

# **PHILIPPINE BIDDING DOCUMENTS**

# **Procurement of INFRASTRUCTURE PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 (3  
CLUSTER-54 UNITS)**

**Project number: 21-00026**

**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
<b><u>Buildings – Small B</u></b>							
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
<b><u>Buildings – Medium A</u></b>							
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
<b><u>Parks – Small B</u></b>							
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
<b><u>Roads – Small B</u></b>							
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 2<sup>nd</sup> 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 Conference<sup>1</sup> on **May 3, 2021 at 10:00 AM at 2<sup>nd</sup> 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 2<sup>nd</sup> 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

2<sup>nd</sup> 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](mailto:procurement@quezoncity.gov.ph)

Website: [www.quezoncity.gov.ph](http://www.quezoncity.gov.ph)

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<sup>1</sup> 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 HOUSING UNITS NO. 13 (3 CLUSTER-54 UNITS)**, with Project Identification Number **21-00026**.

*[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 **Thirty-Five Million Five Hundred Twenty-Seven Thousand Fifteen Pesos & 42/100 Cts. (P 35,527,015.42)**.

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	<b>Subcontracting is not allowed.</b>																																								
10.3	<i>No additional contractor license or permit is required</i>  <b><i>In addition, eligible bidders shall qualify or comply with the following:</i></b>  1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)  Type  <b>Buildings – Medium A</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>Safety Officer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>12</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>13</td><td>Laborer/Helper</td><td>1 year</td><td>3 months</td></tr><tr><td colspan="4"><b><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></b></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	Safety Officer	3 years	3 years	1	Foreman	3 years	3 years	12	Skilled Worker	3 years	3 years	1	Driver	3 years	3 years	13	Laborer/Helper	1 year	3 months	<b><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></b>			
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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"> <li>a) The amount of not less than Php 710,540.31 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</li> <li>b) The amount of not less than Php 1,776,350.77 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.</li> </ul>
19.2	<b>Partial bid is not allowed.</b> 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><b>Additional Contract Documents relevant to the Project as required:</b></p> <ol style="list-style-type: none"> <li><b>1. Construction Schedule and S-curve,</b></li> <li><b>2. Manpower Schedule,</b></li> <li><b>3. Construction Methods,</b></li> <li><b>4. Equipment Utilization Schedule,</b></li> <li><b>5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.</b></li> </ol>

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

## ***Section VI. Specifications***

### **Notes on Specifications**

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

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

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

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

#### **Sample Clause: Equivalency of Standards and Codes**

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

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

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





- ii. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  - iii. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication.
  - iv. Temporary enclosure shall be provided within the construction site with adequate guard lights, railings and proper signages.
  - v. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  - vi. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- k. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
- i. A fully trained Medical Aide shall be employed permanently on the site who shall be engaged solely from medical duties.
  - ii. The medical room shall be provided in waterproof; it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
  - iii. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the site.
  - iv. Additional safety precautions shall be provided in the observance of pandemic. Protocols set-forth by the government shall be strictly followed.
- l. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents.
- m. Final cleaning of the work shall be employed prior to the final inspection for certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program.

## **II. SITE WORKS**

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

## **III. CIVIL / STRUCTURAL WORKS**

### **A. 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 or mortar from the concrete. Forms shall be ¼" waterproof plywood and form lumber.
- ii. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed hall be cleaned of encrustations of mortar, the grout or other foreign material.
- iii. Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and airing shall be started as soon as the surface is sufficiently hard to permit it without further damage.

f. Placing Reinforcement:

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

g. Conveying and Placing Concrete:

- i. Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- ii. Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and 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 be 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.

**IV. 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.

**V. SANITARY / PLUMBING WORKS**

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

**B. Supply, installation and testing of the following:**

- B.1 Potable water supply system complete in all respects including but not limited to submittals, shop drawings, piping, water meters, valves, bibbs, insulation, all accessories required for complete and operational of the system.
- B.2 Water service connections including but not limited to water meters, float valves. Any and all other works involve in providing the complete operation of the water supply system.
- B.3 Soil waste and vent system complete in all respect including but not limited to connection to existing sewer, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.
- B.4 Storm drainage system complete in all respect including but not limited to connection to existing storm drainage, submittals, shop drawings, pipes, fittings, valves, cleanout, drains, etc. Complete and operational.

- C. Workmanship and installation methods shall conform to the best modern practice. Employ skilled tradesmen to perform work under the direct supervision of fully qualified personnel.
- D. All equipment and installations shall meet or exceed minimum requirements of the Standards and Codes as specified in plans and program of work.
- E. Install equipment in strict accordance with manufacturers written recommendations.
- F. Physical sizes of all plant and equipment are to be suitable for the space allocated for the accommodation of such plant and equipment, taking into account the requirement of access for maintenance purposes.
- G. In selecting makes and types of equipment, the Contractor shall ascertain that facilities for proper maintenance, repair and replacement are provided.
- H. Where the Contractor proposes to use an item of equipment other than that specified or detailed in the drawing, which requires any redesign of the system, drawings showing the layout of the equipment and such redesign as required therefore shall be prepared by the Contractor at his own expenses. Where such approved deviation necessitates a different quantity and arrangement of materials and equipment's from that originally specified or indicated in the drawings, the Contractor shall furnish and install any such additional materials and equipment's required by the system at no additional cost.
- I. Equipment catalogue and manufacturer's specifications must be submitted for examination and details shall be submitted for approval before any equipment is to be ordered.
- J. This shall include all information necessary to ascertain the equipment comply with this specification and drawings. Data and sales catalogue of a general nature will not be accepted.
- K. All materials, equipment, components and accessories shall be delivered to the Site in a new condition, properly packed and protected against damage or contamination or distortion, breakage or structural weakening due to handling, adverse weather or other circumstances and, as far as practicable, they shall be kept in the packing cases or under approved protective coverings until required for use.
- L. Any items suffering from damage during manufacture, or in transit, or on site whilst in storage or during erection shall be rejected and replaced without extra cost.
- M. All sanitary fittings and pipework shall be cleaned after installation and keep them in a new condition.
- N. All installed pipelines shall be flushed through with water, rodded when necessary to ensure clearance of debris.
- O. Cleaning and flushing shall be carried out in sections as the installation becomes completed.
- P. The Contractor shall carry out hydraulic test on the complete plumbing systems and the drainage system to show that it is functioning satisfactorily within the requirements of this Specification and local regulations.
- Q. The Contractor shall provide suitable test pumps and arrange for a supply of water required in connection with testing of pipework. The test pump shall be fitted with pressure gauges which shall be of suitable range for the pressure being applied.
- R. Hydraulic tests shall be carried out as the pipework is installed and shall be completed before chases in walls and ducts are closed. Also test shall be carried out prior to false ceilings and other finishes are installed.
- S. Testing apparatus shall be provided by the Contractor. Where any section of pipework or equipment is unable to withstand the maximum pipework test pressure, it shall be isolated during the pipework test then that section of pipework or equipment shall be re-tested at the appropriate test pressure.

- T. The Sanitary Contractor must carry out any additional tests required by the end-user and/or approving agency.
- U. Drainage pipe shall be tested by filling the pipe with 3m. of water higher than the test section and wait for 15 min, then check for leakage at every joints.
- V. Testing of drainage systems shall be carried out in sections by dividing the system horizontally. Each section shall comprise pipework and fitting for three floors/storeys required for testing.
- W. Drainage pressure pipe shall be hydraulic tested at minimum pressure 50 psi.
- X. Hangers and supports for plumbing piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
- Y. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- Z. Install lateral bracing with pipe hangers and supports to prevent swaying.
- AA. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.
- BB. Install hangers and supports so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- CC. Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.

## **VI. ELECTRICAL WORKS**

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

### **F. PANELBOARDS**

- F.1 Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in Division 16 Sections 16073 and 16074 "Hangers and Supports for Electrical Systems and Vibration and Seismic controls for Electrical Systems" respectively.
- F.2 Enclosures: Flush, Surface, Flush- and surface-mounted cabinets.
  - F.2.1 Rated for environmental conditions at installed location.
    - i. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - ii. Outdoor Locations: NEMA 250, Type 3R.



- iii. Kitchen and Wash-Down Areas: NEMA 250, Type 4X, stainless steel.
  - iv. Other Wet or Damp Indoor Locations: NEMA 250, Type 4.
  - v. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5 or Type 12.
- F.2.2 Front: Secured to box with concealed trim clamps. For surface-mounted fronts, match box dimensions; for flush-mounted fronts, overlap box.
- F.2.3 Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover.
- F.2.4 Skirt for Surface-Mounted Panelboards: Same gage and finish as panelboard front with flanges for attachment to panelboard, wall, and ceiling or floor.
- F.2.5 Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
- F.2.6 Finishes:
- i. Panels and Trim: Steel and galvanized steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
  - ii. Back Boxes: Galvanized steel Same finish as panels and trim.
  - iii. Fungus Proofing: Permanent fungicidal treatment for overcurrent protective devices and other components.
- F.2.7 Directory Card: Inside panelboard door, mounted in transparent card holder metal frame with transparent protective cover.
- F.3 Incoming Mains Location: Top or Bottom.
- F.4 Phase, Neutral, and Ground Buses:
- F.4.1 Material: Hard-drawn copper, 98 percent conductivity.
- F.4.2 Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
- F.4.3 Neutral Bus: 100 percent of phase bus 4. Extra-Capacity Neutral Bus: Neutral bus rated 200 percent of phase bus and UL listed as suitable for nonlinear loads.

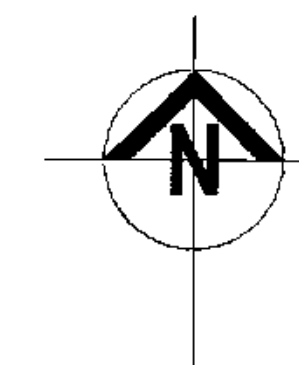
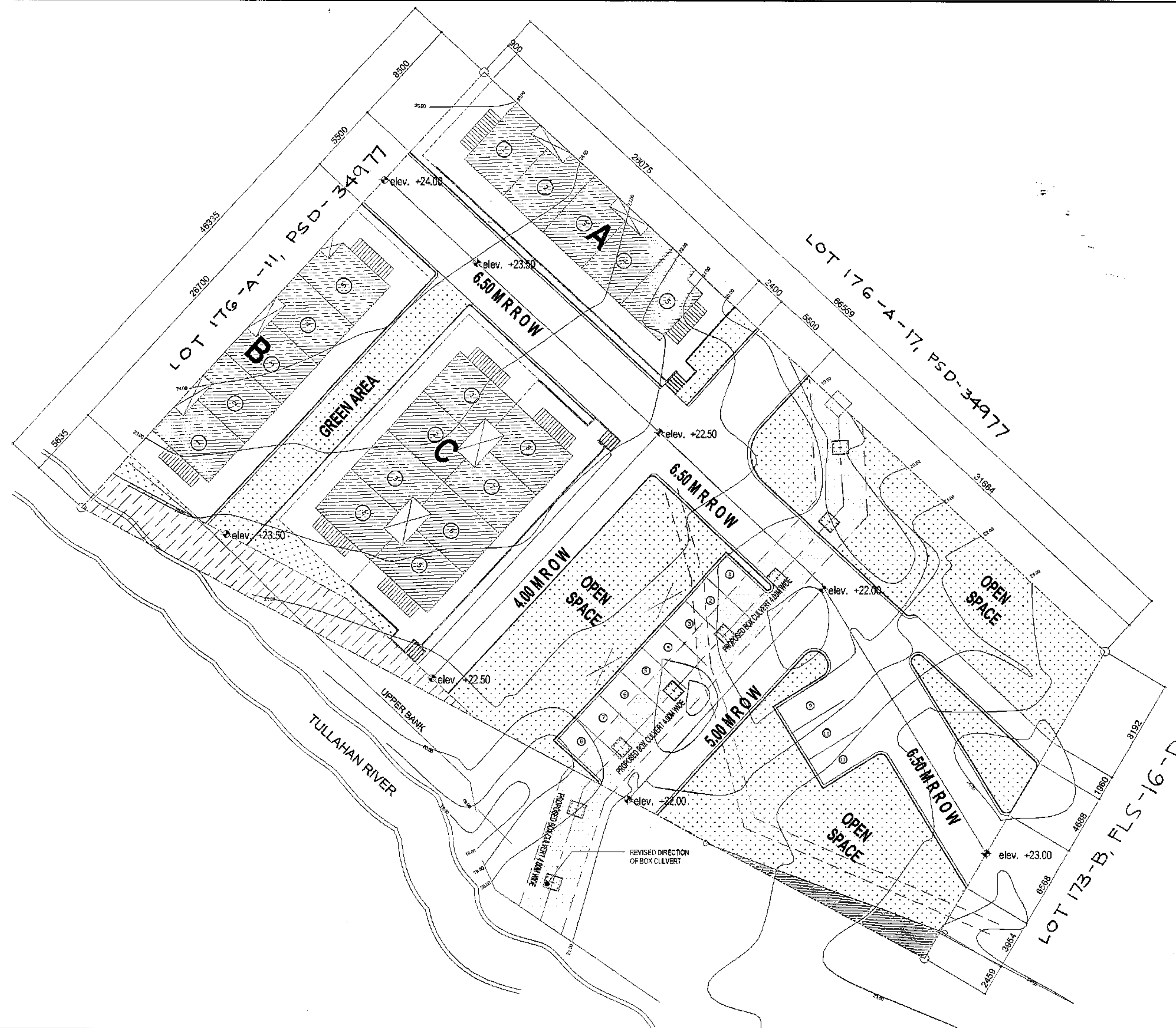
  
**JONATHAN RAYNALD T. ESPINO**  
 Planning and Programming Division

  
**JOCELYN ALNAONG**  
 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.]*







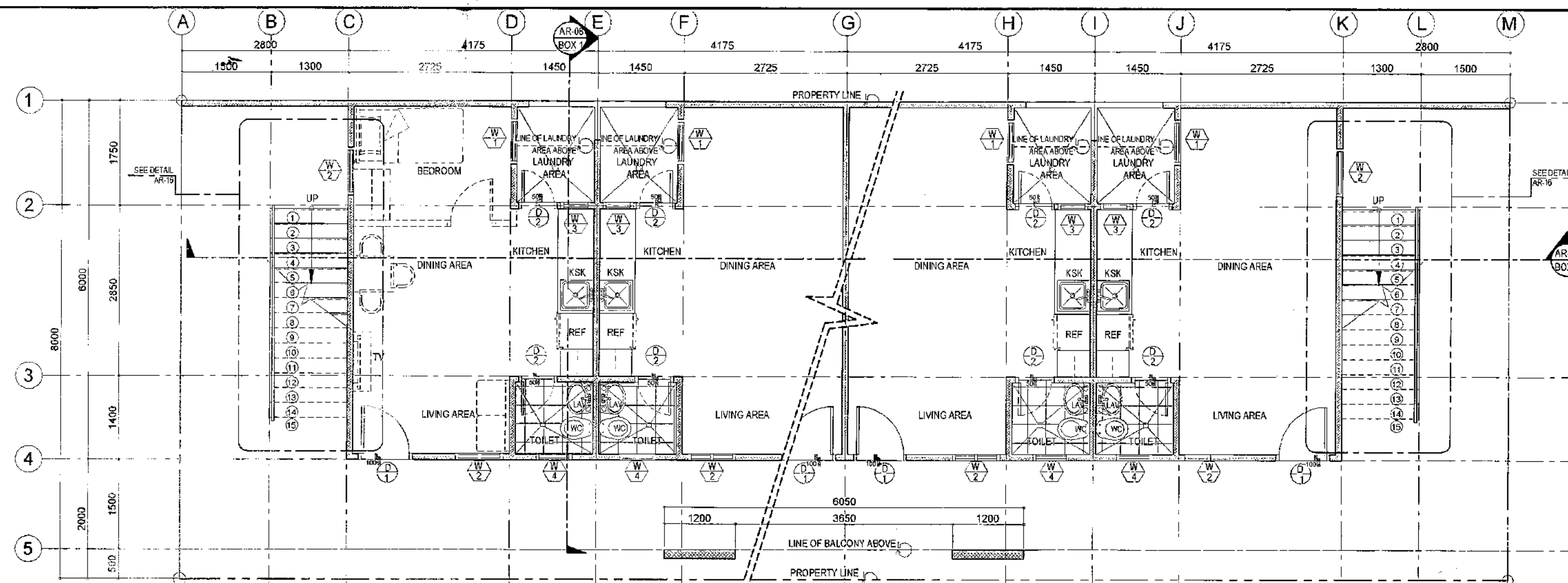
**TOTAL NO. OF UNITS : 54 UNITS**

**1 | SITE DEVELOPMENT PLAN w/ EXISTING TOPOGRAPHY**

SCALE 1 : 150 METERS

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		<p>DRAWING AND SPECIFICATIONS DULY DESIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTIES &amp; DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHEREBY THE OBJECT FOR WHICH THEY ARE MADE IS EXERCISED 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 ANY FURTHER OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p><i>Ar. Lucille H. Chua</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p>	<p><i>Engr. Isagani R. Verzosa Jr.</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p><i>Hon. Ma. Josefina G. Belmonte</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> S.E. - CITY MAYOR</p>	<p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SITE DEVELOPMENT PLAN w/ TOPOGRAPHY</p>	<table><tr><td>DATE</td><td>August 2020</td></tr><tr><td>DRAWN BY</td><td>Ar. P.N.B</td></tr><tr><td>DESIGNED BY</td><td>Ar. M.H.BALADJAY</td></tr><tr><td>CHECKED BY</td><td>Ar. L.H.CHUA</td></tr></table>	DATE	August 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Ar. M.H.BALADJAY	CHECKED BY
DATE	August 2020														
DRAWN BY	Ar. P.N.B														
DESIGNED BY	Ar. M.H.BALADJAY														
CHECKED BY	Ar. L.H.CHUA														

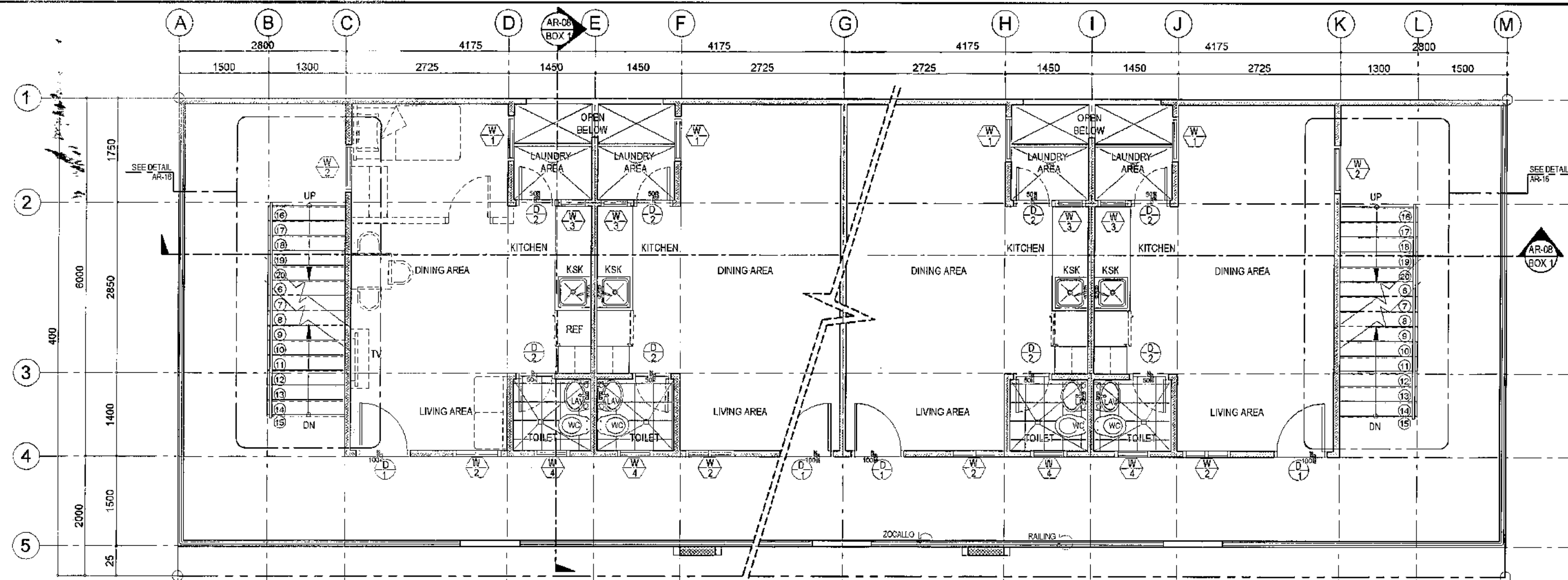




- NOTE:
- 1.) ALL CORNER UNITS WITH SIDE WINDOWS
  - 2.) VERIFY MASTER SITE DEVT. PLAN FOR ACTUAL NUMBER OF UNIT.

**1 GROUND FLOOR PLAN (PERIMETER HOUSING UNITS)**

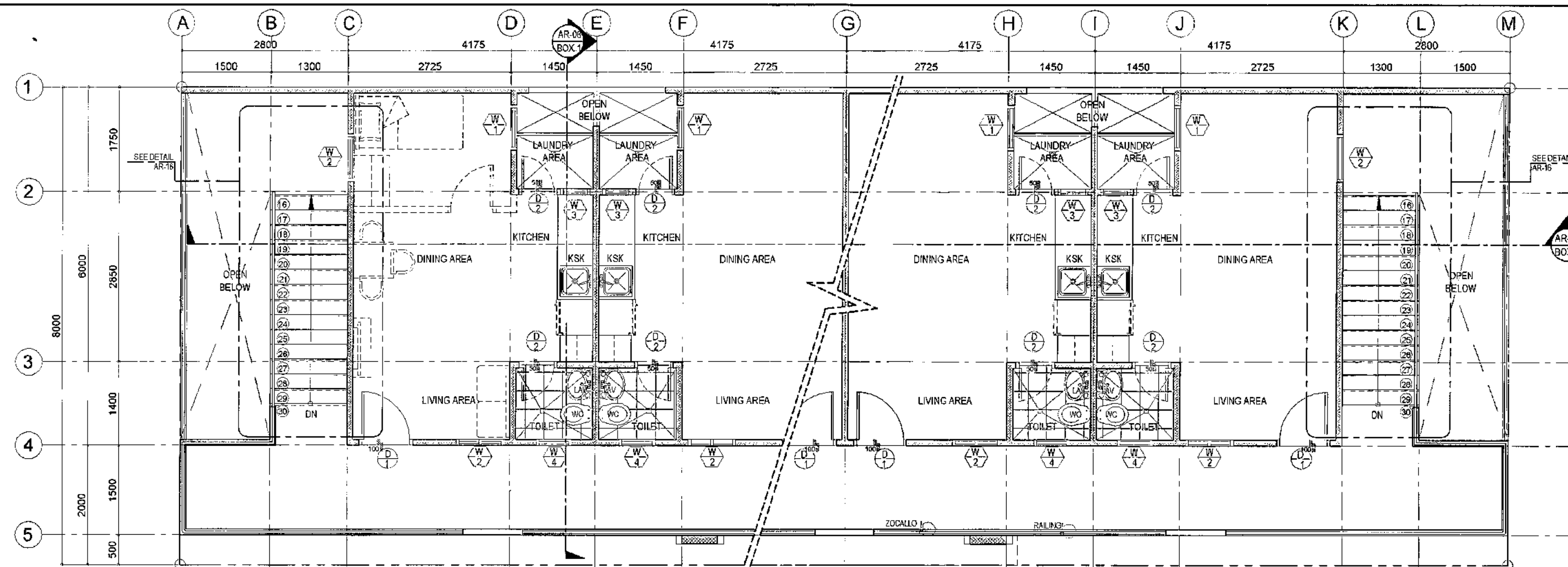
SCALE 1:50 METERS



**2 SECOND FLOOR PLAN (PERIMETER HOUSING UNITS)**

SCALE 1:50 METERS

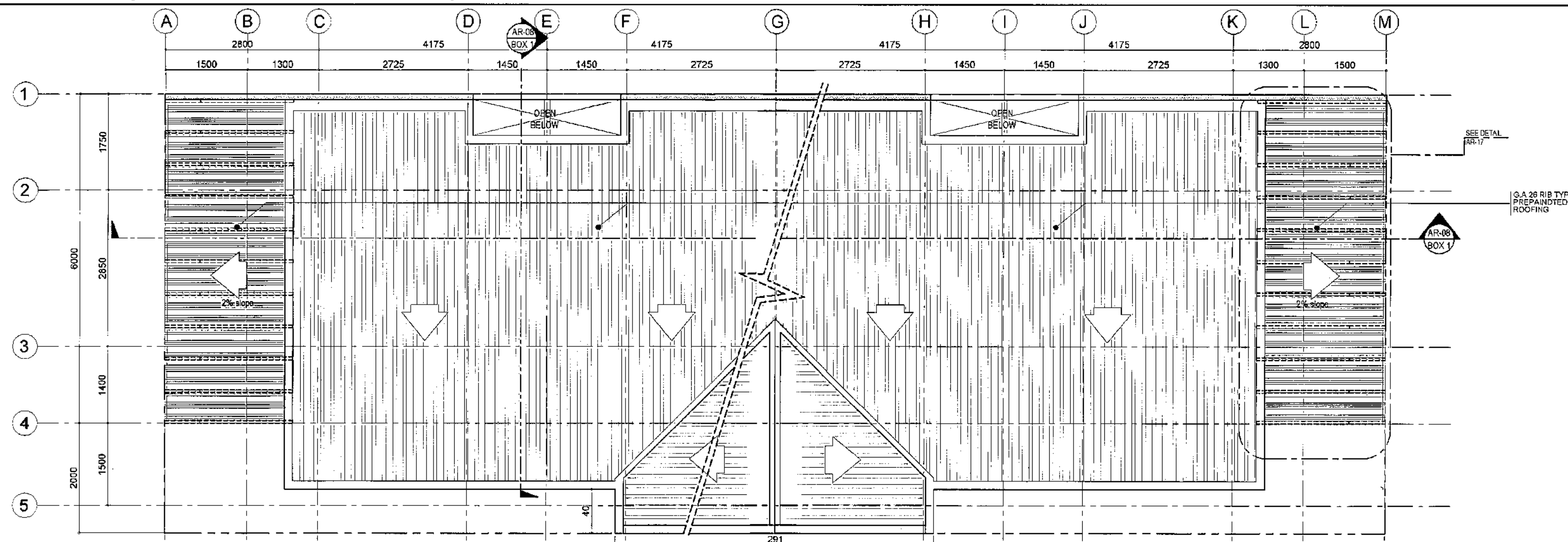
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- NOTE:
- 1.) ALL CORNER UNITS WITH SIDE WINDOWS
  - 2.) VERIFY MASTER SITE DEVT. PLAN FOR ACTUAL NUMBER OF UNIT.

## 1 THIRD FLOOR PLAN (PERIMETER HOUSING UNITS)

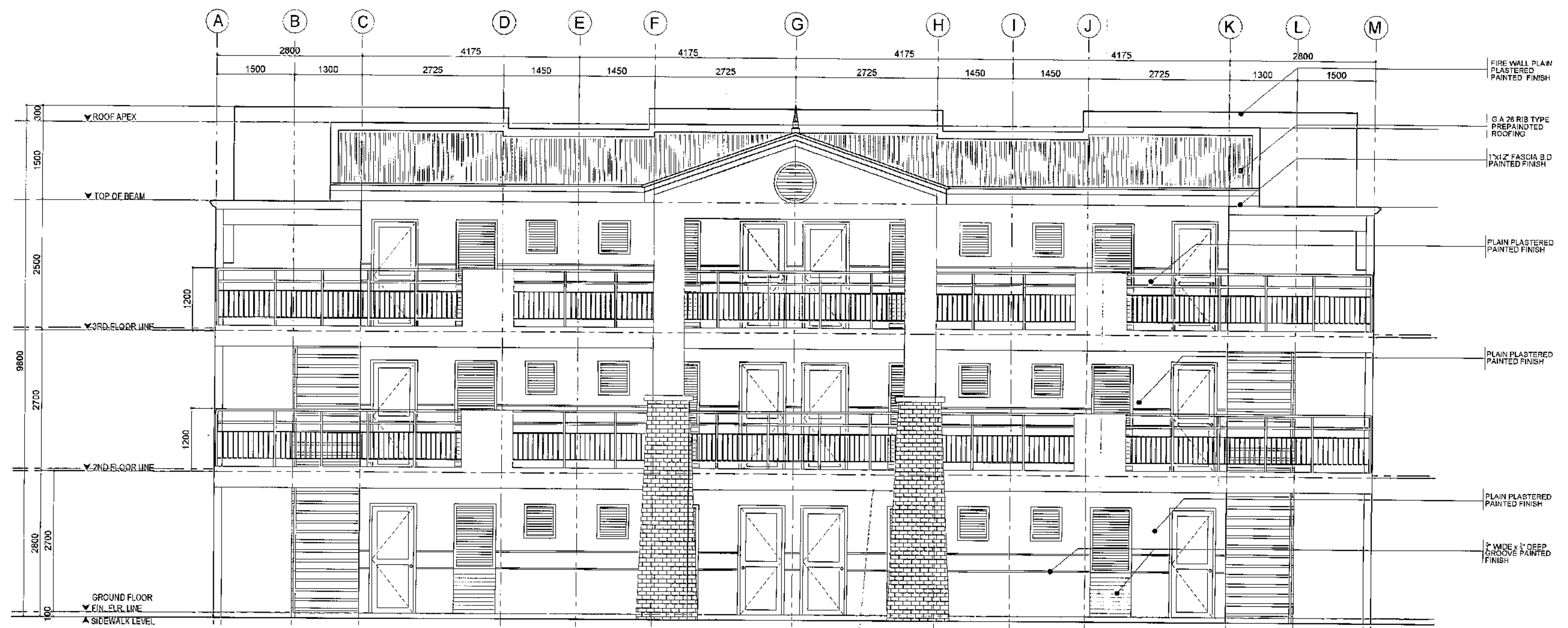
SCALE 1:50 METERS



## 2 ROOF PLAN (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS

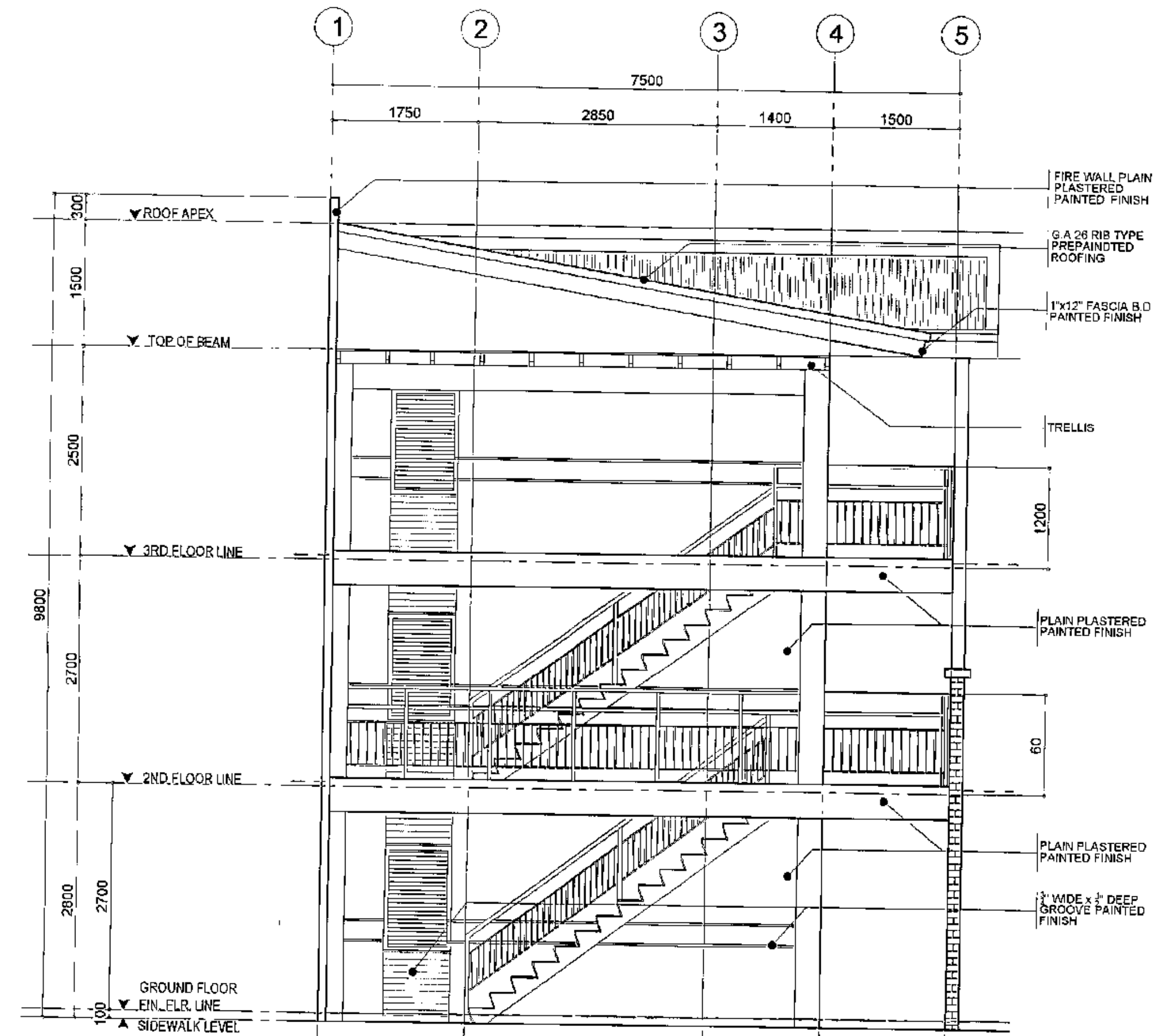
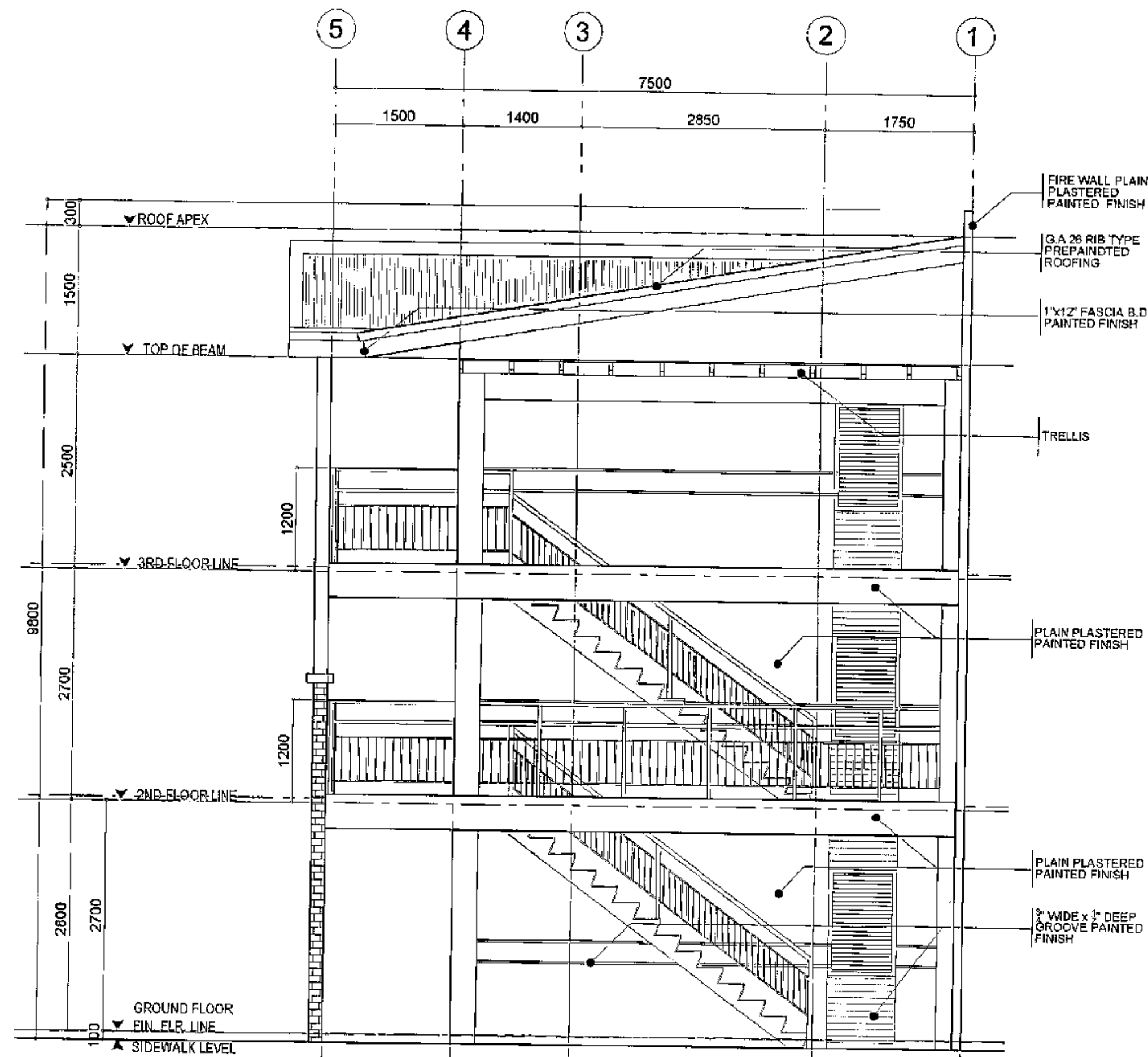
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	<p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>						



# 1 TYPICAL FRONT ELEVATION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS

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# 1 RIGHT SIDE ELEVATION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS

# 2 LEFT SIDE ELEVATION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS



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## RECOMMENDING APPROVAL

*Ar. Lucille H. Chua, uap, piep*  
**Ar. LUCILLE H. CHUA, uap, piep**  
CITY ARCHITECT

*Engr. Isagani R. Verzosa Jr.*  
**Engr. ISAGANI R. VERZOSA Jr.**  
CITY ENGINEER

## APPROVED BY:

*Hon. Ma. Josefina G. Belmonte*  
**HON. MA. JOSEFINA G. BELMONTE**  
SEC. CITY MAYOR

## PROJECT TITLE:

**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG**

LOCATION: BRGY. BAGBAG, QUEZON CITY

## SHEET CONTENTS:

RIGHT SIDE ELEVATION  
LEFT SIDE ELEVATION

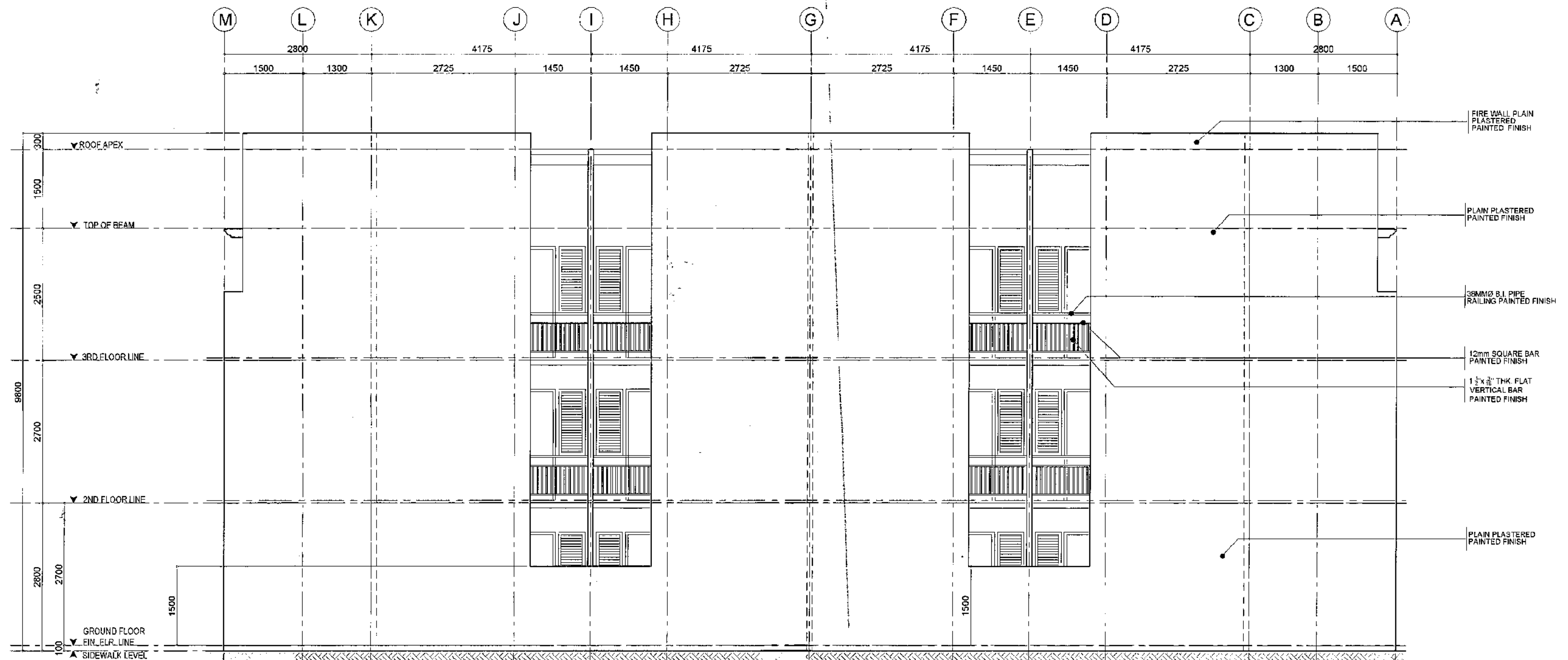
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DATE August 2020  
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DESIGNED BY Ar. M.H. BALADJAY  
CHECKED BY Ar. L.H. CHUA

