>	<p>SHEET CONTENTS :</p> <p>SITE SANITARY LAYOUT</p>	<table><tr><td>DATE</td><td>November 2020</td></tr><tr><td>DRAWN BY</td><td>N. N. L.</td></tr><tr><td>DESIGNED BY</td><td> F. Pulmones</td></tr><tr><td>CHECKED BY</td><td> Engr. E. R. Sibucan</td></tr></table>	DATE	November 2020	DRAWN BY	N. N. L.	DESIGNED BY	 F. Pulmones	CHECKED BY	 Engr. E. R. Sibucan	<p>SHEET NO.:</p> <p>PL-04</p>
				DATE	November 2020										
				DRAWN BY	N. N. L.										
DESIGNED BY	 F. Pulmones														
CHECKED BY	 Engr. E. R. Sibucan														



1 GROUND FLOOR SANITARY LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)

2 SECOND FLOOR SANITARY LAYOUT

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
5th CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



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THE SAME OR ANY PART THEREOF IN
THE REPRODUCTION OF ANY OTHER
PROJECTS OR BUILDINGS, WHETHER
EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL

ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT
ENGR. ISAGANI R. VERZOSA, JR.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

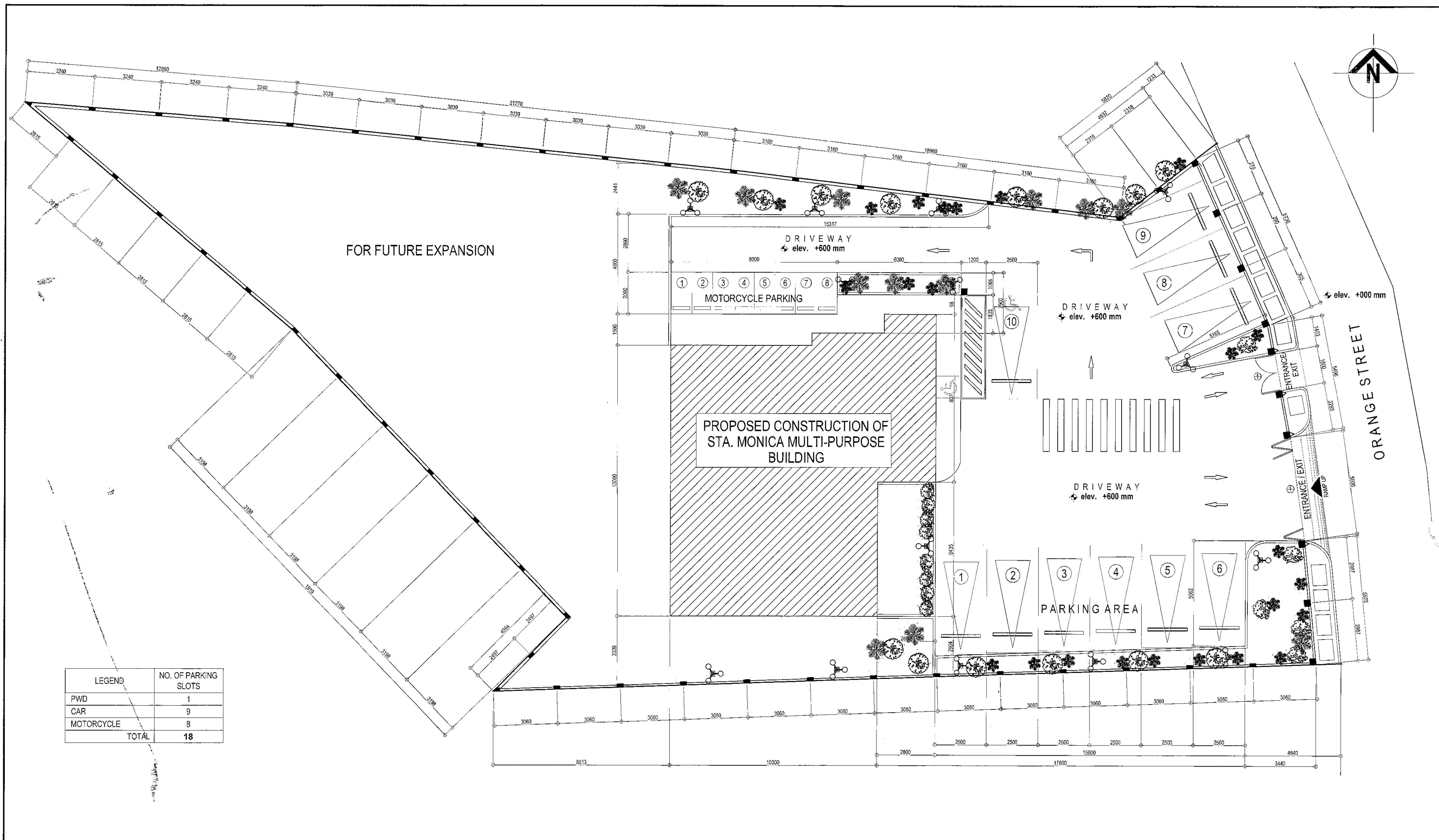
PROJECT TITLE:

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING
LOCATION : BRGY. STA. MONICA, Q.C.

SHEET CONTENTS :
GROUND FLOOR
SANITARY LAYOUT
SECOND FLOOR
SANITARY LAYOUT

PROJECT NO.:
DATE: October 2020
DRAWN BY: N. N. L.
DESIGNED BY: R. F. Pulmones
CHECKED BY: Engr. E. R. Silyu

PL-05



LEGEND	NO. OF PARKING SLOTS
PWD	1
CAR	9
MOTORCYCLE	8
TOTAL	18

1 LAND DEVELOPMENT PLAN

SCALE 1:100 METERS (20 x 30)
SCALE 1:200 METERS(A3)



Republika ng Pilipinas
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CITY ARCHITECT DEPARTMENT
SIF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



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RECOMMENDING APPROVAL

Arch. Lucille H. Chua
ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

Engr. Isagani R. Verzosa, Jr.
ENGR. ISAGANI R. VERZOSA, JR.
OIC, CITY ENGINEER

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE
MAYOR
Q.C.

PROJECT TITLE:

**PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING**

LOCATION: BRGY. STA. MONICA, Q.C.

SHEET CONTENTS:

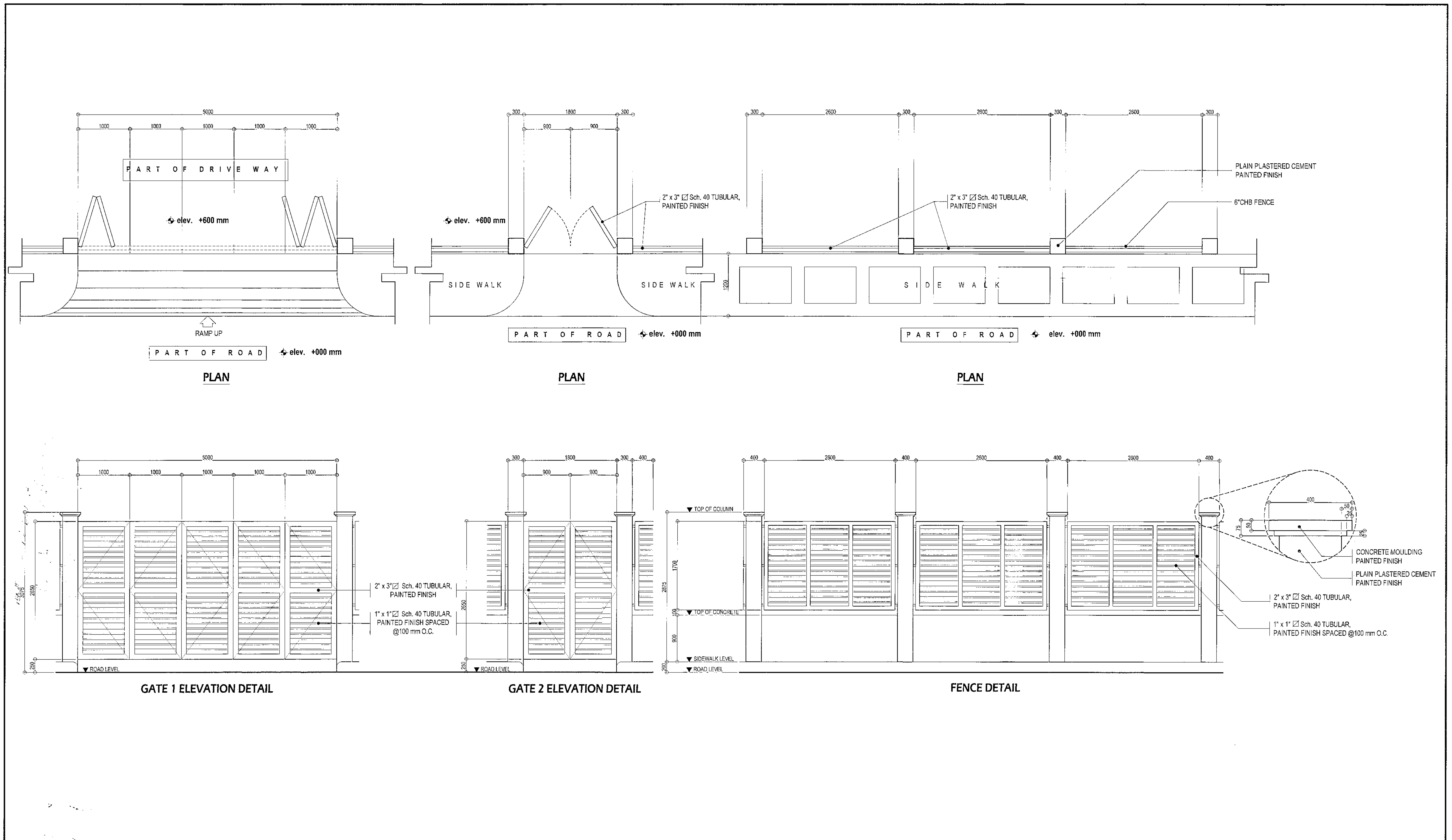
LAND DEVELOPMENT PLAN

PROJECT NO.:

DATE: October 2020
DRAWN BY: N. N. L./CS Dela Cruz
DESIGNED BY: Ar. M. T. De Leon
CHECKED BY: Ar. R. G. Resurreccion

SHEET NO.:

AW-01



1 GATE AND FENCE DETAIL

SCALE 1:40 METERS (20 x 30)
SCALE 1:80 METERS (A3)

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GENERAL CONSTRUCTION NOTES & SPECIFICATIONS

A. EARTHWORKS

1. CLEARING & GRUBBING

THE ENGINEER WILL ESTABLISH THE LIMITS OF WORK AND DESIGNATE ALL TREES, SHRUBS, PLANTS AND OTHER THINGS TO REMAIN. THE CONTRACTOR SHALL PRESERVE ALL OBJECTS DESIGNATED TO REMAIN. PAINT REQUIRED FOR CUT OR SCARRED SURFACE OF TREES OR SHRUBS SELECTED FOR RETENTION SHALL BE AN APPROVED ASPHALTUM BASE PAINT PREPARED ESPECIALLY FOR TREE SURGERY.

CLEARING SHALL EXTEND ONE (1) METER BEYOND THE TOE OF THE FILL SLOPES OR BEYOND ROUNDING OF CUT SLOPES AS THE CASE MAYBE FOR THE ENTIRE LENGTH OF THE PROJECT UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND PROVIDED IT IS WITHIN THE RIGHT OF WAY LIMITS OF THE PROJECT, WITH THE EXCEPTIION OF TREES UNDER THE JURISDICTION OF THE FOREST MANAGEMENT BUREAU (FMB).

2. REMOVAL OF STRUCTURES & OBSTRUCTIONS

THE CONTRACTOR SHALL PERFORM THE WORK DESCRIBED ABOVE, WITHIN AND ADJACENT TO THE ROADWAY, ON GOVERNMENT LAND OR EASEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL DESIGNATED SALVABLE MATERIALS SHALL BE REMOVED, WITHOUT UNNECESSARY DAMAGE IN SECTIONS OR PIECES WHICH MAY BE READILY TRANSPORTED, AND SHALL BE STORED BY THE CONTRACTOR AT SPECIFIED PLACES ON THE PROJECT OR AS OTHERWISE SHOWN IN THE SPECIAL PROVISIONS. NONPERISHABLE MATERIAL MAY BE DISPOSED OFF OUTSIDE THE LIMITS OF VIEW FROM THE PROJECT WITH WRITTEN PERMISSION OF THE PROPERTY OWNER ON WHOSE PROPERTY, THE MATERIAL IS PLACED. COPIES OF ALL AGREEMENTS WITH PROPERTY OWNERS ARE TO BE FURNISHED TO THE ENGINEER. BASEMENTS OR CAVITIES LEFT BY THE STRUCTURE REMOVAL SHALL BE FILLED ACCEPTABLE MATERIALS TO THE LEVEL OF THE SURROUNDING GROUND AND, IF WITHIN THE PRISM OF CONSTRUCTION, SHALL BE COMPACTED TO THE REQUIRED DENSITY.

3. EXCAVATION

A. ROADWAY EXCAVATION

ROADWAY EXCAVATION WILL INCLUDE EXCAVATION AND GRADING FOR ROADWAYS, PARKING AREAS, INTERSECTIONS, APPROACHES, SLOPE ROUNDING, BENCHING, WATERWAYS AND DITCHES; REMOVAL OF UNSUITABLE MATERIAL FROM THE ROADBED AND BENEATH EMBANKMENT AREAS; AND EXCAVATING SELECTED MATERIAL FOUND IN THE ROADWAY AS ORDERED BY THE ENGINEER FOR SPECIFIC USE IN THE IMPROVEMENT.

B. WHEN THERE IS EVIDENCE OF DISCREPANCIES ON THE ACTUAL ELEVATIONS AND THAT SHOWN ON THE PLANS, A PRE-CONSTRUCTION SURVEY REFERRED TO THE DATUM PLANE USED IN THE APPROVED PLAN SHALL BE UNDERTAKEN BY THE CONTRACTOR UNDER THE CONTROL OF THE ENGINEER TO SERVE AS BASES FOR THE COMPUTATION OF THE ACTUAL VOLUME OF THE EXCAVATED MATERIALS.

ALL EXCAVATIONS SHALL BE FINISHED TO REASONABLY SMOOTH AND UNIFORM SURFACES. NO MATERIALS SHALL BE WASTED WITHOUT AUTHORITY OF THE ENGINEER. EXCAVATION OPERATIONS SHALL BE CONDUCTED SO THAT MATERIAL OUTSIDE OF THE LIMITS OF SLOPES WILL NOT BE DISTURBED. PRIOR TO EXCAVATION, ALL NECESSARY CLEARING AND GRUBBING IN THAT AREA SHALL HAVE BEEN PERFORMED IN ACCORDANCE WITH ITEM 100, CLEARING AND GRUBBING.

4. STRUCTURE EXCAVATION

GENERAL, ALL STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SUFFICIENTLY IN THE ADVANCE OF THE BEGINNING OF ANY EXCAVATION SO THAT CROSS SECTIONAL ELEVATIONS AND MEASUREMENTS MAY BE TAKEN ON THE UNDISTURBED GROUND. THE NATURAL GROUND ADJACENT TO THE STRUCTURE SHALL NOT BE DISTURBED WITHOUT PERMISSION OF THE ENGINEER.

TRENCHES OR FOUNDATION PITS FOR STRUCTURES OR STRUCTURE FOOTINGS SHALL BE EXCAVATED TO THE LINES AND GRADES OR ELEVATIONS SHOWN ON THE PLANS OR AS STAKED BY THE ENGINEER. THEY SHALL BE OF SUFFICIENT SIZE TO PERMIT THE PLACING OF STRUCTURES OR STRUCTURE FOOTINGS OF THE FULL WIDTH AND LENGTH SHOWN. THE ELEVATIONS OF THE BOTTOMS OF FOOTINGS, AS SHOWN ON THE PLANS, SHALL BE CONSIDERED AS APPROXIMATE ONLY AND THE ENGINEER MAY ORDER, IN WRITING, SUCH CHANGES IN DIMENSIONS OR ELEVATIONS OF FOOTINGS AS MAY BE DEEMED NECESSARY, TO SECURE A SATISFACTORY FOUNDATION.

5. EMBANKMENT

PRIOR TO CONSTRUCTION OF EMBANKMENT, ALL NECESSARY CLEARING AND GRUBBING IN THAT AREA SHALL HAVE BEEN PERFORMED IN CONFORMITY WITH ITEM 100, CLEARING AND GRUBBING.

EMBANKMENT CONSTRUCTION SHALL CONSIST OF CONSTRUCTING ROADWAY EMBANKMENTS, INCLUDING PREPARATION OF THE AREAS UPON WHICH THEY ARE TO BE PLACED; THE CONSTRUCTION OF DIKES WITHIN OR ADJACENT TO THE ROADWAY AREAS WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED; AND THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN ROADWAY AREAS WHERE UNSUITABLE MATERIALS HAS BEEN REMOVED; AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLES, PITS, AND OTHER DEPRESSIONS WITHIN THE ROADWAY AREA.

6. COMPACTION EQUIPMENT AND DENSITY CONTROL STRIPS

- SHEEPSFOOT, TAMPING OR GRID ROLLERS SHALL BE CAPABLE OF EXERTING A FORCE OF 45 NEWTON PER MILLIMETER (POUNDS PER INCH) OF LENGTH OF ROLLER DRUM.
- STEEL - WHEEL ROLLERS THAN VIBRATORY SHALL BE CAPABLE OF EXERTING A FORCE OF NOT LESS THAN 45 NEWTON PER MILLIMETER OF WIDTH OF THE COMPRESSION ROLL OR ROLLS.
- VIBRATORY STEEL-WHEEL ROLLERS SHALL HAVE A MINIMUM MASS OF 6 TONNES. THE COMPACTOR SHALL BE EQUIPPED WITH AMPLITUDE AND FREQUENCY CONTROLS AND SPECIFICALLY DESIGNED TO COMPACT THE MATERIAL ON WHICH IT IS USED.
- PNEUMATIC-TIRE ROLLERS SHALL HAVE SMOOTH TREAD TIRES OF EQUAL SIZE THAT WILL PROVIDE A UNIFORM COMPACTING PRESSURE FOR THE FULL WIDTH OF THE ROLLER AND CAPABLE OF EXERTING A GROUND PRESSURE OF AT LEAST 550 KPA (80 POUNDS PER SQUARE INCH).
- HEAVIER COMPACTING UNIT MAY BE REQUIRED TO ACHIEVE THE SPECIFIED DENSITY OF THE EMBANKMENT.

7. OVERHAUL

OVERHAUL SHALL CONSIST OF AUTHORIZED HAULING IN EXCESS OF THE FREE-HAUL DISTANCE. FREE-HAUL DISTANCE IS THE SPECIFIED DISTANCE THAT EXCAVATED MATERIAL SHALL BE HAULED WITHOUT ADDITIONAL COMPENSATION. UNLESS OTHERWISE PROVIDED IN THE CONTRACT, THE FREE-HAUL DISTANCE SHALL BE 600 METERS.

B. SUB-BASE & BASE COURSE

1. AGGREGATE SUB-BASE COURSE

AGGREGATE FOR SUBBASE SHALL CONSIST OF HARD, DURABLE PARTICLES OR FRAGMENTS OF CRUSHED STONE, CRUSHED SLAG, OR CRUSHED OR NATURAL GRAVEL AND FILLER OF NATURAL OR CRUSHED SAND OR OTHER FINELY DIVIDED MINERAL MATTER. THE COMPOSITE MATERIAL SHALL BE FREE FROM VEGETABLE MATTER AND LUMPS OR BALLS OF CLAY AND SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY TO FORM A FIRM, STABLE SUBBASE.

SIEVE DESIGNATION		MASS PERCENT PASSING
STANDARD, (MM)	ALTERNATE US STANDARD	
50	2"	100
25	1"	55 - 85
9.5	3/8"	40 - 75
0.075	NO. 200	0 - 12

2. AGGREGATE BASE COURSE

AGGREGATE FOR BASE COURSE SHALL CONSIST OF HARD, DURABLE PARTICLES OR FRAGMENTS OF CRUSHED STONE, CRUSHED SLAG OR CRUSHED OR NATURAL GRAVEL AND FILLER OF NATURAL OR CRUSHED SAND OR OTHER FINELY DIVIDED MINERAL MATTER. THE COMPOSITE MATERIAL SHALL BE FREE FROM VEGETABLE MATTER AND LUMPS OR BALLS OF CLAY, AND SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY TO FORM A FIRM, STABLE BASE.

IN SOME AREAS WHERE THE CONVENTIONAL BASE COURSE MATERIALS ARE SCARCE OR NON-AVAILABLE, THE USE OF 40% WEATHERED LIMESTONE BLENDED WITH 60% CRUSHED STONES OR GRAVEL SHALL BE ALLOWED, PROVIDED THAT THE BLENDED MATERIALS MEET THE REQUIREMENTS OF THIS ITEM.

THE BASE COURSE MATERIAL SHALL CONFORM TO TABLE, WHICHEVER IS CALLED FOR IN THE BILL OF QUANTITIES.

SIEVE DESIGNATION		MASS PERCENT PASSING	
STANDARD, (MM)	ALTERNATE US STANDARD	GRADING A	GRADING B
50	2"	100	
37.5	1 - 1/2"	-	100
25.0	1"	60 - 85	-
19.0	3/4"	-	60 - 85
12.5	1/2"	35 - 65	-
4.75	NO. 4	20 - 50	30 - 55
0.425	NO. 40	5 - 20	8 - 25
0.075	NO. 400	0 - 12	2 - 14

3. LIME STABILIZED ROAD MIX BASE COURSE

IT SHALL CONSIST OF ANY COMBINATION OF GRAVEL, SAND, SILT AND CLAY OR OTHER APPROVED COMBINATION OF MATERIALS FREE FROM FROM VEGETABLE OR OTHER OBJECTIONABLE MATTER. IT MAY BE MATERIALS ENCOUNTERED IN THE CONSTRUCTION SITE OR MATERIALS OBTAINED FROM APPROVED SOURCES. THE CRUSHED OR UNCRUSHED GRANULAR MATERIAL SHALL CONSIST OF HARD, DURABLE STONES AND ROCKS, OF ACCEPTED QUALITY, FREE FROM AN EXCESS OF FLAT, ELONGATED, SOFT OR DISINTEGRATED PIECES OR OTHER OBJECTIONABLE MATTER. IT IS THE INTENT OF THIS SPECIFICATION TO UTILIZE SOILS EXISTING ON THE ROADBED IF THE QUALITY IS SATISFACTORY. IF THE QUALITY AND/OR QUANTITY IS DEFICIENT, THE SOIL AGGREGATE SHALL BE OBTAINED WHOLLY OR PARTLY FROM APPROVED OUTSIDE SOURCES.

THE SOIL-AGGREGATE SHALL CONFORM TO THE GRADING REQUIREMENTS OF TABLE BELOW.

SIEVE DESIGNATION		MASS PERCENT PASSING	
STANDARD, (MM)	ALTERNATE US STANDARD	GRADING A	GRADING B
50	2"	100	100
4.75	NO. 4	45 - 85	55 - 100
2.00	NO. 10	37 - 80	45 - 100
0.425	NO. 40	15 - 20	25 - 80
0.075	NO. 200	0 - 25	11 - 35

C. SURFACE COURSES

1. AGGREGATE SURFACE COURSES

THE AGGREGATE SHALL CONSIST OF HARD, DURABLE PARTICLES OR FRAGMENTS OF STONE OR GRAVEL AND SAND OR OTHER FINE MINERAL PARTICLES FREE FROM VEGETABLE MATTER AND LUMPS OR BALLS OF CLAY AND SUCH NATURE THAT IT CAN BE COMPACTED READILY TO FORM A FIRM, STABLE LAYER. IT SHALL CONFORM TO THE GRADING REQUIREMENTS SHOWN IN TABLE BELOW. WHEN TESTED BY AASHTO T11 AND T27.