## SHEET NO.:

**AR-06**





1 REAR ELEVATION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS



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EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL

*Ar. Lucille H. Chua*  
**Ar. LUCILLE H. CHUA, uap, piep**  
CITY ARCHITECT

*Engr. Isagani R. Verzosa Jr.*  
**Engr. ISAGANI R. VERZOSA Jr.**  
CIC - CITY ENGINEER

APPROVED BY:

*Hon. Ma. Josefina G. Belmonte*  
**HON. MA. JOSEFINA G. BELMONTE**  
SEC. CITY MAYOR

PROJECT TITLE:

**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG**

LOCATION: BRGY. BAGBAG, QUEZON CITY

SHEET CONTENTS:

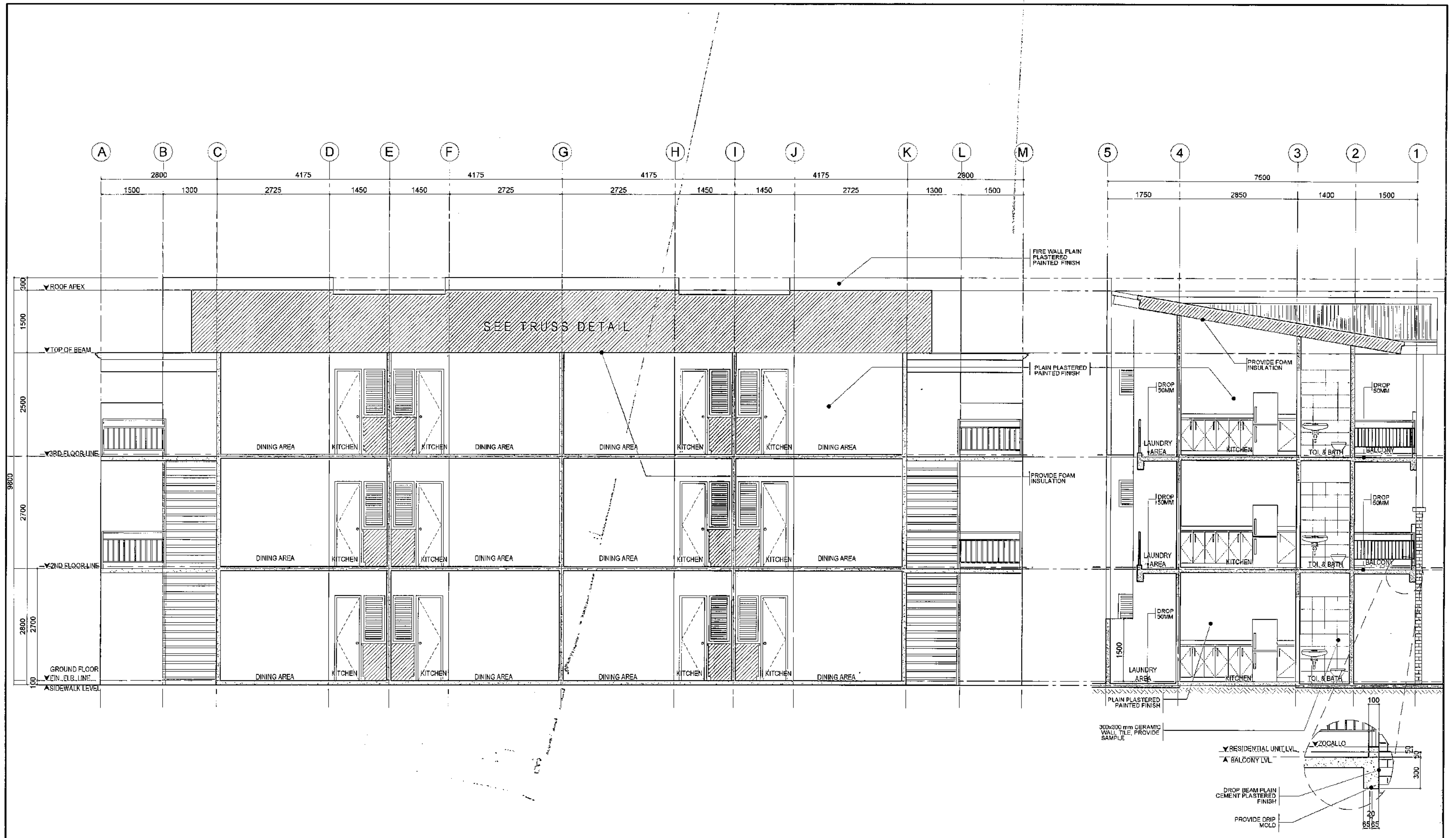
RIGHT SIDE ELEVATION  
LEFT SIDE ELEVATION

PROJECT NO.:

DATE	August 2020
DRAWN BY	Ar. P.N.B.
DESIGNED BY	Ar. M.H. SALADJAY
CHECKED BY	Ar. L.H. CHUA

SHEET NO.:

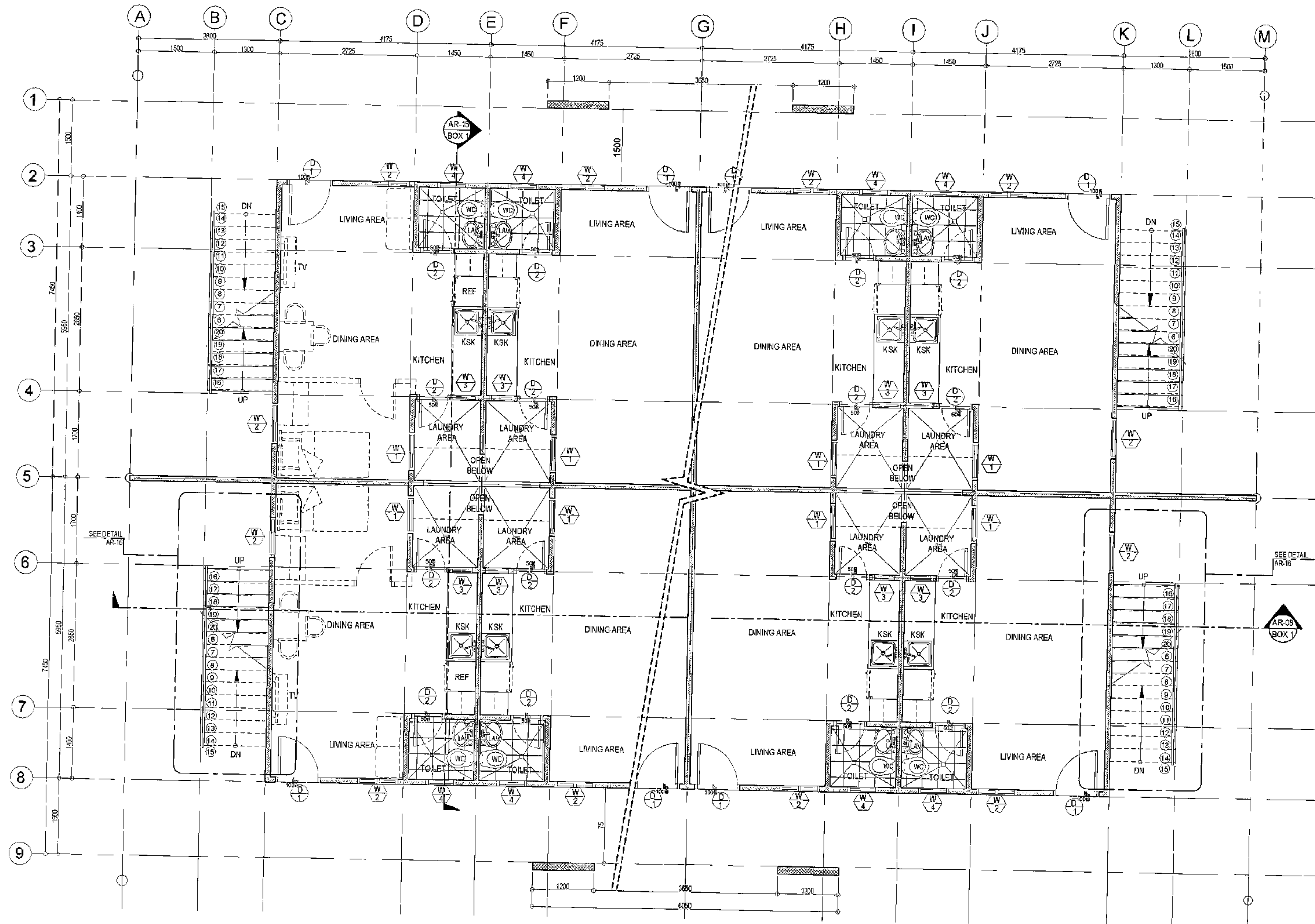
**AR-07**



# 1 LONGITUDINAL SECTION/ CROSS SECTION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS

<div><div><div></div><div>Republika ng Pilipinas Lungsod ng Quezon</div><div>CITY ARCHITECT DEPARTMENT</div><div>SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</div></div><div><div></div><div></div><div></div></div></div>	<div>PROVISO:</div> <div>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHICHEVER THE CASE FOR ENJOY 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 ANY OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</div>	<div>RECOMMENDING APPROVAL</div> <div><div><div><div></div><div>Ar. LUCILLE H. CHUA,uap, piep</div><div>CITY ARCHITECT</div></div><div><div><div></div><div>Engr. ISAGANI R. VERZOSA Jr.</div><div>OIC - CITY ENGINEER</div></div></div></div></div>	<div>APPROVED BY :</div> <div><div><div></div><div>HON. MA. JOSEFINA G. BELMONTE</div><div>SECRETARY/MAYOR</div></div></div>	<div>PROJECT TITLE :</div> <div>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</div> <div>LOCATION : BRGY. BAGBAG, QUEZON CITY</div>	<div>SHEET CONTENTS :</div> <div>LONGITUDINAL SECTION CROSS SECTION</div>	<div>PROJECT NO.:</div> <div><table><tr><td>DATE</td><td>August 2020</td></tr><tr><td>DRAWN BY</td><td>Ar. P.N.B</td></tr><tr><td>DESIGNED BY</td><td>Ar. M.H.BALADJAY</td></tr><tr><td>CHECKED BY</td><td>Ar. L.H.CHUA</td></tr></table></div>	DATE	August 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Ar. M.H.BALADJAY	CHECKED BY	Ar. L.H.CHUA	<div>SHEET NO.:</div> <div>AR-08</div>
DATE	August 2020														
DRAWN BY	Ar. P.N.B														
DESIGNED BY	Ar. M.H.BALADJAY														
CHECKED BY	Ar. L.H.CHUA														



- NOTE:
- 1.) ALL CORNER UNITS WITH SIDE WINDOWS
  - 2.) VERIFY MASTER SITE DEVT. PLAN FOR ACTUAL NUMBER OF UNIT.

# 1 TYPICAL GROUND FLOOR PLAN (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS



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



PROVISO:

DRAWING AND SPECIFICATIONS ONLY  
SHOWN, STAMPED OR SEALED BY  
THE ARCHITECT OR ENGINEER AND THE  
INSTRUMENTS OF SERVICE ARE THE  
PROPERTY OF THE CITY ARCHITECT DEPARTMENT.  
WHETHER THE OR NOT FOR WHICH THEY  
ARE USED IS SUBMITTED OR NOT, IT SHALL  
BE UNLAWFUL FOR ANY PERSON WITHOUT  
THE CONSENT OF THE ARCHITECT OR ENGINEER  
TO REPRODUCE OR TO MAKE  
COPIES OF THIS DOCUMENT FOR OTHER  
PROJECTS OR BUILDINGS, WHETHER  
EXECUTED PARTLY OR IN WHOLE.

RECOMMENDING APPROVAL

*Ar. Lucille H. Chua, uap, piep*  
**Ar. LUCILLE H. CHUA, uap, piep**  
CITY ARCHITECT

*Engr. Isagani R. Verzosa Jr.*  
**Engr. ISAGANI R. VERZOSA JR.**  
CITY ENGINEER

APPROVED BY:

*HON. MA. JOSEFINA G. BELMONTE*  
**HON. MA. JOSEFINA G. BELMONTE**  
SECURE CITY MAYOR

PROJECT TITLE:

**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG**

LOCATION: BRGY. BAGBAG, QUEZON CITY

SHEET CONTENTS:

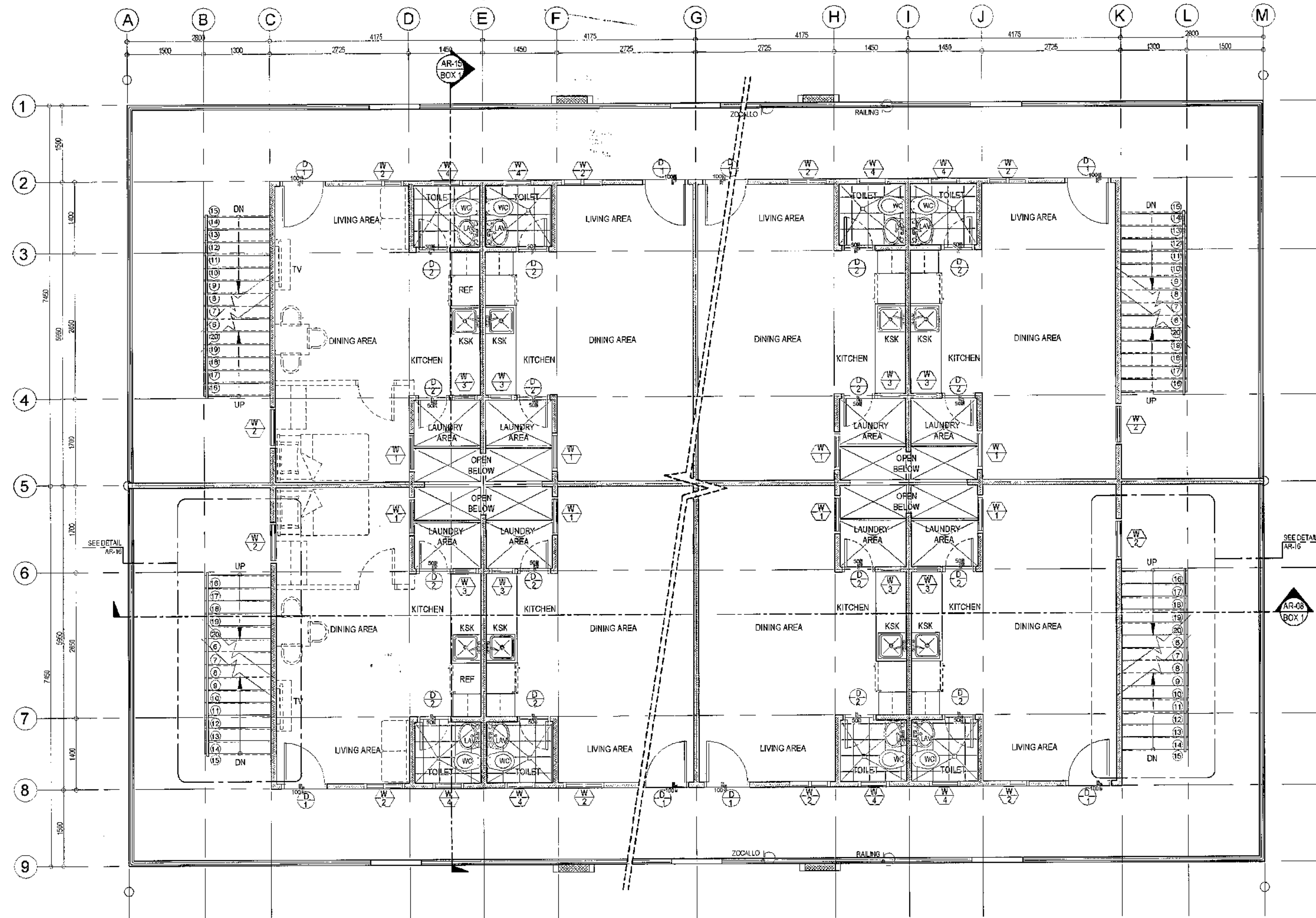
TYPICAL GROUND FLOOR PLAN  
(BACK TO BACK HOUSING)

PROJECT NO.:

DATE: September 2020  
DRAWN BY: Ar. P.N.B.  
DESIGNED BY: Ar. M.H. BALADJAY  
CHECKED BY: Ar. L.H. CHUA

SHEET NO.:

**AR-09**



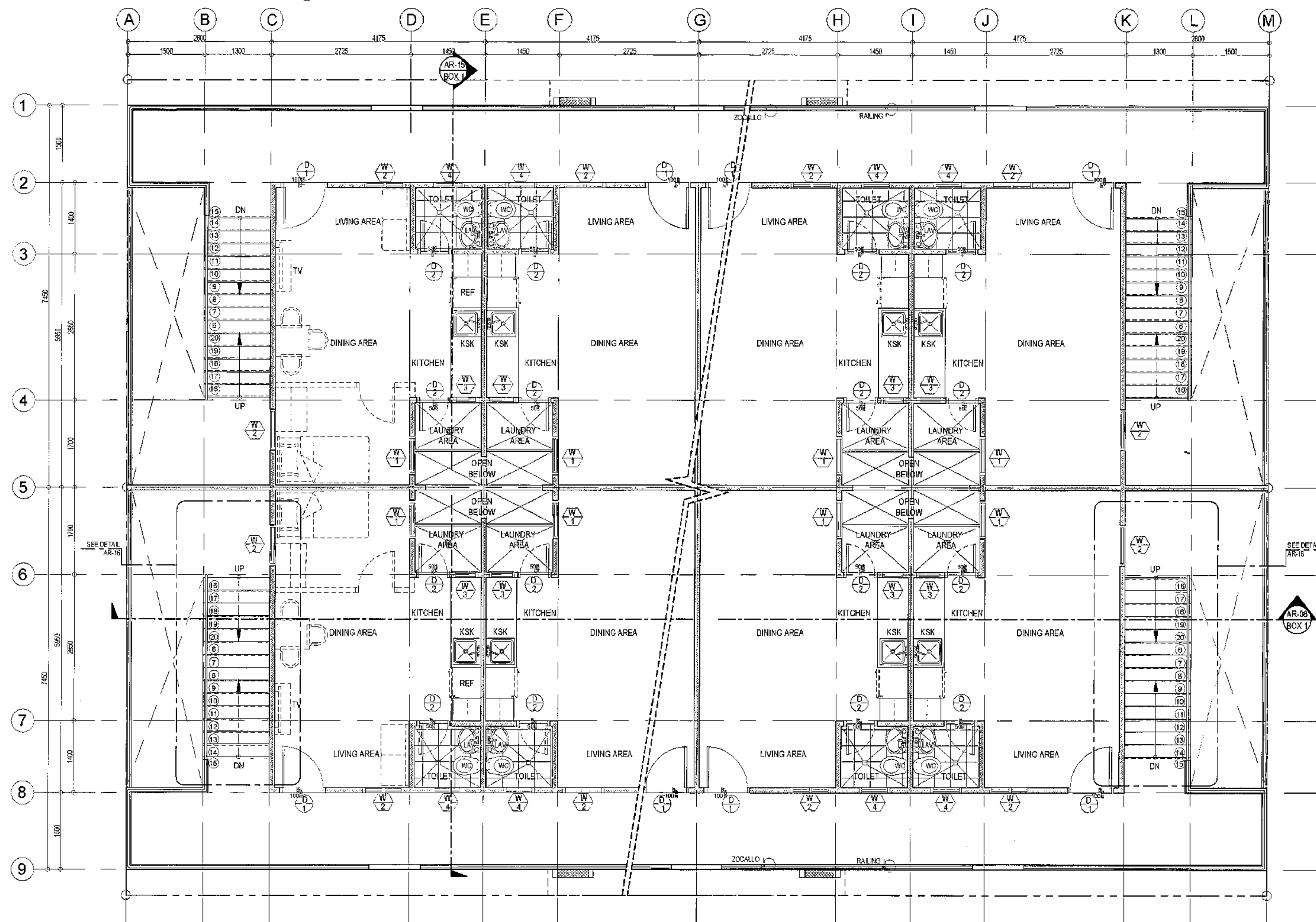
- NOTE:
- 1.) ALL CORNER UNITS WITH SIDE WINDOWS
  - 2.) VERIFY MASTER SITE DEV'T. PLAN FOR ACTUAL NUMBER OF UNIT.

# 1 TYPICAL SECOND FLOOR PLAN (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5/F CIVIC CENTER-D (BRO. Bldg.) QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILMAN, QUEZON CITY</p>	<b>PROVISO:</b> DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE USER OR NOT, NO PART HEREOF SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE CITY ARCHITECT DEPARTMENT.	<b>RECOMMENDING APPROVAL</b>   <b>Ar. LUCILLE H. CHUA, uap, iep</b> CITY ARCHITECT	<b>APPROVED BY:</b>   <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER	<b>PROJECT TITLE:</b>  <b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b>	<b>SHEET CONTENTS:</b>  TYPICAL SECOND FLOOR PLAN (BACK TO BACK HOUSING)	<b>PROJECT NO.:</b>  <table> <tr> <td>DATE</td> <td>September 2020</td> </tr> <tr> <td>DRAWN BY</td> <td>Ar. P.N.B</td> </tr> <tr> <td>DESIGNED BY</td> <td>Ar. M.H. BALADIAJAY</td> </tr> <tr> <td>CHECKED BY</td> <td>Ar. L.H. CHUA</td> </tr> </table>	DATE	September 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Ar. M.H. BALADIAJAY	CHECKED BY	Ar. L.H. CHUA	<b>SHEET NO.:</b>  <b>AR-10</b>
	DATE	September 2020													
	DRAWN BY	Ar. P.N.B													
	DESIGNED BY	Ar. M.H. BALADIAJAY													
CHECKED BY	Ar. L.H. CHUA														
<b>LOCATION:</b> BRGY. BAGBAG, QUEZON CITY															




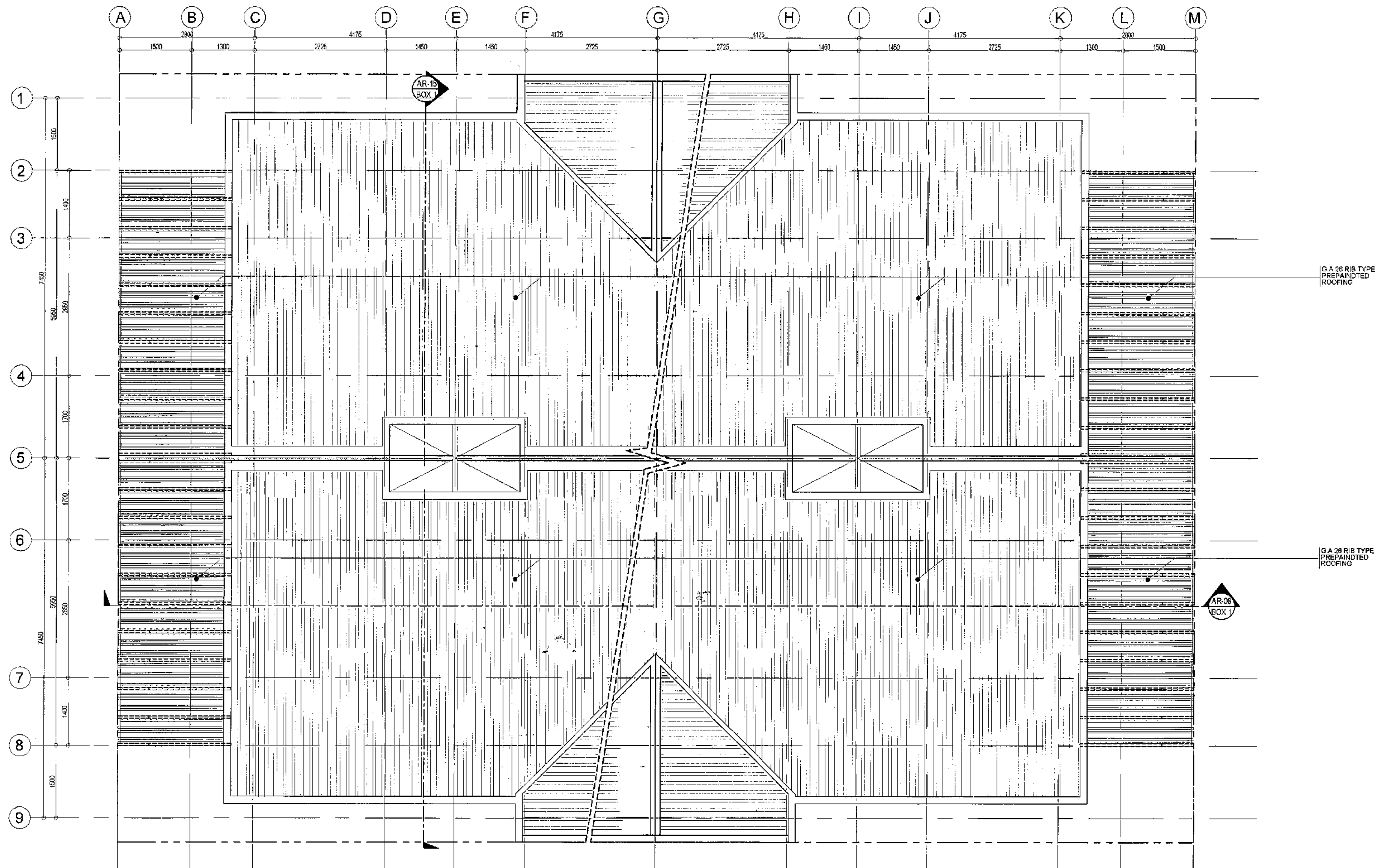


- NOTE:
- 1.) ALL CORNER UNITS WITH SIDE WINDOWS
  - 2.) VERIFY MASTER SITE DEV'T. PLAN FOR ACTUAL NUMBER OF UNIT.

# 1 TYPICAL THIRD FLOOR PLAN (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5th FLOOR CENTER-D (BRO. Bldg.) QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL BUILDING CODE OF THE PHILIPPINES (PD 946) AND THE NATIONAL ELECTRICAL CODE OF THE PHILIPPINES (PD 118).</p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> CIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>TYPICAL THIRD FLOOR PLAN (BACK TO BACK HOUSING)</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H. BALADJAY CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>AR-11</b></p>
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# 1 TYPICAL FRAMING PLAN (BACK TO BACK HOUSING UNITS)


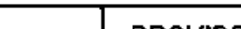



SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SF CMV CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE AND THE INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE. WHEN THE CLIENT FOR WHICH THEY ARE MADE IS DEPOSITED IN ANY OF THE OFFICES OF THE ARCHITECT, WITHOUT THE CONSENT OF THE ARCHITECT, NO COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF ANY OTHER PROJECTS OR BUILDINGS, WHETHER REQUESTED PARTLY OR IN WHOLE.</p>	RECOMMENDING APPROVAL	APPROVED BY:	PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:	
		<p>Ar. LUCILLE H. CHUA, uap, piep</p> <p>CITY ARCHITECT</p>	<p>Engr. ISAGANI R. VERZOSA Jr.</p> <p>OIC - CITY ENGINEER</p>	<p>HON. MA. JOSEFINA G. BELMONTE</p> <p>SEC. CITY MAYOR</p>	<p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</p>	<p>TYPICAL ROOF FRAMING PLAN (BACK TO BACK HOUSING)</p>	<p>DATE: September 2020</p> <p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Ar. M.H. BALADJAY</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	<p>AR-12</p>
		<p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>						



# 1 TYPICAL FRONT ELEVATION (PERIMETER HOUSING UNITS)

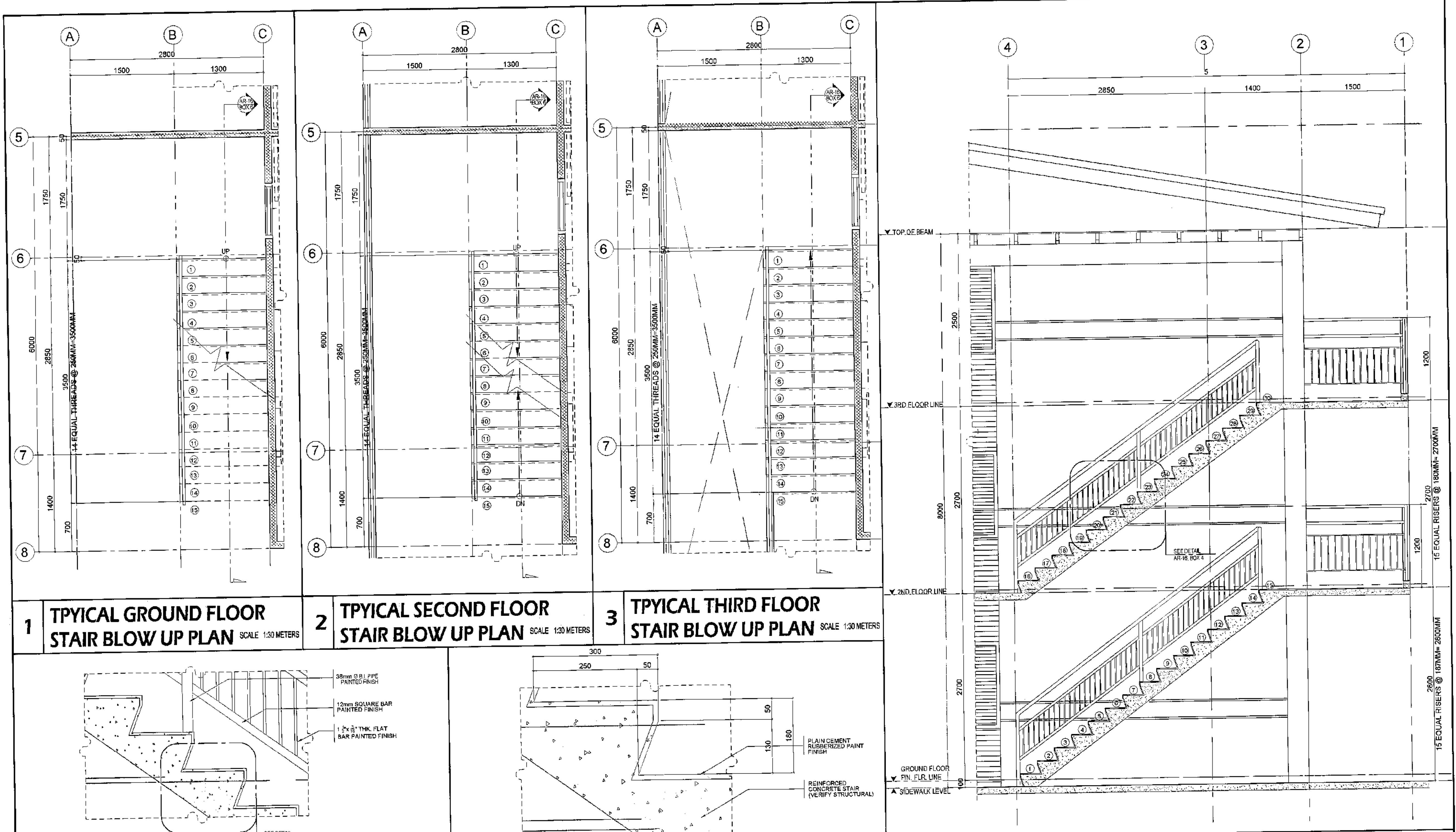
SCALE 1:50 METERS

PROVISO:		RECOMMENDING APPROVAL	APPROVED BY:	PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:																	
 <div>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 51F CIVIC CENTER - D (BRO. Bldg.) QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</div>	 <div>DRAWING AND SPECIFICATIONS ONLY SIGNERS, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES &amp; DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS DEPOSITED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OR SAID DEPARTMENT, TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE EXECUTION OF ANY OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</div>	<div> <b>Ar. LUCILLE H. CHUA, map, piep</b> CITY ARCHITECT</div>	<div> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</div>	<div> <b>HON. MA JOSEFINA G. BELMONTE</b> SECRETARY MAYOR</div>	<div><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></div> <div>LOCATION: BRGY. BAGBAG, QUEZON CITY</div>	<div>TYPICAL FRONT &amp; REAR ELEVATION (BACK TO BACK HOUSING)</div> <table><tr><td>DATE</td><td>August 2020</td></tr><tr><td>DRAWN BY</td><td>Ar. P.N.B</td></tr><tr><td>DESIGNED BY</td><td>Ar. M.H. BALADJAY</td></tr><tr><td>CHECKED BY</td><td>Ar. L.H. CHUA</td></tr></table>	DATE	August 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Ar. M.H. BALADJAY	CHECKED BY	Ar. L.H. CHUA	<table><tr><td>DATE</td><td>August 2020</td></tr><tr><td>DRAWN BY</td><td>Ar. P.N.B</td></tr><tr><td>DESIGNED BY</td><td>Ar. M.H. BALADJAY</td></tr><tr><td>CHECKED BY</td><td>Ar. L.H. CHUA</td></tr></table>	DATE	August 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Ar. M.H. BALADJAY	CHECKED BY	Ar. L.H. CHUA	<b>AR-13</b>
		DATE	August 2020																					
DRAWN BY	Ar. P.N.B																							
DESIGNED BY	Ar. M.H. BALADJAY																							
CHECKED BY	Ar. L.H. CHUA																							
DATE	August 2020																							
DRAWN BY	Ar. P.N.B																							
DESIGNED BY	Ar. M.H. BALADJAY																							
CHECKED BY	Ar. L.H. CHUA																							

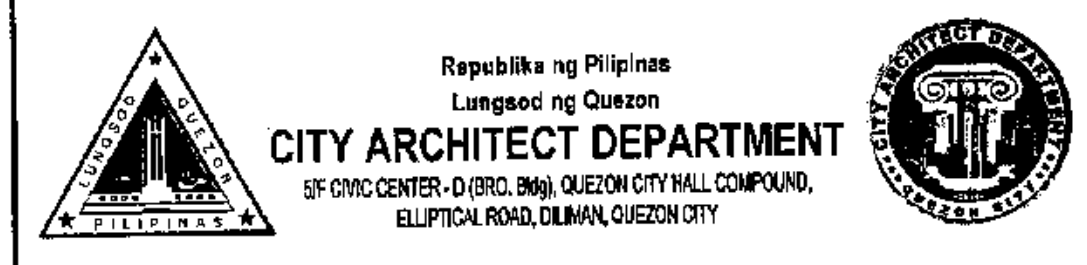




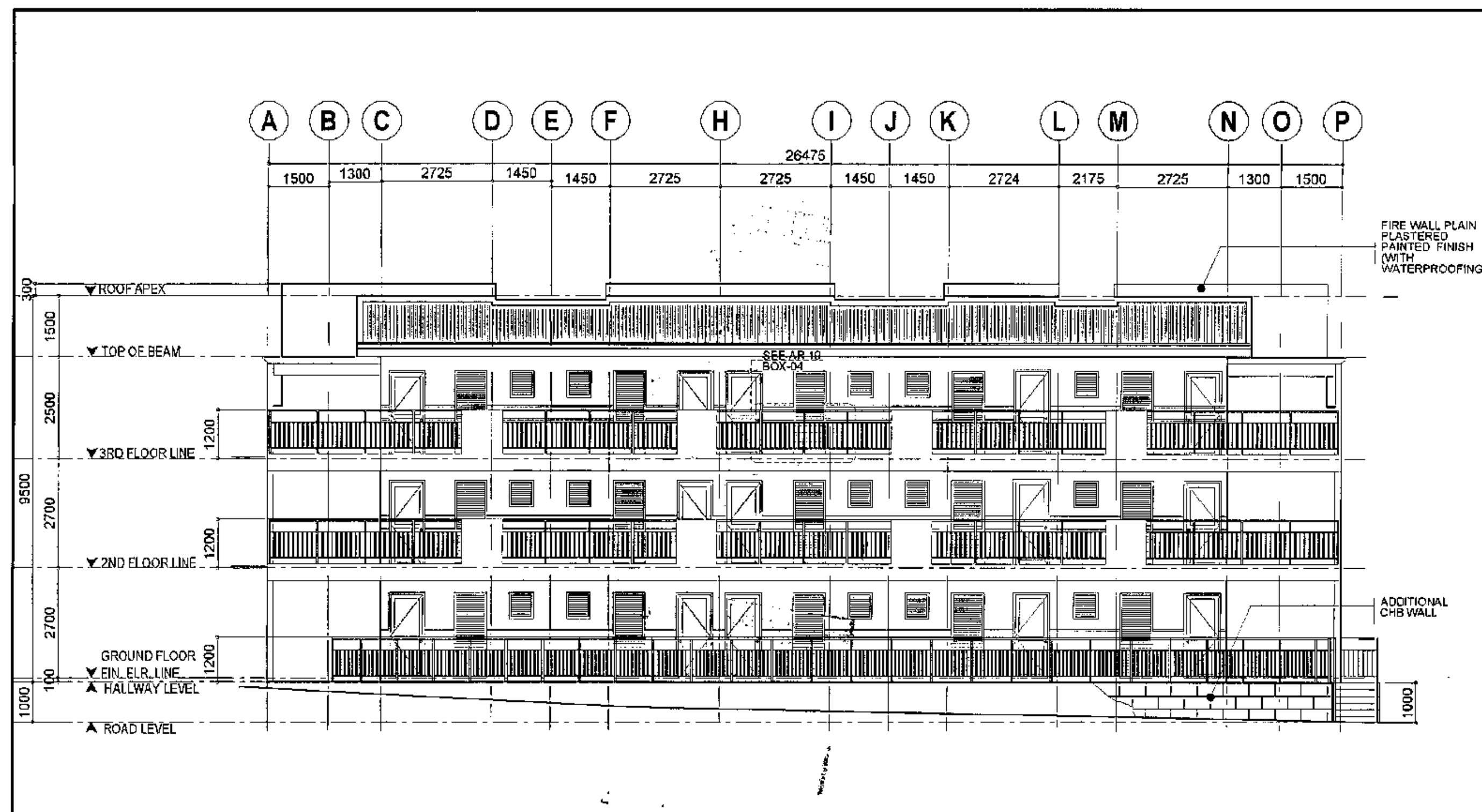




<b>4 BLOW UP SECTION OF STAIRS</b> SCALE 1:10 METERS		<b>5 BLOW UP SECTION OF STAIRS</b> SCALE 1:5 METERS		<b>6 BLOW UP SECTION OF STAIRS</b> SCALE 1:30 METERS	
PROVIDE: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTAL PROCEEDINGS OF THE CITY ARCHITECT DEPARTMENT, WHICHEVER THE OBJECT FOR WHICH THEY ARE USED IS DESCRIBED 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 REPERITION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHICHEVER EXECUTED PARTLY OR IN WHOLE.		RECOMMENDING APPROVAL Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT		APPROVED BY: Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER	
PROJECT TITLE: PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG		SHEET CONTENTS: STAIR BLOW UP PLAN STAIR BLOW UP SECTION		PROJECT NO.: DATE: August 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H. BALADJAY CHECKED BY: Ar. L.H. CHUA	
LOCATION: BRGY. BAGBAG, QUEZON CITY		SHEET NO.: <b>AR-16</b>			