SIEVE DESIGNATION		MASS PERCENT PASSING			
STANDARD, (MM)	ALTERNATE U.S. STANDARD	GRADING A	GRADING B	GRADING C	GRADING D
25	2"	100	100	100	100
9.5	3/8"	50 - 85	60 - 85	50 - 85	50 - 85
4.75	NO. 4	35 - 65	60 - 100	55 - 100	35 - 65
2.00	NO. 10	25 - 50	40 - 70	40 - 100	25 - 50
0.425	NO. 40	15 - 35	25 - 45	20 - 50	15 - 35
0.075	NO. 200	5 - 20	5 - 20	6 - 20	5 - 20

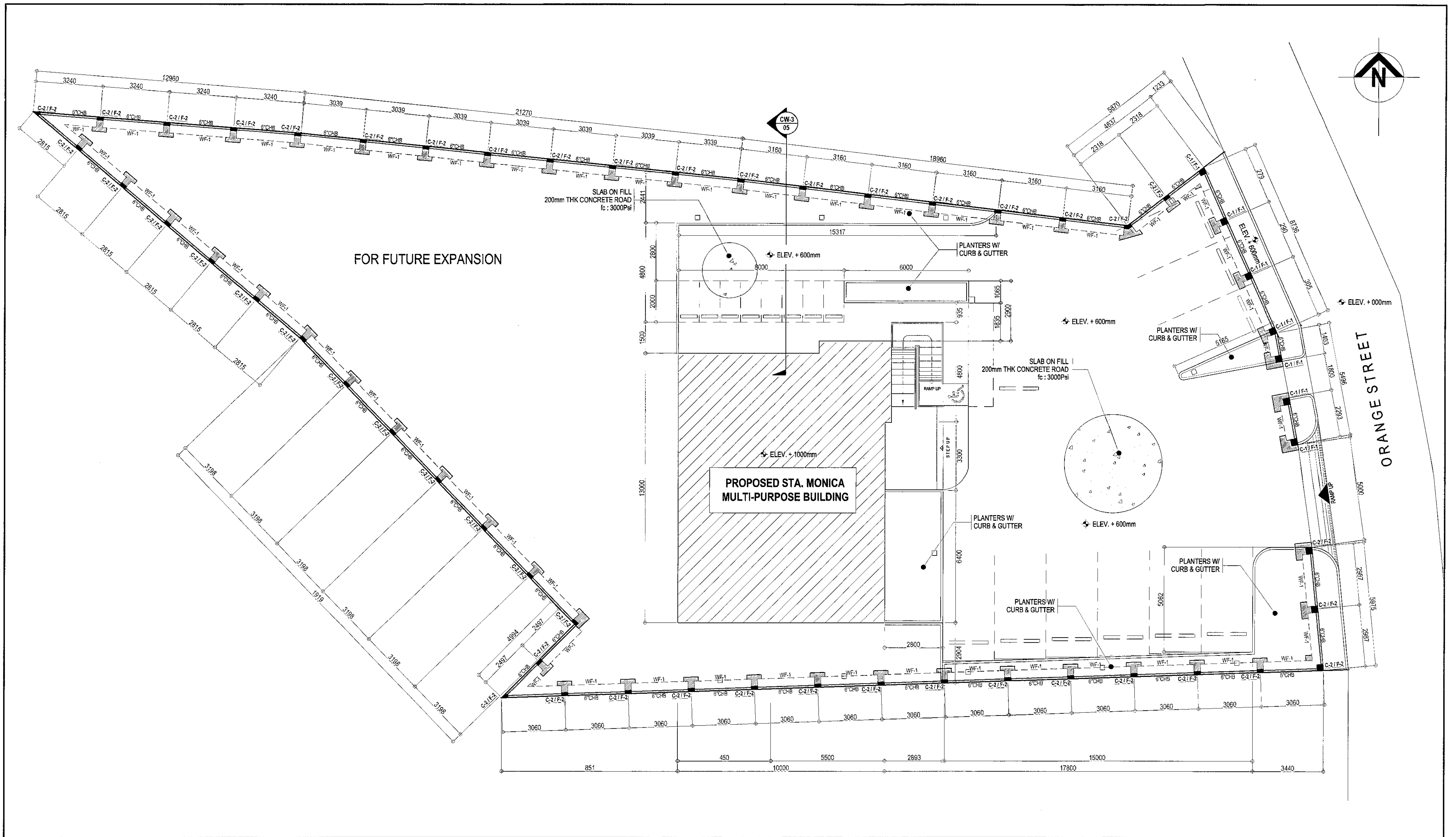
2. PORTLAND CEMENT CONCRETE PAVEMENT



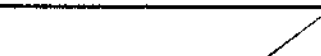



A. IT SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE OF ITEM 700, HYDRAULIC CEMENT. ONLY TYPE 1 PORTLAND CEMENT SHALL BE USED UNLESS OTHERWISE PROVIDED FOR IN THE SPECIAL PROVISIONS. DIFFERENT BRANDS OR THE SAME BRANDS FROM DIFFERENT MILLS SHALL NOT BE MIXED NOR SHALL THEY BE USED ALTERNATELY UNLESS THE MIX IS APPROVED BY THE ENGINEER. HOWEVER, THE USE OF PORTLAND POZZOLAN CEMENT TYPE IP MEETING THE REQUIREMENTS OF AASHTO M 240/ASTM C 695, SPECIFICATIONS FOR BLENDED HYDRAULIC CEMENT SHALL BE ALLOWED, PROVIDED THAT TRIAL TRIAL MIXES SHALL BE DONE AND THAT THE MIXES MEET THE CONCRETE STRENGTH REQUIREMENTS, THE AASHTO/ASTM PROVISIONS PERTINENT TO THE USE OF PORTLAND POZZOLAN TYPE IP SHALL BE ADOPTED. CEMENT WHICH FOR ANY REASON, HAS BECOME PARTIALLY SET OR WHICH CONTAINS LUMPS OF CAKED CEMENT WILL BE REFLECTED. CEMENT SALVAGED FROM DISCARDED OR USED BAGS SHALL NOT BE USED. SAMPLES OF CEMENT SHALL BE OBTAINED IN ACCORDANCE WITH AASHTO T127.

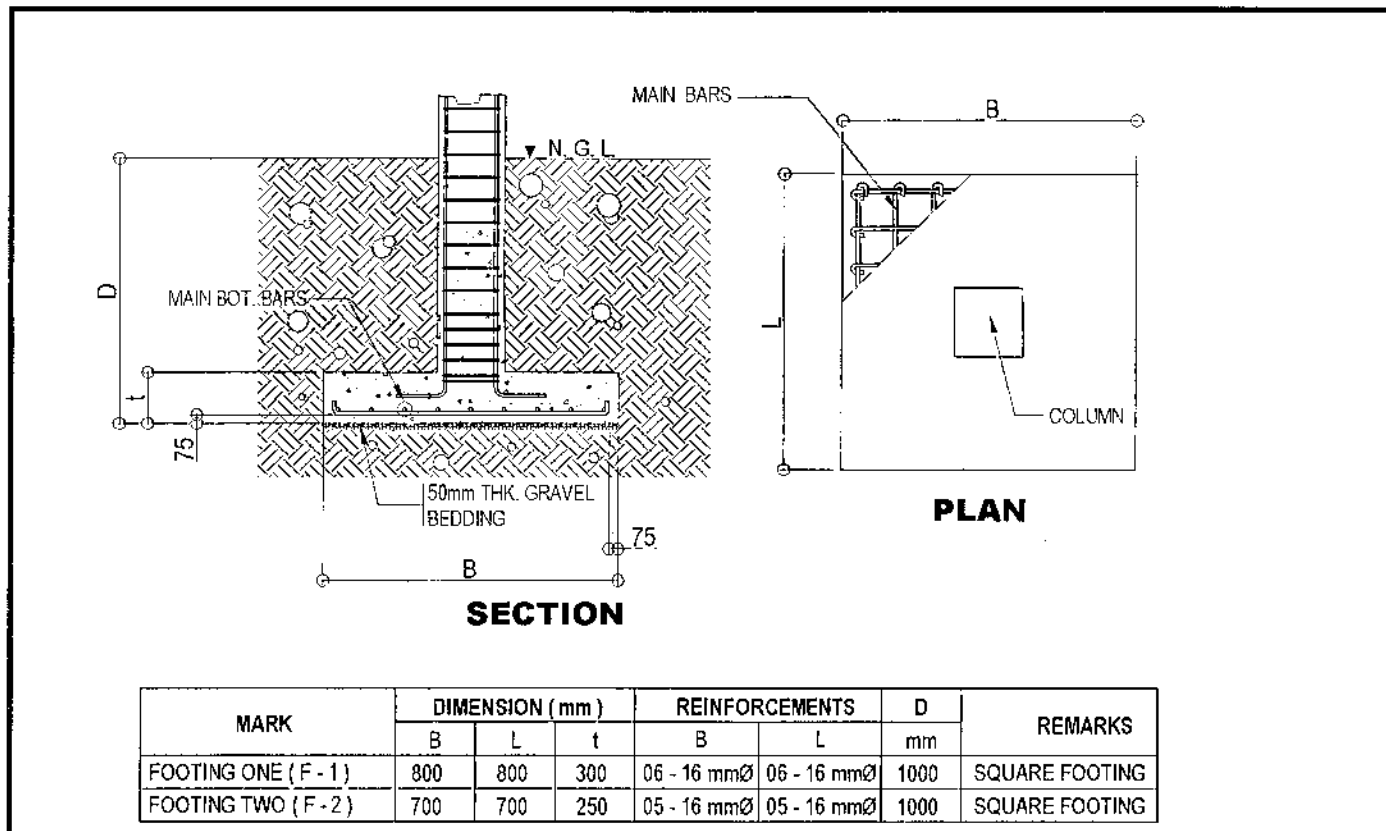
B. WATER USED IN MIXING, CURING OR OTHER DESIGNATED APPLICATION SHALL BE REASONABLY CLEAN AND FREE OF OIL, SALT, ACID, ALKAL, GRASS OR OTHER SUBSTANCES INJURIOUS TO THE FINISHED PRODUCT. WATER WILL BE TESTED IN ACCORDANCE WITH AND SHALL MEET THE REQUIREMENTS OF ITEM 714, WATER. WATER WHICH IS DRINKABLE MAY BE USED WITHOUT TEST. WHERE THE SOURCE OF WATER IS SHALLOW, THE INTAKE SHALL BE SO ENCLOSED AS TO EXCLUDE SILT, MUD, GRASS OR OTHER FOREIGN MATERIALS.

C. IT SHALL CONFORM TO THE REQUIREMENTS OF ITEM 404, REINFORCING STEEL, DOWELS AND TIE BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 OR M 42, EXCEPT THAT RAIL STEEL SHALL NOT BE USED FOR TIE BARS THAT ARE TO BE BENT AND TEST RAUGHTENED DURING CONSTRUCTION. TIE BARS SHALL BE DEFORMED BARS. DOWELS SHALL BE PAINTED WITH ONE COAT OF APPROVED LEAD OR TAR PAINT.

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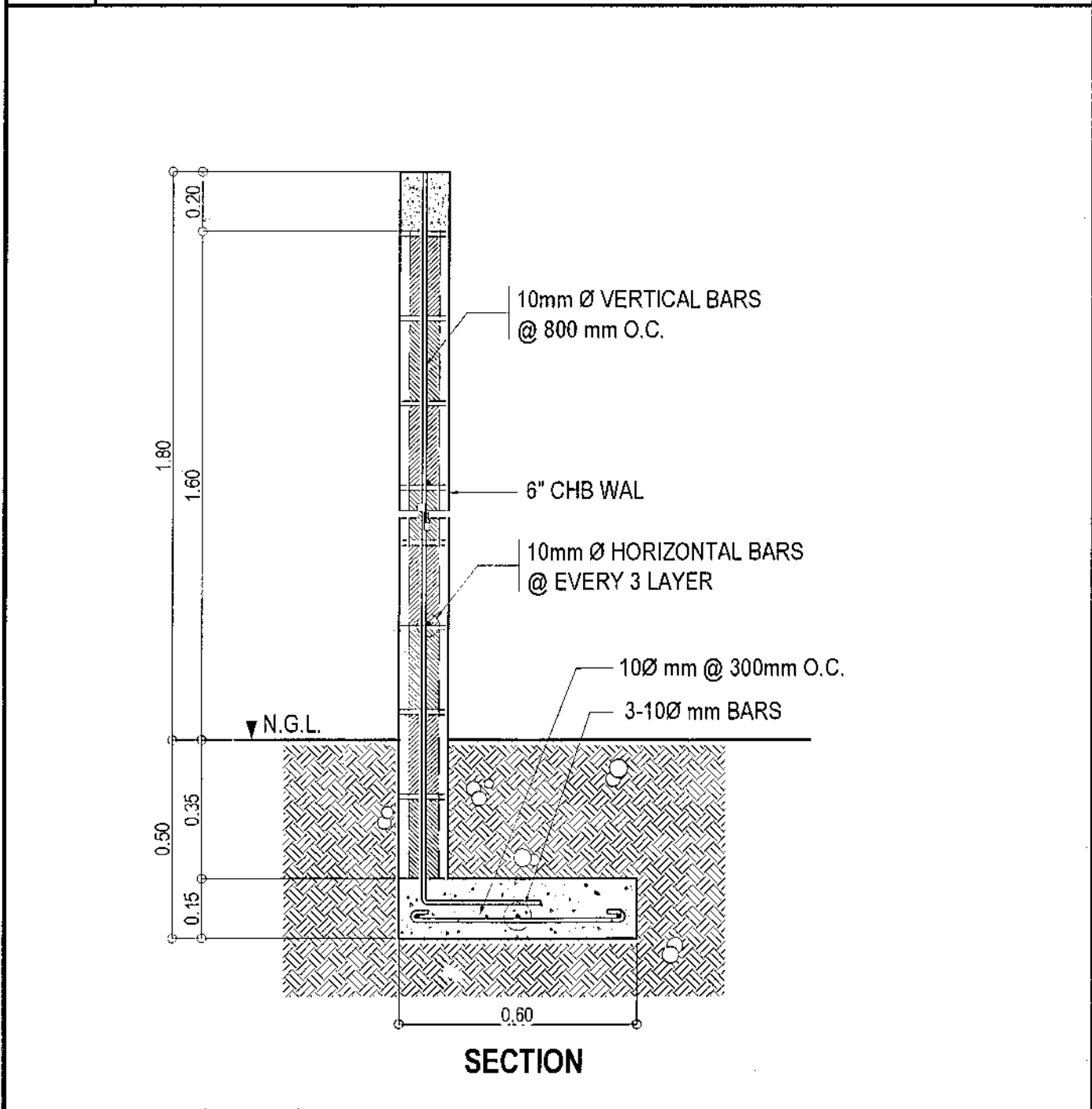
1 SITE DEVELOPMENT FOUNDATION PLAN										SCALE 1:100 METERS (20 x 30) SCALE 1:200 METERS(A3)											
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CHECKED BY	Engr. R. Debatista																				




1 SCHEDULE OF COLUMN FOOTING

MARK	C-1	C-2
FOUNDATION TO DECK FLOOR		
MAIN REINF.	04-16 mmØ	4-10mmØ
CONF. HOOPS	1-10mmØ @ 150mm O.C.	1-10mmØ @ 150mm O.C.
COL. TIES	1-10mmØ @ 200mm O.C.	1-10mmØ @ 200mm O.C.
JOINT HOOPS	1-10mmØ @ 100mm O.C.	1-10mmØ @ 100mm O.C.


2 SCHEDULE OF COLUMN



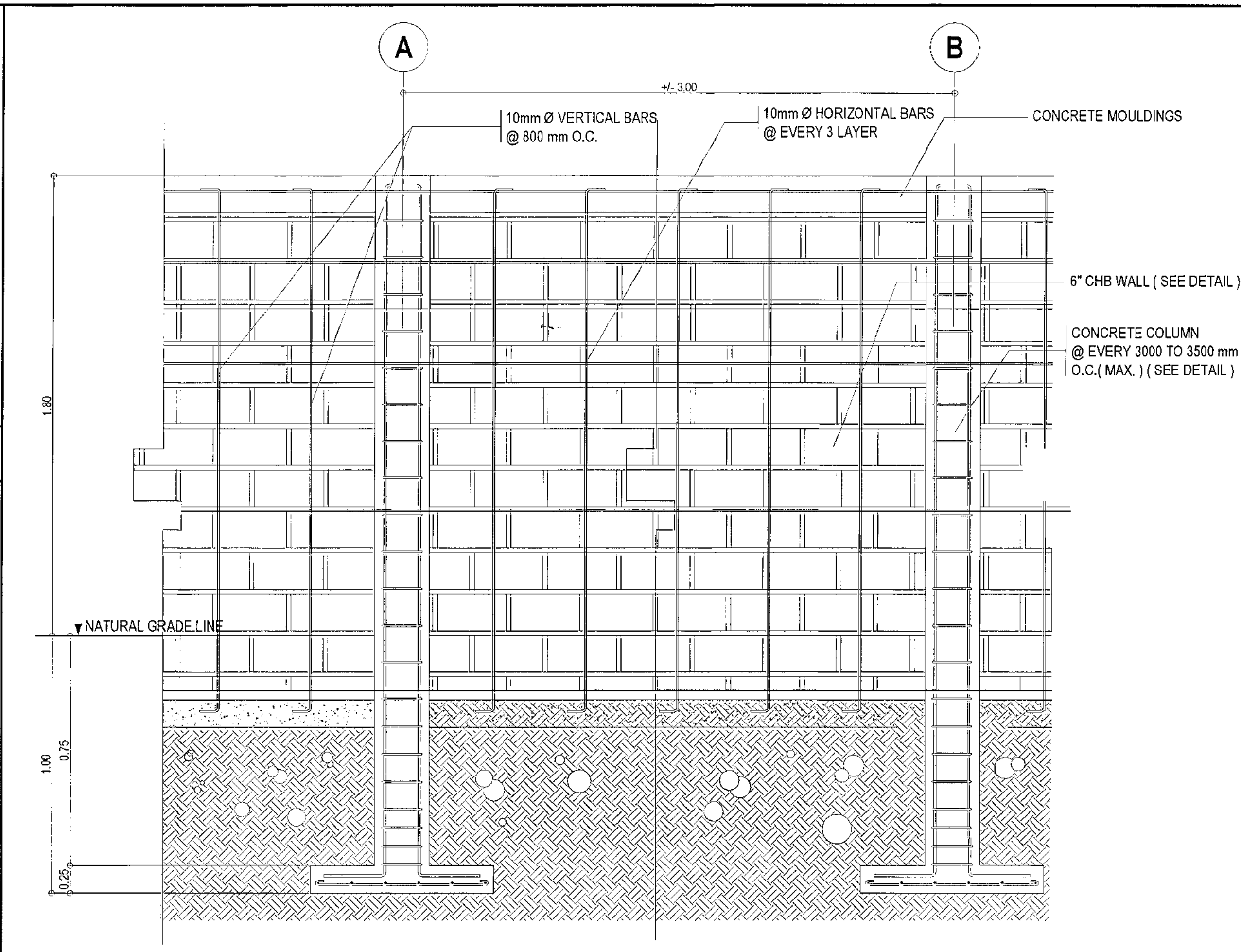
3 DETAIL OF WF-1



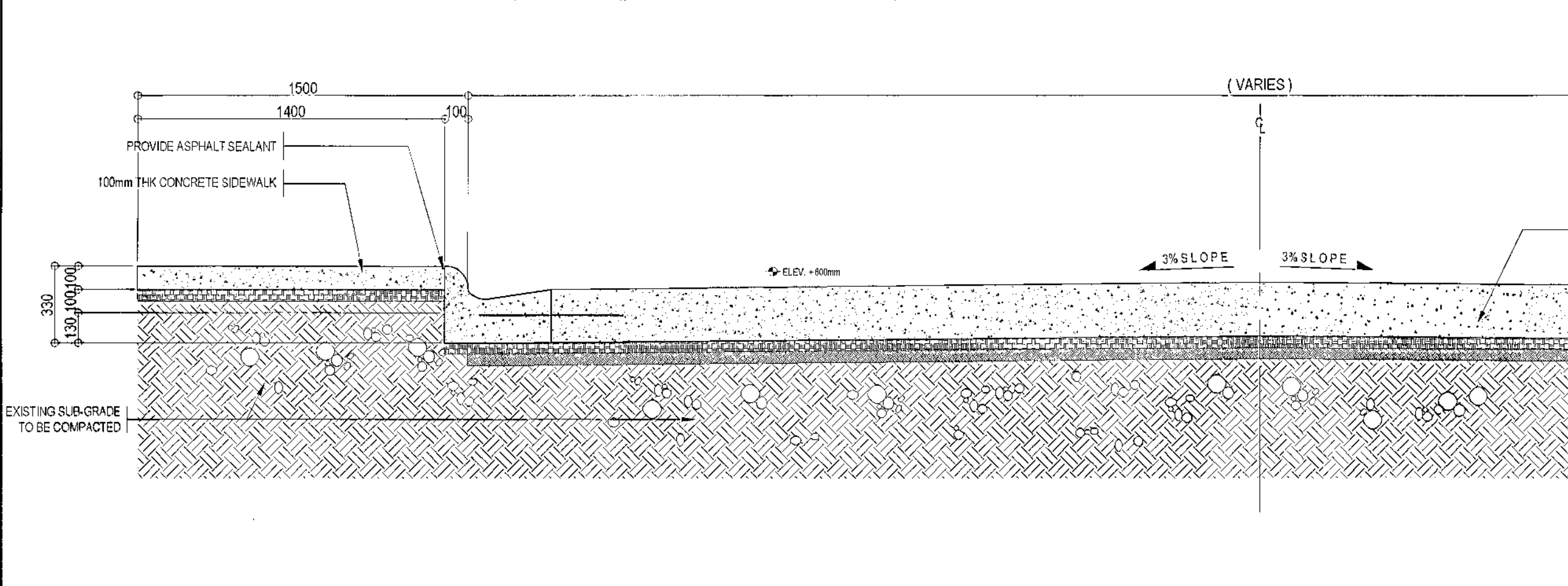
Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
9F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



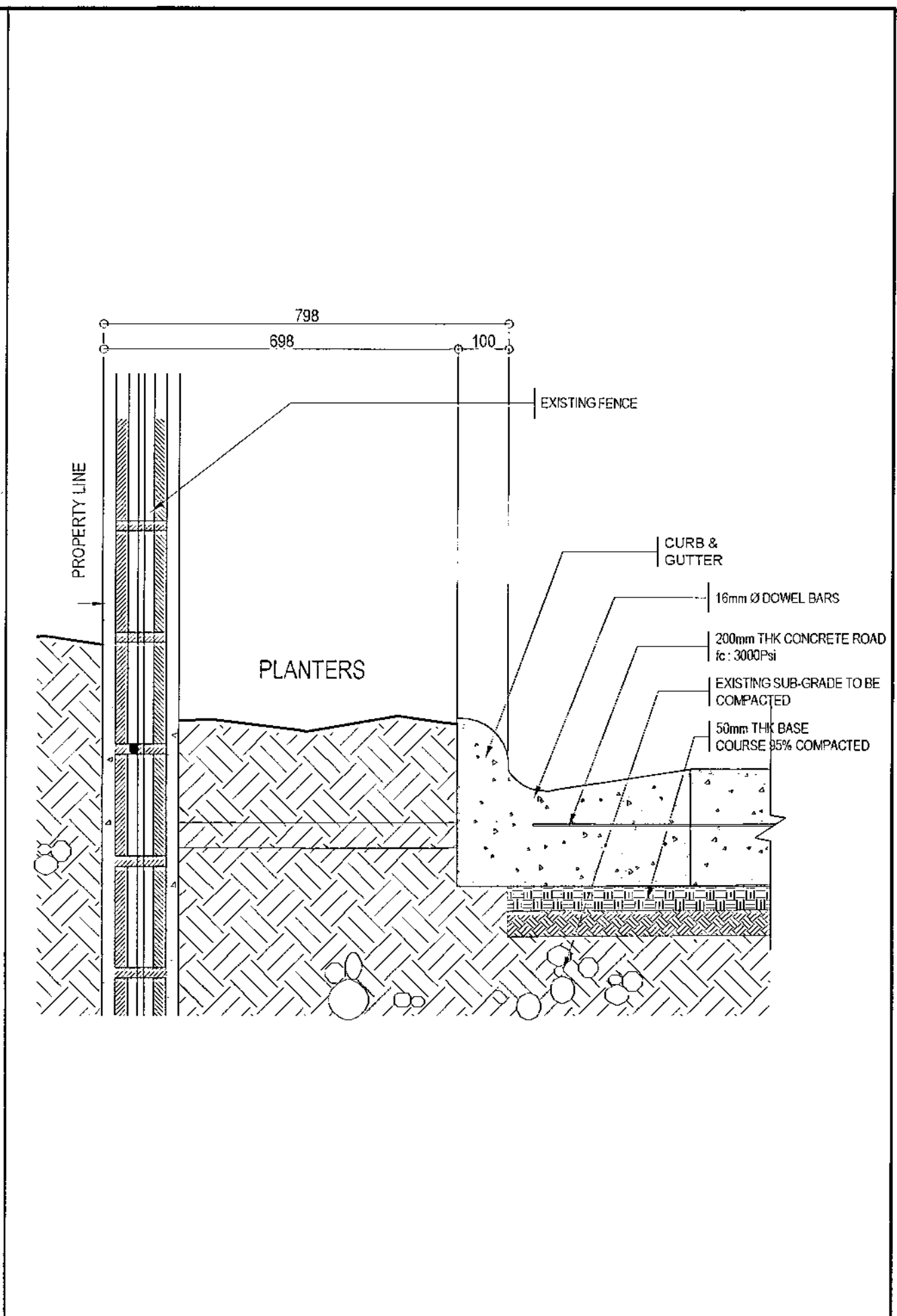
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PROJECTS OR BUILDINGS, WHETHER
EXECUTED PARTLY OR IN WHOLE.