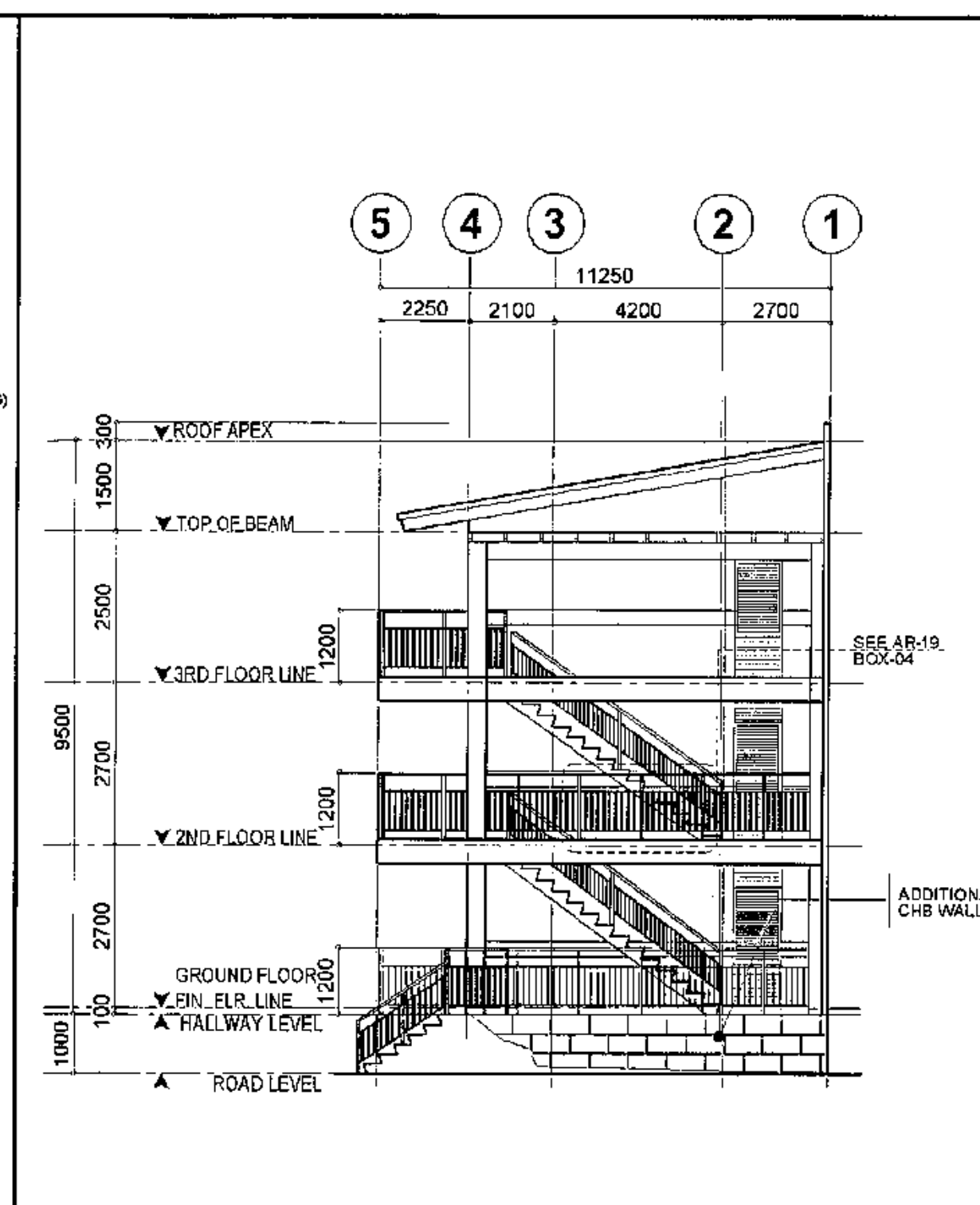






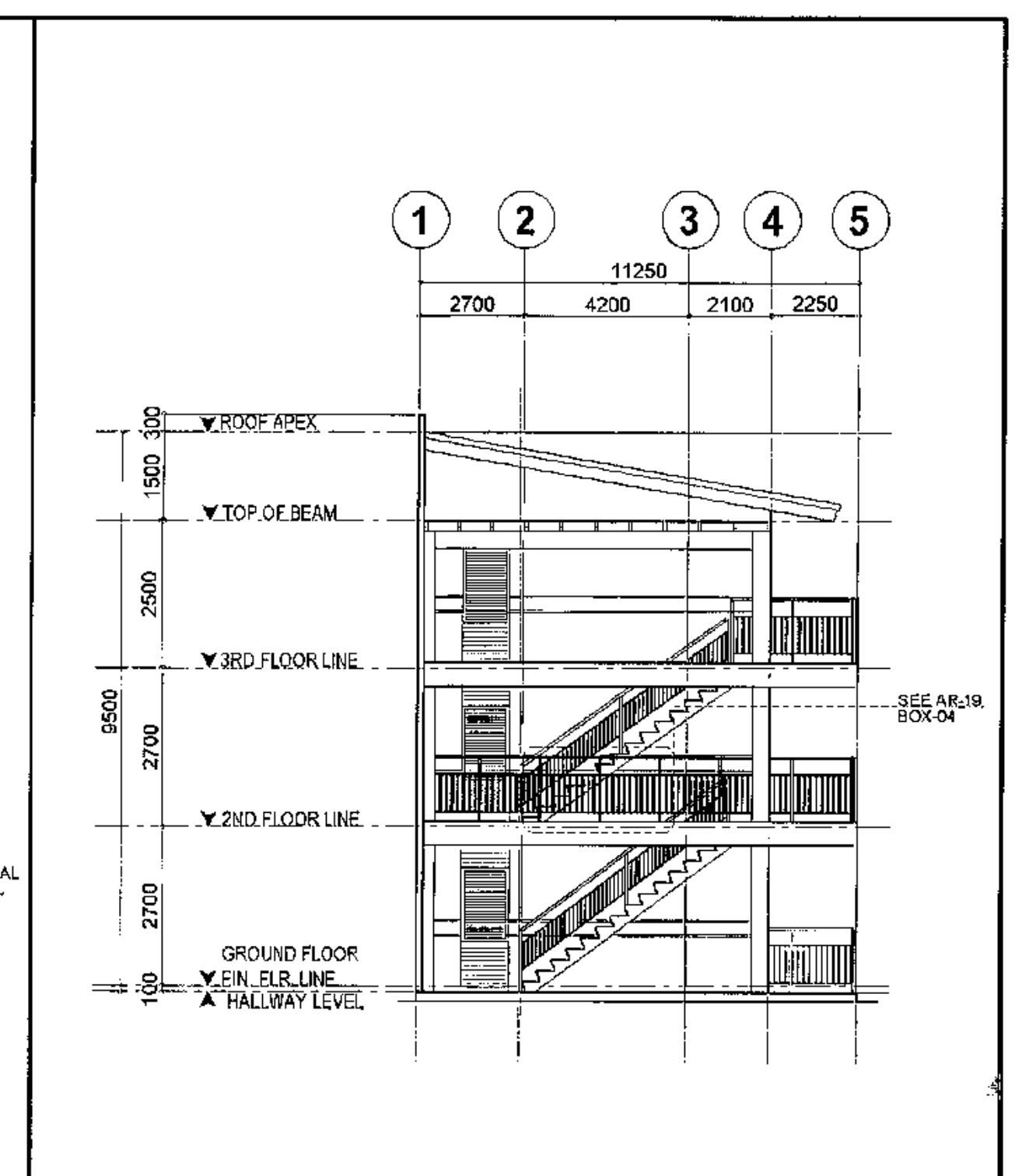
1 FRONT ELEVATION BLDG. A

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



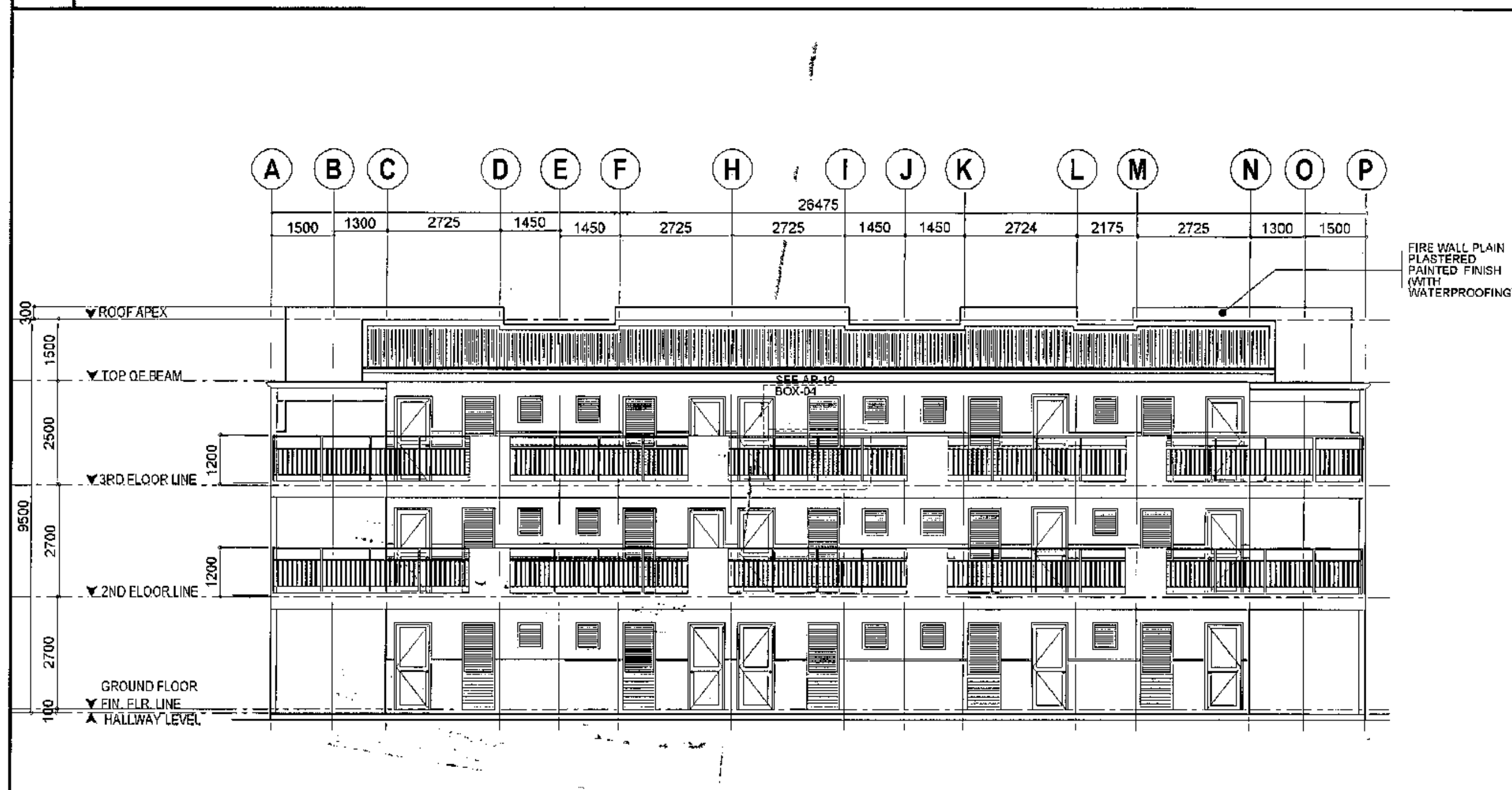
2 RIGHT SIDE ELEVATION BLDG. A

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



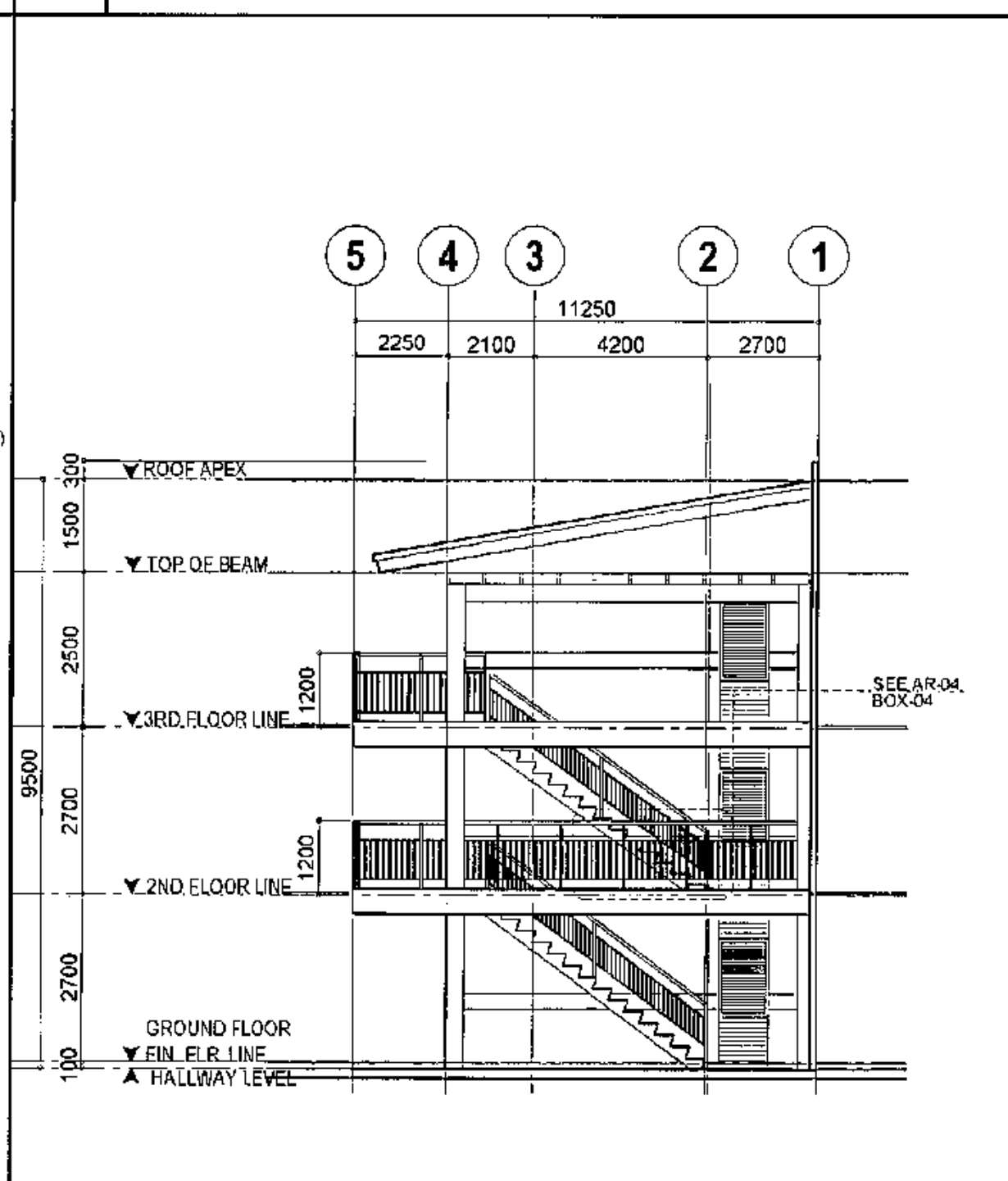
3 LEFT SIDE ELEVATION BLDG. A

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



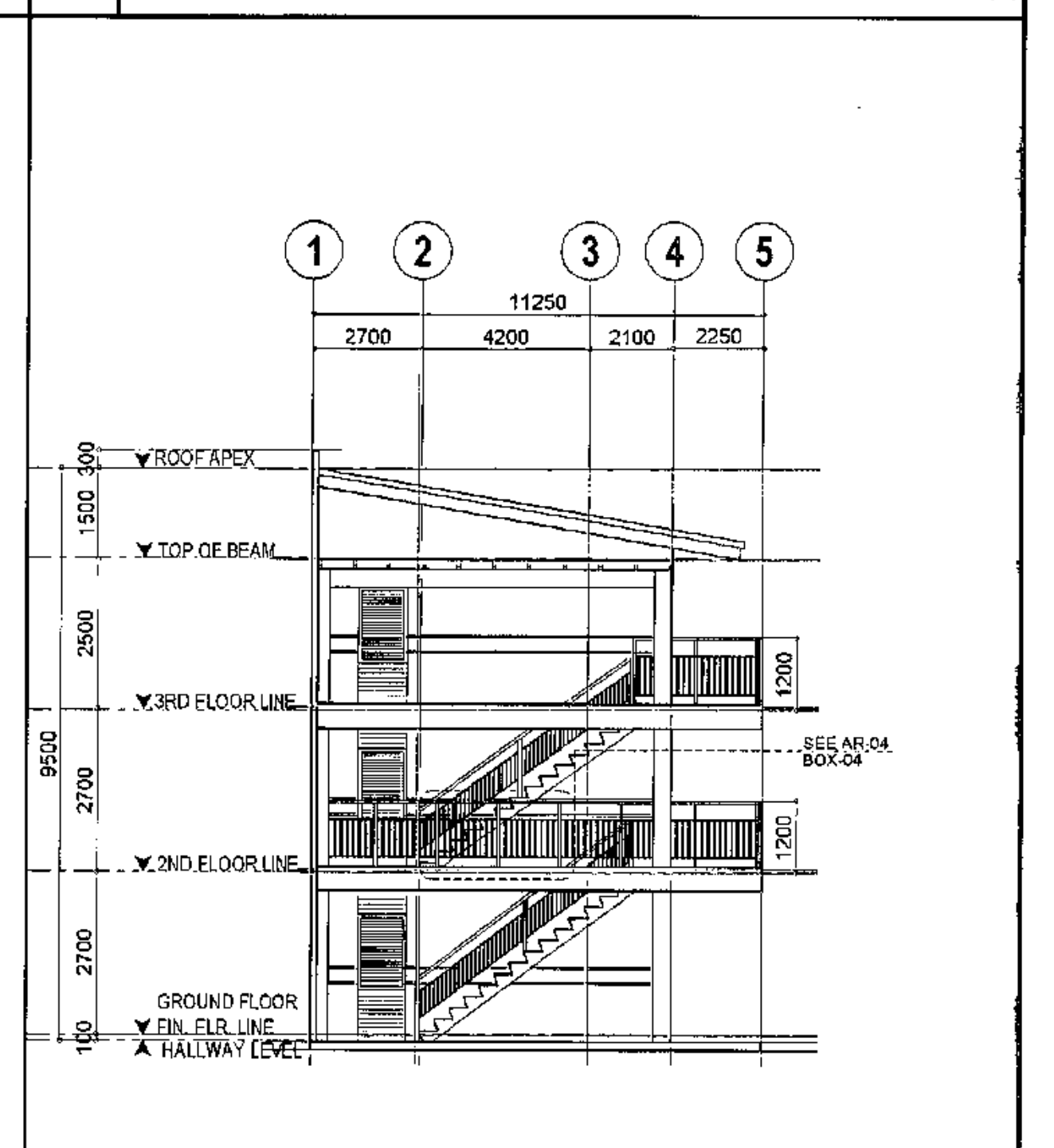
4 FRONT ELEVATION BLDG. B

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



5 RIGHT SIDE ELEVATION BLDG. B

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

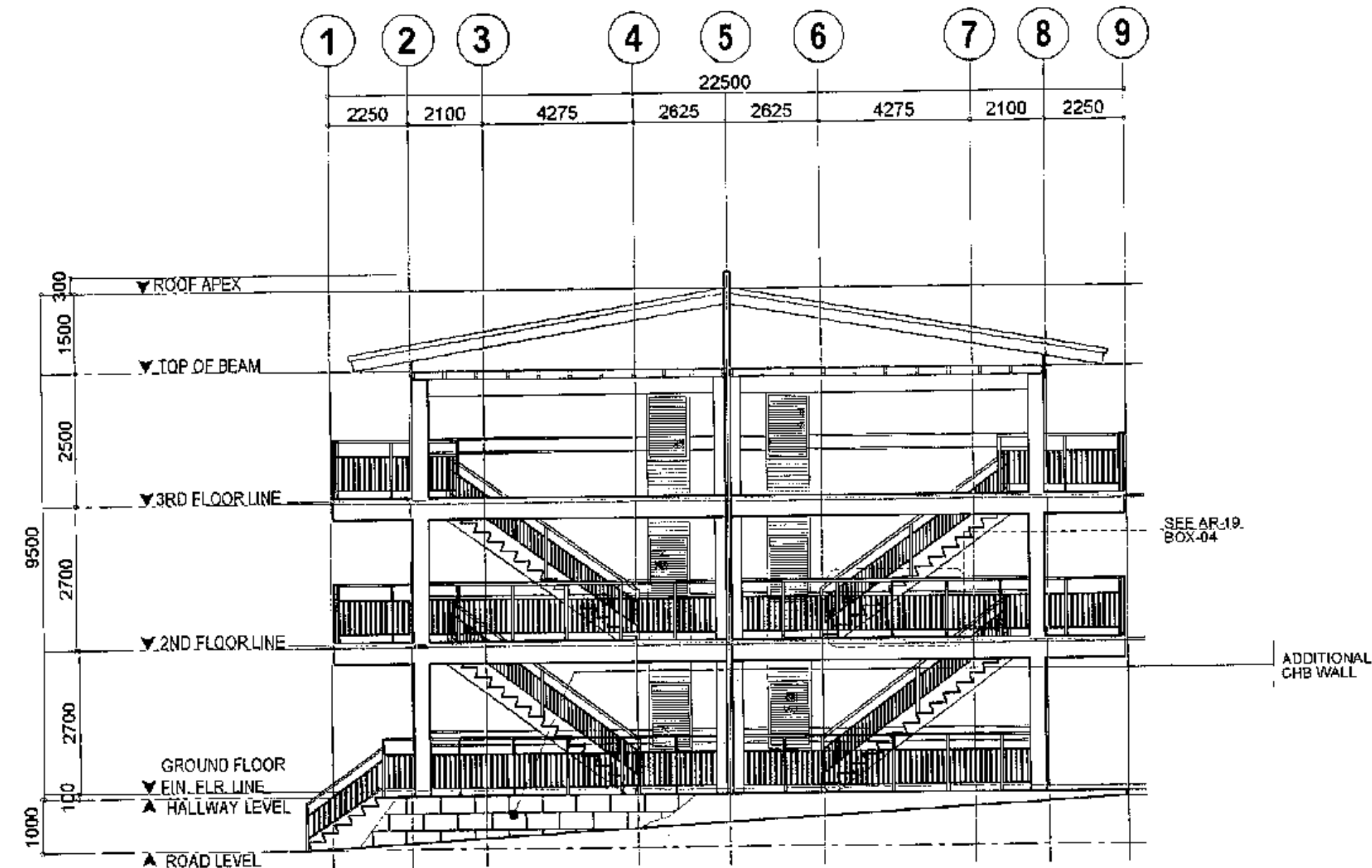


6 LEFT SIDE ELEVATION BLDG. B

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

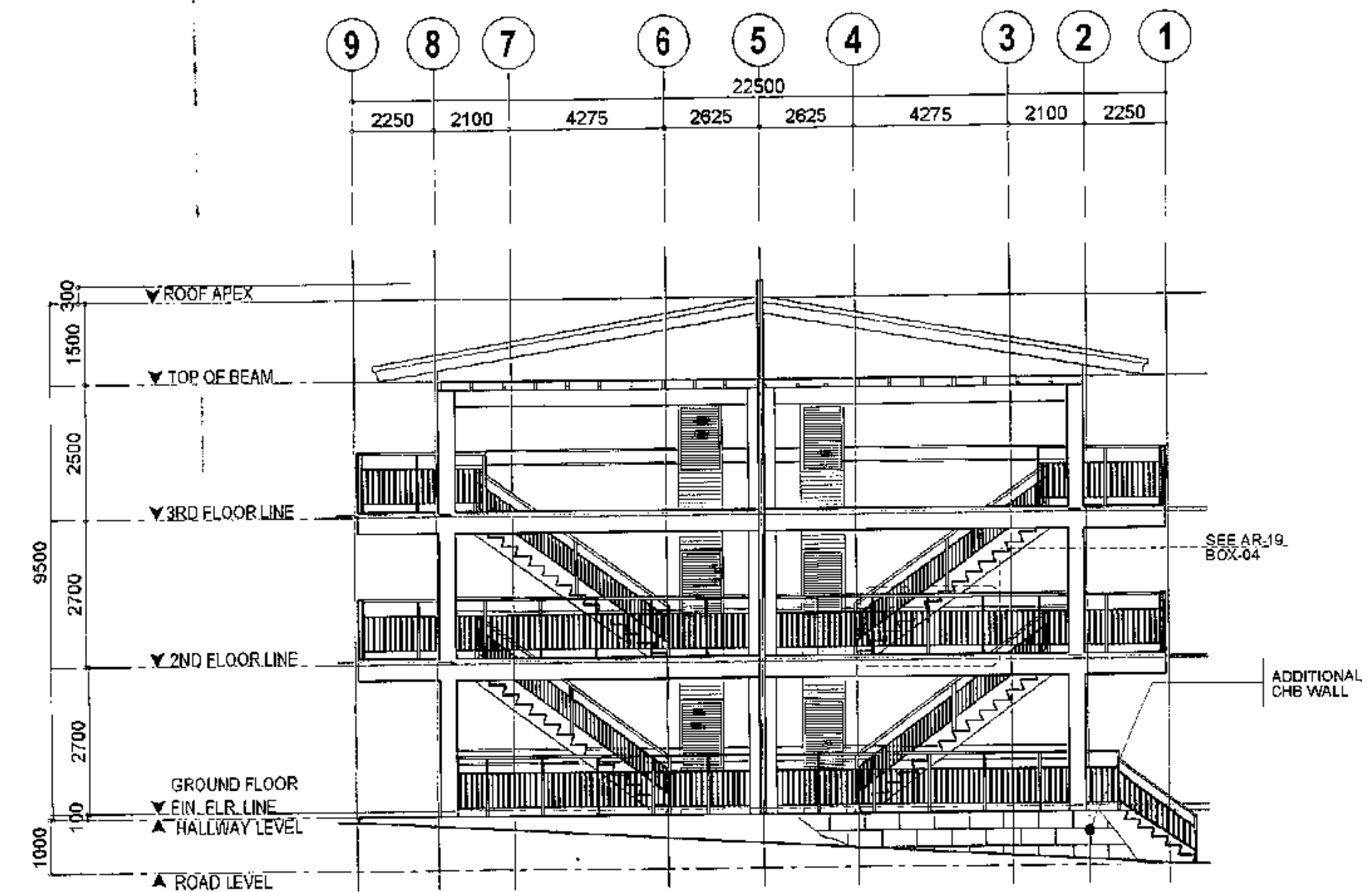
<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (BRO. BROS), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE ARCHITECT OF THE CITY ARCHITECT DEPARTMENT. WITHIN THE OBJECT FOR WHICH THEY ARE MADE IS REQUIRED ON THE IT SHALL BE IN COMPLIANCE WITH THE CITY ARCHITECT DEPARTMENT OF ANY FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucille H. Chua, uap, piep</i> Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA JR. CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>Hon. Ma. Josefina G. Belmonte</i> HON. MA. JOSEFINA G. BELMONTE SEC. CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p>	<p>SHEET CONTENTS:</p> <p>FRONT ELEVATION TYPICAL RAILING DETAIL</p>	<p>PROJECT NO.:</p>	<p>SHEET NO.:</p>
				<p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>DATE: August 2020</p> <p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Ar. M.H. BALADJAY</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	<p><b>AR-18</b></p>	





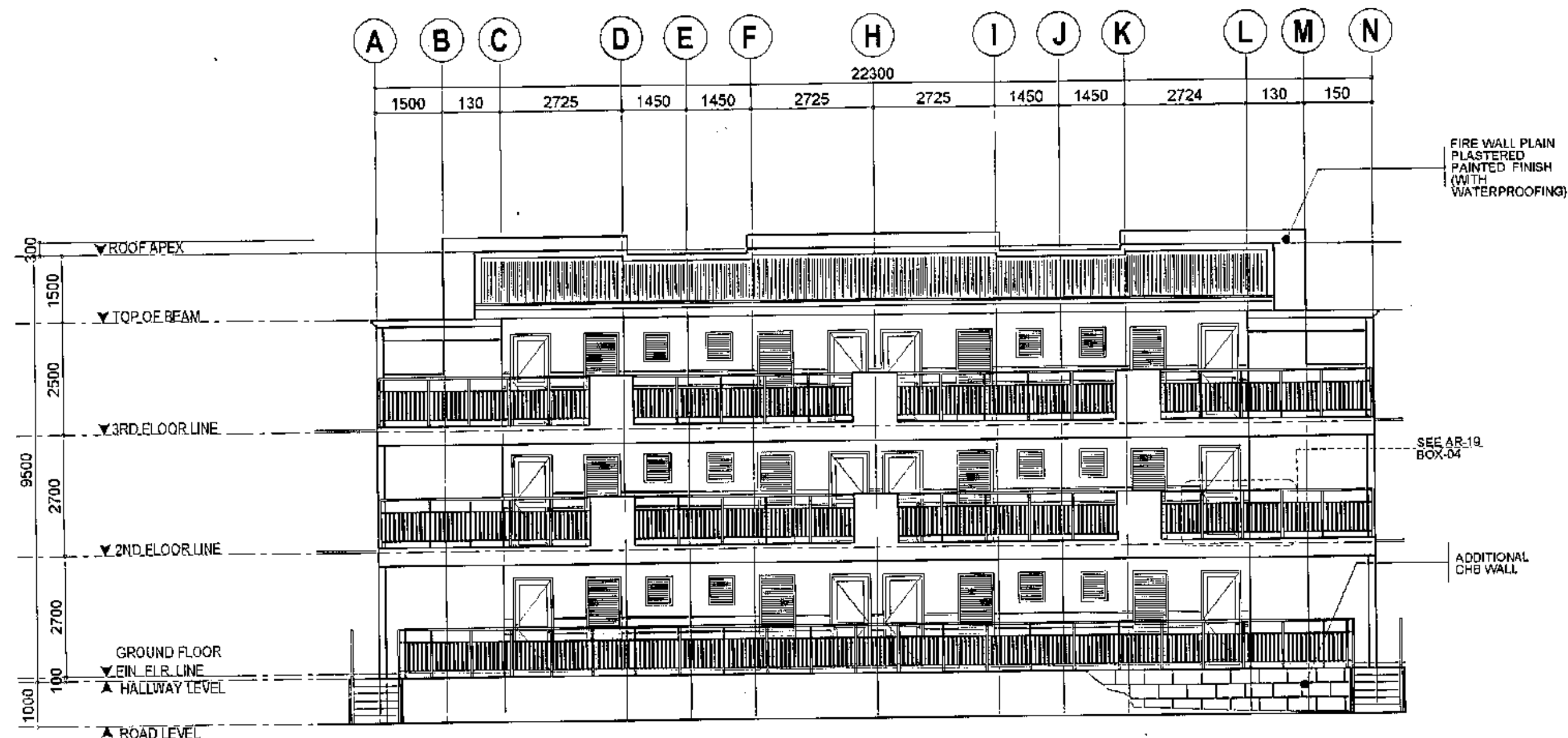
1	RIGHT SIDE ELEVATION BLDG. C
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SCALE 1:100 METERS (20 x 30)  
SCALE 1:200 METERS(A3)

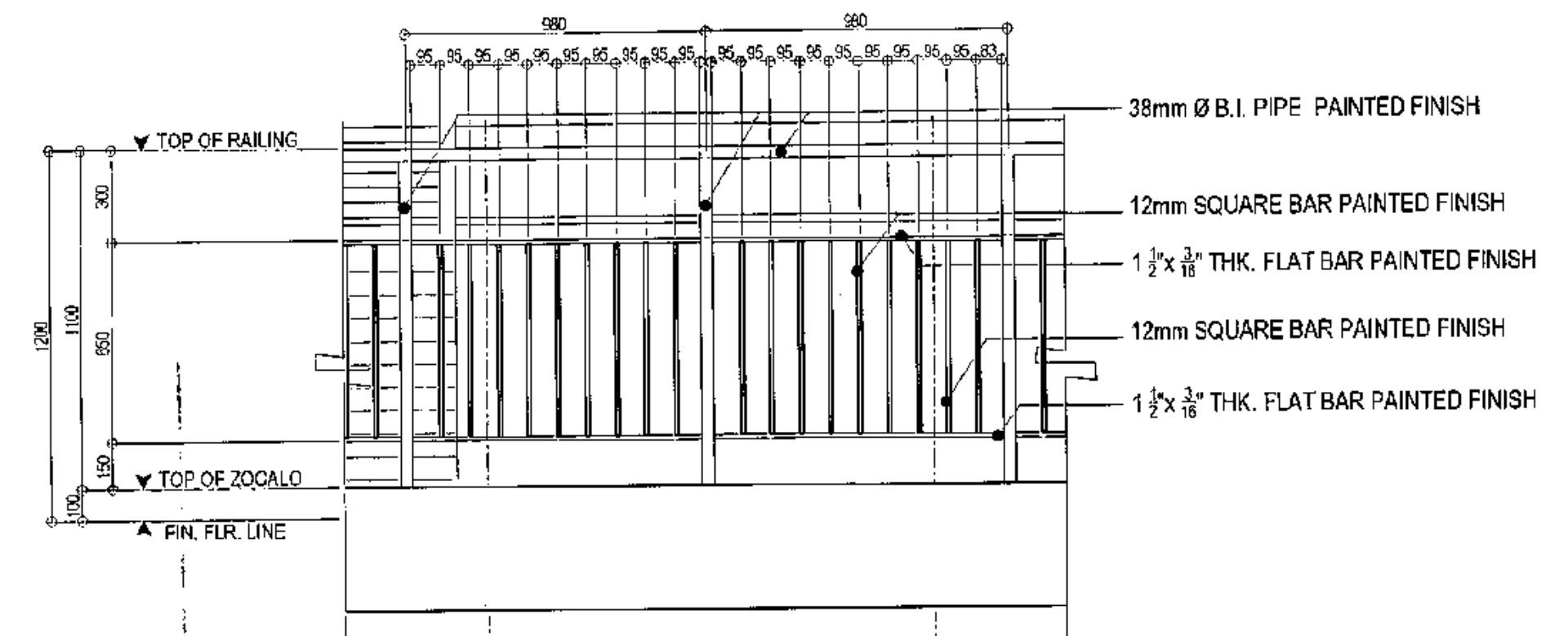


**2 LEFT SIDE ELEVATION BLDG. C**

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



**3 FRONT ELEVATION BLDG. C**



#### 4 BLOW UP OF RAILINGS

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



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ARCHITECT DEPARTMENT**  
51F CIVIC CENTER-D (BRO. Bldg), QUEZON CITY HALL COMPOUND,  
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



**PROVISO:**

DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY & 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.

RECOMMENDING APPROVAL

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

Engr. ISAGANI R. VERZOSA Jr.  
DIO CITY ENGINEER

APPROVED BY :

HON. MA. JOSEFINA G. BELMONTE  
SECE CITY MAYOR

PROJECT TITLE:	
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**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO.13 AT  
BRGY. BAGBAG**

LOCATION : BRGY. BAGBAG, QUEZON CITY

**SHEET CONTENTS :**

SIDE ELEVATION  
FRONT ELEVATION  
RAILING DETAIL

PROJECT NO.:

DATE	August 2020
DRAWN BY	Ar. P.N.B
DESIGNED BY	Ar. M.H.BALADJAY
CHECKED BY	Ar. L.H.CHUA

SHEET NO.:

**AR-19**

GENERAL

1. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
2. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL FOR ENGINEER'S APPROVAL BEFORE FABRICATION.
3. 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.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORINGS AND BRACINGS OF THE STRUCTURE FOR ALL LOADS THAT MAYBE IMPOSED DURING CONSTRUCTION.
5. 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 & REINFORCEMENT

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

LOCATION	STRENGTH	MAX. SIZE OF AGGREGATES	MAX. SLUMP
a. SLAB ON GRADE, CURBS, PAVEMENTS, WALL FOOTING	3000 PSI (20.685 Mpa)	1 in. (25mm)	4 in. (100mm)
b. FOOTING TIE BEAM, SUSPENDED SLAB ON C - JOIST, STEEL DECK FOUNDATIONS, BEAMS, COLS.	3000 PSI (20.685 Mpa)	3/4 in. (19mm)	4 in. (100mm)

3. ALL REINFORCING BARS SHALL CONFORM TO PNS49 GRADE 275 FOR 12mm Ø AND SMALLER BARS AND GRADE 415 FOR 16mm Ø AND LARGER BARS.
4. 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.

5. MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:

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

6. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND IN ACCORDANCE WITH TABLE 1 (TABLE OF LAP SPLICE AND ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.
7. ALL ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE PROPERLY POSITIONED AND SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS, AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN (7) CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
10. STRIPPING OF FORMS AND SHORES:

CONCRETE	CURING
FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
PEDESTALS, COLUMNS, WALLS	2 DAYS
BEAMS	21 DAYS

11. DEVELOPMENT LENGTH FOR ALL BARS SHALL BE A MINIMUM OF 60 BAR DIAMETER, UNLESS OTHERWISE NOTED.

NOTE:

CONCRETE	3000 PSI	STAIRS	3000 PSI	SLAB ON GRADE	3000 PSI
COLUMN	3000 PSI	FOUNDATION/FOOTING	3000 PSI	WALL FOOTING	3000 PSI
BEAM	3000 PSI	RETAINING WALL	3000 PSI		
SUSPENDED SLAB	3000 PSI				

STRUCTURAL STEEL AND PLATES

- ALL STRUCTURAL MILL SECTIONS, BUILT UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC'S LATEST "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
1. DESIGN LOADS FOR BUILDINGS SHALL MEET THE REQUIRED STRUCTURAL DESIGN CRITERIA. STEEL PLATES, SHAPES, BARS AND METAL FABRICATIONS: ASTM A-36.
2. ANCHOR & FASTENER BOLTS, ALL BOLTS SHALL CONFORM TO ASTM (A-307) SPECIFICATIONS.
3. ELECTRODES FOR WELDING: ASTM A233 E 70XX SERIES; COMPLY WITH AWS D1.1 CODE REQUIREMENTS. FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH LATEST
4. "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
5. ALL BUTT WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE PROPERLY BACK-CHIPPED OR GOUGED. BACK-UP PLATES SHALL BE PROVIDED AS REQUIRED. APPLY TT-P-845 SHOP PAINT FOR ALL FABRICATIONS.
6. SHOP PAINTING FOR STRUCTURAL STEEL SHALL BE RUST INHIBITIVE PRIMER WITH MINIMUM D.F.T. OF 2.0 MILS.
7. TOUCH-UP PAINTING: APPLY PAINT TO EXPOSED AREAS IN MANNER SATISFACTORY TO THE ENGINEER WITH SAME MATERIAL AS SHOP PAINT.
8. COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT.
9. CONTRACTOR SHALL FURNISH COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. THESE DRAWINGS WILL SHOW ANCHOR BOLT SETTING, PRIMARY SECONDARY, AND ROOF FRAMING, AND NECESSARY INSTALLATION DETAILS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.
10. APPLICATION OF FIRE PROOFING SYSTEM IS REQUIRED FOR ALL STRUCTURAL STEEL MEMBERS. PROVIDE 2 HOUR MINIMUM FIRE RATING. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR ADDITIONAL FIRE PROOFING REQUIREMENTS.

FOUNDATION

1. FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 336 KPa.
2. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER. NO PART OF THE FOUNDATION SHALL REST ON FILL.
3. 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.

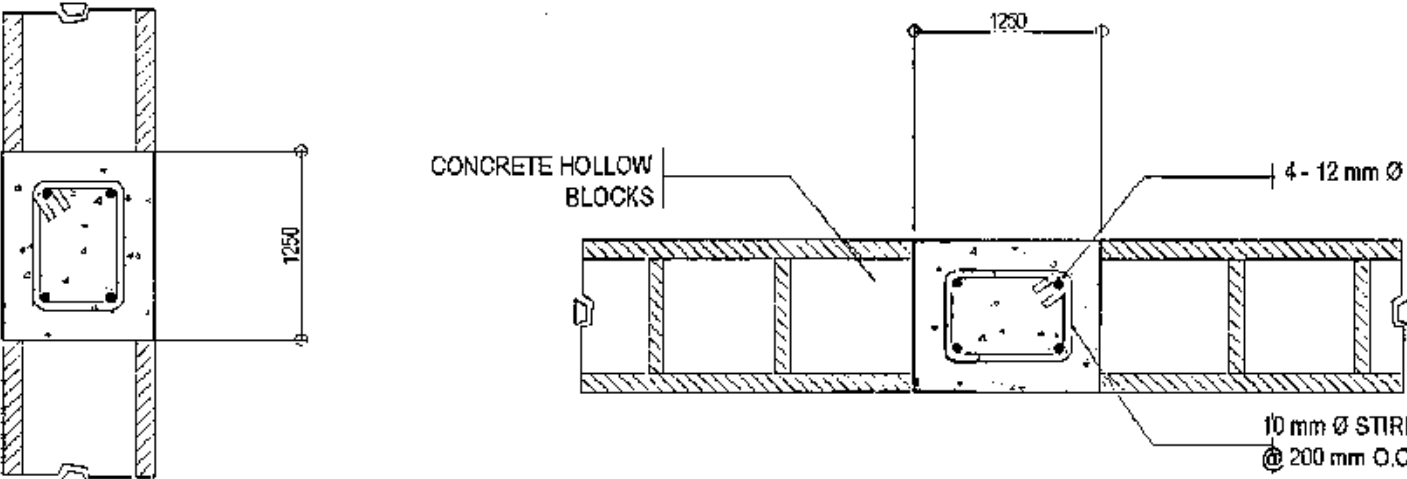
MASONRY WALLS

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

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

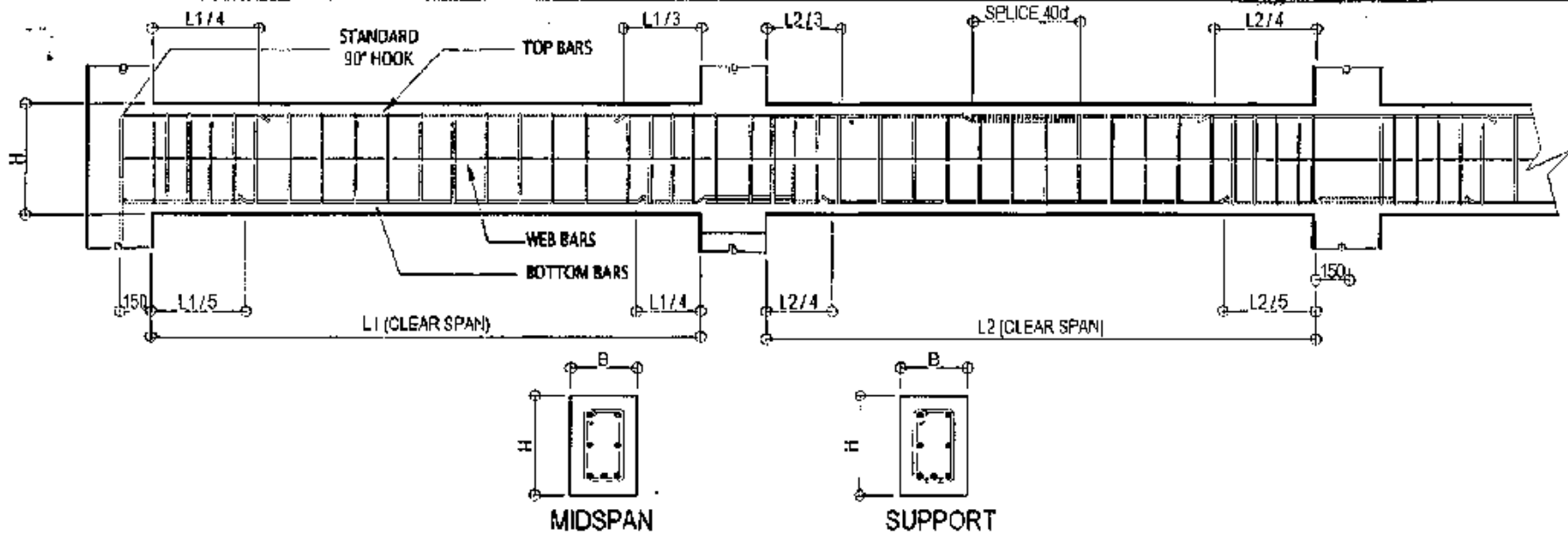
5.b. FOR DOORS & WINDOWS OPENING PROVIDE LINTEL BEAM SAME AS STIFFENER BEAM BLOCK.