4 DETAIL OF WALL & COLUMN FOOTINGS



5 DRIVEWAY SECTION



6 PLANTERS DETAIL

RECOMMENDING APPROVAL

APPROVED BY :

PROJECT TITLE :

SHEET CONTENTS :

PROJECT NO.:

SHEET NO.:

ARCH. LUCILLE H. CHUA, fuap, piep
CITY ARCHITECT

ENGR. ISAGANI R. VERZOSA JR.
CITY ENGINEER

HON. MA. JOSEFINA G. BELMONTE
MAYOR

PROPOSED CONSTRUCTION OF
STA. MONICA MULTI-PURPOSE BUILDING

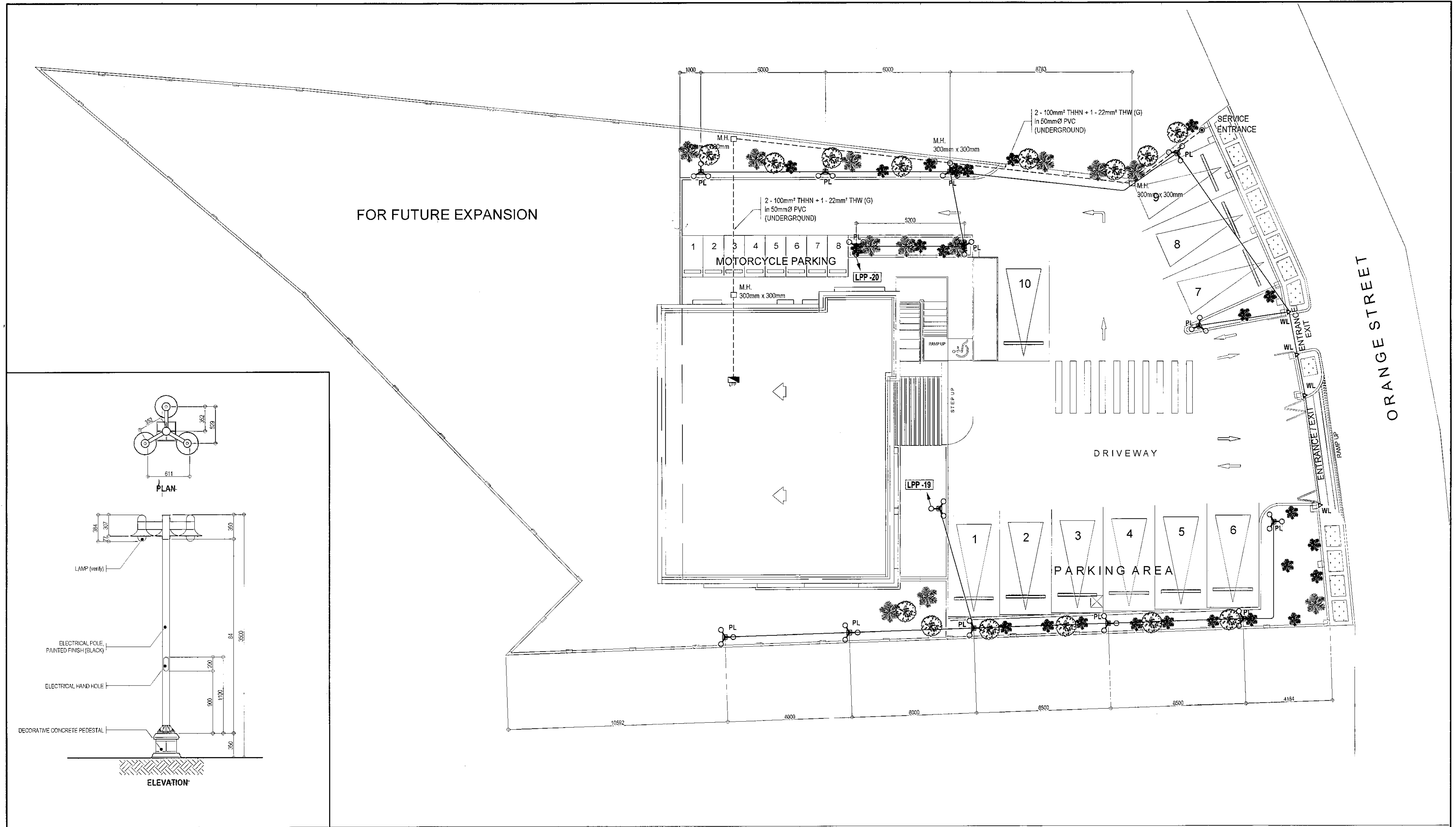
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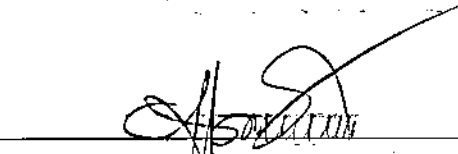
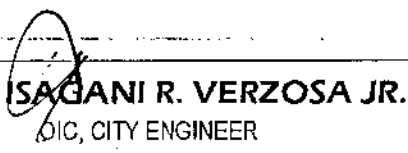

SCHEDULE OF COLUMN FOOTING
DETAIL OF WF-1
DETAIL OF WALL & COLUMN FOOTINGS
ROAD SECTION
PLANTERS DETAIL
EXPANSION JOINT DETAIL

DATE: October 2020
DRAWN BY: N. N. L.
DESIGNED BY: Engr. A. Sales
CHECKED BY: Engr. R. Dela Cruz

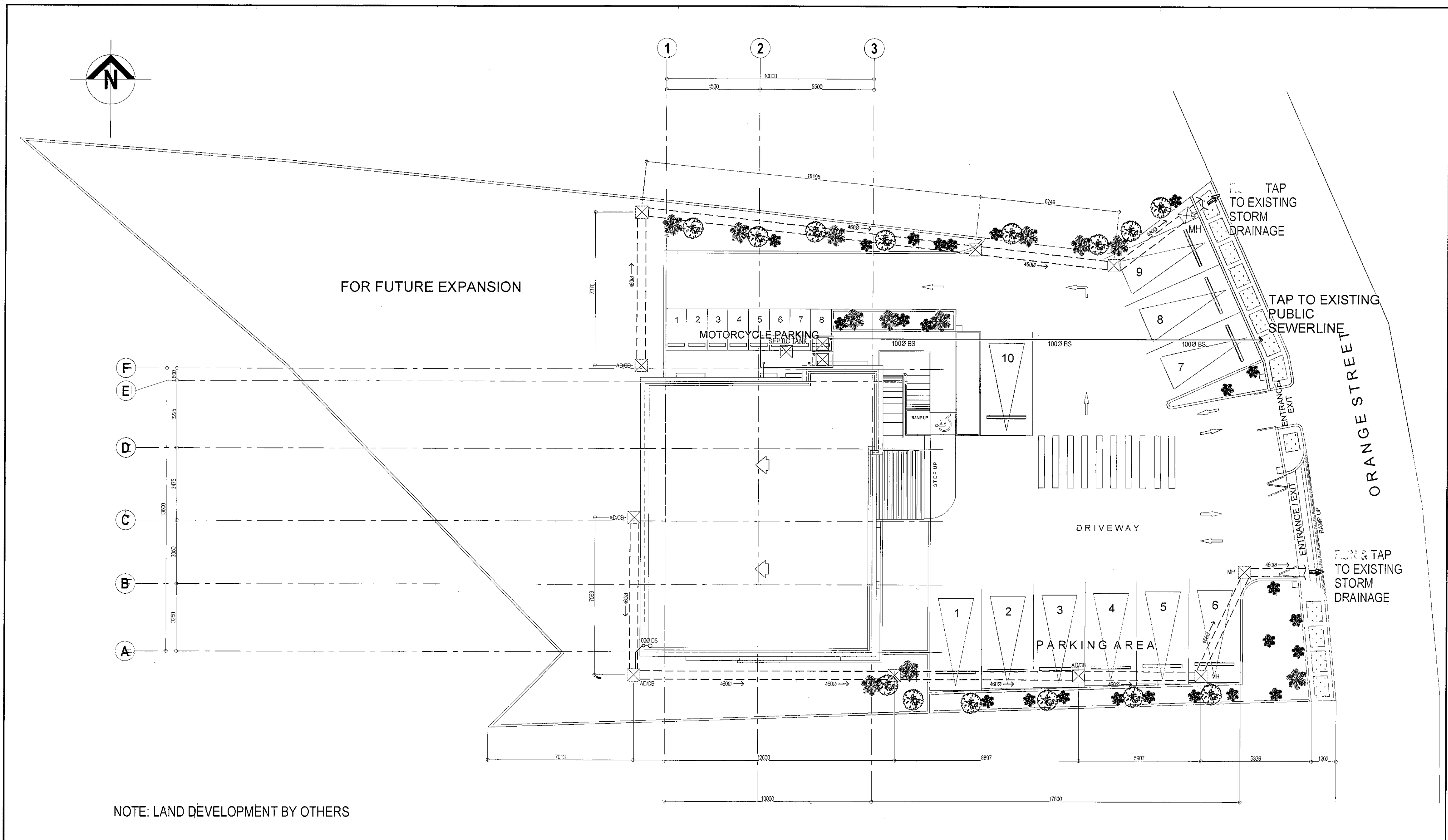
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CW-03



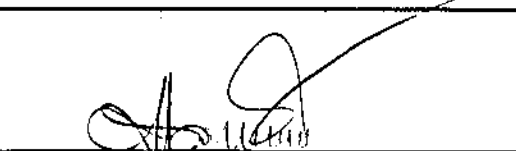

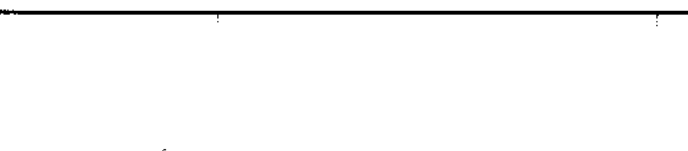





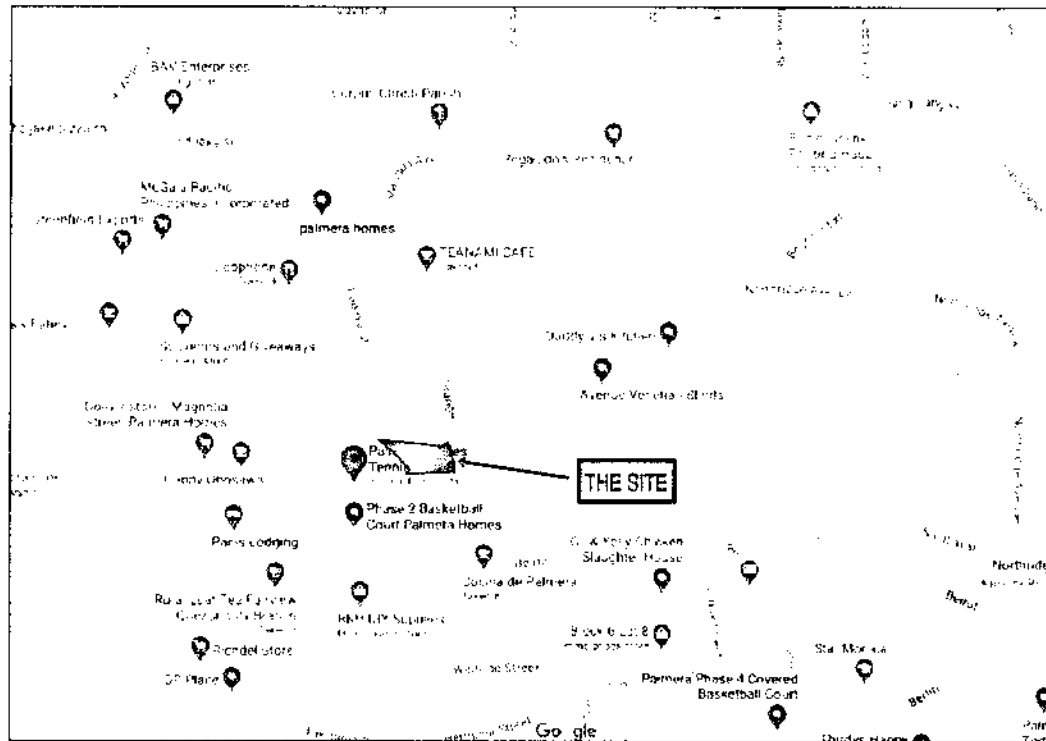
1 PARK LIGHT DETAIL		2 SITE DEVELOPMENT LIGHTING LAYOUT		SCALE 1:100 METERS (20 x 30) SCALE 1:200 METERS(A3)														
<div><div>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DE MAN, QUEZON CITY</div></div>	<div><div>PROVISO: DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</div></div>	RECOMMENDING APPROVAL		APPROVED BY :		PROJECT TITLE :	SHEET CONTENTS :	PROJECT NO.:	SHEET NO.:									
		<div> Ar. LUCILLE H. CHUA, fuap, piep CITY ARCHITECT</div>		<div> ENGR. SAGANI R. VERZOSA JR. OIC, CITY ENGINEER</div>		PROPOSED CONSTRUCTION OF STA. MONICA-MULTI-PURPOSE BUILDING		PARK LIGHT DETAIL SITE DEVELOPMENT LIGHTING LAYOUT		<table><tr><td>DATE</td><td>November 2020</td></tr><tr><td>DRAWN BY</td><td>C.S.Delacruz</td></tr><tr><td>DESIGNED BY</td><td>Engr. A.R.G. / E.R.S.</td></tr><tr><td>CHECKED BY</td><td>Engr. T.B. Infante Jr.</td></tr></table>	DATE	November 2020	DRAWN BY	C.S.Delacruz	DESIGNED BY	Engr. A.R.G. / E.R.S.	CHECKED BY	Engr. T.B. Infante Jr.
		DATE	November 2020															
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DESIGNED BY	Engr. A.R.G. / E.R.S.																	
CHECKED BY	Engr. T.B. Infante Jr.																	
		<div> HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.</div>		LOCATION : BRGY. STA. MONICA, Q.C.														
									CW-04									

CW-04



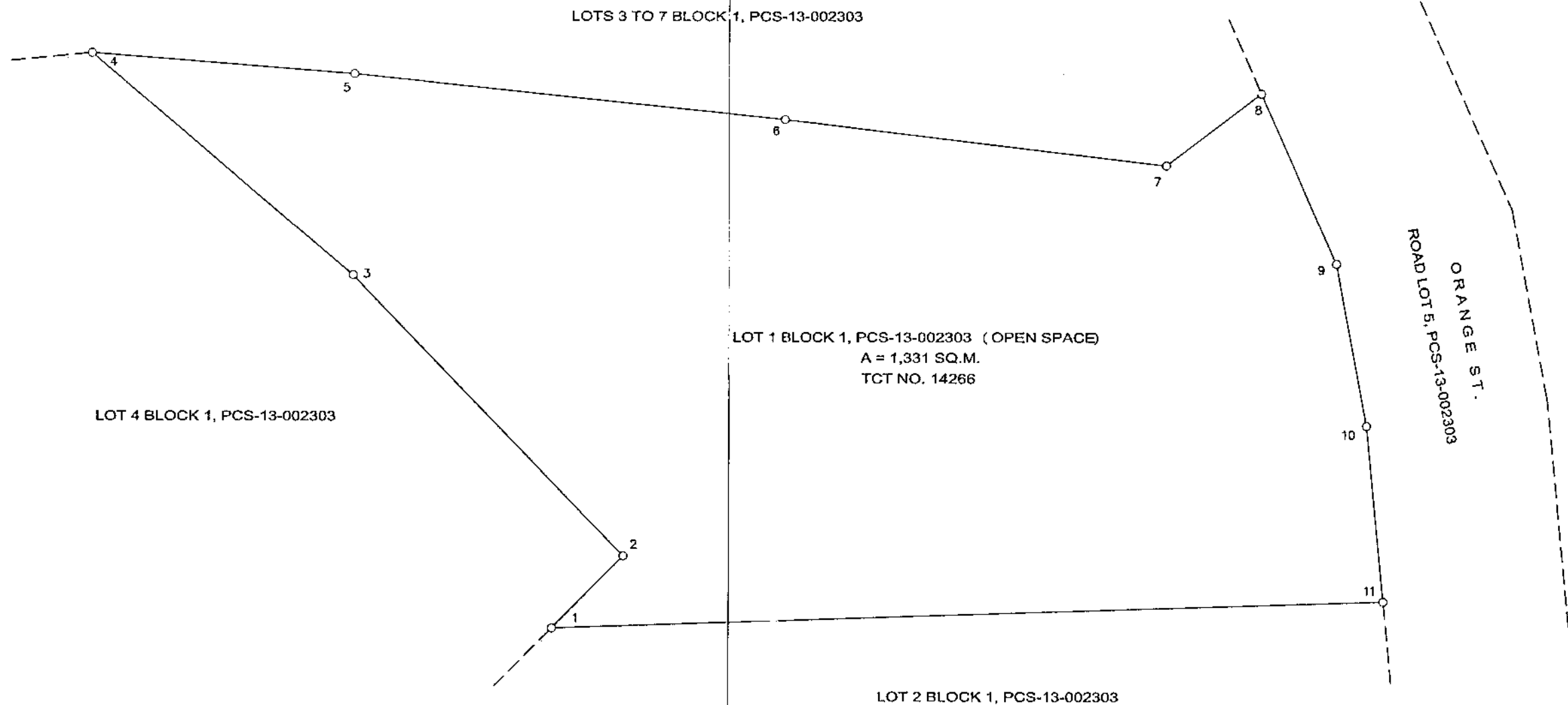
NOTE: LAND DEVELOPMENT BY OTHERS

1 SITE DEVELOPMENT STORM DRAIN LAYOUT										SCALE 1:100 METERS (20 x 30) SCALE 1:200 METERS(A3)								
 <div>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 51F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</div>		PROVISO:	RECOMMENDING APPROVAL		APPROVED BY:		PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:								
		DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SIGNED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXERCISED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE DIVISION OF SMO DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE PREPARATION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.	 Ar. LUCILLE H. CHUA , fuap, piep CITY ARCHITECT	 ENGR. ISAGANI R. VERZOSA JR. OIC, CITY ENGINEER	 HON. MA. JOSEFINA G. BELMONTE MAYOR Q.C.	PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING LOCATION : BRGY. STA. MONICA, Q.C.	SITE DEVELOPMENT STORM DRAIN LAYOUT		<table><tr><td>DATE</td><td>November 2020</td></tr><tr><td>DRAWN BY</td><td>M. N. L. /</td></tr><tr><td>DESIGNED BY</td><td> Pulmones</td></tr><tr><td>CHECKED BY</td><td>Engr. E. R. Sibucan</td></tr></table>	DATE	November 2020	DRAWN BY	M. N. L. /	DESIGNED BY	 Pulmones	CHECKED BY	Engr. E. R. Sibucan	CW-05
										DATE	November 2020							
DRAWN BY	M. N. L. /																	
DESIGNED BY	 Pulmones																	
CHECKED BY	Engr. E. R. Sibucan																	



VICINITY MAP (NOT TO SCALE)

TECHNICAL DESCRIPTIONS		
LINE	BEARING	DISTANCE (m)
LOT 1 BLOCK 1, PCS-13-002303		
1-2	N44°42'E	5.00
2-3	N43°58'W	19.19
3-4	N49°47'W	16.89
4-5	S85°29'E	12.96
5-6	S84°05'E	21.27
6-7	S83°11'E	18.96
7-8	N52°39'E	5.87
8-9	S24°02'E	9.16
9-10	S10°44'E	8.10
10-11	S05°38'E	8.70
11-1	S88°04'W	40.99



SKETCH / LOT PLAN OF :

LOT 1 BLOCK 1, PCS-13-002303 (OPEN SPACE)

LOCATION : BRGY. STA. MONICA, DISTRICT 5, QUEZON CITY

PREPARED BY:

SURVEY
PLANNING AND PROGRAMMING DIVISION
DEPARTMENT OF ENGINEERING



Republika ng Pilipinas
Lungsod ng Quezon
KAGAWARAN NG INHINYERA
(City Engineering Department)

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

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

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

Daywork Schedule

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

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

Provisional Sums

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

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

Signature Box

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

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

PROJECT TITLE: **PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE HALL**

LOCATION : **BARANGAY STA. MONICA, DISTRICT 5, QUEZON CITY**

PROJECT NO. : **21 - 000025**

DURATION : **Two Hundred Forty (240) Calendar Days**

BREAKDOWN OF COST

ITEM NO.	WORK DESCRIPTION	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	MULTI-PURPOSE BUILDING				
III	LAND DEVELOPMENT WORKS				

TOTAL COST **P** _____

LUMP SUM BID IN WORDS : _____

Contractor : _____

BILL OF QUANTITIES
(Building Construction/Rehabilitation Project)

PROJECT TITLE : PROPOSED CONSTRUCTION OF STA. MONICA MULTI-PURPOSE BUILDING

LOCATION : BARANGAY STA. MONICA, DISTRICT 5, QUEZON CITY

PROJECT NO. : 21 - 00025

DURATION : Two Hundred Forty (240) Calendar Days

SCOPE OF WORKS:

I GENERAL REQUIREMENTS

1. General Requirements include temporary facilities and utilities, billboard, scaffolding, construction safety and health, and clearing, hauling and disposal of construction materials and debris.
2. All necessary testing and commissioning shall be performed in accordance to standards.

II CONSTRUCTION OF MULTI-PURPOSE BUILDING

1. Site Works include layout and staking, site clearing and preparation.
2. Civil/Structural works concrete works, masonry works, metal works, and roofing works.
3. Provision of thermal and moisture protection for the entire structure.
4. Architectural Works include floor finishes, wall finishes and partitions, ceiling works, carpentry works, and painting works.
5. Installation of doors, door jambs, and windows.
6. Installation of logos and lettering.
7. Installation of sanitary/plumbing roughing-ins, equipment, fixtures and accessories.
8. Installation of electrical roughing-ins, wirings, devices and fixtures.
9. Installation of panel board and accessories.
10. Auxiliary System Works include of Closed-Circuit Television (CCTV) System, and Telephone and Data System.
11. Installation of ventilation fans, and window type and split type air conditioning units.

III LAND DEVELOPMENT WORKS

1. Construction of curb and gutter.
2. Construction of side walk, driveway, parking area and motorcycle parking.
3. Construction of perimeter fence.
4. Construction of main entrance gate and service entrance gate.
5. Construction of area drain and catch basin.
6. Supply and installation of parklights.