CHB REINFORCEMENTS			
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 SPLICE = 300mm LONG
150	10mm Ø BARS @ EVERY 3RD LAYER OF CHB	10mm Ø @ 600 mm O.C.	B. PROVIDE RIGHT ANGLE REINFORCEMENT @ CORNERS



STIFFENER BEAM BLOCK

STIFFENER COLUMN



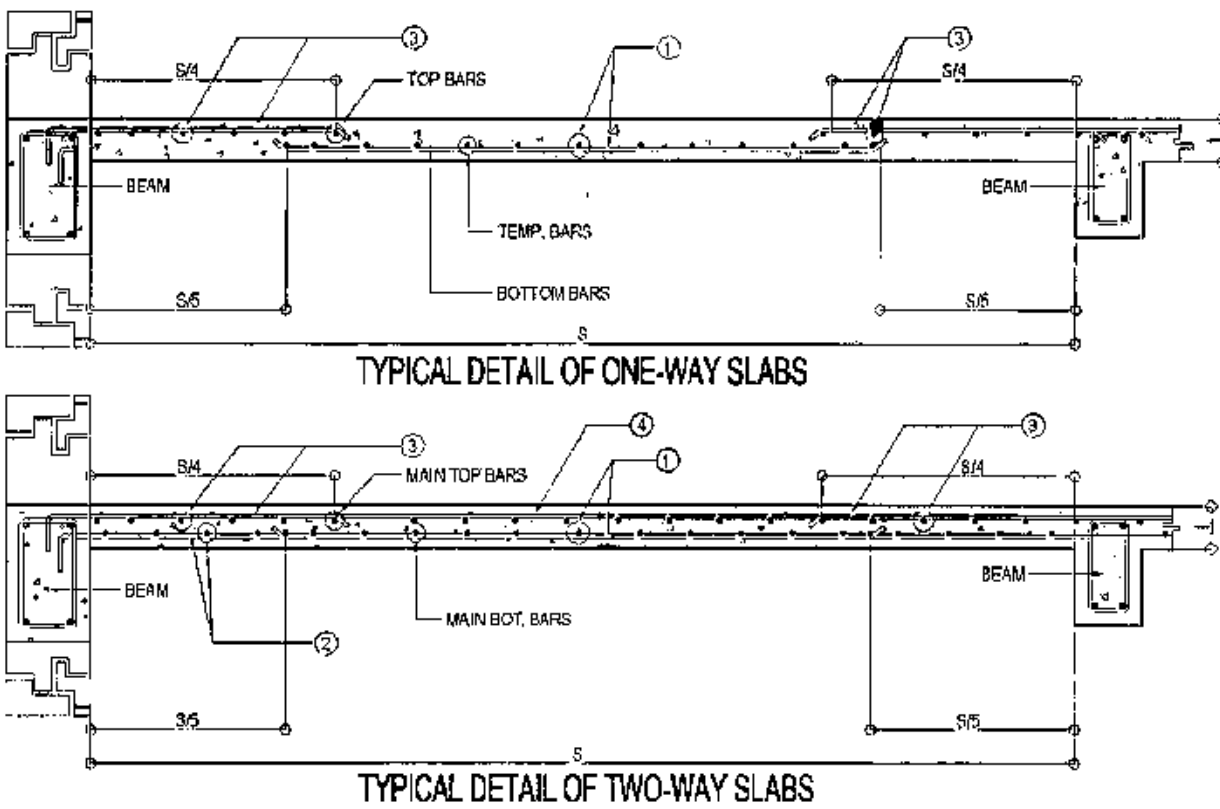
2 TYPICAL BEAM DETAIL

NOT TO SCALE

	BEAM	DIMENSIONS ( MM )		BAR Ø	TOP BARS			BOTTOM BARS			STIRRUPS 10MMØ
	MARK	B	H		LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	
2ND FLOOR	2B1	200	550	16	6	2	6	2	6	2	1@ 100, REST @ 200
	2B2	200	450	16	4	2	4	2	4	2	1@ 100, REST @ 200
	2B3	175	400	16	3	2	3	2	3	2	1@ 100, REST @ 200
	2B4	150	350	16	2	2	2	2	2	2	1@ 100, REST @ 200
	DB1	150	550	16	2	2	2	2	2	2	1@ 100, REST @ 200
3RD FLOOR	3B1	200	450	16	4	2	4	2	4	2	1@ 100, REST @ 200
	3B2	200	400	16	3	2	3	2	3	2	1@ 100, REST @ 200
	3B3	175	375	16	3	2	3	2	3	2	1@ 100, REST @ 200
	3B4	150	350	16	2	2	2	2	2	2	1@ 100, REST @ 200
	DB2	150	450	16	2	2	2	2	2	2	1@ 100, REST @ 200
	RB	150	300	16	2	2	2	2	2	2	1@ 100, REST @ 200
	GB	200	400	16	3	2	3	2	3	2	1@ 100, REST @ 200

3 SCHEDULE OF BEAMS

NOT TO SCALE



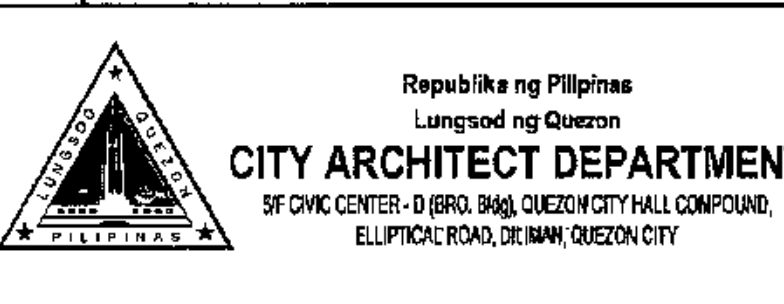
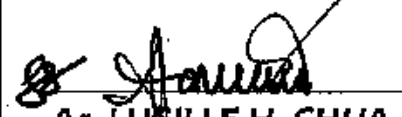


MARK	t	REINFORCEMENT										REMARK
				SHORT SPAN				LONG SPAN				
		MAIN BARS	TEMP.	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
4	3			1	2	4	3	1	2			
S-1	100	10	10	300	150	150	300	300	150	150	300	TWO-WAY SLAB
S-2	100	10	10	—	150	150	—	—	150	150	—	ONE-WAY SLAB

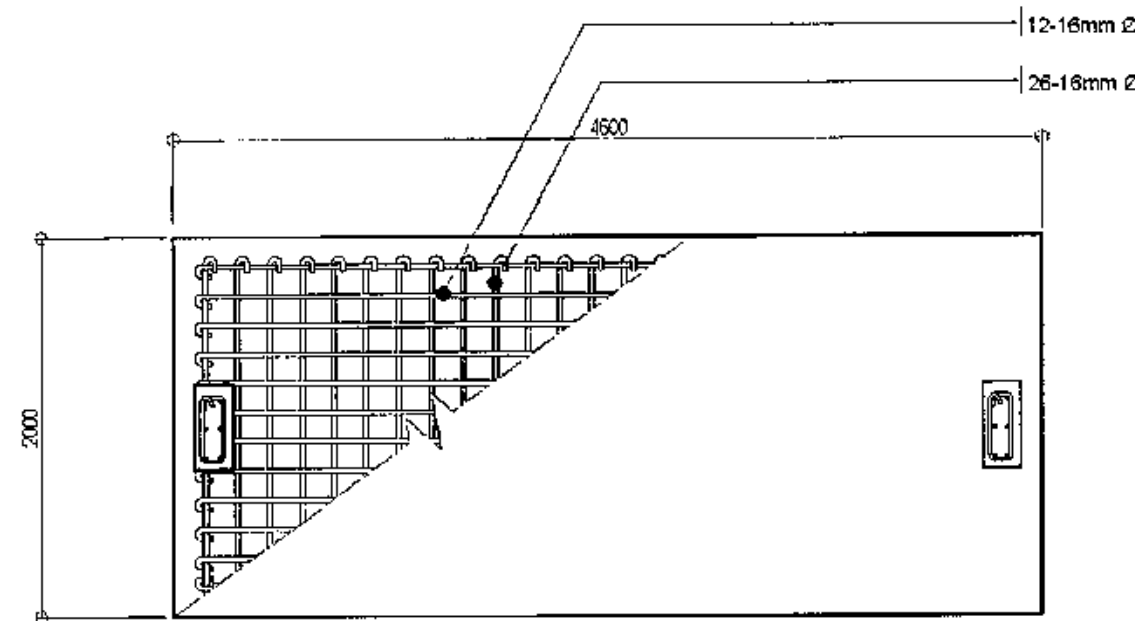
1 GENERAL NOTES

NOT TO SCALE

4 DETAIL OF SLAB

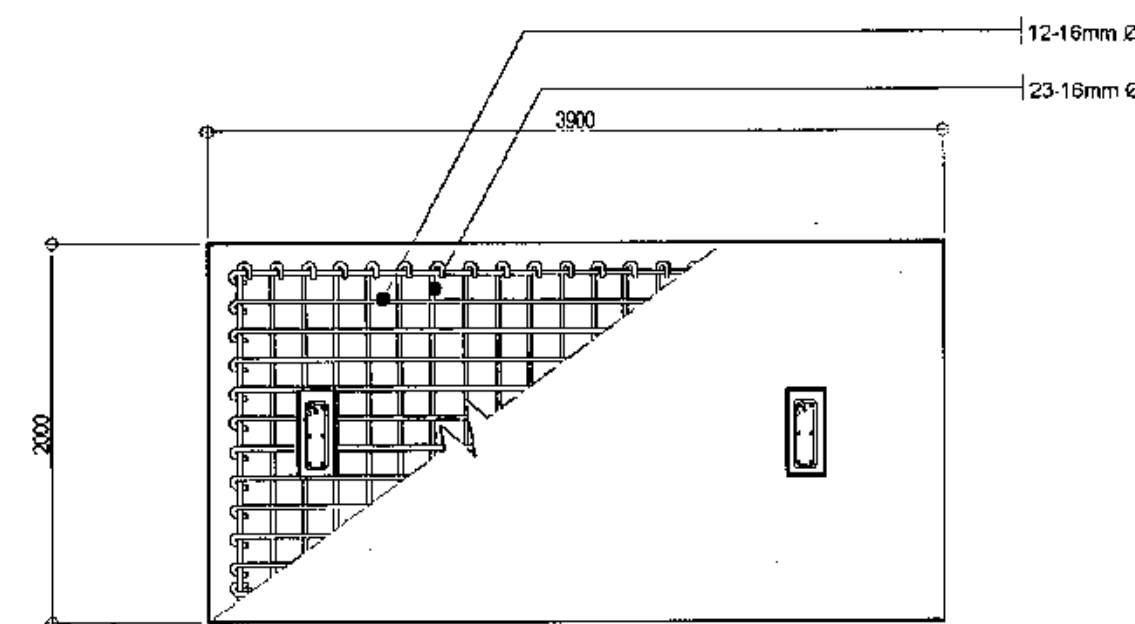
NOT TO SCALE

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**1** DETAIL OF EXISTING COMBINED FOOTING-1

SCALE 1:40  
METERS



**2** DETAIL OF EXISTING COMBINED FOOTING-2

SCALE 1:40  
METERS

MARK	C1	C2	2C1	2C2	3C
FOUNDATION TO 2ND FLOOR					
MAIN REINF.	8-16mm Ø	6-16mm Ø	6-16mm Ø	4-16mm Ø	4-16mm Ø
TIES SPACING	1@100, REST @ 200mm O.C.	1@100, REST @ 200mm O.C.	1@100, REST @ 200mm O.C.	1@100, REST @ 200mm O.C.	1@100, REST @ 200mm O.C.

**3** SCHEDULE OF COLUMNS

NOT TO SCALE



PROVIDO:  
DRAWING AND SPECIFICATIONS DULY  
SIGNED, STAMPED OR SEALED BY  
INSTRUMENTS OF SERVICE ARE THE  
INTELLECTUAL PROPERTY OF THE ARCHITECT  
OR ENGINEER. NO PART OF THIS  
DRAWING OR SPECIFICATIONS SHALL BE  
REPRODUCED OR TRANSMITTED IN ANY  
FORM OR BY ANY MEANS, ELECTRONIC  
OR MECHANICAL, INCLUDING PHOTOCOPYING,  
RECORDING, OR BY ANY INFORMATION  
STORAGE AND RETRIEVAL SYSTEM, WITHOUT  
THE WRITTEN PERMISSION OF THE ARCHITECT  
OR ENGINEER.

RECOMMENDING APPROVAL  
  
Ar. LUCILLE H. CHUA, uap, piep  
CITY ARCHITECT

RECOMMENDING APPROVAL  
  
Engr. ISAGANI R. VERZOSA Jr.  
OIC - CITY ENGINEER

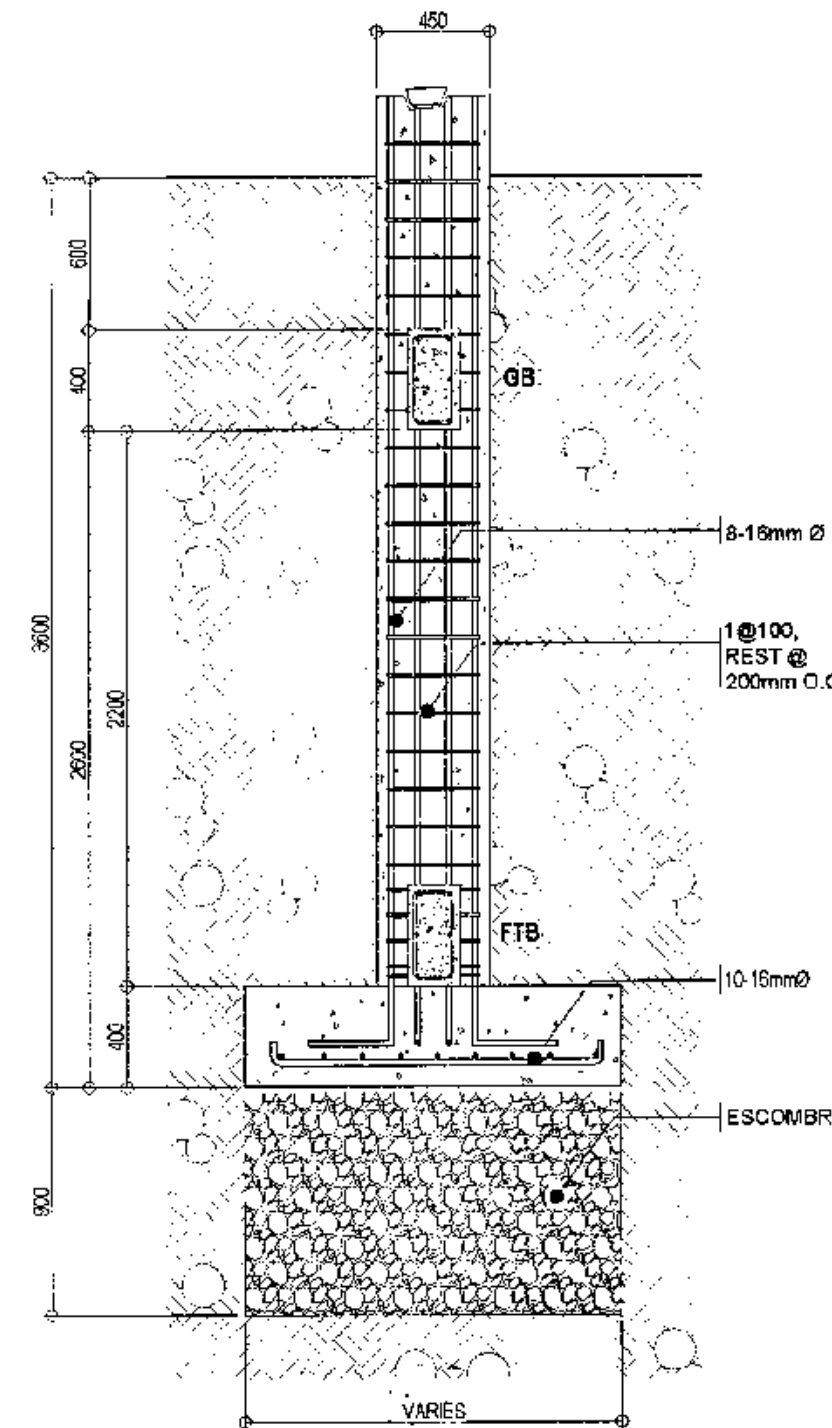
APPROVED BY:  
  
HON. MA. JOSEFINA G. BELMONTE  
SEC. CITY MAYOR

PROJECT TITLE:  
PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG  
LOCATION: BRGY. BAGBAG, QUEZON CITY

SHEET CONTENTS:  
GENERAL NOTES  
COLUMN FOOTING  
DETAIL  
SCHEDULE OF FOOTINGS  
WALL FOOTING DETAIL  
GRADE/FOOTING TIE  
BEAM DETAIL

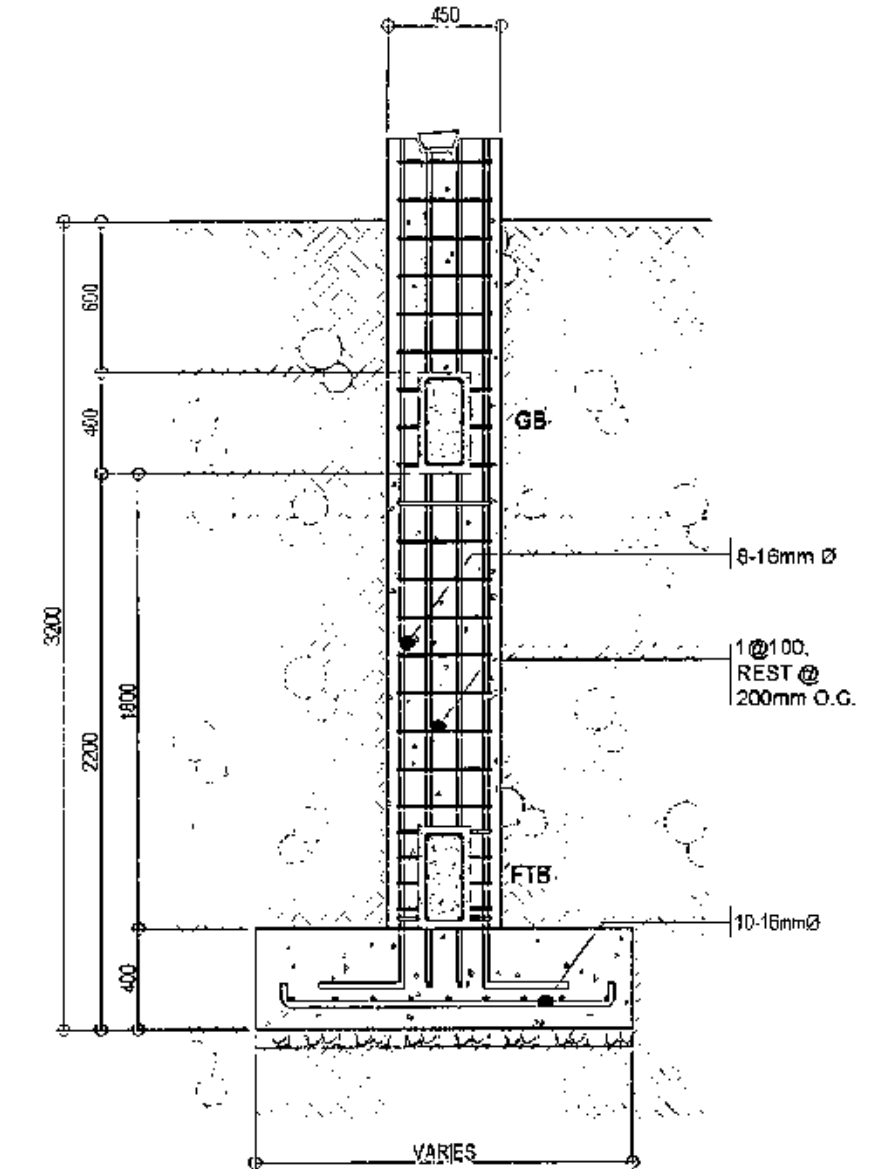
PROJECT NO.:  
DATE: August 2020  
DRAWN BY: Ar. P.N.B.  
DESIGNED BY: Engr. M.E.A.M.  
CHECKED BY: Ar. L.H. CHUA

SHEET NO.:  
**ST-02**



**4** DETAIL OF EXISTING COLUMN FOOTING  
(WITH ESCOMBRO)

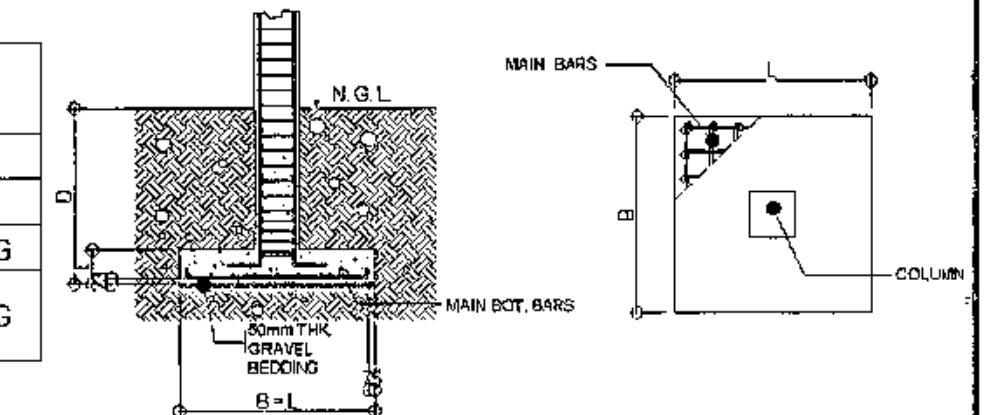
SCALE 1:30  
METERS



**5** DETAIL OF EXISTING COLUMN  
FOOTING (WITHOUT ESCOMBRO)

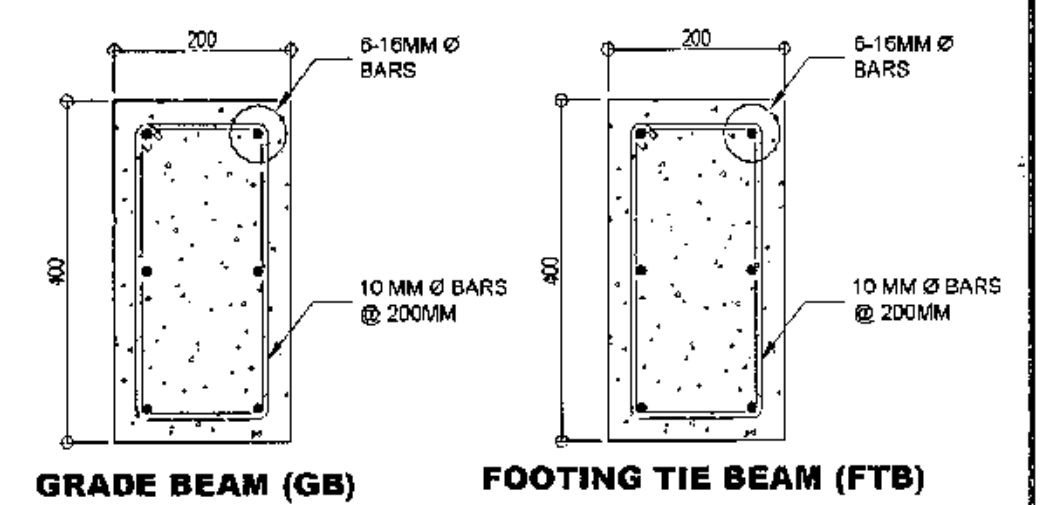
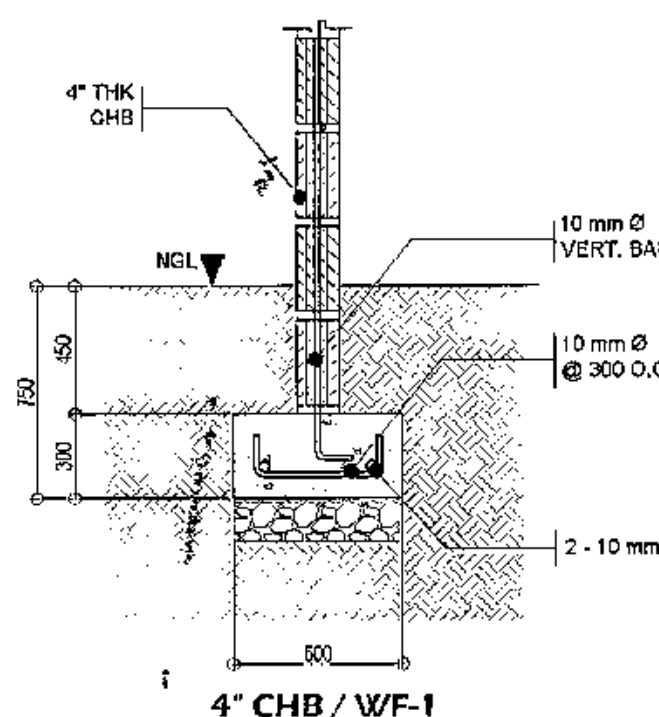
SCALE 1:30  
METERS

MARK	DIMENSION (mm)			REINFORCEMENTS		D	REMARKS
	B	L	t	B	L		
FOOTING ONE (F-1)	2000	2000	400	12 - 16 mm Ø	12 - 16 mm Ø	±3000	SQUARE FOOTING
FOOTING TWO (F-2)	1400	1400	350	10 - 16 mm Ø	10 - 16 mm Ø	±3000	SQUARE FOOTING
COMBINED FOOTING ONE (CF1)	2000	4800	400	12 - 16 mm Ø	26 - 16 mm Ø	±3000	COMBINED FOOTING
COMBINED FOOTING TWO (CF2) (CF2-1, CF2-2, CF2-3)	2000	3900	400	12 - 16 mm Ø	23 - 16 mm Ø	±3000	COMBINED FOOTING



**6** SCHEDULE OF EXISTING FOOTINGS

NOT TO SCALE



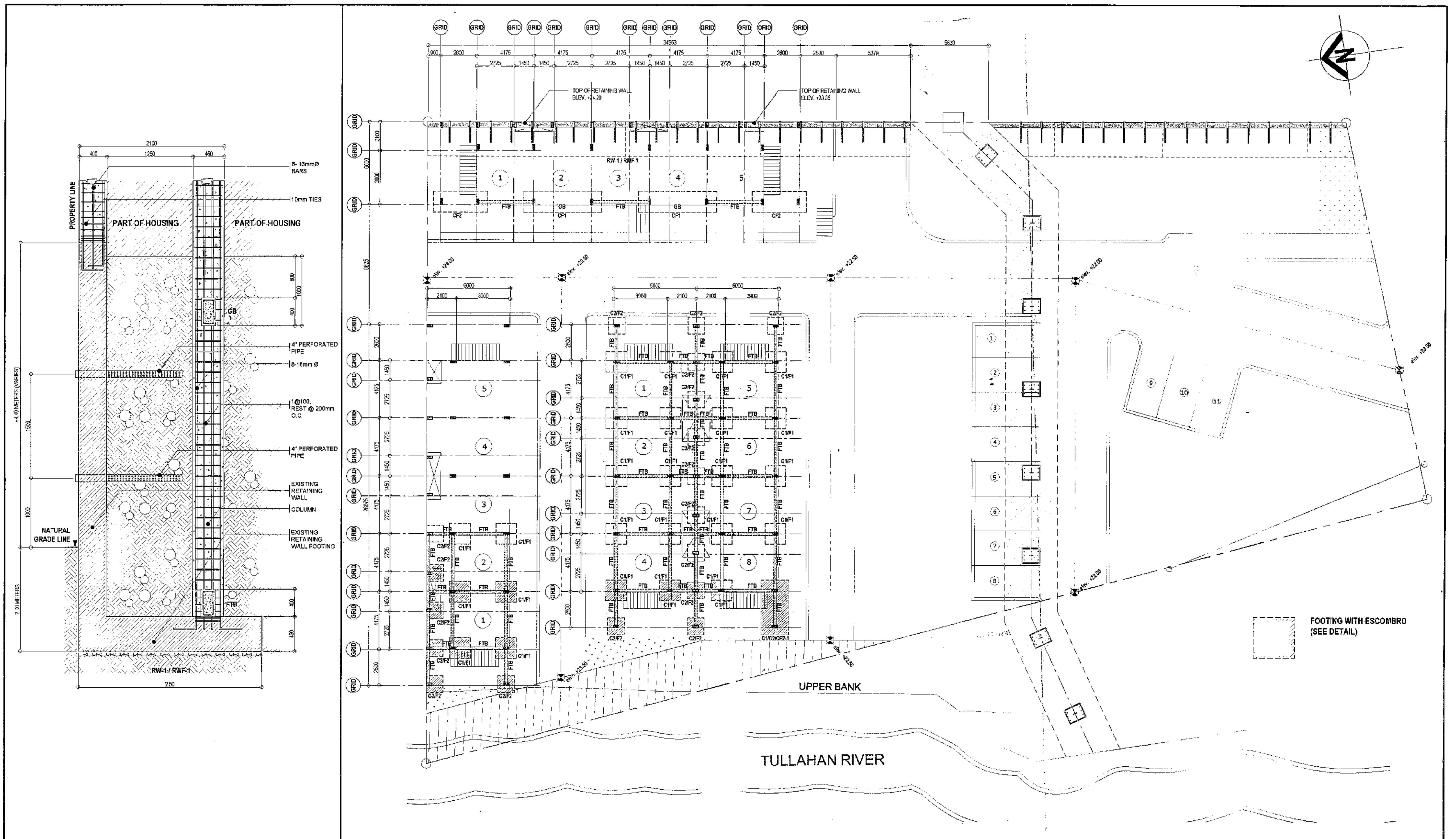
**7** DETAIL OF EXISTING WALL FOOTINGS

NOT TO  
SCALE

**8** GRADE BEAM/FOOTING  
TIE BEAM DETAIL

NOT TO  
SCALE






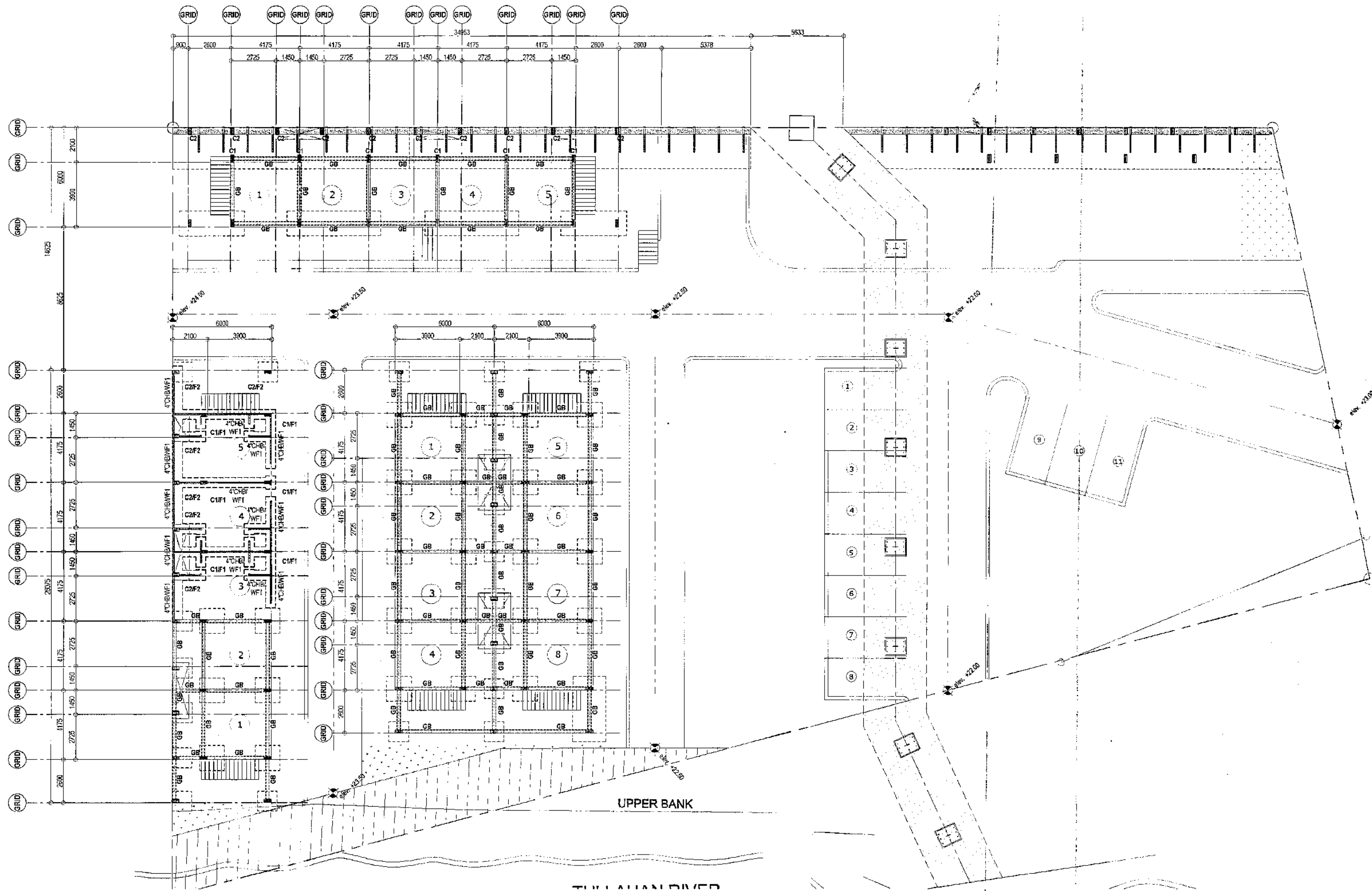
**1** EXISTING COLUMN @ RETAINING WALL DETAIL  
SCALE 1:30 METERS

**2** PLAN OF EXISTING FOUNDATION (FOOTING & FOOTING TIE BEAM)

SCALE 1: 150 METERS






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						<p>DATE</p> <p>August 2020</p>	<p><b>ST-03</b></p>
						<p>DRAWN BY</p> <p>Ar. P.N.B.</p> <p>DESIGNED BY</p> <p>Engr. M.E.A.M.</p> <p>CHECKED BY</p> <p>Ar. L.H. CHUA</p>	

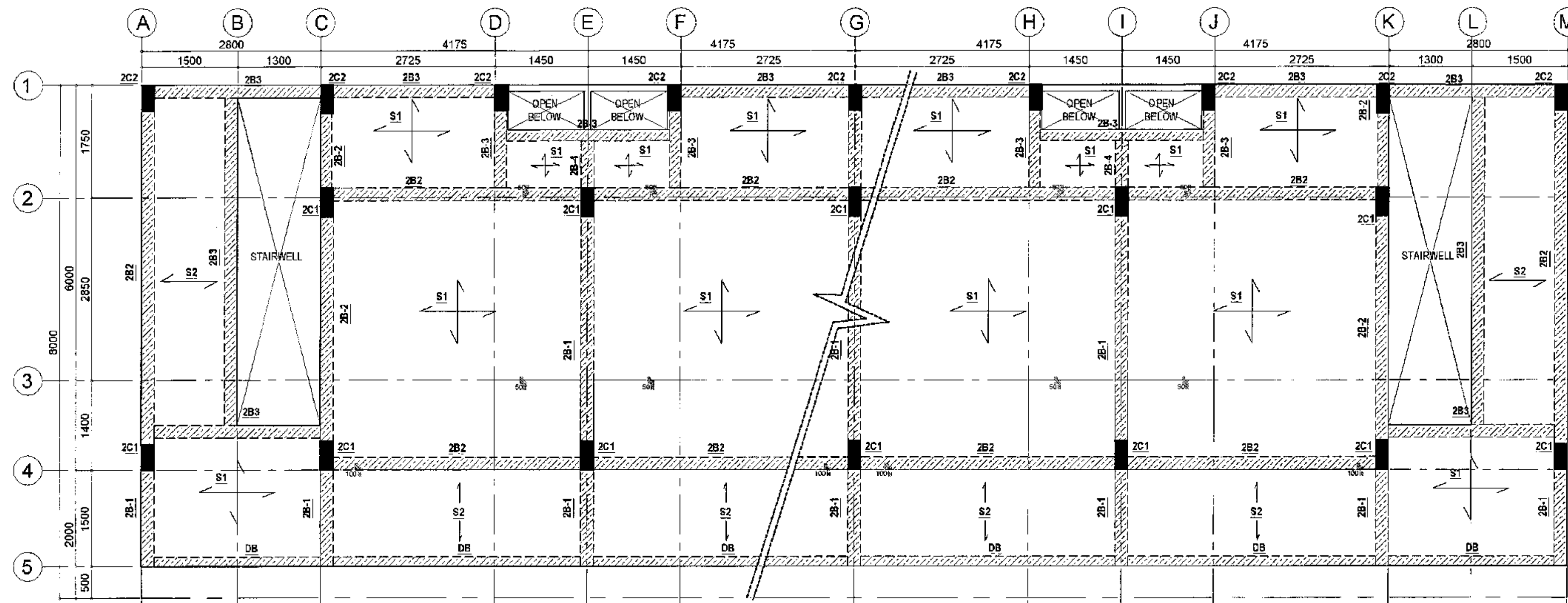




1 PLAN OF EXISTING FOUNDATION (GRADE BEAM)

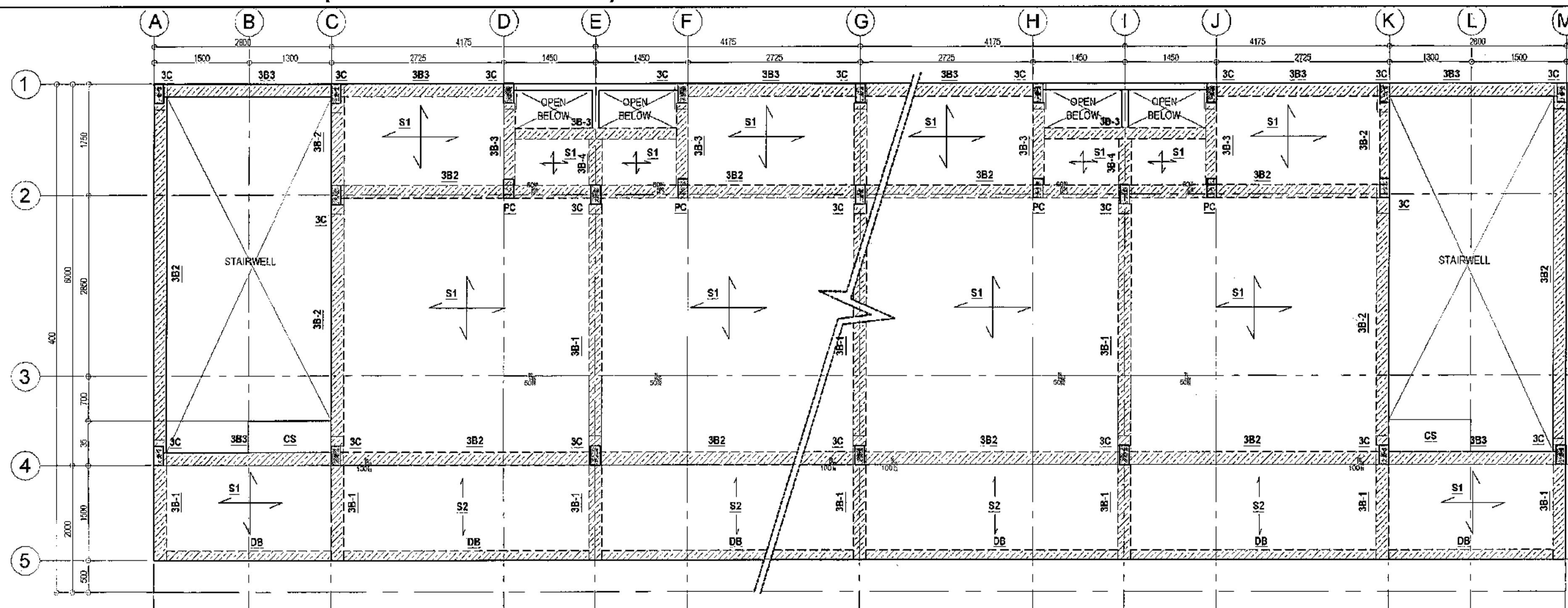
SCALE 1 : 150 METERS

 Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 9F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY	 <b>PROVISO:</b> DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED BY INSTRUMENTS OF SERVICE AND THE INTELLIGENT PROPERTIES AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXISTING OR NOT, IT SHALL BE CONSIDERED AS A PROFESSIONAL ACT AND THE CITY ARCHITECT DEPARTMENT SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING AND SPECIFICATIONS FOR SUCH PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.	<b>RECOMMENDING APPROVAL</b>   <b>Ar. LUCILE H. CHUA, uap, piep</b> CITY ARCHITECT		<b>APPROVED BY:</b>   <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER	<b>APPROVED BY:</b>   <b>HON. MA. JOSEFINA C. BELMONTE</b> GEORGES CITY MAYOR	<b>PROJECT TITLE:</b>  <b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b>  <b>LOCATION:</b> BRGY. BAGBAG, QUEZON CITY	<b>SHEET CONTENTS:</b>  FOUNDATION PLAN (GRADE BEAM) TYPICAL DETAIL OF ADDITIONAL STAIRS	<b>PROJECT NO.:</b> <table><tr><td>DATE</td><td>August 2020</td></tr><tr><td>DRAWN BY</td><td>Ar. P.N.B.</td></tr><tr><td>DESIGNED BY</td><td>Engr. M.E.A.M.</td></tr><tr><td>CHECKED BY</td><td>Ar. L.H. CHUA</td></tr></table>	DATE	August 2020	DRAWN BY	Ar. P.N.B.	DESIGNED BY	Engr. M.E.A.M.	CHECKED BY	Ar. L.H. CHUA	<b>SHEET NO.:</b>  <b>ST-04</b>
		DATE	August 2020														
		DRAWN BY	Ar. P.N.B.														
DESIGNED BY	Engr. M.E.A.M.																
CHECKED BY	Ar. L.H. CHUA																