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
I	GENERAL REQUIREMENTS				
	Billboard	1	pc	₱	₱
	Cleaning, Hauling and Disposal of Construction Materials and Debris	89	t.l.		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	706	sq.m.		
	Temporary Electrical and Water Facilities	240	days		
	Temporary Enclosure Around the Construction Area (h=2.4m)	167	l.m.		
				Direct Cost I	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
II	MULTI-PURPOSE BUILDING				
1	SITE WORKS				
	Layout and staking	201	sq.m.	₱	₱
	Site Clearing and Preparation	201	sq.m.		
	Excavation for structures				
	Column Footing	104	cu.m.		
	Wall Footing	80	cu.m.		
	Slab-on-fill	15	cu.m.		
				Subtotal	₱
	Soil Treatment	241	sq.m	₱	₱
	Gravel Bedding	12	cu.m		
	Imported Earthfill	144	cu.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Backfill and Compaction	148	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost 1	₱
				Labor Cost 1	
				Direct Cost 1	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
2	CIVIL WORKS / STRUCTURAL WORKS				
	Concreting				
	Ready Mix 21 MPa, 19mm Gravel, @ 28 days				
	Column Footing	16	cu.m.	₱	₱
	Wall Footing	12	cu.m.		
	Column	12	cu.m.		
	Ramp	2	cu.m.		
	Slab-on-Fill	16	cu.m.		
	Beam	16	cu.m.		
	Suspended Slab	17	cu.m.		
	On Site Mix				
	Stairs	4	cu.m.		
	Stiffener Beam/Column (Window header and wall intersection)	3	cu.m.		
	Counter Top	1	cu.m.		
	Canopy	2	cu.m.		
	Reinforcing Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ, Wall Footing	445	kgs		
	10mmØ, Column	1,312	kgs		
	10mmØ, Ramp	148	kgs		
	10mmØ, Slab on Fill	389	kgs		
	10mmØ, Beam	900	kgs		
	10mmØ, Suspended Slab	676	kgs		
	10mmØ, Stairs	452	kgs		
	10mmØ, Stiffener Beam/Column (wall intersection and beam header)	203	kgs		
	10mmØ, Counter Top	12	kgs		
	10mmØ, Canopy	86	kgs		
	12mmØ Reinforcing Steel Bar				
	12mmØ, Footing	258	kgs		
	12mmØ, Suspended Slab	1,781	kgs		
	12mmØ, Stiffener Beam/Column (wall intersection and beam header)	264	kgs		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Reinforcing Steel Bar				
	16mmØ, Column	2,004	kgs		
	16mmØ, Beam	1,999	kgs		
	20mmØ Reinforcing Steel Bar				
	20mmØ, Footing	1,587	kgs		
	Formworks				
	Column Footing	39	sq.m.		
	Wall Footing	48	sq.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Zocalo	3	sq.m.		
	Column	149	sq.m.		
	Beam	168	sq.m.		
	Suspended Slab	129	sq.m.		
	Stairs	27	sq.m.		
	Stiffener Beam/Column	47	sq.m.		
	Counter Top	2	sq.m.		
	Canopy	12	sq.m.		
	Scaffolding and Shoring				
	Column	119	sq.m.		
	Beam	170	sq.m.		
	Suspended Slab	142	sq.m.		
	Stairs	14	sq.m.		
	Stiffener Beam/Column	65	sq.m.		
	Counter Top	2	sq.m.		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	351	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	251	sq.m.		
	Plastering of Columns	156	sq.m.		
	Plastering of Door and Window Opening	19	sq.m.		
	Thermal and Moisture Protection				
	Vapor Barrier	144	sq.m.		
	Cementitious Capillary Type Waterproofing	94	sq.m.		
	Metal Fabrication				
	Trusses				
	50mm x100mm x 1.6mm Channel	662	kgs		
	63mm x 63mm x 6.25mm Angle	1,467	kgs		
	50mm x 50mm x 4.7mm Angle	752	kgs		
	7.9mm Gusset Plate	126	kgs		
	16mm Ø Sagrod	72	kgs		
	PWD Railing				
	50mm Ø Stainless Steel	18.3	l.m.		
	Main Stair Railing				
	50mm Ø Stainless Steel	7.2	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Fire Exit				
	Fire Exit Railing	8.4	l.m.		
	50mm x 300mm x 7.9mm	329	kgs		
	250mm x 500mm x 25mm	52	kgs		
	150mm x 400mm I Beam	162	kgs		
	3.2mm thk Checkered Plate	521	kgs		
	20mm Ø x 150mm Long Dyna Bolt	16	pcs		
	Entrance canopy				
	50mm x 100mm Tubular	1,096	kgs		
	Vertical Railing				
	50mm x 100mm Tubular	950	kgs		
	Miscellaneous				
	Acetylene Tank Refill	3	tank		
	Assorted Metal Drill Bit	3	pcs		
	Cut Off Blade	5	pcs		
	Grinding Disc Metal	5	pcs		
	Oxygen Tank Refill	6	tank		
	Welding Rod	8	box		
	Roofing works				
	Pre-painted Rib Type G.I Roofing	161	sq.m		
	Polycarbonate Sheet	9	sq.m		
	G.I Flashing	37	lm		
	Heat Insulation	161	sq.m		
	Tekscrew	792	pcs		
	Silicon Sealant	3	tubes		
				Materials Cost 2	₱
				Labor Cost 2	
				Subtotal 2	₱
3	ARCHITECTURAL WORKS				
	Floor Finishes				
	300x300mm Homogenous Tiles with Anti Slip Grooves	16	sq.m.	₱	₱
	600mm x 600mm Ceramic Tiles	237	sq.m.		
	300mm x 300mm Ceramic Tiles	13	sq.m.		
	600mm x 600mm Rustic Ceramic Tiles	31	sq.m.		
	Concrete Topping	297	sq.m.		
	Wall Partitioning and Finishes				
	600mm x 600mm Rustic Ceramic Tiles	79	sq.m.		
	300mm x 300mm Ceramic Tiles	3	sq.m.		
	Vigan Bricks 1"x2"x8"	92	sq.m.		
	Concrete moulding	54	l.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Installation of Doors and Jambs				
	D1 - 2.15m x 2.59m Aluminum Framed Double Leaf Swing Glass Door with Fixed Glass Panels (Powder Coated)	1	set	₱	₱
	D2 - 2.15m x 1.78m Aluminum Framed Double Leaf Swing Glass Door (Powder Coated)	2	sets		
	D3 - 2.15m x 1.0m Aluminum Framed Swing Glass Door with Fixed Glass Panels	2	sets		
	D4 - 2.15m x 1.0m Panel Door	1	set		
	D5 - 2.15m x 0.8m Panel Door	4	sets		
	D6 - 2.15m x 0.8m Metal Door (Fire Exit)	2	sets		
	Door Jambs				
	Door Jamb D4	1	set		
	Door Jamb D5	4	sets		
	Hardware and Accessories				
	Door Hinge	30	pcs		
	Door Knob	10	pcs		
	Installation of Windows				
	W1 - 2.225m x 3.95m Aluminum Framed Fixed Glass Panels with Awning Type Transoms for Ventilation (Powder Coated)	1	set		
	W2 - 2.4m x 1.5m Aluminum Framed Casement Window (Powder Coated)	7	sets		
	W3 - 1.2m x 1.5m Aluminum Framed Casement Window (Powder Coated)	1	set		
	W4 - 2.4m x 1.5m Aluminum Framed Sliding Window	3	sets		
	W5 - 0.6m x 0.7m Aluminum Framed Awning Window	4	sets		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Ceiling Works				
	12mm thk gypsum board on metal furring, painted finish	68	sq.m.	₱	₱
	12mm thk moisture resistant gypsum board on metal furring	20	sq.m.		
	600x600mm Acoustic Board	175	sq.m.		
	Concrete slab soffit on skim coat finish	38	sq.m.		
	Painting Works				
	Elastomeric Paint Finish (Exterior Walls)	307	sq.m.		
	Latex Paint Finish				
	Interior Walls	475	sq.m.		
	Ceiling	262	sq.m.		
	Epoxy Enamel Paint Finish (Steel Surfaces)	76	sq.m.		
	Fabricated Materials				
	20mm thk Marine Plywood	3	pcs		
	50mmx50mm Good Lumber	3	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	0.25	kg		
	Concealed Hinges	14	pcs		
	Cabinet Handles	7	pcs		
	Sanding Paper	3	pcs		
	Wood Glue	1	liter		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Logos and Letterings				
	QC Logo	1	pc	₱	₱
	Stainless Steel Lettering	29	pcs		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	
				Subtotal 3	₱
4	SANITARY / PLUMBING WORKS				
	Sewer Line / Storm Drainage System				
	PVC Roughing-Ins				
	100mm Ø PVC Pipe with Hub	40	pcs	₱	₱
	75mm Ø PVC Pipe with Hub	7	pcs		
	50mm Ø PVC Pipe with Hub	13	pcs		
	100mm Ø x 100mm Ø Wye	9	pcs		
	100mm Ø x 75mm Ø Wye	3	pcs		
	100mm Ø x 50mm Ø Wye	11	pcs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	75mm Ø x 50mm Ø Wye	8	pcs		
	100mm Ø x 100mm Ø Tee	7	pcs		
	100mm Ø x 50mm Ø Tee	6	pcs		
	50mm Ø x 50mm Ø Tee	31	pcs		
	100mm Ø 1/4 Bend	4	pcs		
	50mm Ø 1/4 Bend	19	pcs		
	100mm Ø 1/8 Bend	19	pcs		
	75mm Ø 1/8 Bend	9	pcs		
	50mm Ø 1/8 Bend	21	pcs		
	100mm Ø x 75mm Ø Reducer	2	pcs		
	50mm Ø x 40mm Ø Tap Tee	3	pcs		
	50mm Ø x 32mm Ø Tap Tee	5	pcs		
	100mm Ø Cleanout	10	pcs		
	75mm Ø Cleanout	3	pcs		
	50mm Ø P-Trap	20	pcs		
	100mm Ø Coupling	14	pcs		
	75mm Ø Coupling	6	pcs		
	50mm Ø Coupling	3	pcs		
	Waterline System				
	PPR Roughing-Ins				
	40mm Ø PPR Pipe	17	pcs		
	32mm Ø PPR Pipe	1	pcs		
	25mm Ø PPR Pipe	1	pcs		
	20mm Ø PPR Pipe	12	pcs		
	40mm Ø x 40mm Ø Tee Equal	4	pcs		
	25mm Ø x 25mm Ø Tee Equal	8	pcs		
	20mm Ø x 20mm Ø Tee Equal	12	pcs		
	40mm Ø x 32mm Ø Unequal Tee	4	pcs		
	40mm Ø x 25mm Ø Unequal Tee	4	pcs		
	40mm Ø x 20mm Ø Unequal Tee	4	pcs		
	32mm Ø x 25mm Ø Unequal Tee	4	pcs		
	32mm Ø x 20mm Ø Unequal Tee	4	pcs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	25mm Ø x 20mm Ø Unequal Tee	4	pcs		
	25mm Ø x 19mm Ø Female Threaded Tee	6	pcs		
	20mm Ø x 12mm Ø Female Threaded Tee	10	pcs		
	25mm Ø End Cap	6	pcs		
	20mm Ø End Cap	10	pcs		
	32mm Ø Union Patent	1	pcs		
	20mm Ø Union Patent	3	pcs		
	40mm Ø Coupling	15	pcs		
	20mm Ø Coupling	11	pcs		
	Valves and Appurtenances				
	40mm Ø Gate Valve PPR	1	pcs		
	32mm Ø Gate Valve PPR	1	pcs		
	25mm Ø Gate Valve PPR	3	pcs		
	20mm Ø Gate Valve PPR	2	pcs		
	32mm Ø Check Valve	1	pcs		
	32mm Ø Water Meter	1	pcs		
	Plumbing Fixtures and Accessories				
	Water Closet, Tank Type	3	sets		
	Bidet, Heavy Duty	3	pcs		
	Lavatory, Wall Hung	4	sets		
	Lavatory Faucet	4	pcs		
	Urinal with Flush Valve	2	sets		
	Single Tub Kitchen Sink	1	set		
	5gpm Stainless Grease Trap	1	set		
	Kitchen Faucet	1	pc		
	Soap Dispenser	1	pc		
	Hand Dryer	1	pc		
	Ceramic Toilet Tissue Holder	1	pc		
	100mm Ø Floor Drain	5	pcs		
	100mm Ø Roof Drain	6	pcs		
	Mirror	4	sq.m.		
	Pipe Hangers and Supports				
	For horizontal pipes less than 50mm Ø, 2m interval	34	l.m.		
	For horizontal pipes greater than 50mm Ø, 1m interval	89	l.m.		
	Miscellaneous & Consumables				
	400cc Solvent Cement	5	cans		
	1000cc All-Around Sealant	3	cans		
	Hacksaw Blade	3	pcs		
	Teflon Tape	84	rolls		
	Waste Cloth	3	kg		
				Materials Cost 4	₱
				Labor Cost 4	
				Subtotal 4	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
5	ELECTRICAL WORKS				
	Roughng-ins, Pipes and Fittings				
	20mm Ø PVC Pipe	250	pcs	₱	₱
	25mm Ø PVC Pipe	35	pcs		
	90mm Ø PVC Pipe	27	pcs		
	80mm Ø IMC Pipe	6	pcs		
	Fittings and Accessories				
	20mmØ PVC Adaptor	356	pcs		
	20mmØ PVC Locknut and Bushing	356	pairs		
	20mmØ PVC Elbow	106	pcs		
	25mm Ø PVC Adaptor	4	pcs		
	25mm Ø PVC Locknut and Bushing	4	pairs		
	25mm Ø PVC Elbow	4	pcs		
	90mm Ø PVC Adaptor	8	pcs		
	90mm Ø PVC Locknut and Bushing	2	pairs		
	90mm Ø PVC Elbow	4	pcs		
	80mm Ø IMC Locknut and Bushing	2	pairs		
	80mm Ø IMC Coupling	1	pcs		
	80mm Ø IMC Elbow	1	pcs		
	80mmØ Weatherproof Entrance Cap	1	pc		
	20mm Ø x 3000mm Grounding Rod (Copper Clod) with Ground Clamp	1	pc		
	Oval Eyebolt	1	pc		
	50mm x 100mm PVC Utility Box	67	pcs		
	100mm x 100mm PVC Junction Box With Cover	111	pcs		
	Wires and Cables				
	3.5 mm² THHN Wire	13	rolls		
	5.5 mm² THHN Wire	168	l.m.		
	8.0 mm² THHN Wire	212	l.m.		
	150mm² THHN Wire	190	l.m.		
	2.0 mm² TW Wire	5	rolls		
	3.5 mm² TW Wire	1	roll		
	5.5 mm² TW Wire	166	l.m.		
	38 mm² TW Wire	95	l.m.		
	Lighting Fixtures (Energy Efficient)				
	150mm Ø Square Pinlight (case)	47	pcs		
	8W LED Bulb	47	pcs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	T8, 36W LED Tube Light	2	pcs		
	T8, 20W LED Tube Light	56	pcs		
	600mm x 600mm, Troffer Type, Double, with complete accessories, Recessed Type Fixture Only	28	pcs		
	1200mm x 300mm, Troffer Type, Single, with complete accessories, Recessed Type Fixture Only	2	pcs		
	Emergency Light, Twinhead	10	pcs		
	Exit Light	4	pcs		
	Wiring Devices and Other Fixtures				
	Outlet with Grounding, One Gang for ACU	4	pcs		
	Outlet with Grounding, One Gang	14	pcs		
	Outlet with Grounding, Two Gang	31	pcs		
	Outlet with Grounding, Two-gang Weather Proof	1	pc		
	Switch with Plate and Cover, One Pole	7	pcs		
	Switch with Plate and Cover, Two Pole	4	pcs		
	Switch with Plate and Cover, Three Pole	3	pcs		
	Switch with Plate and Cover, One Gang	2	pcs		
	2-10"Ø Speaker, Po max=8W, Z=8 Ohms, Ceiling Mounted with fire dome and matching transformer with AVR and other accessories	1	sets		
	Panel Board				
	MCB				
	Main: 300 AT 2P, 35 KAIC 240V	1	assy		
	Enclosure: NEMA 4X				
	LPP				
	Main : 300 AT , 2P , 35 KAIC 240V	1	assy		
	Branches :				
	4 - 40AT , 2P , Bolt On w/ Ground Terminal				
	10 - 30AT , 2P , Bolt On w/ Ground Terminal				
	8 - 20AT , 2P , Bolt On w/ Ground Terminal				
	2- Spare				
	Enclosure: NEMA1 with Ground Terminals				
	ENCLOSED CIRCUIT BREAKER				
	40AT, 2P, NEMA 3R	2	assy		
	30AT, 2P, NEMA 3R	4	assy		
	Pipe Hangers and Supports				
	Horizontal layout of pipe	51	l.m		
	Vertical Layout of Pipe	6	l.m		
	Miscellaneous & Consumables				
	All around Sealant	1	qrt		
	Hacksaw Blade	3	pcs		
	Electrical Tape	36	rolls		
	Masking Tape	4	rolls		
	Pulling Lubricant	1	gal		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Rubber Tape	3	rolls		
	Epoxy Primer	1	lit		
	Paint Thinner	1	lit		
	Quick Dry Enamel	1	sq.m		
	Tie Wire, Ga.16 (for cable pulling)	3	kg		
	Torch w/ Butane	2	sets		
	400cc PVC Solvent Cement	2	cans		
				Materials Cost 5	₱
				Labor Cost 5	
				Subtotal 5	₱
6	AUXILIARY WORKS				
	Voice (Telephone), Data and LAN System				
	Roughing-ins				
	25mmØ PVC Pipe	36	pcs	₱	₱
	25mmØ PVC Adaptor	50	pcs		
	25mmØ PVC locknut and Bushing	50	pairs		
	50mmØ PVC Pipe	16	pcs		
	50mmØ PVC Adaptor	4	pcs		
	50mmØ PVC Locknut and Bushing	4	pcs		
	50mmØ PVC Elbow	6	pcs		
	50mmØ PVC Entrance Cap	2	pcs		
	50mm x 100mm PVC Utility Box	13	pcs		
	4 11/16" PVC Square Box	1	pcs		
	Wires and Cables				
	UTP Cable Cat 6, 4 - pairs	2	roll		
	UTP Cat 6 Patch Cord, 550 Mhz, 3 ft	17	pcs		
	8.0 mm² THW Wire (Grounding Wire)	15	lm		
	Devices Equipment and Enclosure				
	Universal LAN Outlet, Simplex (1-Device)	9	pcs		
	Universal LAN Outlet, Simplex (2-Device)	4	pcs		
	IP PBX with 10-lines and 60 IP extensions	1	units		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Distribution Frame (DF)	1	assy		
	12U Data Rack (19") with Standard Framing & Paneling and Vent Fans				
	1 - Rackmounted UPS, 1000VA ≥ 5 mins "on-line"				
	1- CAT6 Standard Density Feed-Thru Patch Panel, 24 Port (2U)				
	1- 24port 10/100/1000 Network Switch (2U)				
	1-Rackmounted Surge Suppressor				
	Pipe Hangers and Supports				
	Horizontal layout of pipe	30	l.m		
	Vertical Layout of Pipe	12	l.m		
	Miscellaneous & Consumables				
	Pullbox, 200mm x 200mm x 150mm	1	assy		
	Hacksaw Blade	2	pcs		
	Rubber Tape	2	rolls		
	Pulling Lubricant	1	can		
	Masking Tape	4	rolls		
	Rugs	5	pcs		
	Electrical Tape	5	rolls		
	GI Tie Wire	2	kgs		
	400cc PVC Solvent Cement	1	cans		
	Telecom Backboard, Flame Retardant	1	pcs		
				Subtotal	₱
	Closed Circuit Television (CCTV)				
	Roughing-ins				
	25mm Ø PVC Pipe	18	pcs		
	25mm Ø PVC Adaptor	12	pcs		
	25mm Ø PVC Locknut and Bushing	12	pcs		
	25mm Ø Flexible Metallic Conduit, Ordinary	10	lm		
	25mm Ø Straight Connector with locknut	6	pcs		
	100mm x 100mm PVC Octagonal Box with cover	3	pcs		
	Wires and Cables				
	RG-6/U Co-Axial Cable, Foamed PE	80	lm		
	1.25mm² TF Wire	96	lm		
	A/V (VGA and HDMI) Cables	15	lm		
	Devices Equipment and Enclosure				
	HD Digital Video Recorder (DVR), 8-Channel with DV	1	units		
	Multi-Function Keyboard Controller	1	units		
	DVR SecurityLock Box, Low Profile	1	assy		
	HD CCTV IR Bullet Camera, Outdoor	1	pcs		
	HD CCTV Day/Night Dome Camera, Varifocal Lens Inc	4	pcs		
	32- in LED Display/Monitor	1	units		
	UPS, 650VA ≥ 5 mins "on-line"	1	units		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Pipe Hangers and Supports				
	Horizontal layout of pipe	33	l.m		
	Vertical Layout of Pipe	6	l.m		
	Miscellaneous & Consumables				
	Pullbox, 325mm x 275mm x 275mm	1	assy		
	Hacksaw Blade	4	pcs		
	Rubber Tape	2	rolls		
	Pulling Lubricant	1	can		
	Masking Tape	4	rolls		
	Rugs	5	pcs		
	Electrical Tape	5	rolls		
	G.I. Tie Wire	2	kgs		
	120cc PVC Solvent Cement	2	cans		
	RG-6/U Straight Connector	5	pcs		
	RG-6/U Terminal Connector	10	pcs		
				Subtotal	₱
				Materials Cost 6	₱
				Labor Cost 6	
				Subtotal 6	₱
7	MECHANICAL WORKS				
	Refrigerant Piping				
	9.5mm Ø, Copper Coil Tubing	1	roll	₱	₱
	15.9mm Ø, Copper Coil Tubing	1	roll		
	9.5mm Ø x 19mm Ø thk Rubber Foam Insulation	8	l.m.		
	15.9mm Ø x 19mm Ø thk Rubber Foam Insulation	8	l.m.		
	Condensate Water Drainage System				
	32mm Ø x 3m uPVC Pipe	6	pcs		
	32mm Ø uPVC Coupling	8	pcs		
	32mm Ø uPVC Elbow	14	pcs		
	32mm Ø uPVC Tee	5	pcs		
	32mm Ø x 12mm thick Rubber Foam Insulation	19	l.m.		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Ventilation System				
	100mm Ø PVC Pipe with Hub	3	pcs		
	150mm Ø PVC Pipe with Hub	2	pcs		
	100mm Ø 1/4 Bend	4	pcs		
	150mm Ø 1/4 Bend	2	pcs		
	100mm Ø, Stainless Steel Outlet Cap	2	pcs		
	150mm Ø, Stainless Steel Outlet Cap	1	pcs		
	100mm Ø, Flexible Duct Connector	2	l.m.		
	150mm Ø, Flexible Duct Connector	1	l.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Mechanical Equipment				
	Split Type Air Conditioning Unit				
	3.0 TR, 900 cfm, 3600 W, 230V/1Ph/60Hz, Rotary Compressor , R410a, 9.5mm Ø L , 15.9mm Ø G, 30m max long x 20m max high	2	sets	₱	₱
	Window Type Air Conditioning Unit				
	2.5 hp, 2.0 TR, 600 cfm, 2350 W, 230/1/60	2	units		
	1.0 hp, 0.8 TR, 240 cfm, 960 W, 230/1/60	2	units		
				Equipment Cost	₱
		Labor Cost w/ Technical supervision			
				Subtotal	₱
	Exhaust Fan				
	Duct Mounted Cassette Type, 330-340 CMH Air Volume, 35 W Power Input, 230 V / 1PH / 60Hz Power Supply	1	unit	₱	₱
	Duct Mounted Cassette Type, 140-150 CMH Air Volume, 14-15 W Power Input, 230 V / 1PH / 60Hz Power Supply	2	unit		
				Equipment Cost	₱
				Labor Cost	
				Subtotal	₱
	Pipe Hangers and Supports				
	Refrigerant Pipe System Support	8	l.m.	₱	₱
	Condensate Water Drainage System Support for Split Type	16	l.m.		
	Exhaust Duct System Support	6	l.m.		
	ACCU Wall Mounted Support	14	pcs		
	Miscellaneous & Consumables				
	400cc Solvent Cement	1	can		
	50m Long x 25mm Wide Polyethylene Tape	25	rolls		
	Brazing Rod	3	box		
	Copper Tube Cutter	2	units		
	Hacksaw Blade	2	pc		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Waste Cloth	1	kg		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
				Materials Cost 7	₱
				Labor Cost 7	
				Subtotal 7	₱
8	UTILITIES AND ANCILLARY WORKS				
	Septic Tank	21	cu.m.	₱	₱
				Subtotal 8	₱
				Materials Cost II	₱
				Labor Cost II	
				Direct Cost II	₱
III	LAND DEVELOPMENT WORKS				
1	SITE WORKS				
	Layout and staking	968	sq.m.	₱	₱
	Site Clearing and Preparation	968	sq.m.		
	Excavation for structures				
	Column Footing	29	cu,m,		
	Wall Footing	51	cu,m,		
	Slab-on-fill	183	cu,m,		
				Subtotal	₱