1 TYPICAL SECOND FLOOR FRAMING PLAN (PERIMETER HOUSING)

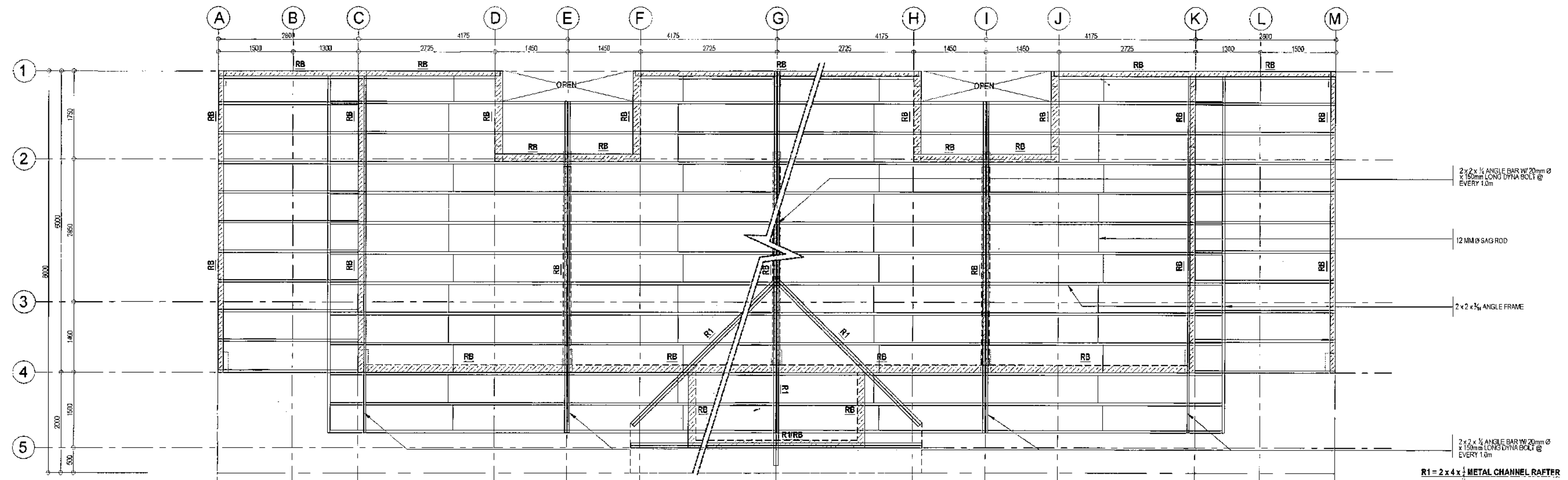
SCALE 1:50 METERS



2 TYPICAL THIRD FLOOR FRAMING PLAN (PERIMETER HOUSING)

SCALE 1:50 METERS

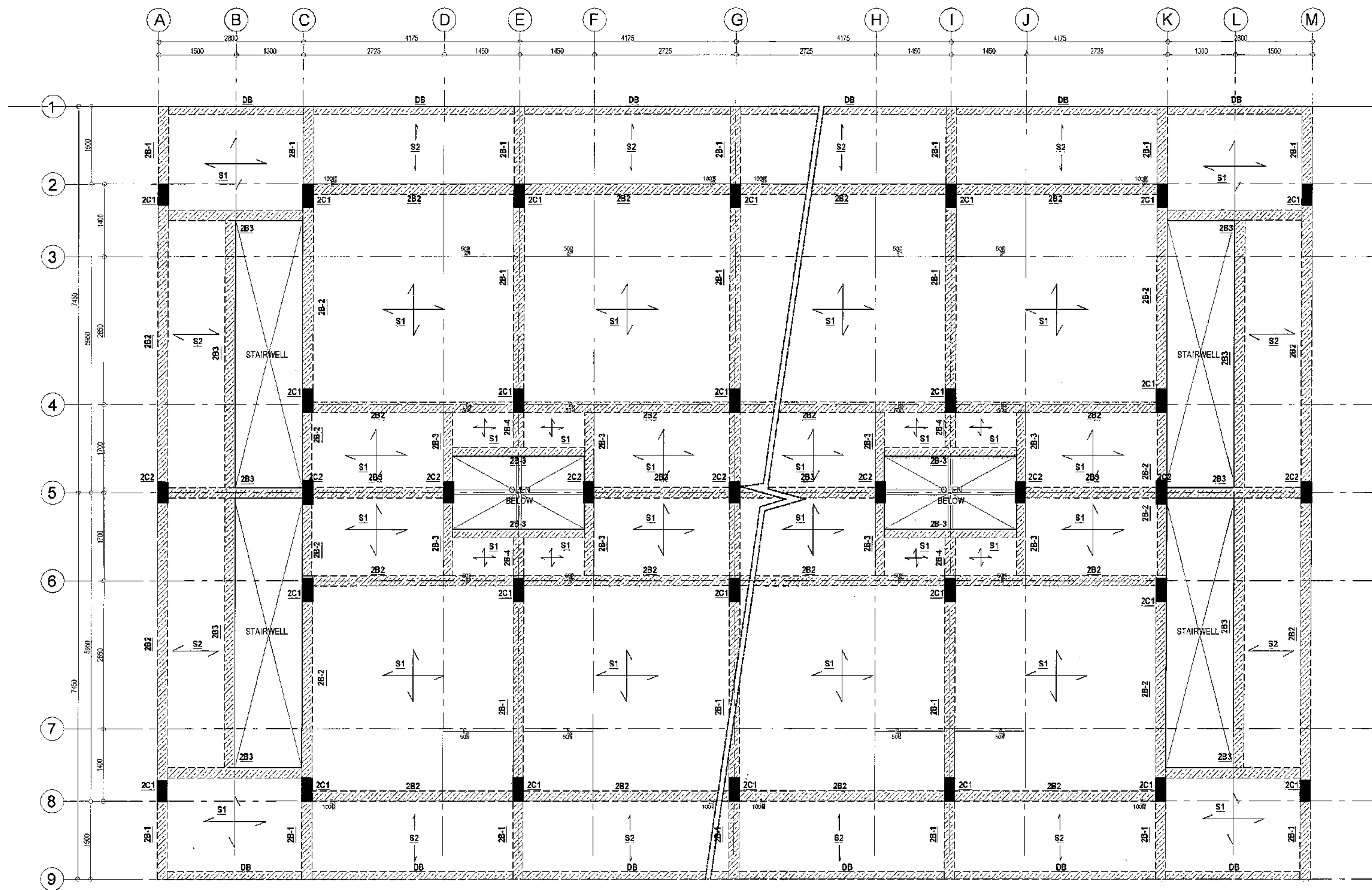
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - Q (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE CLIENT FOR WHICH THEY ARE MADE OR OTHERWISE, NO PART SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE ARCHITECT, TO MAKE COPIES OF THIS DOCUMENT FOR USE IN THE PREPARATION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER SUCH PARTS ARE IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p>Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>FOUNDATION PLAN SECOND FLOOR FRAMING PLAN</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. M.S.M. CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>ST-05</b></p>



# 1 TYPICAL ROOF FRAMING PLAN (PERIMETER HOUSING)

SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (Bldg. 800), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DULAMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHICHEVER THE QUALITY FOR WHICH THEY ARE MADE IS DEEMED TO BE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE CITY ARCHITECT DEPARTMENT. THIS DOCUMENT IS THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT AND SHALL BE RETURNED TO THE OFFICE OF THE CITY ARCHITECT DEPARTMENT UPON COMPLETION OF THE PROJECT OR UPON REQUEST OF THE CITY ARCHITECT DEPARTMENT.</p>	<p>RECOMMENDING APPROVAL</p>		<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p>	<p>SHEET CONTENTS:</p>	<p>PROJECT NO.:</p>	<p>SHEET NO.:</p>	
		<p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>		<p>Engr. ISAGANI R. VERZOSA Jr. DIC - CITY ENGINEER</p>	<p>HON. MA. JOSEFINA G. BELMONTE CITY MAYOR</p>	<p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p>	<p>THIRD FLOOR FRAMING PLAN ROOF FRAMING PLAN</p>	<p>DATE: September 2020</p>	<p>ST-06</p>
		<p>Ar. LUCILLE H. CHUA, uap, piep</p>		<p>Engr. ISAGANI R. VERZOSA Jr.</p>	<p>HON. MA. JOSEFINA G. BELMONTE</p>	<p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>DRAWN BY: Ar. P.N.E.</p>	<p>DESIGNED BY: Engr. M.E.A.</p>	<p>CHECKED BY: Ar. L.H. CHUA</p>

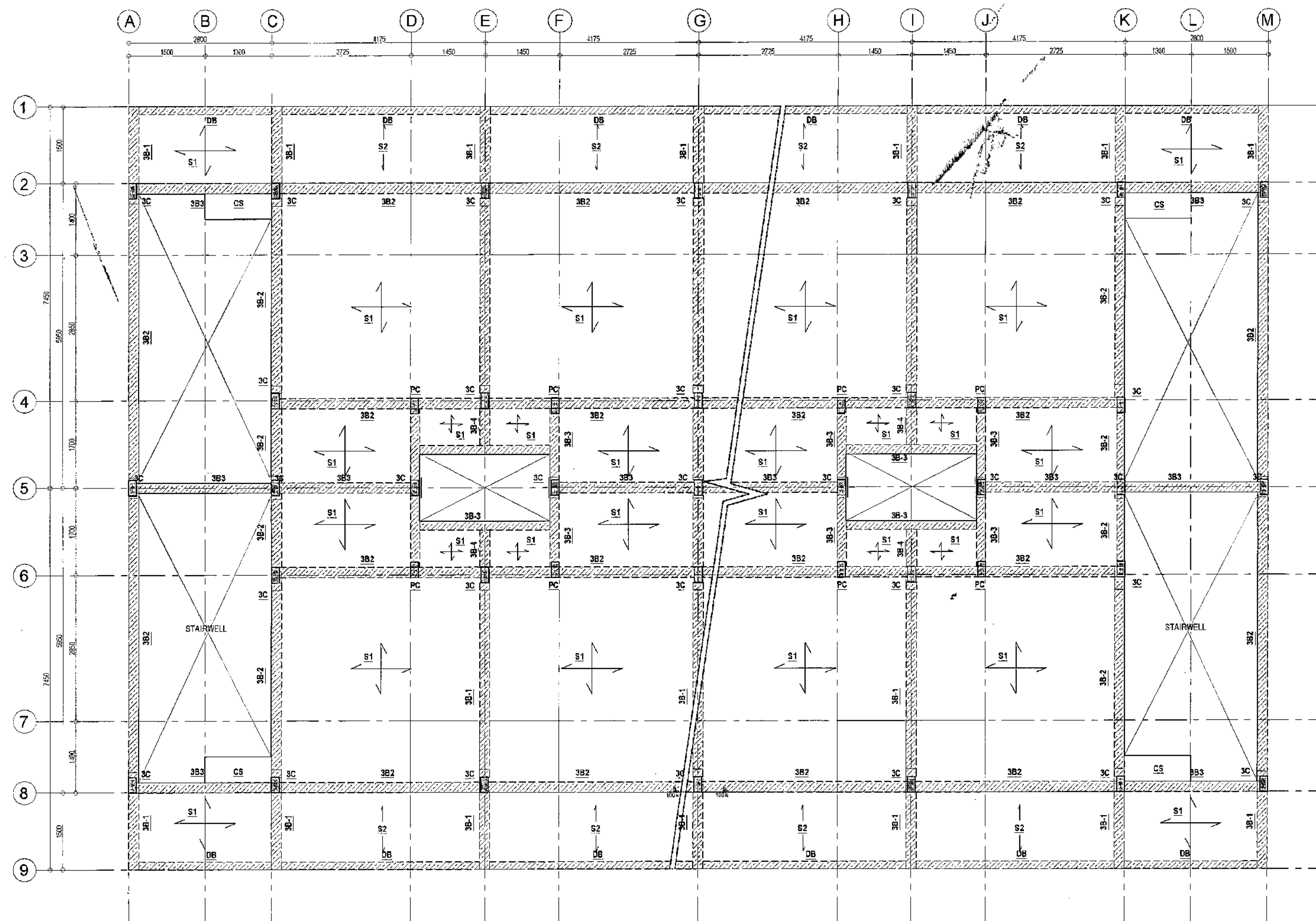


**1 TYPICAL SECOND FLOOR FRAMING PLAN (BACK TO BACK HOUSING)**

SCALE 1:50 METERS


<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (Bldg. 80), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROV/ISO:</p> <p>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE PROPRIETARY RIGHTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE CLIENT FOR WHOM THEY ARE USED IS SECURED 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 REGISTRATION OF LAND OR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE P. CHUA, uap, piep</b> CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>SECOND FLOOR FRAMING PLAN (BACK TO BACK HOUSING)</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020</p> <p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Engr. M.E.A.M.</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>ST-07</b></p>
	<p>1</p>						

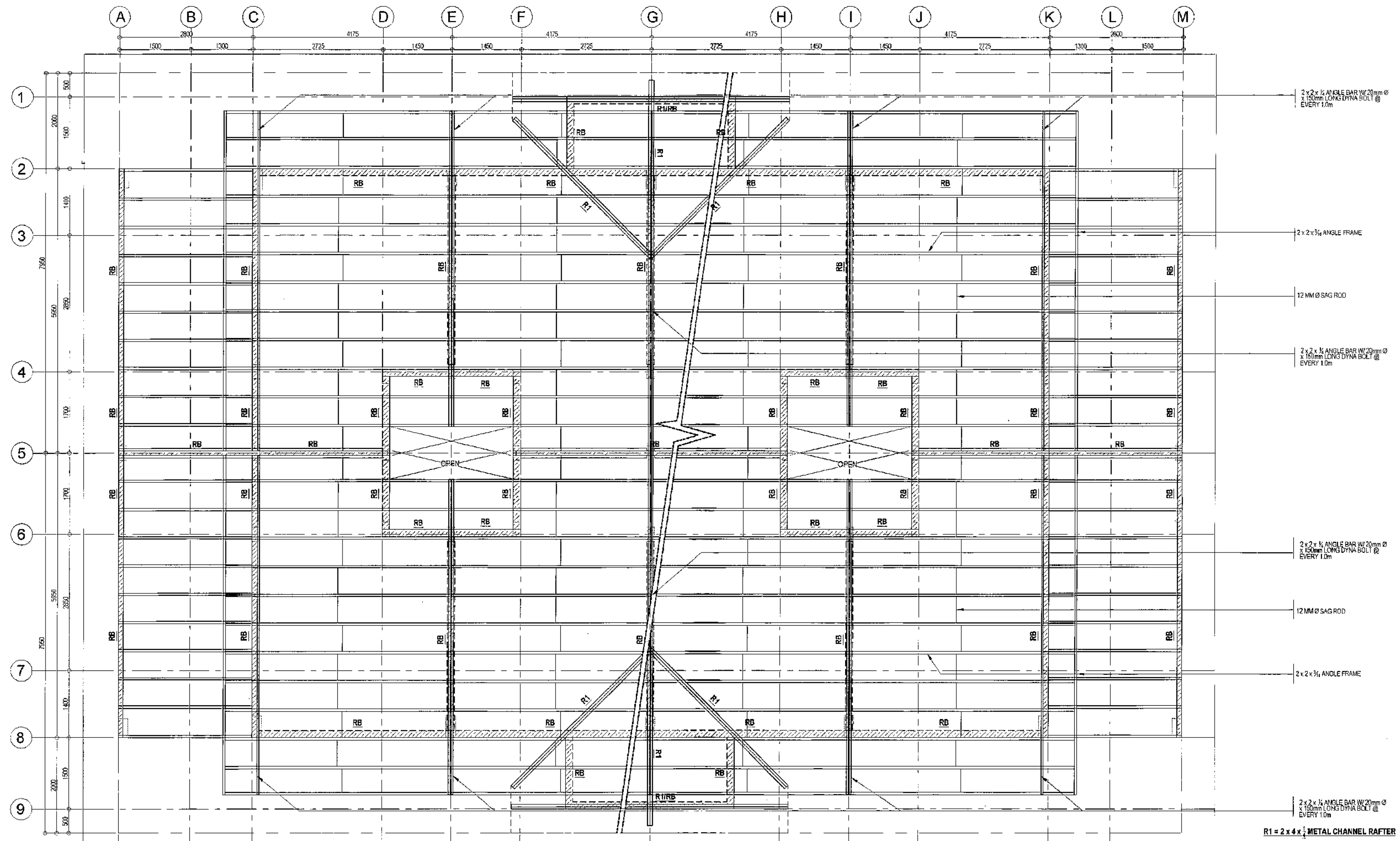




# 1 TYPICAL THIRD FLOOR FRAMING PLAN (BACK TO BACK HOUSING)

SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 3F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPITICAL ROAD, DIL MARI, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHEN IN THE CUSTODY OF ANY PERSON, WITHOUT THE CONSENT OF THE DIVISION OF LAND DOCUMENTS TO SUPPLEMENT OR TO MAKE COPIES OF AND DOCUMENTS FOR OTHER PROJECTS OR PURPOSES, WHETHER EXERCISED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>THIRD FLOOR FRAMING PLAN (BACK TO BACK HOUSING)</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. M.E.A.M. CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>ST-08</b></p>
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# 1 TYPICAL ROOF FRAMING PLAN (BACK TO BACK HOUSING)

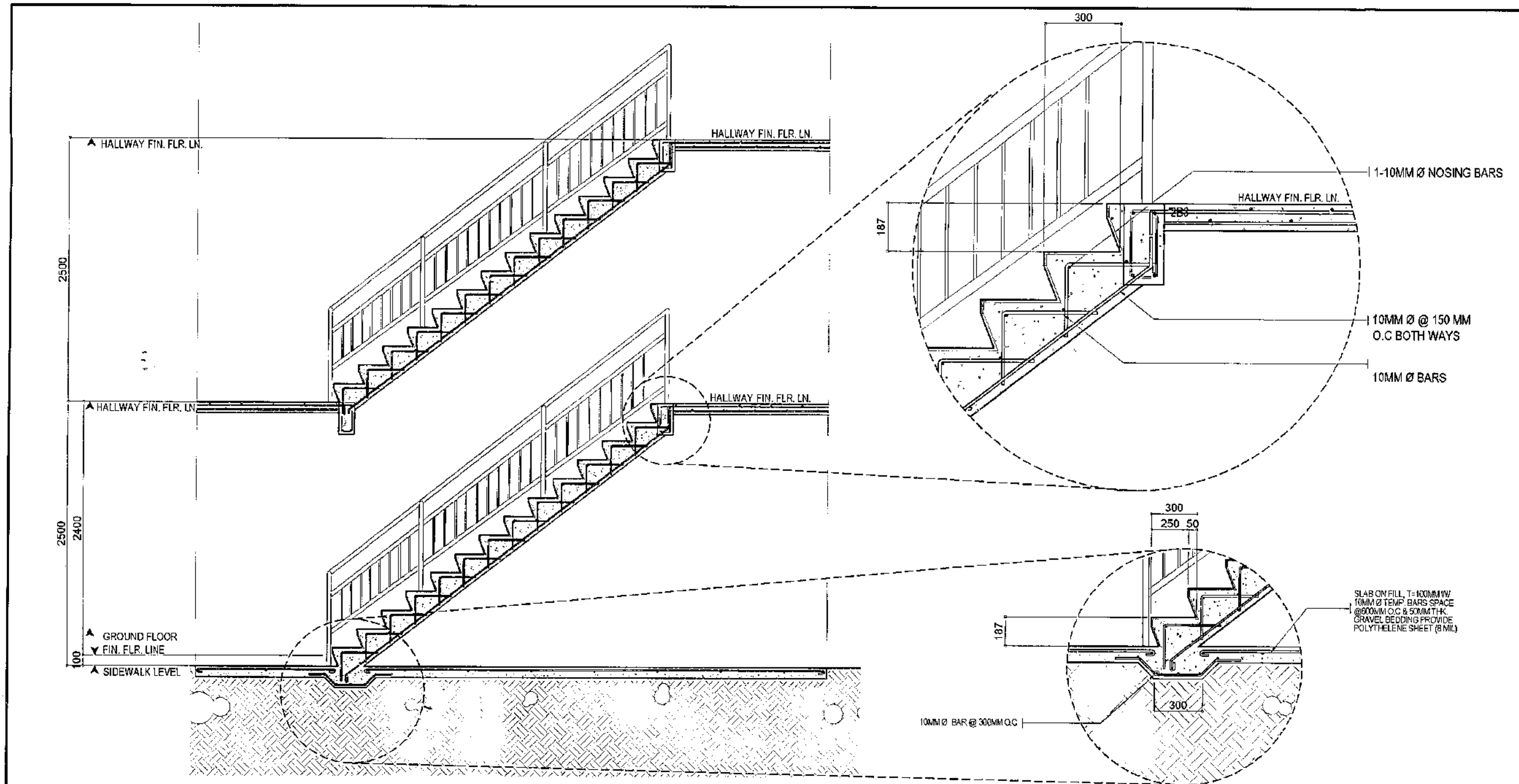
SCALE 1:50 METERS

PROVISO:	RECOMMENDING APPROVAL	APPROVED BY:	PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:
<p>DRAWING AND SPECIFICATIONS SHALL BE SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTIES A DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE USED IS EXISTING OR NOT, IF ONLY 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 INVESTIGATION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p> <p>Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>HON. MA. JOSEFINA S. BELMONTE CITY MAYOR</p>	<p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>ROOF FRAMING PLAN (BACK TO BACK HOUSING)</p>	<p>DATE: September 2020</p> <p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Engr. M.E.M.</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	<p>ST-09</p>

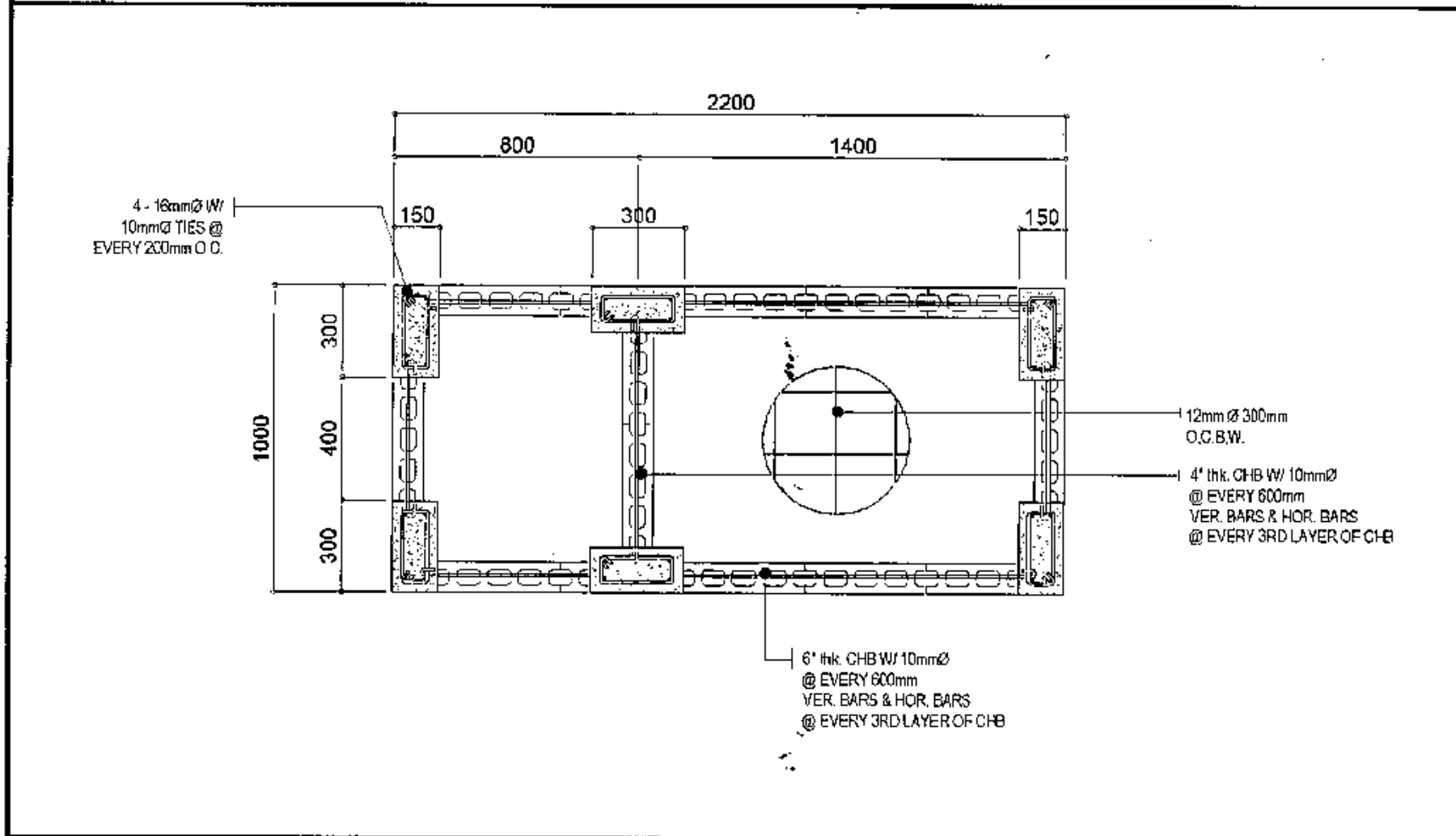


Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ARCHITECT DEPARTMENT**  
SE CIVIC CENTER - 0 (BRO. Bldg.) QUEZON CITY HALL COMPOUND,  
ELLIPTICAL ROAD, TULMAN, QUEZON CITY

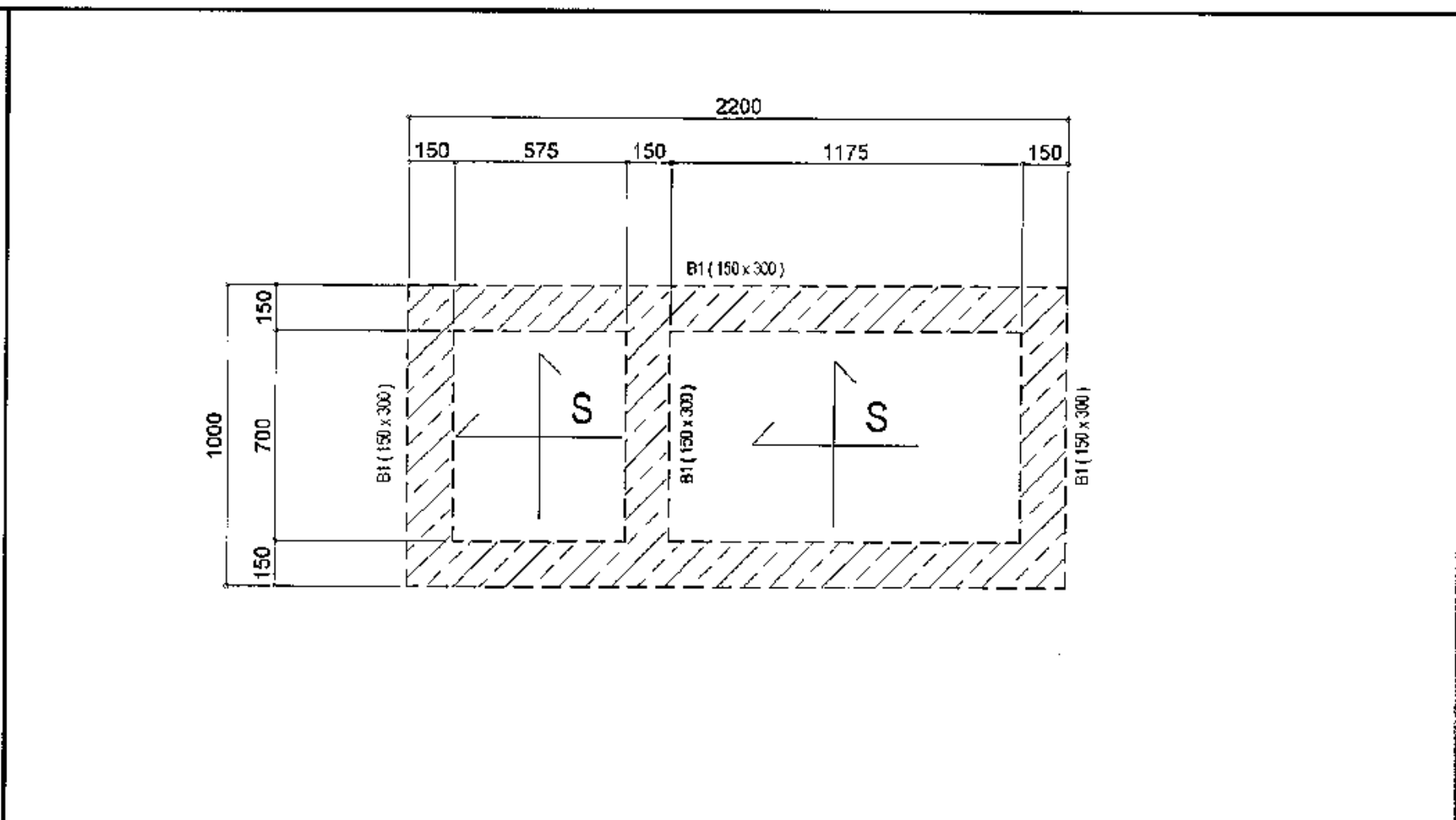




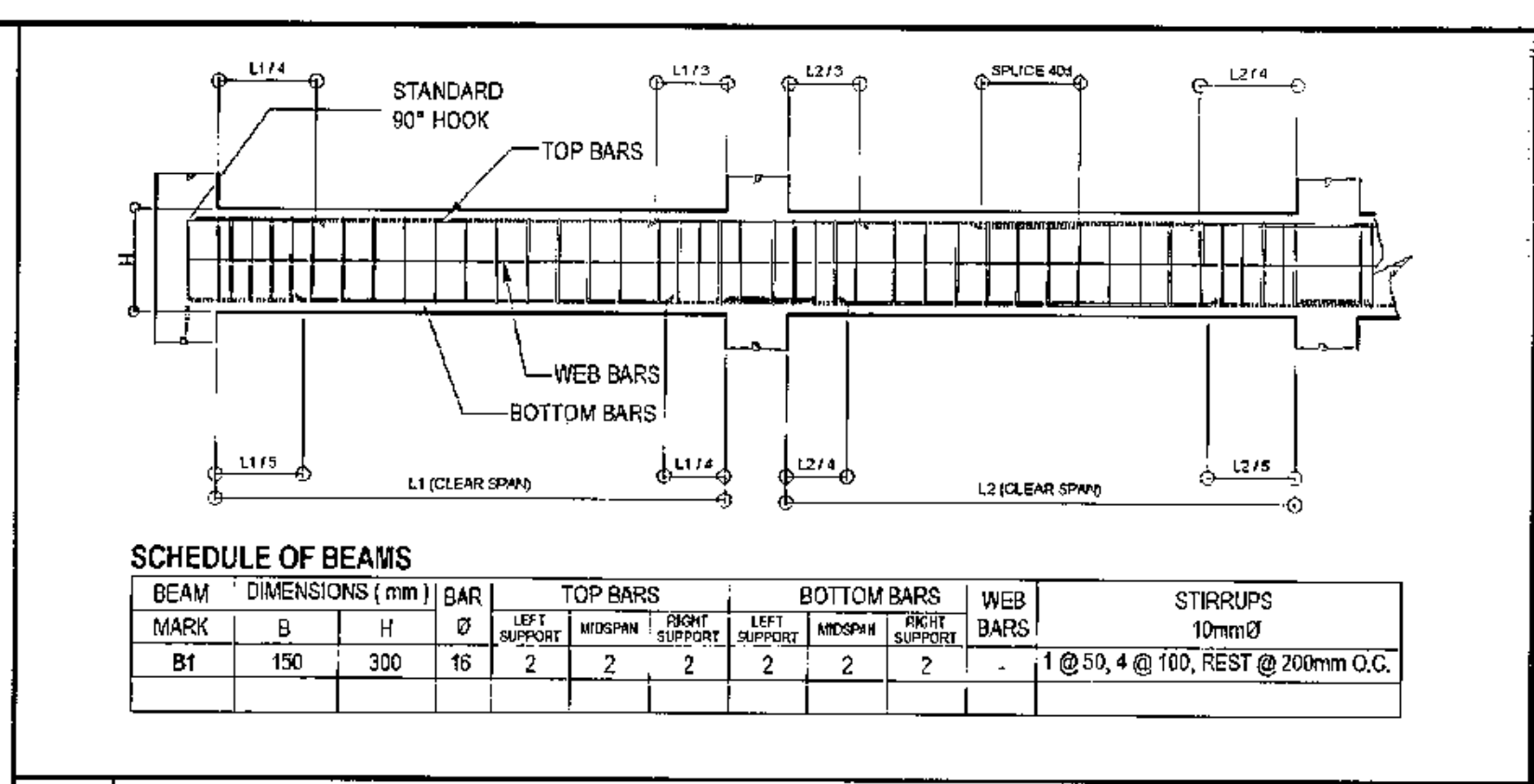
**1 TYPICAL STAIR STRUCTURAL DETAIL** SCALE 1:50 METERS



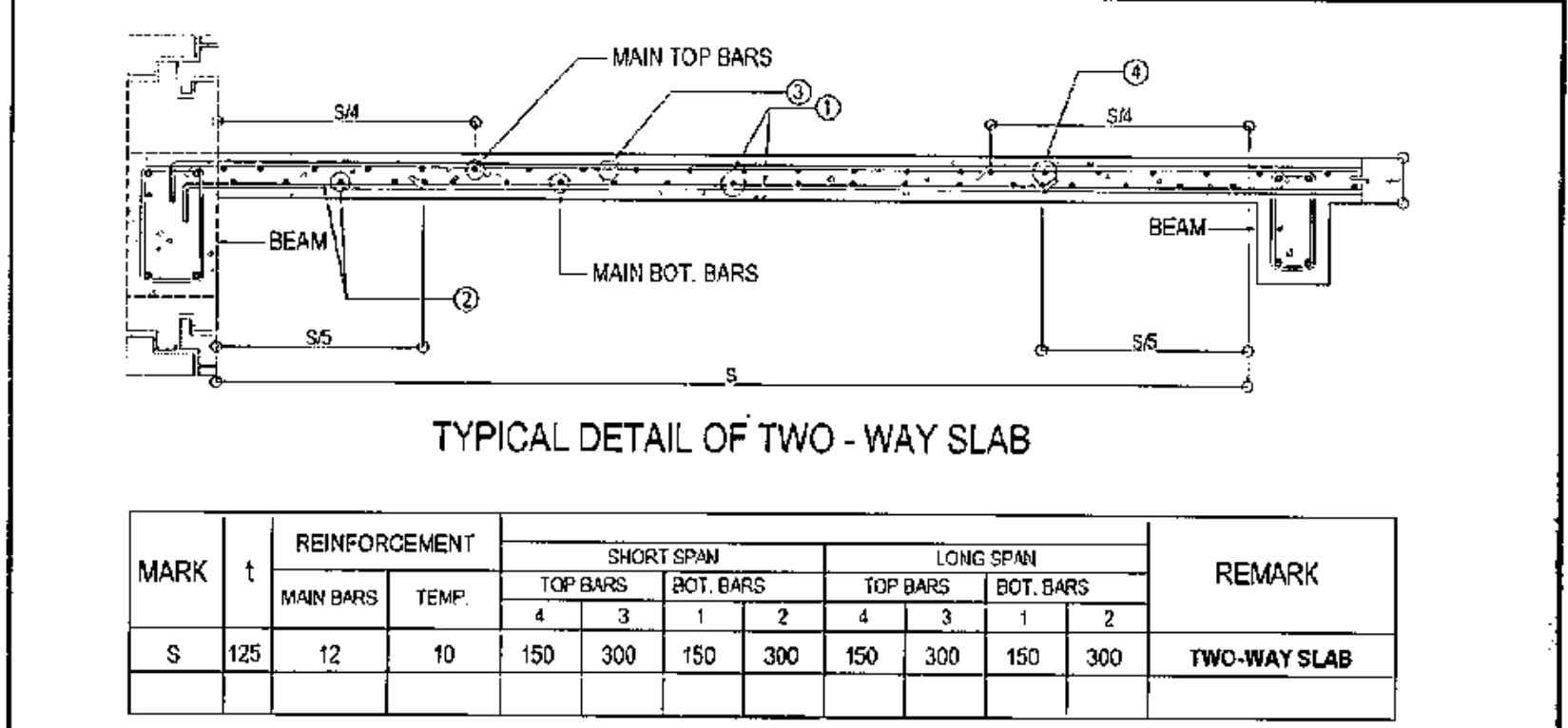
**2 SEPTIC TANK FOUNDATION PLAN** SCALE 1:20 METERS



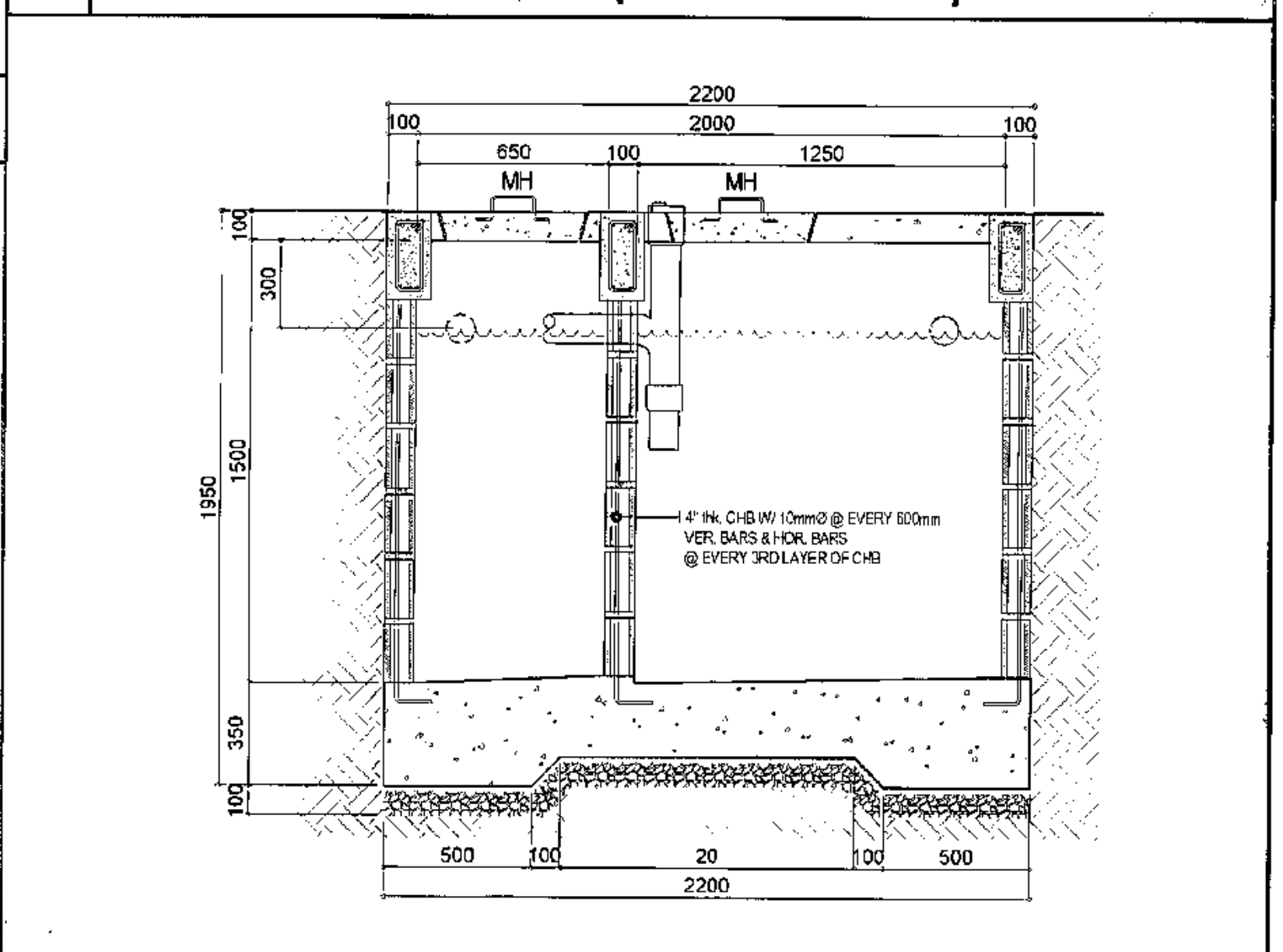
**3 SEPTIC TANK FRAMING PLAN** SCALE 1:20 METERS



**4 DETAIL OF SLAB ( SEPTIC TANK )** NOT TO SCALE



**5 SCHEDULE OF BEAM ( SEPTIC TANK )** NOT TO SCALE



**6 SEPTIC TANK SECTION** SCALE 1:20 METERS



- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF PHILIPPINE ELECTRICAL CODE (PEC), 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 REGISTERED ELECTRICAL ENGINEER.
- THE SERVICE ENTRANCE SHALL BE 220 VOLTS, SINGLE Ø, 3-WIRES, 60 HTZ. IN RIGID STEEL CONDUIT (RSC).
- THE MAIN AND BRANCH CONDUIT OVER CURRENT PROTECTION SHALL BE OF AIR CIRCUIT BREAKER TYPE "GE", "WESTINGHOUSE", OR APPROVED EQUAL ENCLOSED IN A METAL CABINET.
- UNLESS SPECIFIED IN THE PLAN, MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 2.0mm<sup>2</sup> & 20mm Ø (1/2Ø) RESPECTIVELY. ALL WIRES SHALL BE RATED 600 VOLTS WITH THHN/ THW INSULATION.
- ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
- CONVENIENCE OUTLET AND LIGHTING SWITCHES SHALL BE RATED AT 15A, 220V AS MANUFACTURED BY "NATIONAL" APPROVED EQUAL.
- ALL MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:
  - LIGHTING SWITCHES - 1.40m ABOVE FLOOR FINISH
  - CONVENIENCE OUTLETS - 0.30m ABOVE FLOOR FINISH OR AS REQUIRED
  - PANELBOARDS & CABINETS - 1.40m ABOVE FLOOR FINISH @ CENTER
  - EXIT LIGHT - .15m TOP OF DOOR JAMB
  - EMERGENCY LIGHT - 2.00m ABOVE FLOOR EMERGENCY
- ALL BRANCHES AND CIRCUIT SHALL NOT BE LOADED MORE THAN 80% OF RATED CAPACITY.
- PULL BOXES SHALL BE PROVIDED WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON PLANS.

## MAIN CIRCUIT BREAKER & SIZE OF WIRES & CONDUITS

METER CENTER NO.	NO. OF UNITS / METERING WALL	SIZE OF METERING WALL W/ ENTRANCE COLUMNS (METERS)				
		ENTRANCE COLUMN (W)	(L)	(H)	ECB MAIN	SIZE OF WIRE & CONDUIT
1 & 3	15 units @ meter center 1 & 3	0.40 X 0.30 X 4.5	5.70	2.20	500 AT 2P 42 KAIC MCCB	2 x 125
2	24 units @ meter center 2	0.40 X 0.30 X 4.5	6.60	2.20	700 AT 2P 42 KAIC MCCB	2 x 300

0.40 X 0.30 X 4.5

## LIGHTING AND POWER LAYOUT "LPP"

### LPP 1 TO 20 TYPICAL

CKT. NO.	VOLTS	OUTLETS		OTHER LOAD SERVE	LOAD AMPHRE	VOLT AMPHRE	CIRCUIT BREAKER	SIZE OF WIRES & CONDUIT
		LO	CO					
1	220	7			3.18	700	20AT 2P C.B	2-3.5 MM <sup>2</sup> THW WIRE IN 20 MM Ø PVC PIPE
2			7		5.73	1260		2-3.5 MM <sup>2</sup> THHN WIRE & 1-20 MM Ø IN 20 MM Ø PVC PIPE
3				1 HP ACU	8.00	1760	20AT 2P C.B	
4				TOTAL	16.91	3720		

$$I_T = 16.91 + (8 \times 0.25) = 18.91 \text{ AMPS.}$$

### MAIN CIRCUIT BREAKER

USE: 30 AT 2P C.B 10 KAIC @ 240V

### FEEDER LINE

USE: 2 - 5.5 MM<sup>2</sup> THW COPPER WIRE AND 1 - 5.5 MM<sup>2</sup> THW GROUND WIRE IN 25 MM Ø PVC / x 5.5

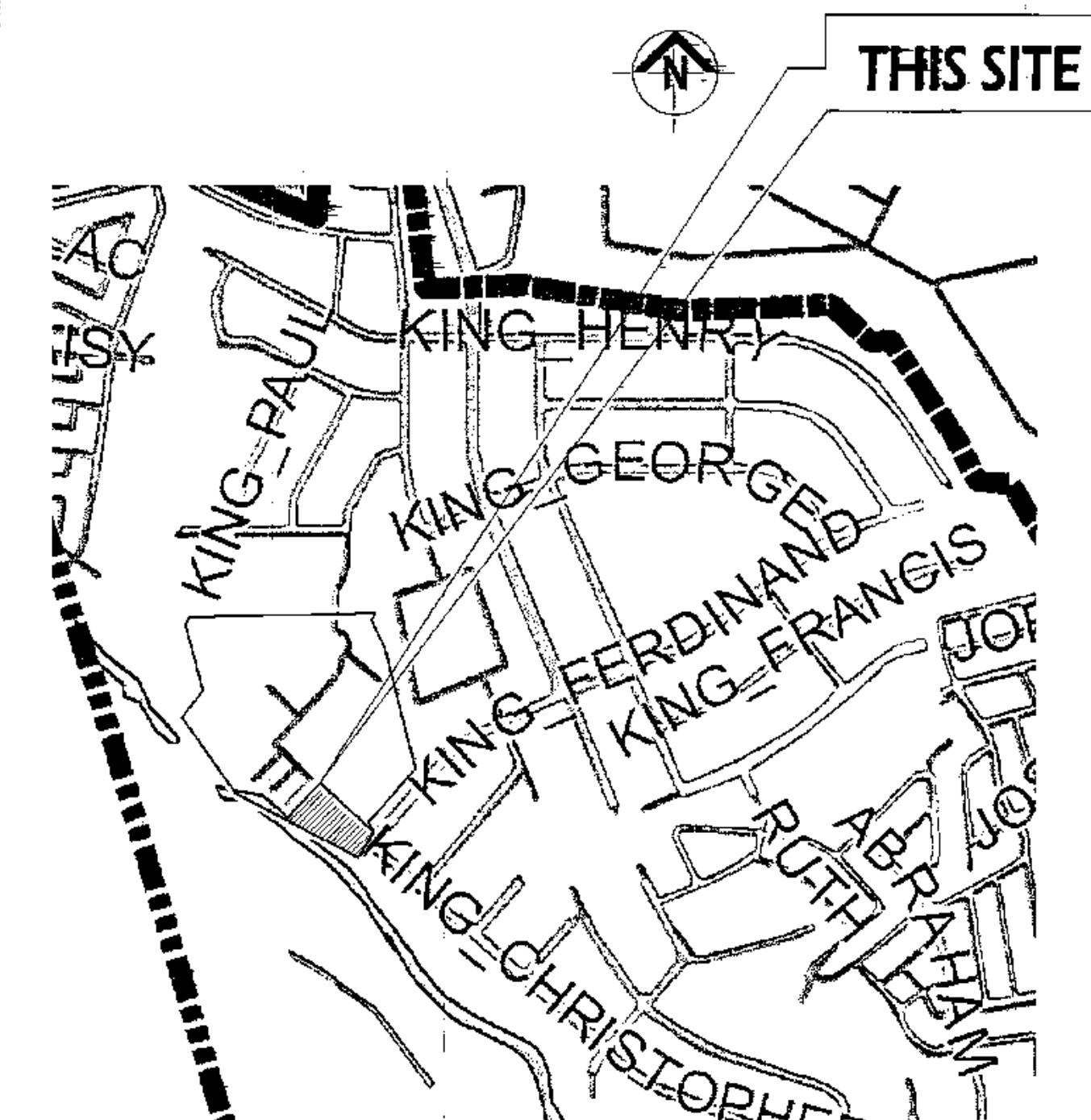
### A. SERVICE ENTRANCE CONDUCTOR COMPUTATION & MAIN CIRCUIT BREAKER COMPUTATION

METER CENTER 1 & 2  
15 UNITS x 18.91AMPS/UNIT = 283.65 AMPERES  
APPLYING 70% D.F.  
283.65 AMPS X .70 D.F. = 198.55 AMPERES  
MAIN CIRCUIT BREAKER IN NEMA 3R ENCLOSURE W/ METAL DEADFRONT  
USE: 200 AT 2P 35 KAIC @ 240 V MCCB  
SERVICE ENTRANCE CONDUCTOR  
USE: TWO SETS OF 2-125MM<sup>2</sup> THHN COPPER WIRE & 1-50MM<sup>2</sup> THW GROUND WIRE IN 65MM Ø RSC/ 2 X 125

### B. SERVICE ENTRANCE CONDUCTOR COMPUTATION & MAIN CIRCUIT BREAKER COMPUTATION

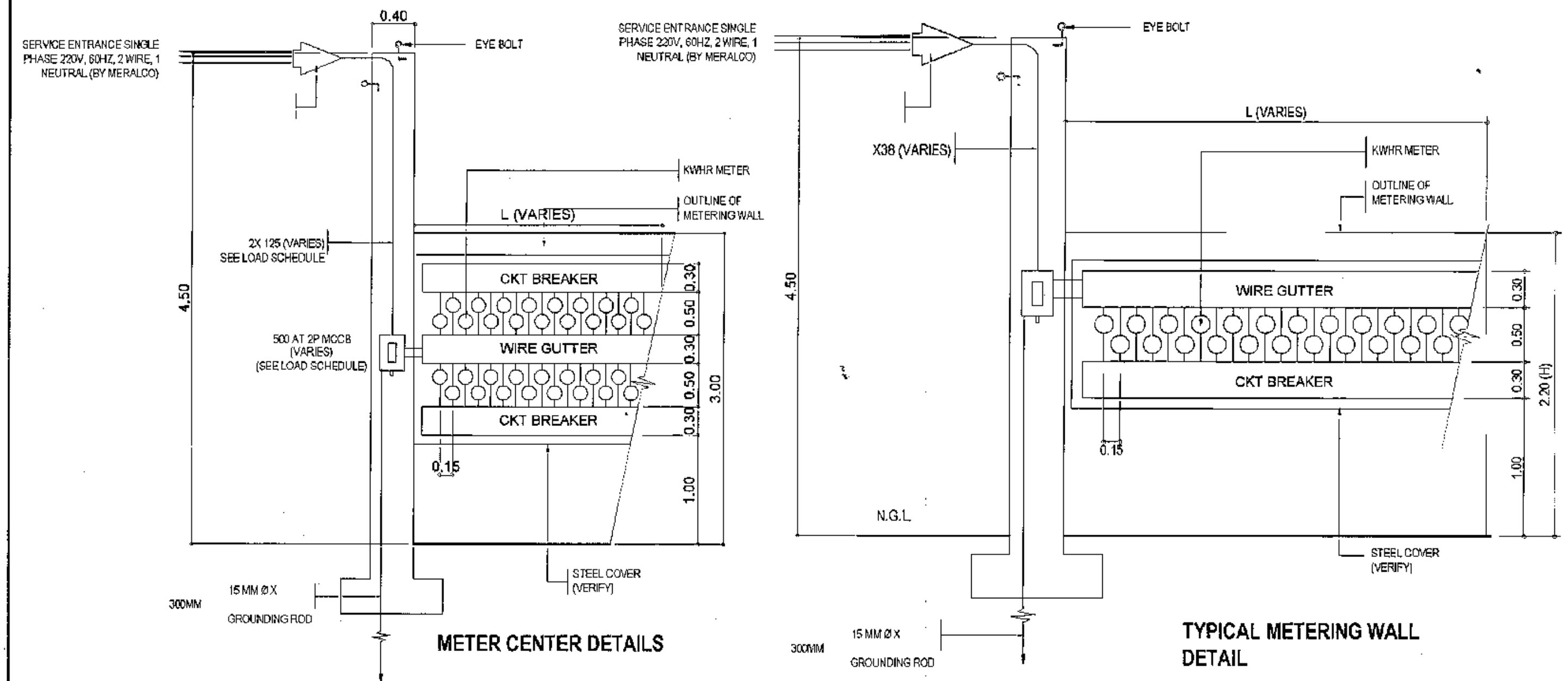
METER CENTER 2  
24 UNITS x 18.91AMPS/UNIT = 453.84 AMPERES  
APPLYING 70% D.F.  
453.84 AMPS X .70 D.F. = 317.69 AMPERES  
MAIN CIRCUIT BREAKER IN NEMA 3R ENCLOSURE W/ METAL DEADFRONT  
USE: 400 AT 2P 42 KAIC @ 240 V MCCB  
SERVICE ENTRANCE CONDUCTOR  
USE: 2-250MM<sup>2</sup> THHN COPPER WIRE & 1-60MM<sup>2</sup> THW GROUND WIRE IN 90MM Ø RSC/ x 250

## 1 GENERAL NOTES



## 3 LOAD SCHEDULE

- Lpp - LIGHTING AND POWER PANEL
- S - SINGLE POLE SWITCH
- S2 - TWO-GANG SWITCH (2 SINGLE IN 1 SWITCH PLATES)
- S3w - THREE-WAY SWITCH
- Ø - DUPLEX CONVENIENCE OUTLET W/ GROUND
- - CIRCUIT RUN
- LPP - CIRCUIT HOMERUN TO PANELBOARD
- ⊗ - 4Ø RECEPTACLE W/ 1x9W CFL
- - CIRCUIT RUN
- WP - DUPLEX CONVENIENCE OUTLET WEATHER PROOF, W/ COVER



## 2 VICINITY MAP

N.T.S.

## 4 LEGENDS & SYMBOLS

N.T.S.

## 5 METERING WALL DETAIL

N.T.S.



### PROVISO:

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### RECOMMENDING APPROVAL

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

Engr. ISAGANI R. VERZOSA Jr.  
OIC - CITY ENGINEER

### APPROVED BY:

HON. MA. JOSEFINA G. BELMONTÉ  
CITY MAYOR

### PROJECT TITLE:

PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG

LOCATION: BRGY. BAGBAG, QUEZON CITY

### SHEET CONTENTS:

GENERAL NOTES  
SCHEDULE OF LOADS  
DETAIL OF METERING WALL  
LEGENDS & SYMBOLS  
VICINITY MAP

### PROJECT NO.:

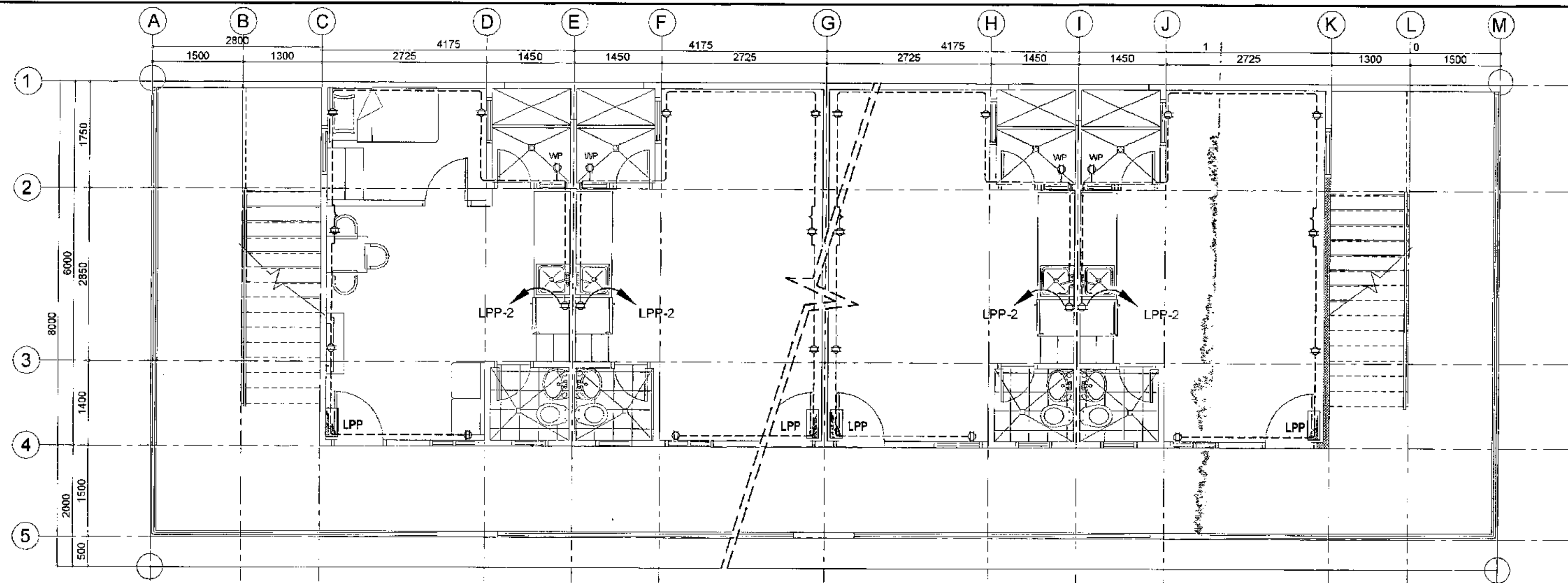
DATE August 2020  
DRAWN BY Ar. P.N.B.  
DESIGNED BY Engr. T.B. INFANTE Jr.  
CHECKED BY Ar. L.H. CHUA

### SHEET NO.:

EL-01

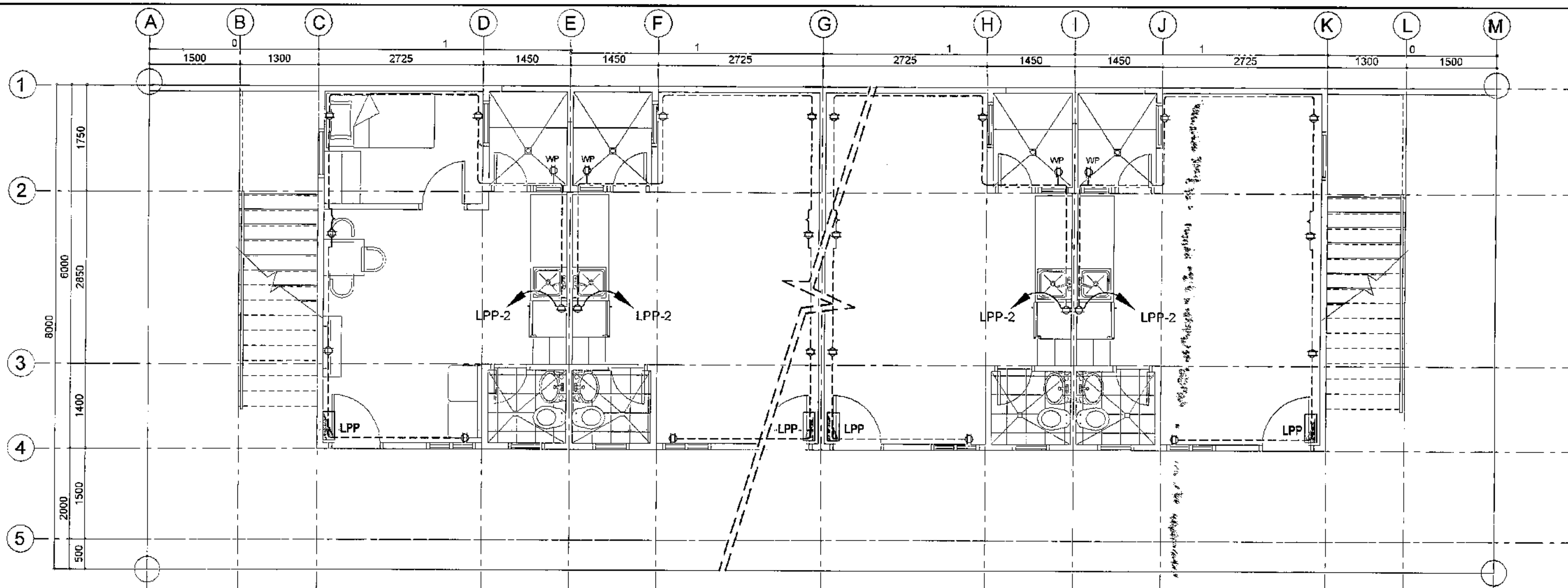






**2 TYPICAL SECOND FLOOR POWER LAYOUT**

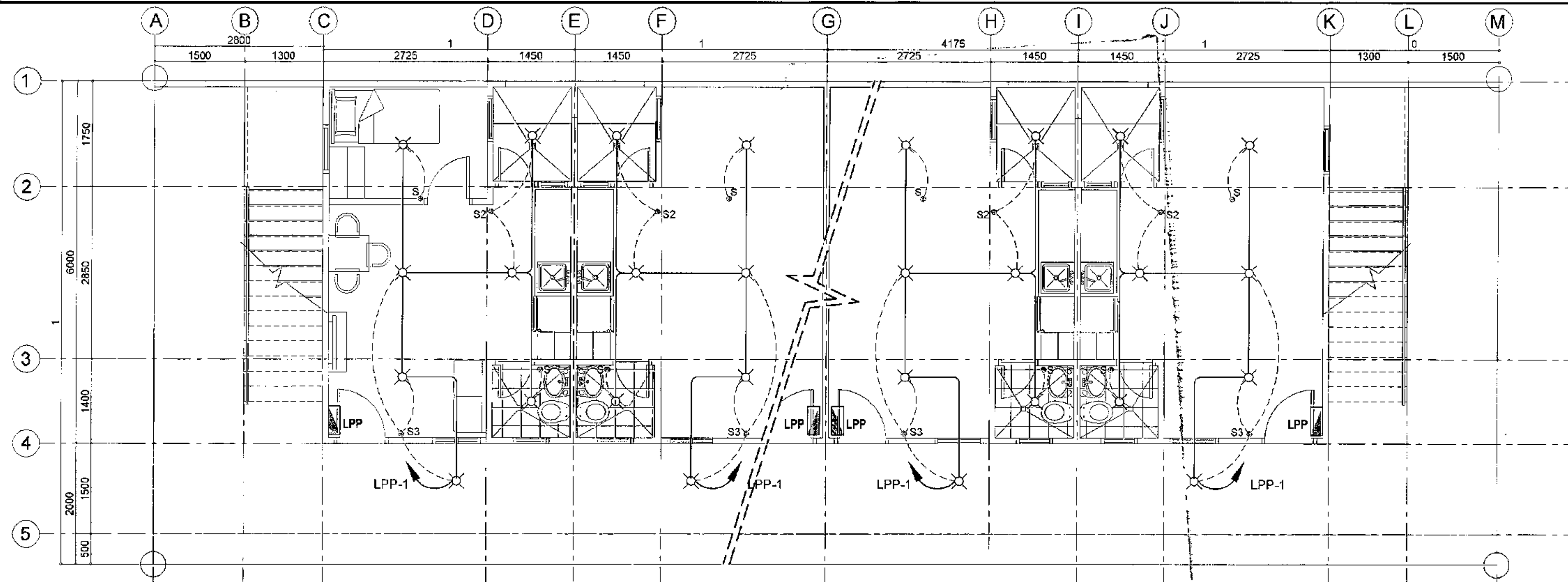
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**1 TYPICAL GROUND FLOOR POWER LAYOUT**

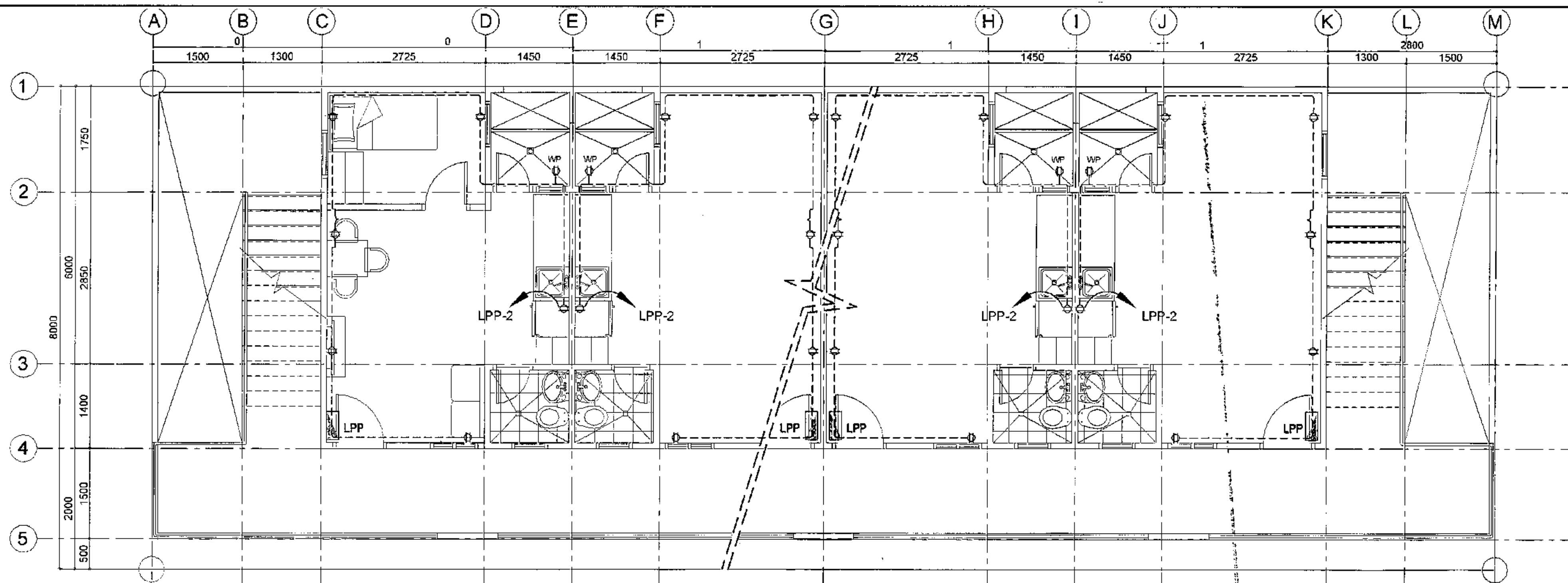
SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 375 CIVIC CENTER - D (BRG. Bagg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVIDO:</b></p> <p>DRAWING AND SPECIFICATIONS ONLY SHALL BE STAMPED OR SEALED AS INSTRUMENTS OF SERVICE. THE INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SHALL NOT BE LOANED OR REPRODUCED WITHOUT THE WRITTEN PERMISSION OF THE CITY ARCHITECT. THE CITY ARCHITECT SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING AND SPECIFICATIONS. THE CITY ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWING AND SPECIFICATIONS IF THEY ARE NOT CHECKED BY THE CITY ARCHITECT.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>Ar. Lucile H. Chua, uap, piep</i> CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> CIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>Hon. Ma. Josefina G. Belmonte</i> CITY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>GROUND AND SECOND FLOOR POWER LAYOUT</p>	<p><b>PROJECT NO.:</b></p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. T.B. Infante Jr. CHECKED BY: Ar. L.H. Chua</p>	<p><b>SHEET NO.:</b></p> <p><b>EL-03</b></p>
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**2 TYPICAL GROUND FLOOR LIGHTING LAYOUT**

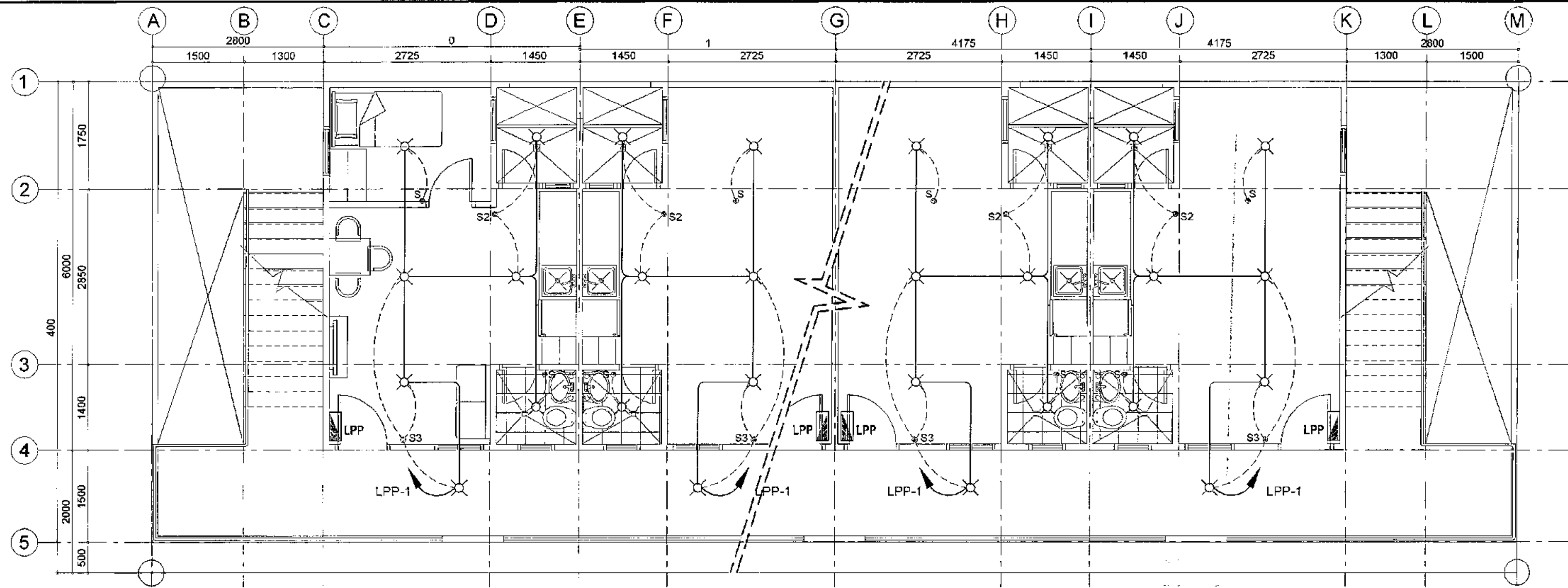
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**1 TYPICAL THIRD FLOOR POWER LAYOUT**

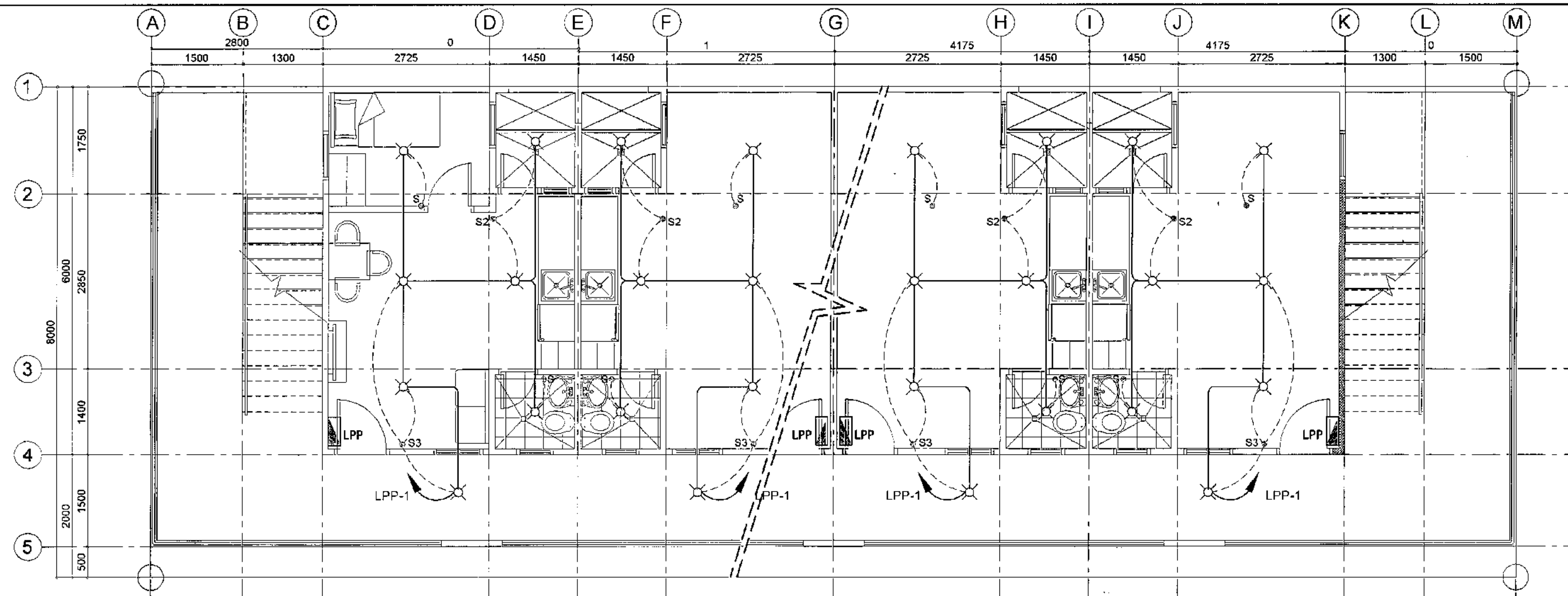
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<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SFC CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b> DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXERCISED OR NOT, IT SHALL BE ILLEGAL TO REPRODUCE OR TO USE THE SAME IN ANY MANNER 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 OR OTHERWISE, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>Ar. LUCILLE H. CHUA, uap, piep</i> CITY ARCHITECT</p>	<p><b>APPROVED BY:</b></p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> CIC - CITY ENGINEER</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>THIRD FLOOR POWER LAYOUT GROUND FLOOR LIGHTING LAYOUT</p>	<p><b>PROJECT NO.:</b></p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. T.B. INFANTE Jr. CHECKED BY: Ar. L.H. CHUA</p>	<p><b>SHEET NO.:</b></p> <p><b>EL-04</b></p>
		<p><b>APPROVED BY:</b></p> <p><i>HON. MA. JOSEFINA G. BELMONTE</i> CITY MAYOR</p>					



**2 TYPICAL THIRD FLOOR LIGHTING LAYOUT**

SCALE 1:50 METERS

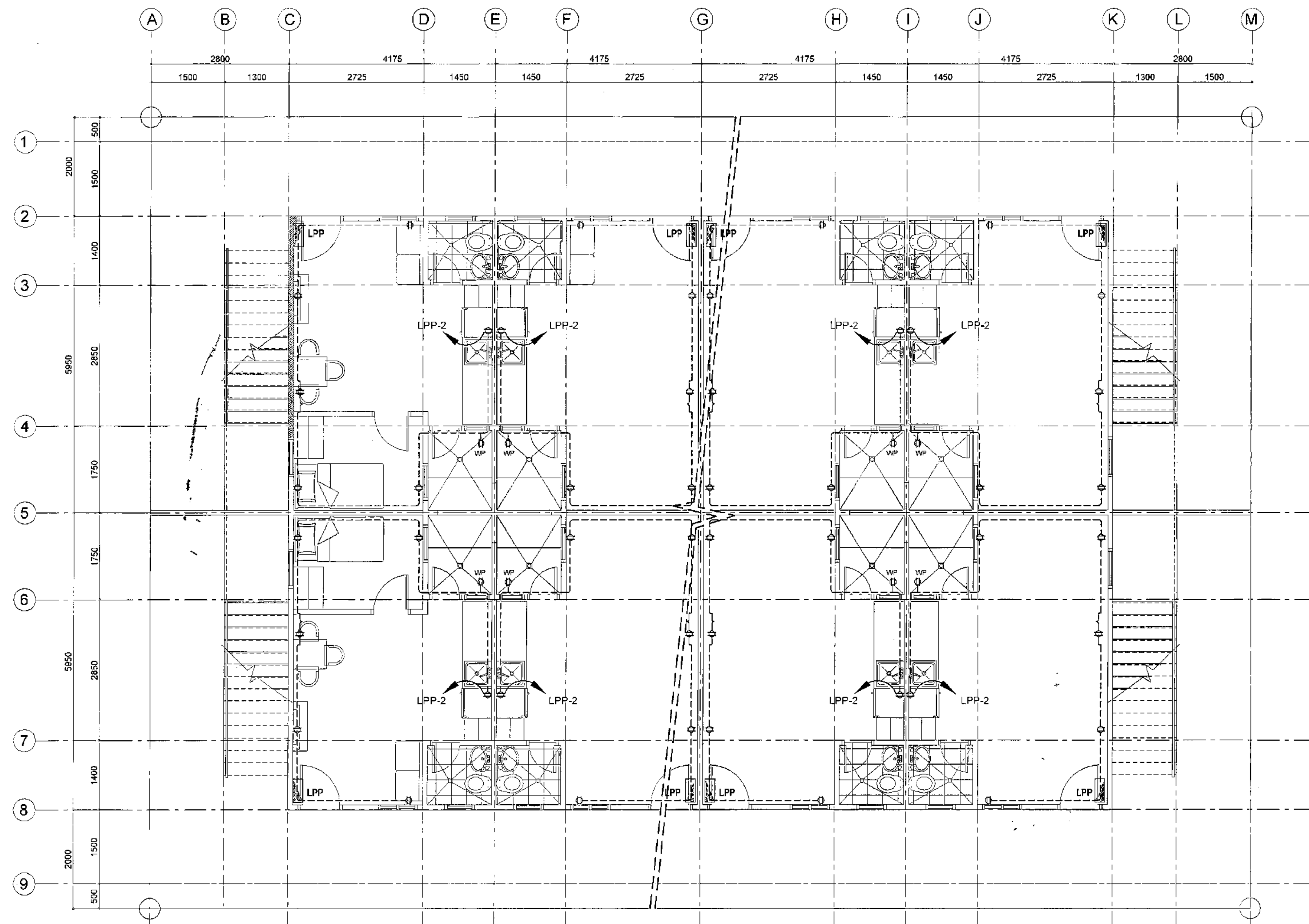


**1 TYPICAL SECOND FLOOR LIGHTING LAYOUT**

SCALE 1:50 METERS


<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SF CIVIC CENTER - D (Bldg. 800), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE SERVICE FOR WHICH THEY ARE MADE IS EXERCISED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OR THE AUTHORITY OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED EARLY OR LATE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. LUCILLE H. CHUA, uap, piep</i> CITY ARCHITECT</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>HON. MA. JOSEFINA G. BELMONTE</i> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p><b>SECOND AND THIRD FLOOR LIGHTING LAYOUT</b></p>	<p>PROJECT NO.:</p>	<p>SHEET NO.:</p>
						<p>DATE: September 2020</p>	<p><b>EL-05</b></p>
						<p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Engr. T.B. INFANTE Jr.</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	