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Soil Treatment	883	sq.m.		
	Gravel Bedding	7	cu.m.		
	Imported Earthfill	333	cu.m.		
				Materials Cost	₱
				Labor Cost	
				Subtotal	₱
	Backfill and Compaction	66	cu.m.		
				Subtotal	₱
				Material Cost 1	₱
				Labor Cost 1	
				Subtotal 1	₱
2	CIVIL WORKS / STRUCTURAL WORKS				
	Concreting				
	Ready Mix 21 MPa, 19mm Gravel, 28 days				
	Column Footing	8	cu.m.	₱	₱
	Wall Footing	16	cu.m.		
	Column	12	cu.m.		
	Slab-on-Fill (Driveway and Parking Area)	111	cu.m.		
	On Site Mix				
	Concrete Wheel Stopper, painted finish	14	sets		
	Reinforcing Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ, Wall Footing	625	kgs		
	10mmØ, Column	1,833	kgs		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Reinforcing Steel Bar				
	16mmØ, Footing	1,058	kgs		
	16mmØ, Column	1,505	kgs		
	Formworks				
	Column Footing	22	sq.m.		
	Wall Footing	27	sq.m.		
	Column	96	sq.m.		
	Scaffolding and Shoring				
	CHB Fence	167	sq.m		
	Masonry Works				
	150mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	325	sq.m.		
	Plastering of Columns	170	sq.m.		
	Metal Fabrication				
	50mm x 75mm Tubular Bar	8,157	kgs		
	25mm x 25mm Tubular Bar	9,303	kgs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Pillow Block	12	pcs		
	Cylindrical Hinge	9	pcs		
	Miscellaneous				
	Acetylene Tank Refill	6	tank		
	Assorted Metal Drill Bit	10	pcs		
	Cut Off Blade	15	pcs		
	Grinding Disc Metal	15	pcs		
	Oxygen Tank Refill	12	tank		
	Welding Rod	25	box		
				Material Cost 2	₱
				Labor Cost 2	
				Subtotal 2	₱
3	ARCHITECTURAL WORKS				
	Painting Works				
	Elastomeric Paint (Exterior Walls)	520	sq.m.	₱	₱
	Elastomeric Paint (Curb, Parking Separator, PWD logo, and Pedestrian lane)	57	sq.m.		
	Epoxy Enamel Paint Finish(Steel Surfaces)	370	sq.m.		
				Material Cost 3	₱
				Labor Cost 3	
				Subtotal 3	₱
4	SITE DEVELOPMENT WORKS				
	Base Course	23	cu.m.	₱	₱
	Subbase Course	23	cu.m.		
	Concrete Curb and Gutter	104	lm		
	Concreting of Pathwalk / Sidewalk	28	sq.m		
				Subtotal 4	₱
5	ELECTRICAL WORKS				
	Roughng-ins, Pipes and Fittings				
	20mm Ø PVC Pipe	40	pcs	₱	₱
	Fittings and Accessories				
	20mmØ PVC Adaptor	36	pcs		
	20mmØ PVC Locknut and Bushing	36	pairs		
	20mmØ PVC Elbow	18	pcs		

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
	Wires and Cables				
	5.5 mm² THHN Wire	2	rolls		
	3.5 mm² TW Wire	1	roll		
	Lighting Fixtures (Energy Efficient)				
	Triangular Façade Lighting	4	pcs		
	Lamp Post	14	pcs		
	Fittings and Accessories				
	100mm x 100mm PVC Junction Box With Cover	18	pcs		
	Miscellaneous & Consumables				
	All around Sealant	1	qrt		
	Hacksaw Blade	2	pcs		
	Electrical Tape	6	rolls		
	Masking Tape	4	rolls		
	Pulling Lubricant	1	gal		
	Rubber Tape	3	rolls		
	Epoxy Primer	1	lit		
	Paint Thinner	1	lit		
	Tie Wire, Ga.16 (for cable pulling)	3	kg		
	Torch w/ Butane	2	sets		
	400cc PVC Solvent Cement	2	cans		
				Materials Cost 5	₱
				Labor Cost 5	
				Subtotal 5	₱
6	UTILITIES AND ANCILLARY WORKS				
	Excavation for Drainage Pipes	97	cu.m.	₱	₱
	Backfill and Compaction for Drainage	83	cu.m.		
	Hauling and Disposal of Excess Materials	5	cu.m.		
				Subtotal	₱
	460mm Ø Area Drain / Catch Basin	7	units	₱	₱
	460mm Ø Manhole with Cover	4	units		
	460mm Ø Reinforced Concrete Pipe	85	l.m.		
				Subtotal	₱
				Material Cost 6	₱
				Subtotal 6	₱
				Material Cost III	₱
				Labor Cost III	
				Direct Cost III	₱

SUMMARY

ITEM	WORK DESCRIPTION & SCOPE OF WORKS	TOTAL COST
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ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	QTY	UNIT	UNIT COST	TOTAL COST
NO	WORK DESCRIPTION & SCOPE OF WORKS				TOTAL COST
I	GENERAL REQUIREMENTS				P=
II	MULTI-PURPOSE BUILDING				
III	LAND DEVELOPMENT WORKS				
	TOTAL DIRECT COST				P=
	Overhead, Contingencies and Miscellaneous Expenses (OCM)				
	Profit				
	VAT				
	TOTAL ESTIMATED COST				P=

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

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

Technical Documents

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

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

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

Additional Technical Requirements:

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

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

BID FORM

Date : _____
Project Identification No. : _____

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

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

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

¹ currently based on GPPB Resolution No. 09-2020

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

Bid Securing Declaration Form

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

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

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

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

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]
Affiant

[Jurat]

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

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]

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.**

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]

Performance Securing Declaration (Revised)

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

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

PERFORMANCE SECURING DECLARATION

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

I/We, the undersigned, declare that:

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

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

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

[Jurat]

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

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 <u>IN THE</u> <u>CONTRACT SOLE</u> <u>CONTRACTOR / SUB-</u> <u>CONTRACTOR/PARTNER IN A</u>
TOTAL AMOUNT OF CONTRACT (Php)					

SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

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

NAME OF CONTRACTOR: _____

PROJECT TITLE: _____

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

COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: _____

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