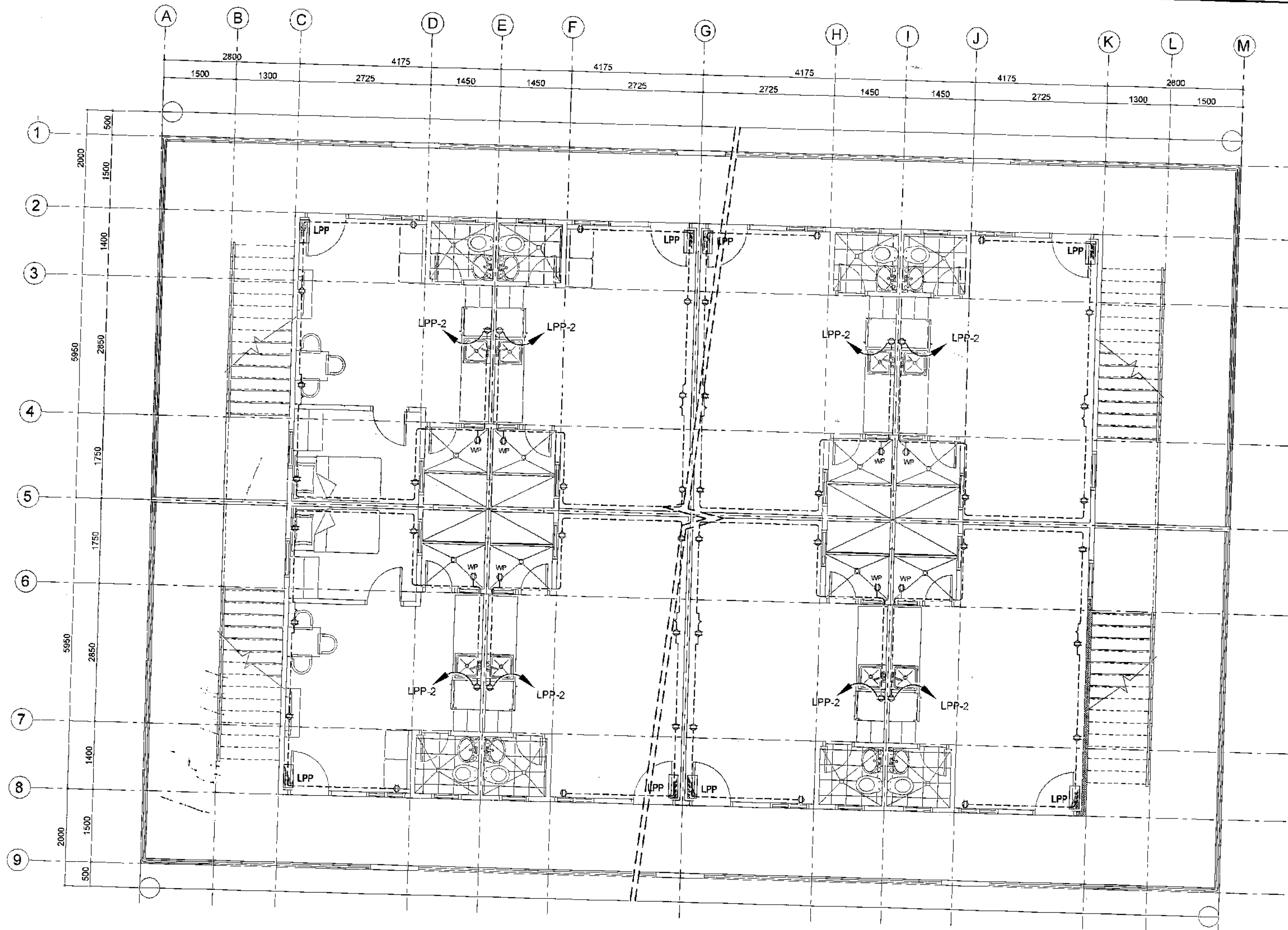




# 1 GROUND FLOOR POWER LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

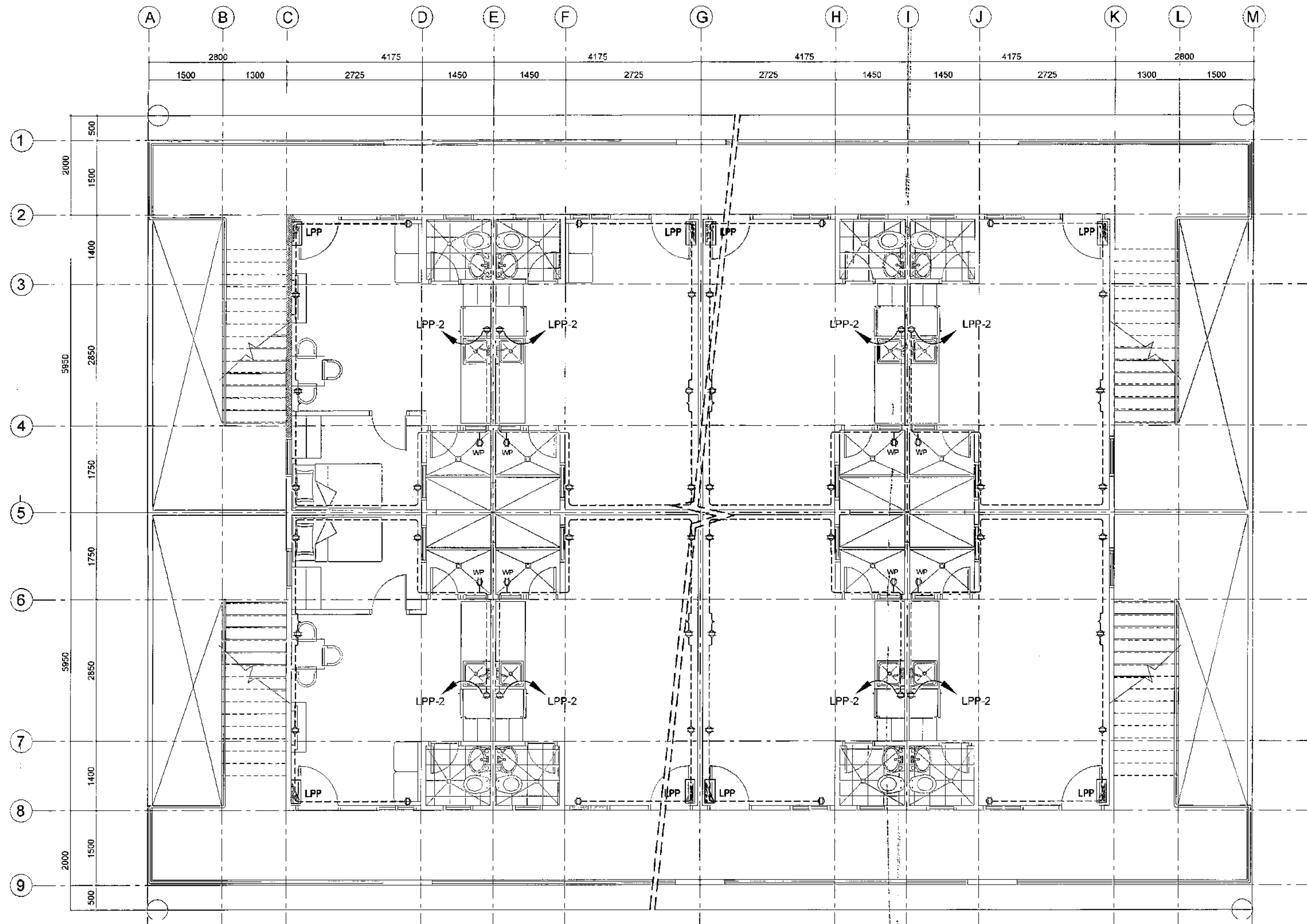
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 3/F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVIDOR:</p> <p><small>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT. NO PART OF THIS DRAWING OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THE ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING OR SPECIFICATIONS FOR ANY PROJECTS OF BUILDINGS, WHETHER PREPARED PARTLY OR IN WHOLE.</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR POWER LAYOUT</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H. BALADJAY CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>EL-06</b></p>
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# 1 SECOND FLOOR POWER LAYOUT (BACK TO BACK HOUSING UNITS)

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SFP CIVIC CENTER - D (BRO. BKG), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b> DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE ARCHITECT. NO PART OF THIS DRAWING OR SPECIFICATION SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>Ar. LUCILLE H. CHUA, uap, piep</i> CITY ARCHITECT</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> CIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>HON. MA. JOSEFINA G. BELMONTE</i> CITY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>SECOND FLOOR POWER LAYOUT</p>	<p><b>PROJECT NO.:</b></p>	<p><b>SHEET NO.:</b></p>
						<p><b>DATE:</b> September 2020</p>	<p><b>EL-07</b></p>
						<p><b>DRAWN BY:</b> Ar. P.N.B.</p> <p><b>DESIGNED BY:</b> Ar. M.H. BALADJAY</p> <p><b>CHECKED BY:</b> Ar. L.H. CHUA</p>	

SCALE 1:50 METERS



# 1 THIRD FLOOR POWER LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS



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



PROVISO:

DRAWING AND SPECIFICATIONS ONLY  
TO BE USED, STAMPED OR SEALED AS  
INSTRUMENTS OF SERVICE ARE THE  
INTELLECTUAL PROPERTY AND DOCUMENTS  
OF THE CITY ARCHITECT DEPARTMENT.  
WHETHER THE CLIENT FOR WHOM THEY  
ARE MADE BY DESIGN 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.

RECOMMENDING APPROVAL

*Ar. LUCILLE H. CHUA, uap, piep*  
CITY ARCHITECT

*Engr. ISAGANI R. VERZOSA Jr.*  
CITY ENGINEER

APPROVED BY:

*HON. MA. JOSEFINA G. BELMONTE*  
CITY MAYOR

PROJECT TITLE:

**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG**

LOCATION: BRGY. BAGBAG, QUEZON CITY

SHEET CONTENTS:

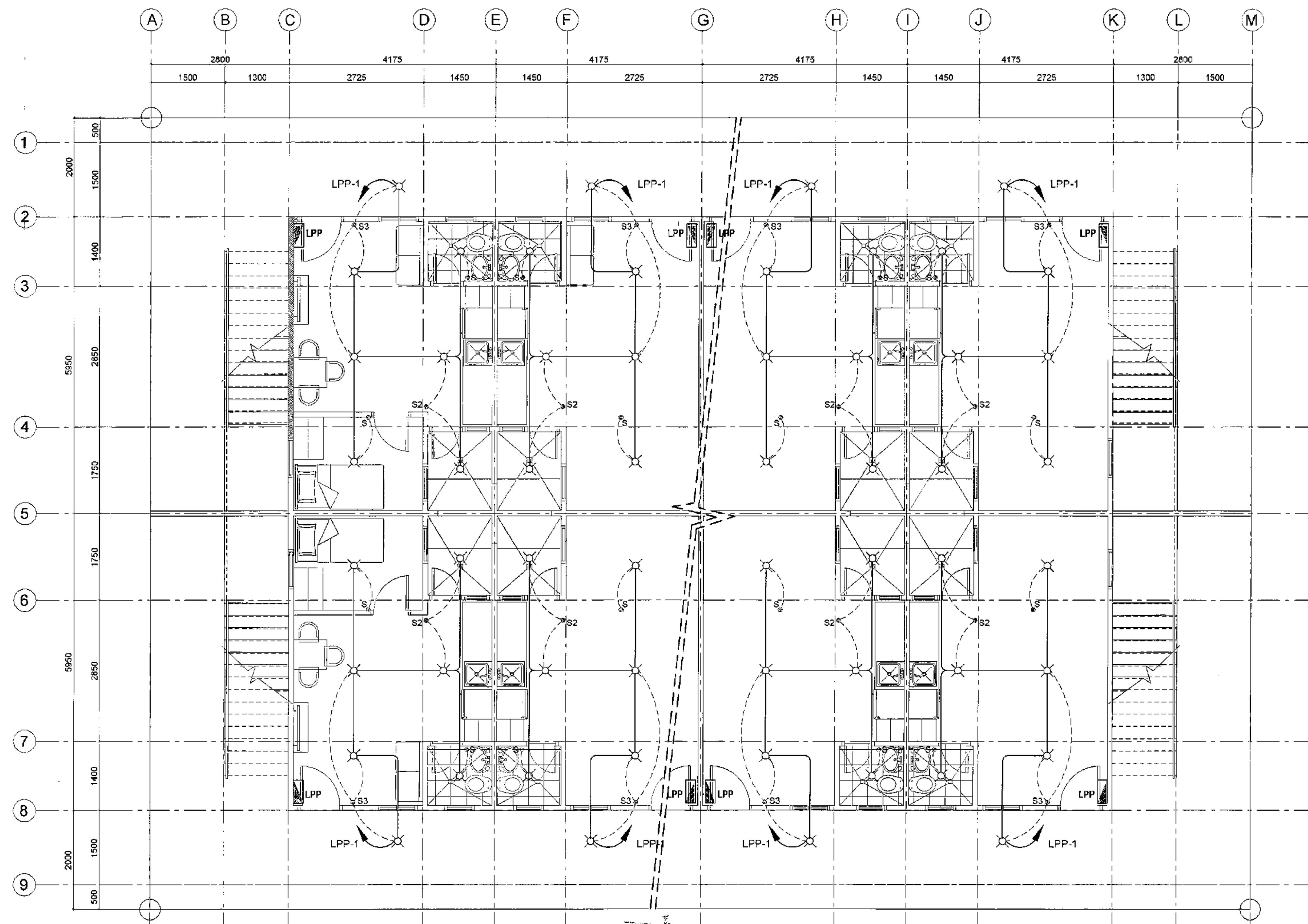
THIRD FLOOR POWER LAYOUT

PROJECT NO.:

DATE: September 2020  
DRAWN BY: Ar. P.N.B.  
DESIGNED BY: Ar. M.H. BALADJAY  
CHECKED BY: Ar. L.H. CHUA


SHEET NO.:

**EL-08**

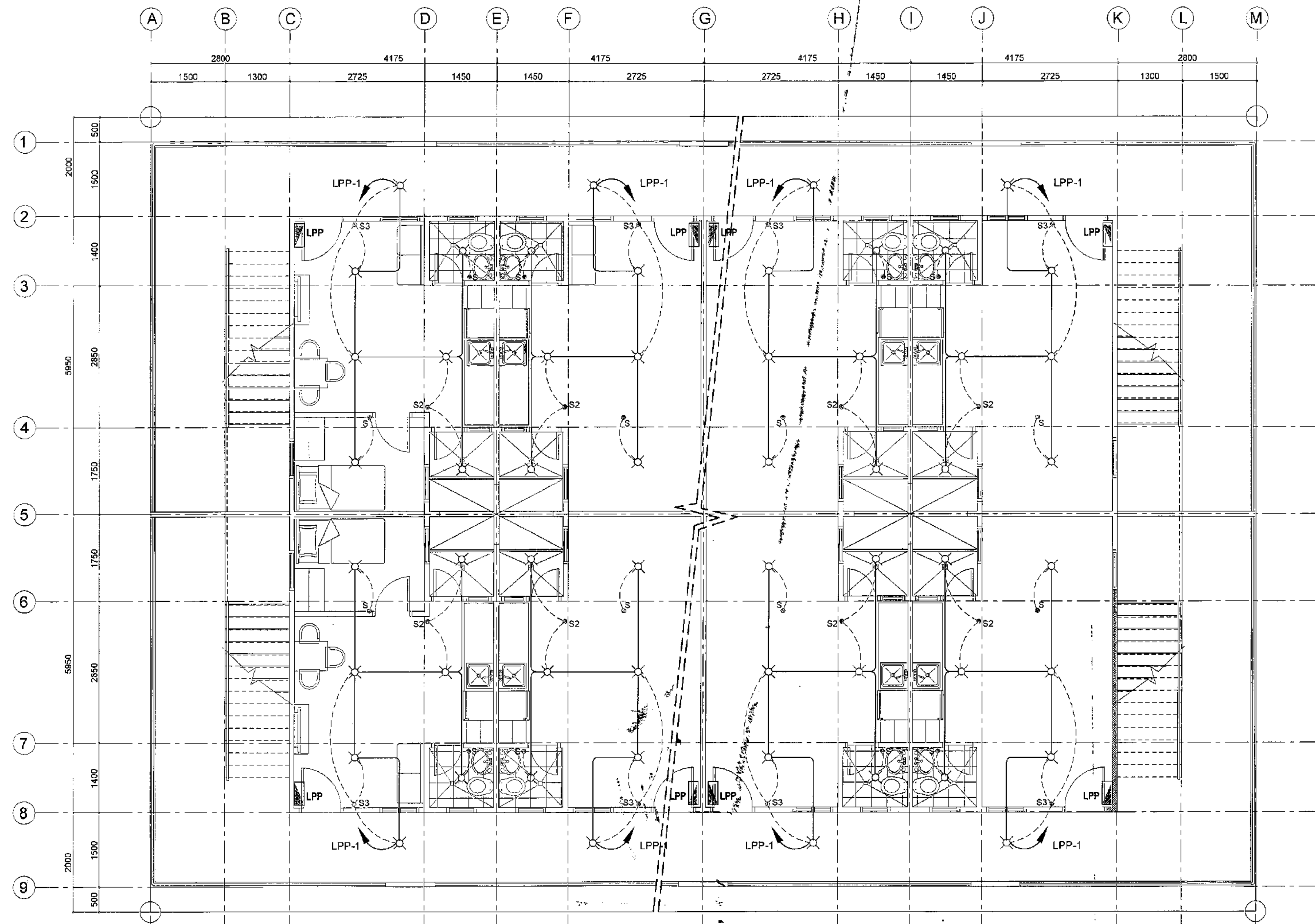


# 1 GROUND FLOOR LIGHTING LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5th CIVIC CENTER - 0 (BRO. BAY), QUEZON CITY HALL COMPOUND, ELLIPICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE USE OF ANY PART OF THE DRAWING OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF THIS DRAWING, TO REPRODUCE OR TO MAKE COPIES OF AND DOCUMENTS THEREIN FOR THE PURPOSE OF ANY OTHER PROJECTS OR BUILDINGS, WHETHER ERECTED PARTLY OR IN WHOLE.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>Ar. Lucille H. Chua, uap, piep</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>Hon. Ma. Josefina G. Belmonte</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION : BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>GROUND FLOOR LIGHTING LAYOUT</p>	<p><b>PROJECT NO.:</b></p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H. BALADJAY CHECKED BY: Ar. L.H. CHUA</p>	<p><b>SHEET NO.:</b></p> <p><b>EL-09</b></p>
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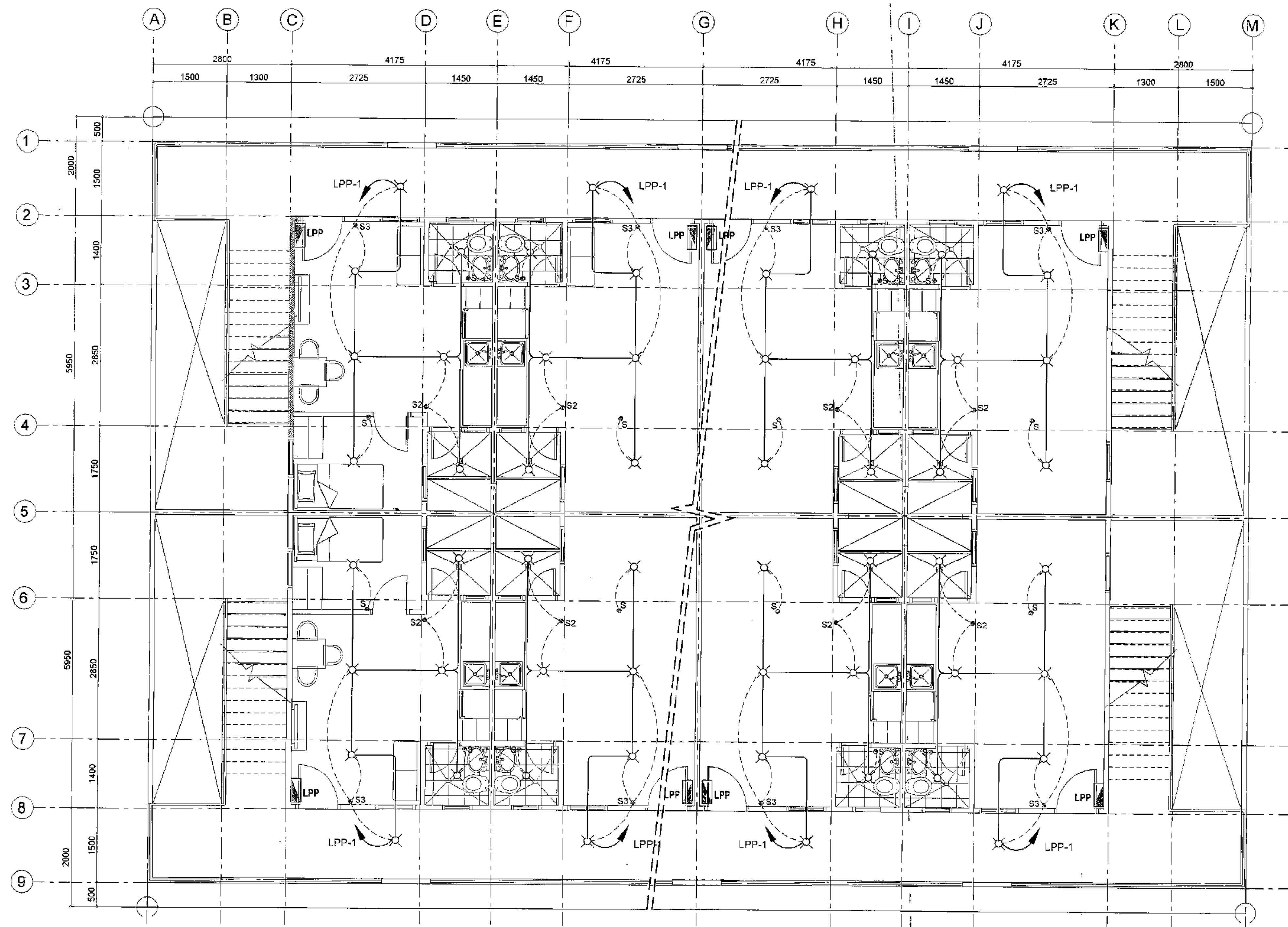




# 1 SECOND FLOOR LIGHTING LAYOUT (BACK TO BACK HOUSING UNITS)

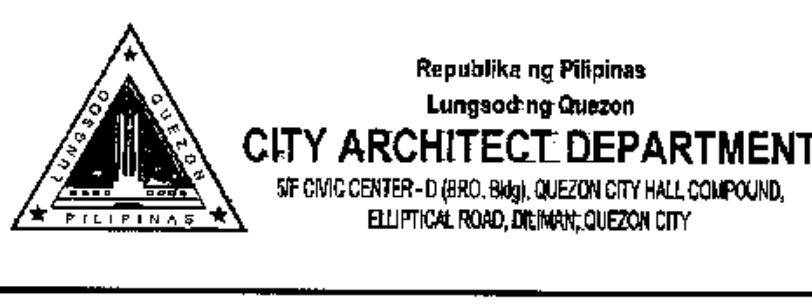
SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SF CIVIC CENTER - D (BRO. 800), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DEUTARAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE BE EXISTING OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO USE COPIES OF SAID DOCUMENTS FOR THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER ERECTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. LUCILLE H. CHUA, uap, piep</i> CITY ARCHITECT</p>		<p>APPROVED BY:</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> CIC - CITY ENGINEER</p>		<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>SECOND FLOOR LIGHTING LAYOUT</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H.BALADJAY CHECKED BY: Ar. L.H.CHUA</p>	<p>SHEET NO.:</p> <p><b>EL-10</b></p>
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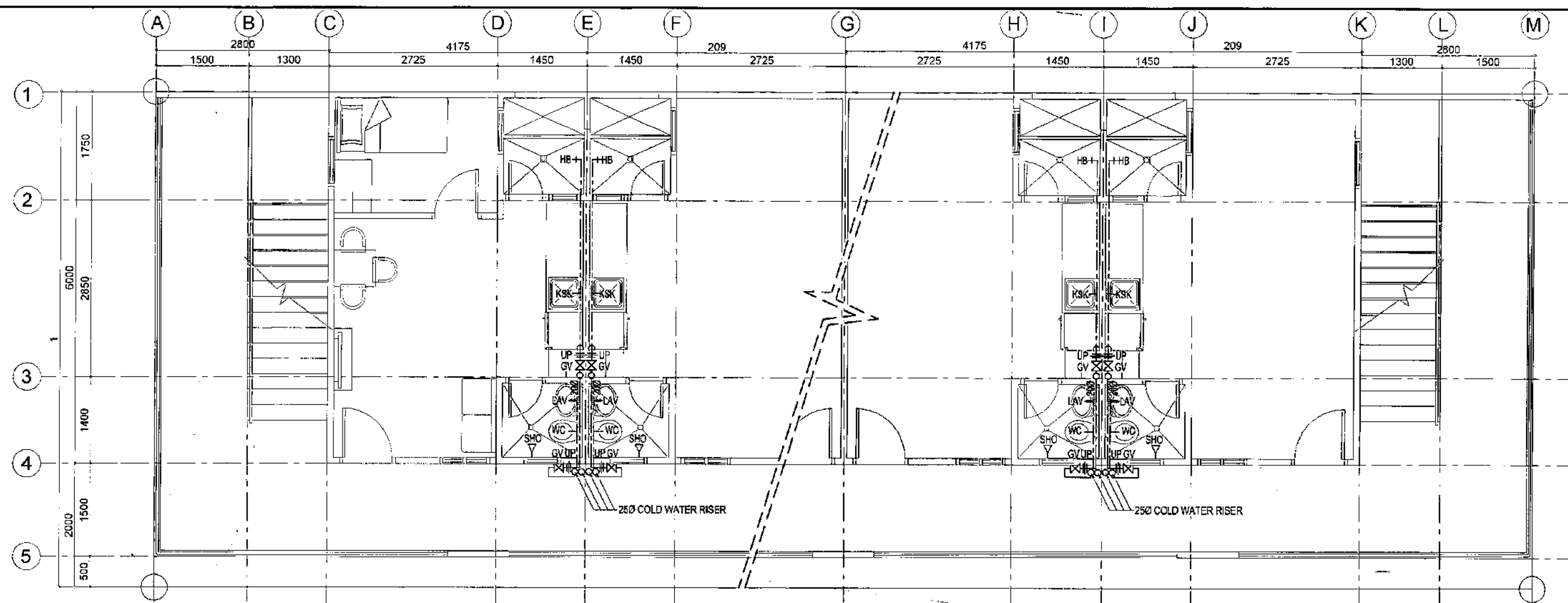


# 1 THIRD FLOOR LIGHTING LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

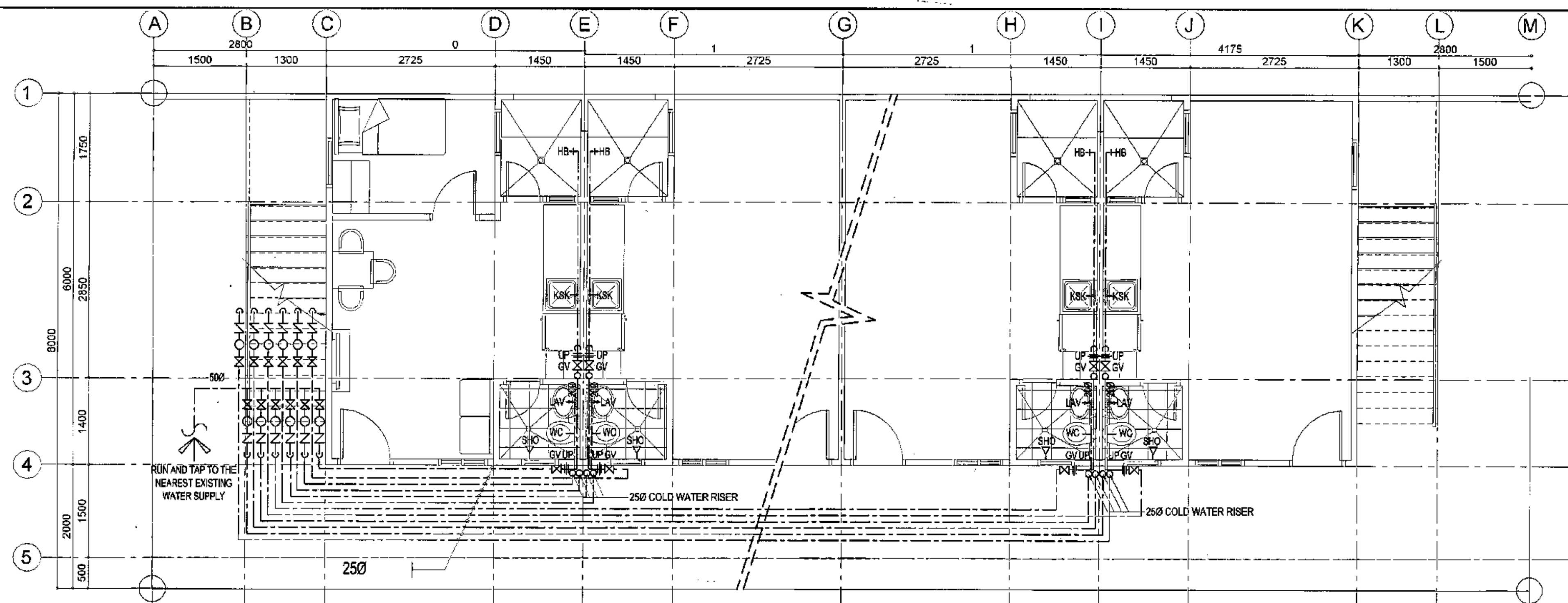
	<b>PROVISO:</b> <small>DRAWING AND SPECIFICATIONS ONLY          SIGNED, STAMPED OR SEALED AS          INSTRUMENTS OF SERVICE ARE THE          INSTRUMENTS OF SERVICE OF THE          ARCHITECTS, ENGINEERS, PLANNERS          AND OTHERS REGISTERED WITH THE          BOARD OF PROFESSIONAL REGULATION          AND ORIGINATING AGENCY. WITHOUT          THE CONSENT OF THE BOARD OF          PROFESSIONAL REGULATION AND ORIGINATING          AGENCY, NO PART OF THIS DRAWING          SHALL BE REPRODUCED OR USED FOR          ANY OTHER PROJECTS OR BUILDINGS, WHETHER          EXECUTED PARTLY OR IN WHOLE.</small>	<b>RECOMMENDING APPROVAL</b>  Ar. LUCILLE H. CHUA, uap, piep <small>CITY ARCHITECT</small>	<b>APPROVED BY:</b>  Engr. ISAGANI R. VERZOSA Jr. <small>OIC - CITY ENGINEER</small>	<b>PROJECT TITLE:</b>  PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG  <small>LOCATION: BRGY. BAGBAG, QUEZON CITY</small>	<b>SHEET CONTENTS:</b>  THIRD FLOOR LIGHTING LAYOUT	<b>PROJECT NO.:</b>  DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Ar. M.H. BALADJAY CHECKED BY: Ar. L.H. CHUA	<b>SHEET NO.:</b>  <b>EL-11</b>






**2 TYPICAL SECOND FLOOR WATER LINE LAYOUT**

SCALE 1:50 METERS



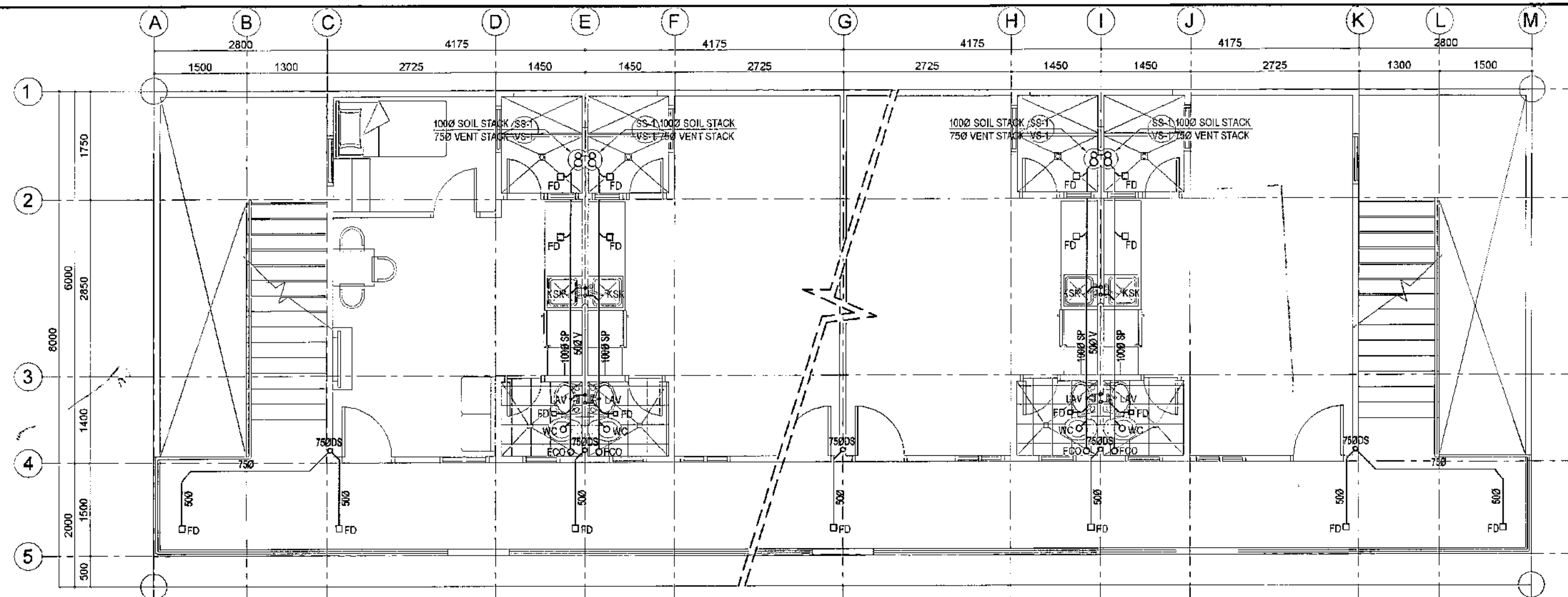
**1 TYPICAL GROUND FLOOR WATER LINE LAYOUT**

SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 3F CMC CENTER - D (PRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, OLIMPIC, QUEZON CITY</p>	<p>PROVISO:</p> <p><small>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLIGIBLE PROPERTIES AND POSSESSIONS OF THE CITY ARCHITECT DEPARTMENT. WHICHEVER THE OBJECT OR FOR WHOM THEY ARE MADE IS EXCLUDED OR NOT, IT SHALL BE INJURIOUS FOR ANY PERSON TO DISSEMINATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF ANY OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTIALLY OR IN WHOLE.</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. LUCILLE M. CHUA, uap, piep</i> CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR WATER LINE LAYOUT SECOND FLOOR WATER LINE LAYOUT</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUCAO CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>PL-02</b></p>
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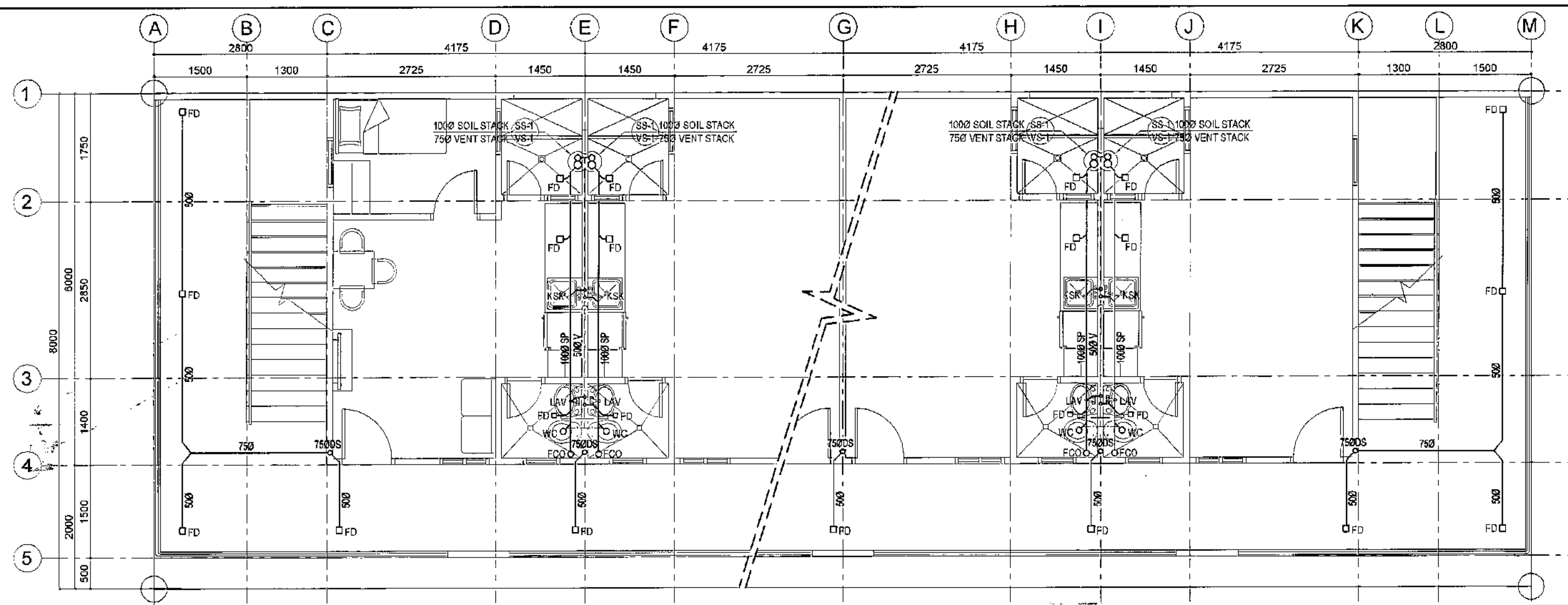







**2 TYPICAL THIRD FLOOR SANITARY AND STORM DRAIN LAYOUT**

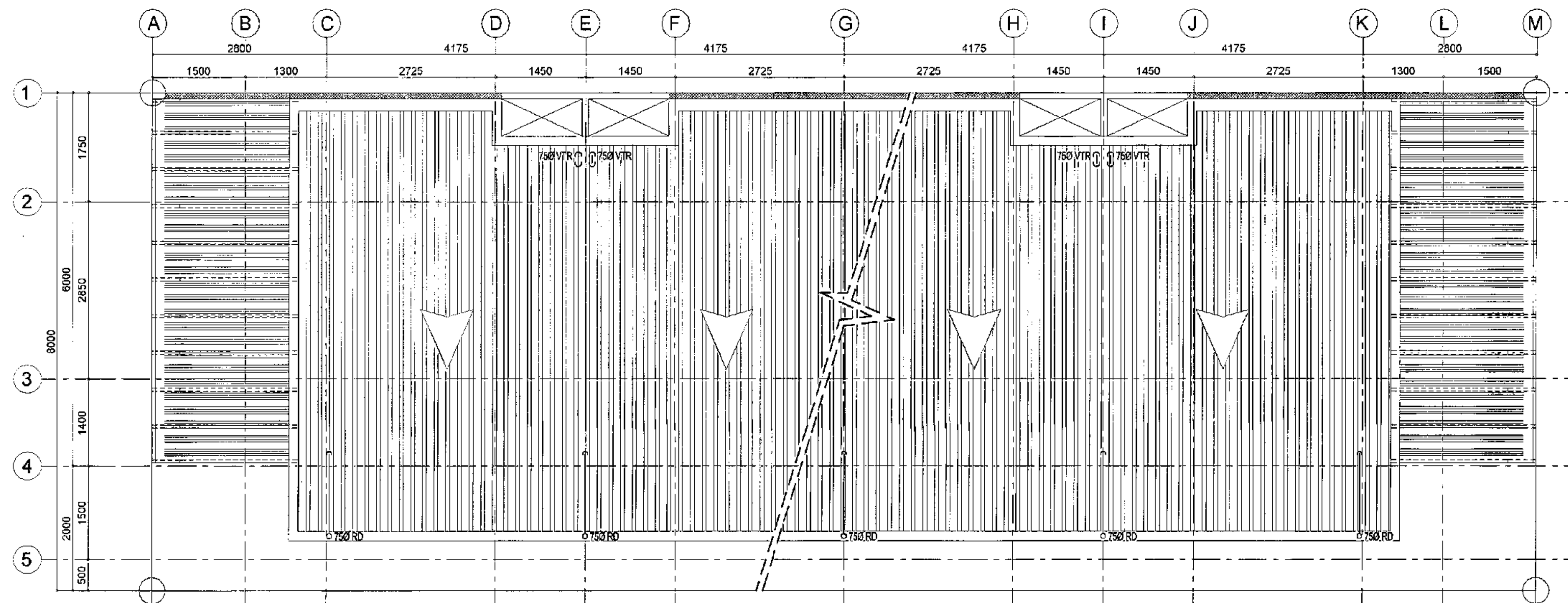
SCALE 1:50 METERS



**1 TYPICAL SECOND FLOOR SANITARY AND STORM DRAIN LAYOUT**


SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (BRO. BRG), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DULAMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p><small>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. IF THE CITY ARCHITECT DEPARTMENT IS NOT THE DESIGNER OF THE PROJECT, IT SHALL BE THE RESPONSIBILITY OF THE DESIGNER TO OBTAIN THE NECESSARY PERMISSIONS FROM THE DESIGNER OR HIS EMPLOYER FOR THE REPRODUCTION OF ANY PART OF THE PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</small></p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p><small>LOCATION: BRGY. BAGBAG, QUEZON CITY</small></p>	<p><b>SHEET CONTENTS:</b></p> <p>SECOND FLOOR SANITARY AND STORM DRAIN LAYOUT THIRD FLOOR SANITARY AND STORM DRAIN LAYOUT</p>	<p><b>PROJECT NO.:</b></p>		<p><b>SHEET NO.:</b></p> <p><b>PL-04</b></p>
						<p><b>DATE:</b> September 2020</p>		
						<p><b>DRAWN BY:</b> Ar. P.N.B. <b>DESIGNED BY:</b> Engr. E.R. SIBUCAO <b>CHECKED BY:</b> Ar. L.H. CHUA</p>		

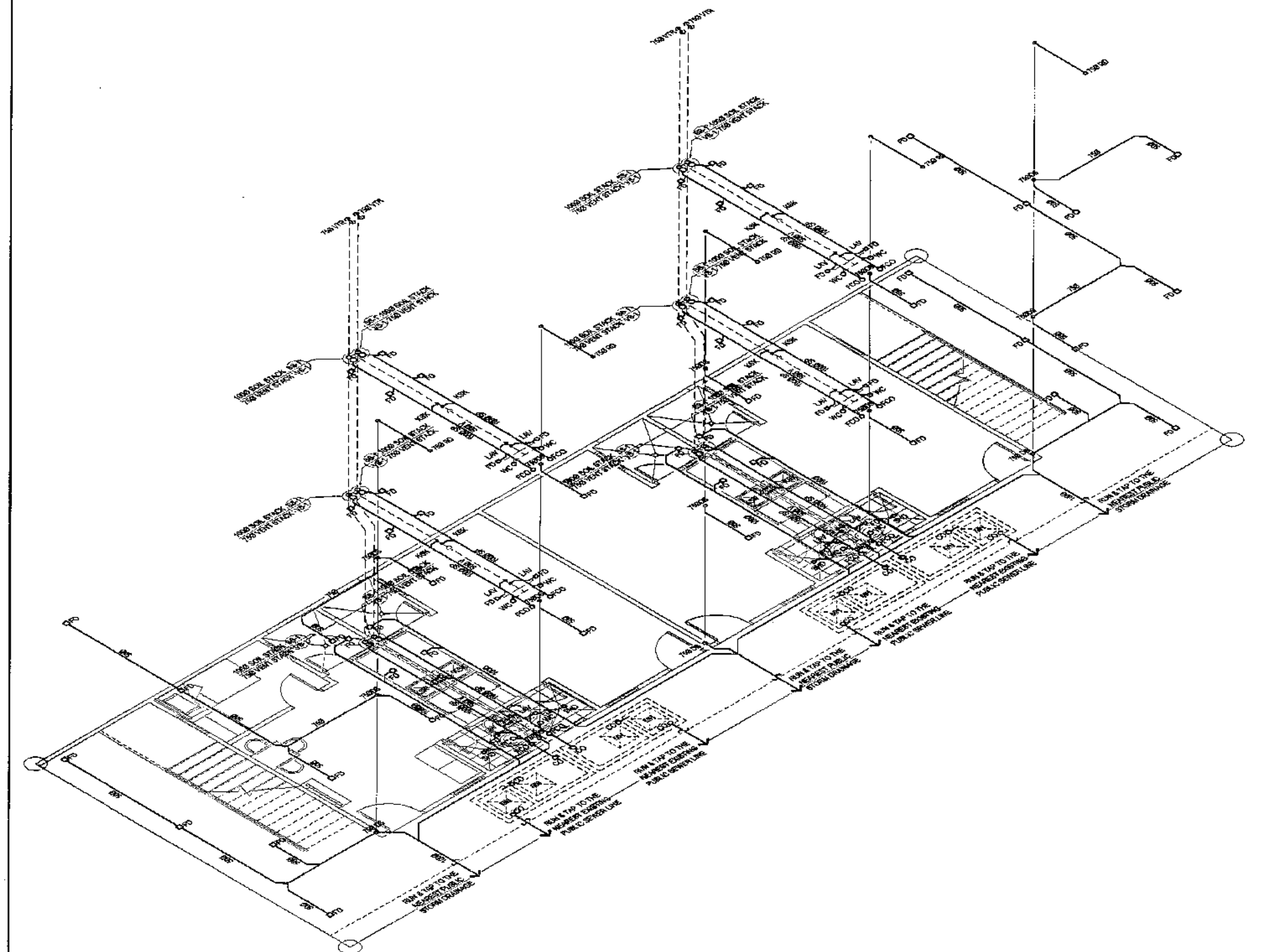
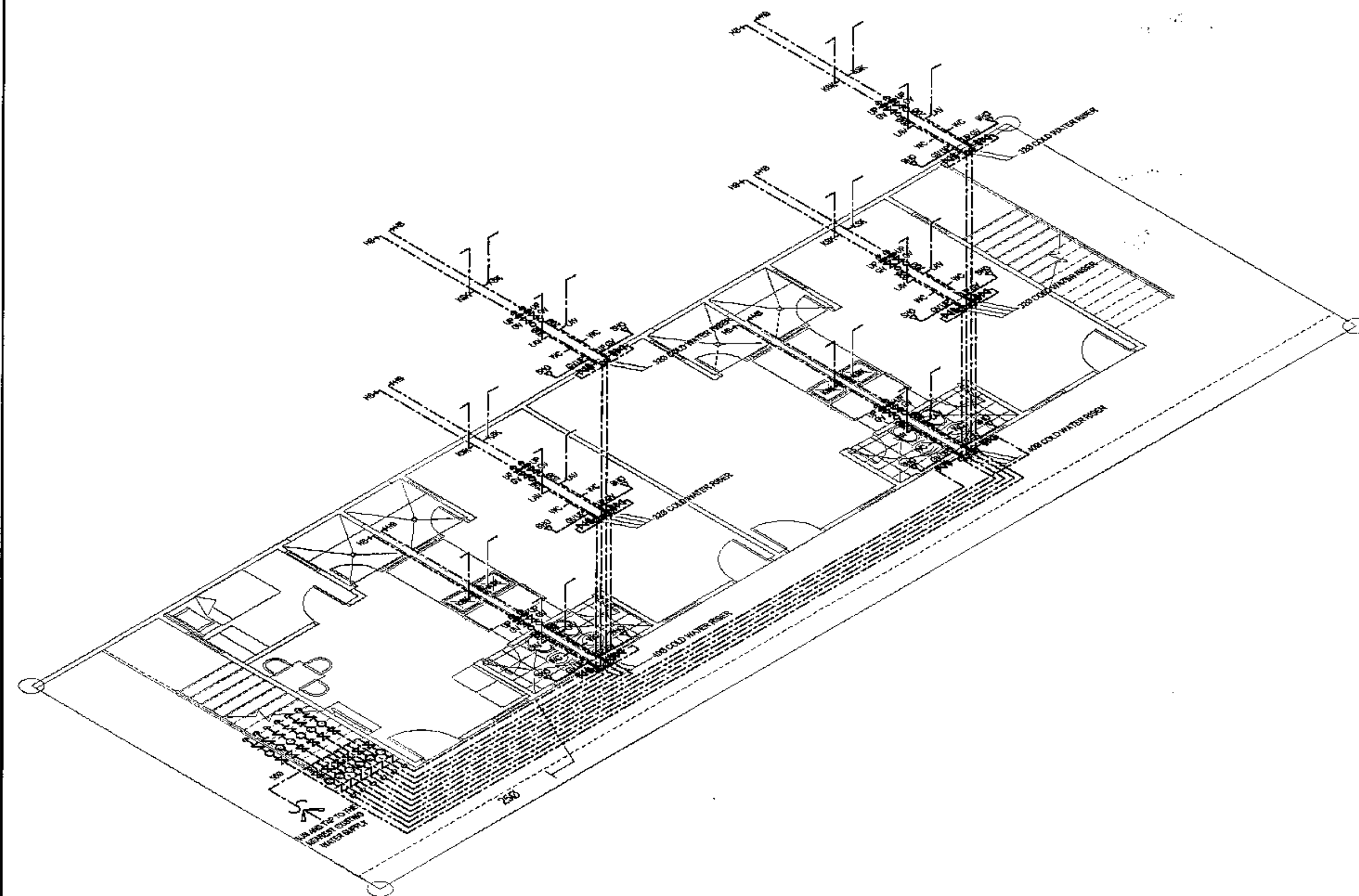


# 1 TYPICAL ROOF STORM DRAIN LAYOUT

SCALE 1:50 METERS



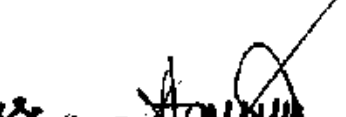
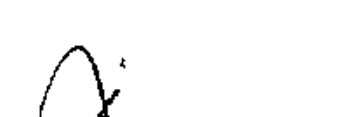

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5th CIVIC CENTER - D (Bldg. 6), QUEZON CITY HALL COMPOUND, ELIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p>DRAWING AND SPECIFICATIONS FULLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXISTING OR NOT TO BEALIGNED TO THE PERSONS WHOSE THE CONSENT OF THE ARCHITECT OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>Ar. LUCILLE H. CHUA, uap, piep</i> CITY ARCHITECT</p> <p><i>Engr. ISACANI R. VERZOSA Jr.</i> CIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>HON. MA. JOSEFINA G. BELMONTE</i> CITY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>DECK SANITARY AND STORM DRAIN LAYOUT</p>	<p><b>PROJECT NO.:</b></p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUGAO CHECKED BY: Ar. L.H. CHUA</p>	<p><b>SHEET NO.:</b></p> <p><b>PL-05</b></p>
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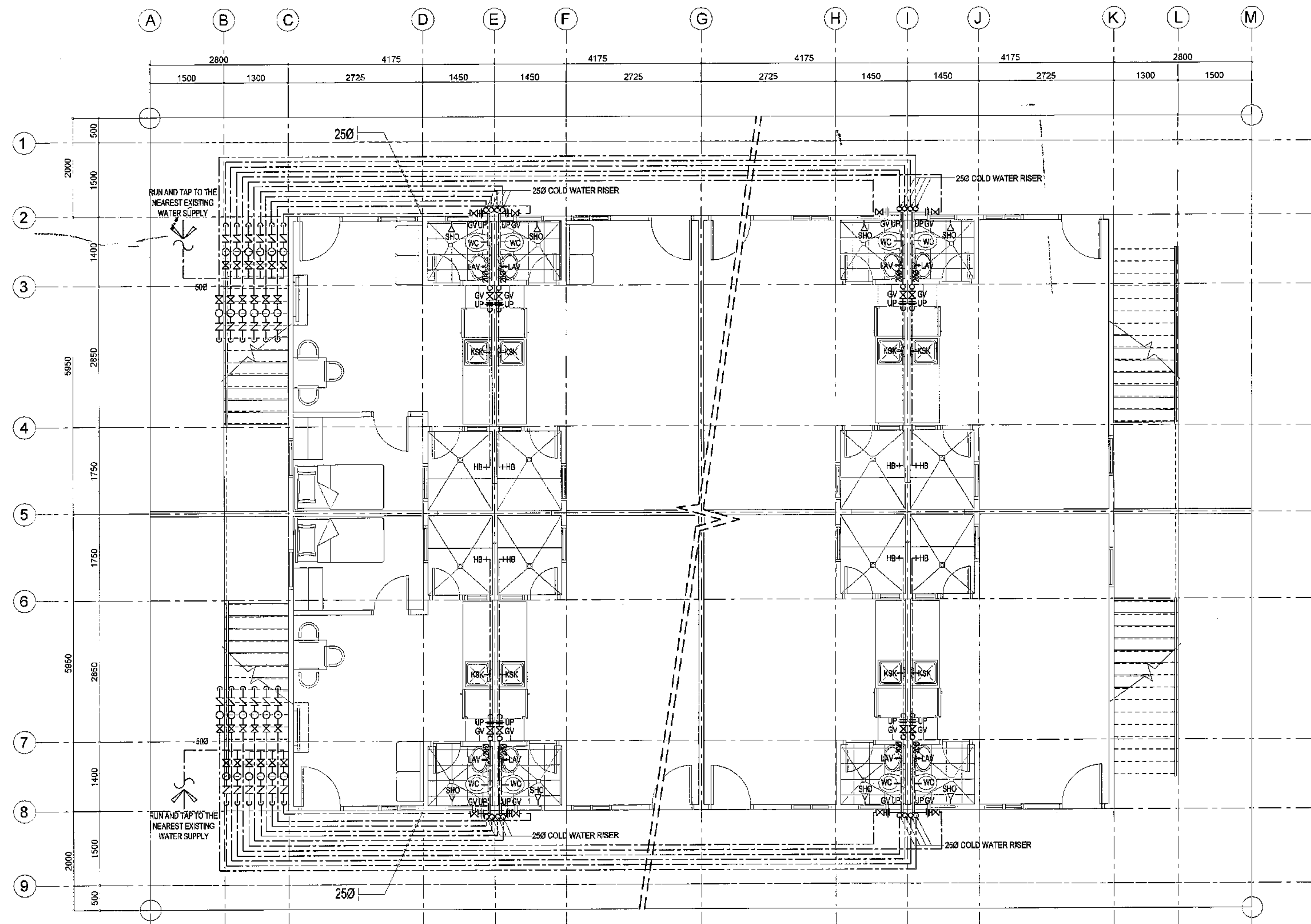




**1 WATER LINE ISOMETRIC LAYOUT ( PERIMETER HOUSING UNITS)** NOT TO SCALE

**2 SANITARY AND STORM DRAIN ISOMETRIC LAYOUT (PERIMETER)** NOT TO SCALE

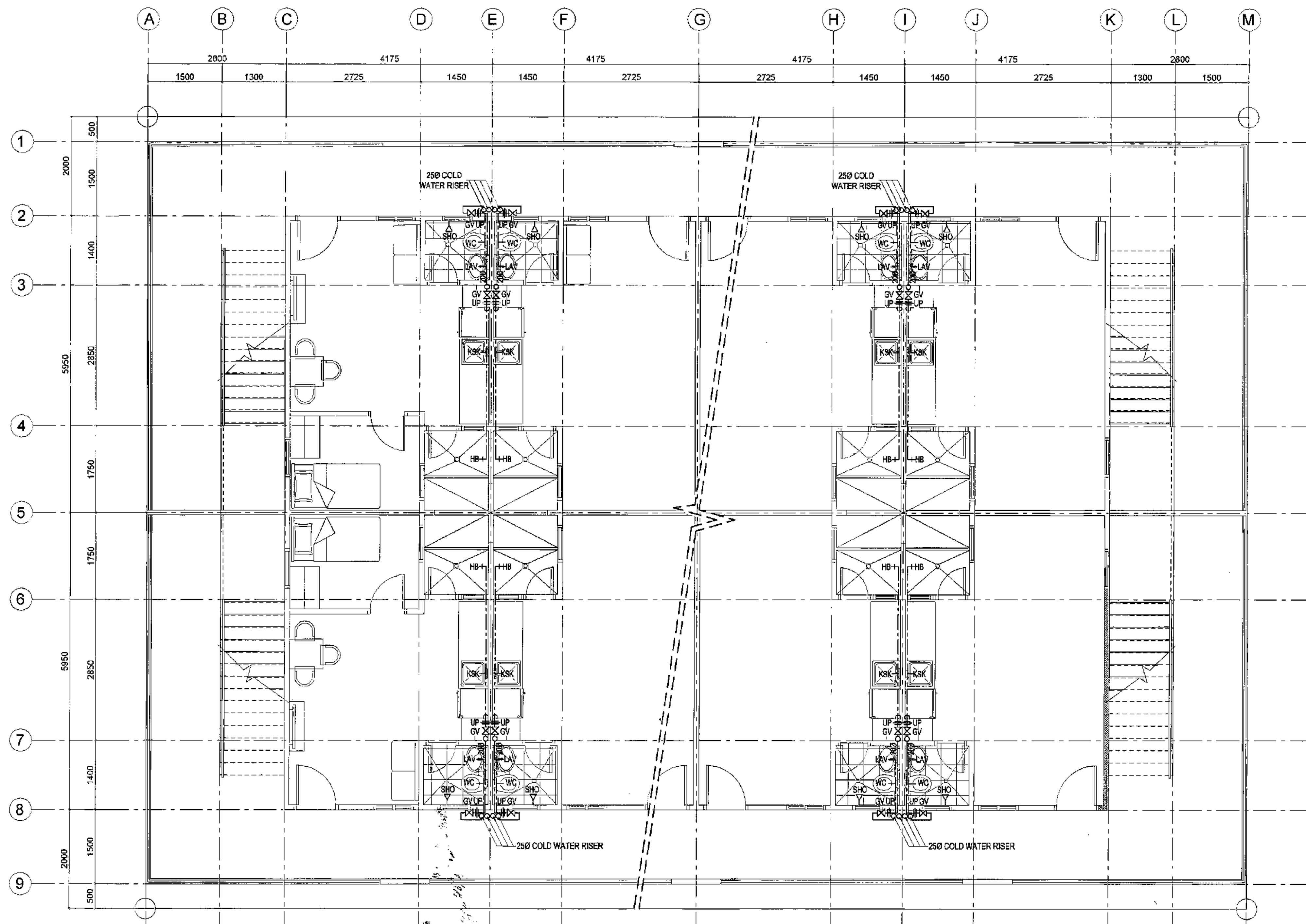
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5th CIVIC CENTER - 0 (Bldg. 848), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DISTRICT QUEZON CITY</p>		<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTY RIGHTS 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 AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF SAID DOCUMENTS OR FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>		<p>APPROVED BY:</p> <p> <b>HON. MA. JOSEFINA G. BELMONTE</b> SECRETARY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>WATER LINE ISOMETRIC LAYOUT SANITARY AND STORM DRAIN ISOMETRIC LAYOUT</p>	<p>PROJECT NO.:</p> <p>DATE: August 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUCAO CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>PL-06</b></p>
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# 1 GROUND FLOOR WATER LINE LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

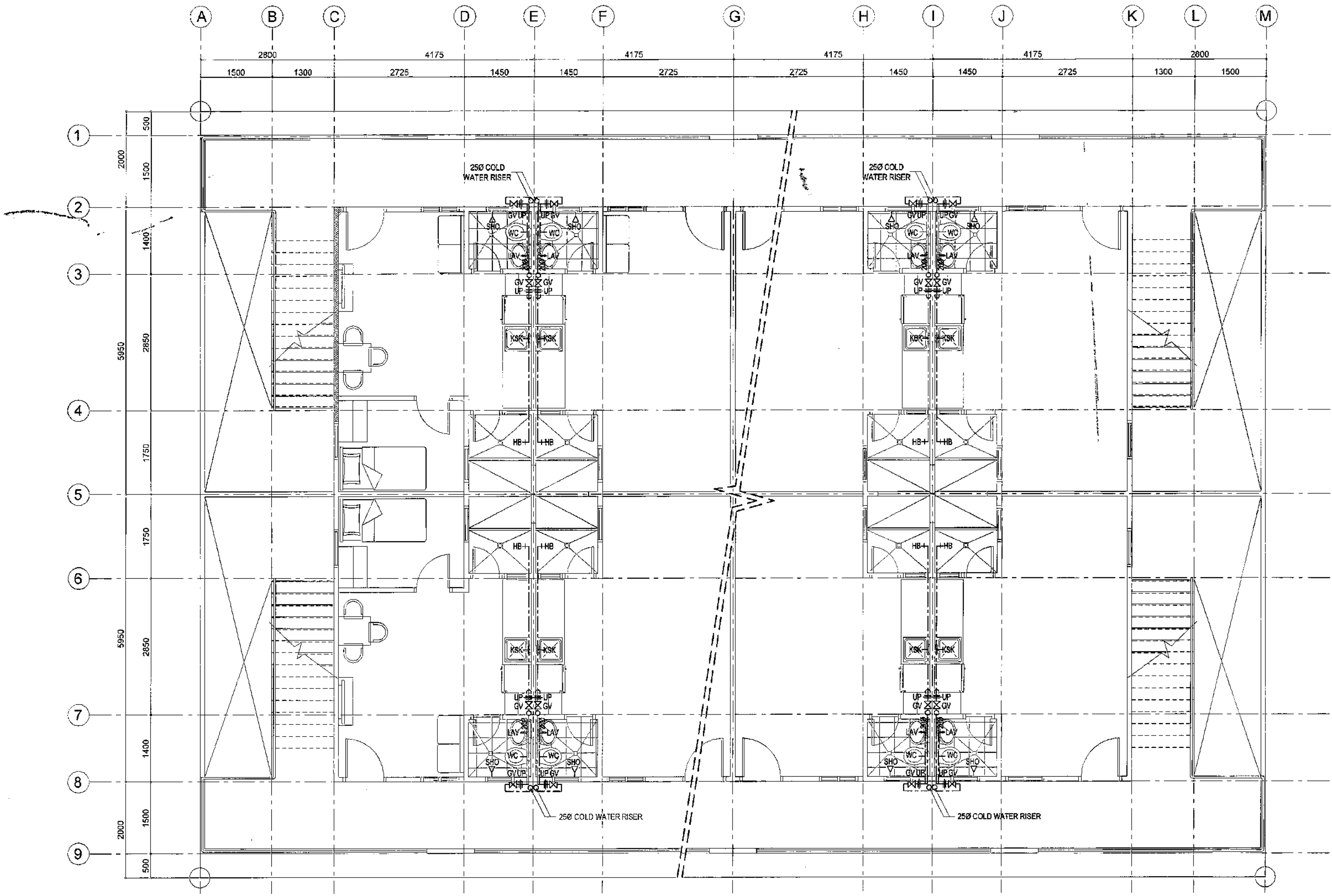
<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER-D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p>DRAWING AND SPECIFICATIONS DULY ISSUED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE EXCLUSIVE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. NO PART OF THIS DRAWING OR SPECIFICATION SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE CITY ARCHITECT DEPARTMENT. THE CITY ARCHITECT DEPARTMENT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING OR SPECIFICATION, WHETHER CAUSED BY NEGLIGENCE OR OTHERWISE, AND FOR ANY OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p><b>RECOMMENDING APPROVAL</b></p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p><b>APPROVED BY:</b></p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> SECRETARY MAYOR</p>	<p><b>PROJECT TITLE:</b></p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p><b>SHEET CONTENTS:</b></p> <p>GROUND FLOOR WATER LINE LAYOUT</p>	<p><b>PROJECT NO.:</b></p>	<p><b>SHEET NO.:</b></p>
						<p>DATE: September 2020</p>	<p><b>PL-07</b></p>
						<p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Engr. E.R. SIBUCAO</p> <p>CHECKED BY: Ar. L.H. CHUA</p>	



**1 SECOND FLOOR WATER LINE LAYOUT (BACK TO BACK HOUSING UNITS)**

SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SFC CIVIC CENTER - D (BRD. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVIDO:</b> DRAWING AND SPECIFICATIONS SHALL BE SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTY DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, AND SHALL BE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. ANY REUSE OR REPRODUCTION OF THE SAME WITHOUT THE CONSENT OF THE ARCHITECT AND DO NOT BE USED FOR ANY OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p>		<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p>	<p>SHEET CONTENTS:</p>	<p>PROJECT NO.:</p>	<p>SHEET NO.:</p>
		<p><i>Ar. Lucille H. Chua</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p>	<p><i>Engr. Isagani R. Verzosa Jr.</i> <b>Engr. ISAGANI R. VERZOSA JR.</b> CIC - CITY ENGINEER</p>	<p><i>Hon. Ma. Josefina G. Belmonte</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> SECRETARY MAYORAL FOR</p>	<p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p>	<p>SECOND FLOOR WATER LINE LAYOUT</p>	<p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUCAO CHECKED BY: Ar. L.H. CHUA</p>	<p><b>PL-08</b></p>
		<p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>						



1 THIRD FLOOR WATER LINE LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS



Republika ng Pilipinas  
Lungsod ng Quezon  
**CITY ARCHITECT DEPARTMENT**  
SF CIVIC CENTER - D (BRO. BKG), QUEZON CITY HALL COMPOUND,  
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



PROVIDED:

DRAWING AND SPECIFICATIONS ONLY  
SERVED. STAMPED OF SEALED AS  
INSTRUMENTS OF SERVICE ARE THE  
PROPERTY OF THE CITY ARCHITECT DEPARTMENT.  
WHEN THE DRAFT FOR WHICH THEY  
ARE PREPARED IS CANCELLED 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.

RECOMMENDING APPROVAL

*Ar. Lucille H. Chua, uap, piep*  
**Ar. LUCILLE H. CHUA, uap, piep**  
CITY ARCHITECT

*Engr. Isagani R. Verzosa Jr.*  
**Engr. ISAGANI R. VERZOSA JR.**  
CITY ENGINEER

APPROVED BY:

**HON. MA. JOSEFINA G. BELMONTE**  
CITY MAYOR

PROJECT TITLE:

**PROPOSED CONSTRUCTION  
OF HOUSING UNITS NO. 13 AT  
BRGY. BAGBAG**

LOCATION: BRGY. BAGBAG, QUEZON CITY

SHEET CONTENTS:

THIRD FLOOR WATER LINE  
LAYOUT

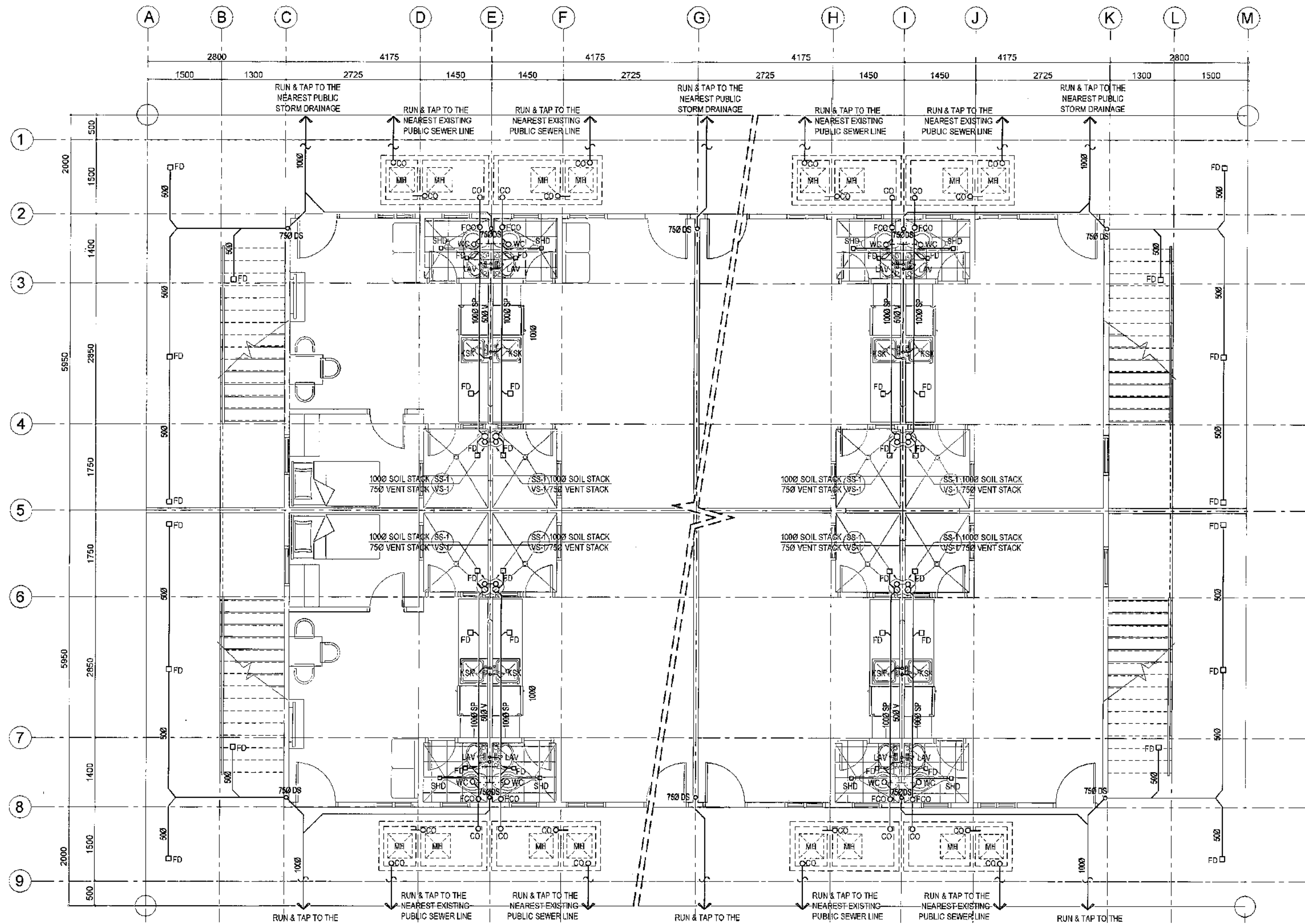
PROJECT NO.:

DATE: September 2020  
DRAWN BY: Ar. P.N.B.  
DESIGNED BY: Engr. E.R. SIBUCAO  
CHECKED BY: Ar. L.H. CHUA

SHEET NO.:


**PL-09**

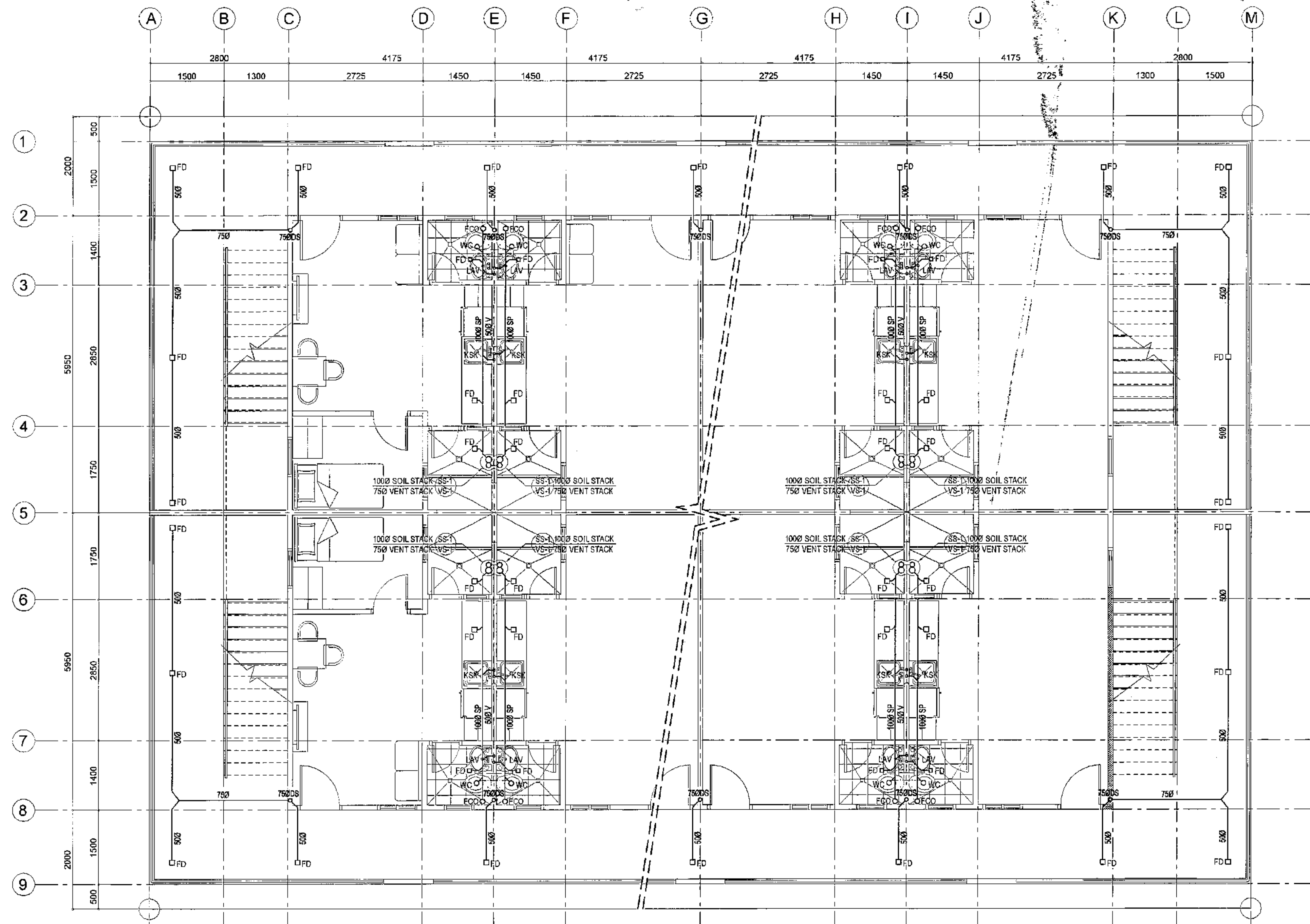




# 1 GROUND FLOOR SANITARY AND STORM DRAIN LAYOUT (BACK TO BACK HOUSING UNITS)


SCALE 1:50 METERS

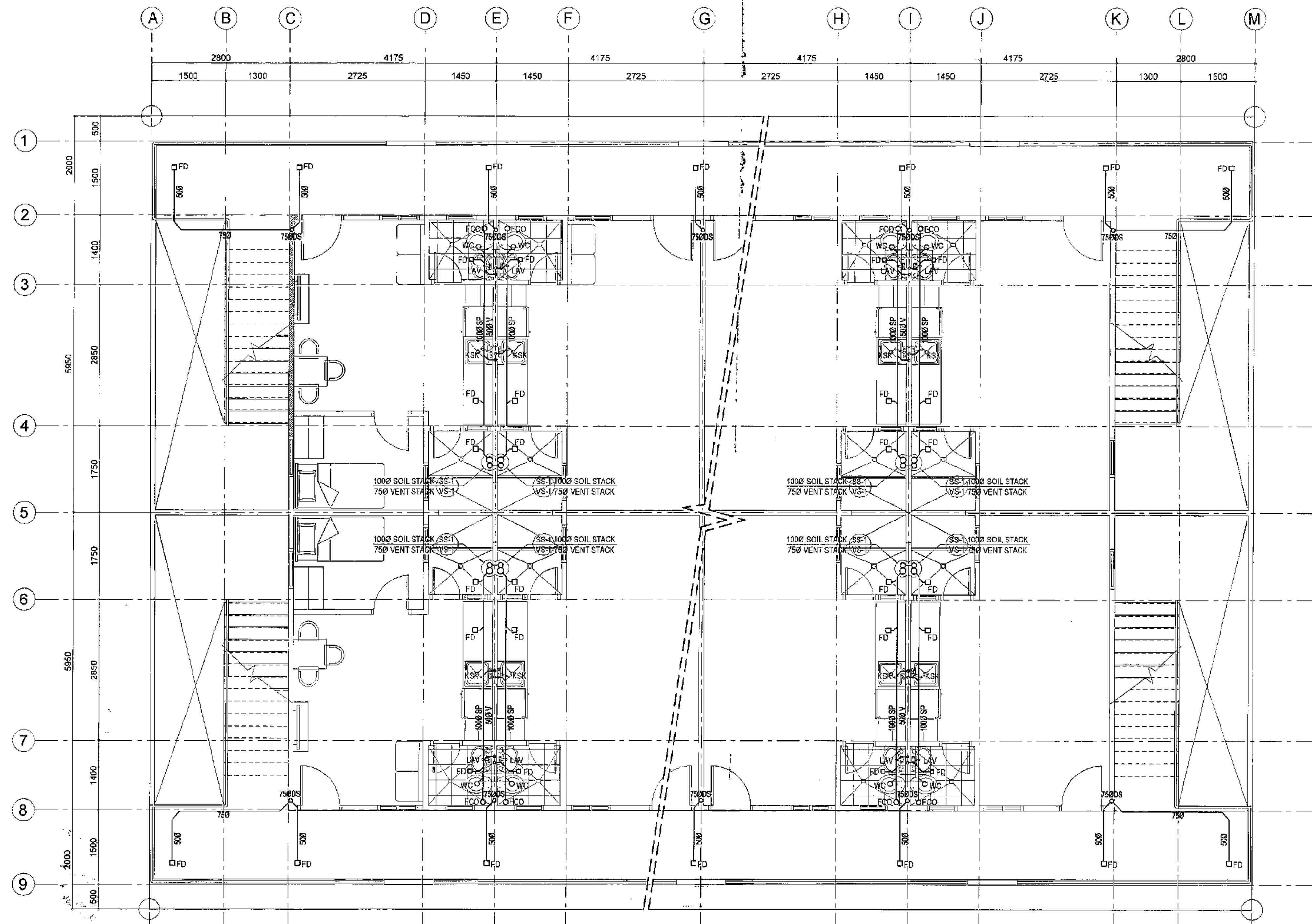
 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> SIP CIVIC CENTER - D (BRO. BMG), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS ONLY TO BE A STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLIGIBLE PROPERTIES &amp; DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE JOB IS FOR WHOLENESS OR PARTIALITY, IT SHALL NOT BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE CONSENT OF THE ARCHITECT. THIS DOCUMENT IS TO BE USED FOR THE REPRODUCTION OF THE PROJECT AND FOR OTHER PROJECTS OF THE BUILDING, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR SANITARY AND STORM DRAIN LAYOUT</p>	<p>PROJECT NO.:</p> <p>DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUCAO CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p><b>PL-10</b></p>
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# 1 SECOND FLOOR SANITARY AND STORM DRAIN LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p><small>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SIGNED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE SUBJECT FOR WHICH THEY ARE MADE, REJECTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE HONORABLE CITY ENGINEER, TO REPRODUCE 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.</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>[Signature]</i> <b>Ar. LUCILLE H. CHUA, uap, piep</b> CITY ARCHITECT</p> <p><i>[Signature]</i> <b>Engr. ISAGANI R. VERZOSA Jr.</b> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i> <b>HON. MA. JOSEFINA G. BELMONTE</b> CITY MAYOR</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p><b>SECOND FLOOR SANITARY AND STORM DRAIN LAYOUT</b></p>	<p>PROJECT NO.:</p> <table> <tr> <td>DATE</td> <td>September 2020</td> </tr> <tr> <td>DRAWN BY</td> <td>Ar. P.N.B</td> </tr> <tr> <td>DESIGNED BY</td> <td>Engr. E.R. SIBUCAO</td> </tr> <tr> <td>CHECKED BY</td> <td>Ar. L.H. CHUA</td> </tr> </table>	DATE	September 2020	DRAWN BY	Ar. P.N.B	DESIGNED BY	Engr. E.R. SIBUCAO	CHECKED BY	Ar. L.H. CHUA	<p>SHEET NO.:</p> <p><b>PL-11</b></p>
DATE	September 2020														
DRAWN BY	Ar. P.N.B														
DESIGNED BY	Engr. E.R. SIBUCAO														
CHECKED BY	Ar. L.H. CHUA														

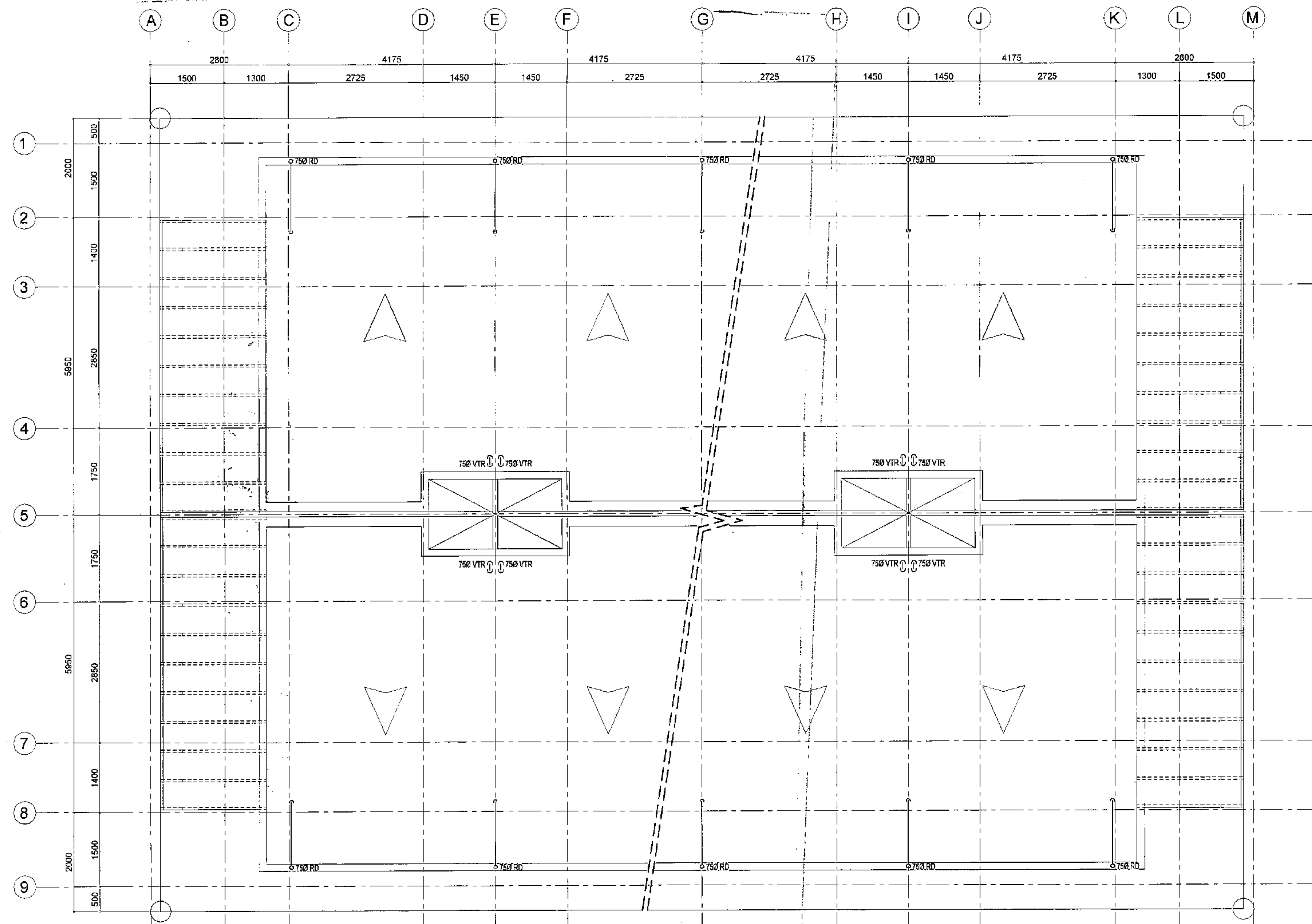


# 1 THIRD FLOOR SANITARY AND STORM DRAIN LAYOUT (BACK TO BACK HOUSING UNITS)

SCALE 1:50 METERS





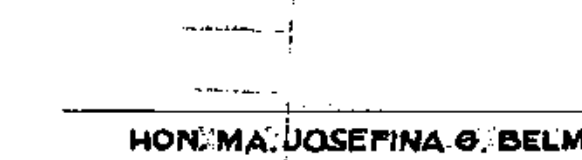
<p>Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D.BRO. Bldg. QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVIDE:</p> <p>DRAWING AND SPECIFICATIONS FULLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE. THE INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE. THE INSTRUMENTS OF SERVICE ARE THE INSTRUMENTS OF SERVICE.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. LUCILLE H. CHUA, uap, pcep</i> CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>THIRD FLOOR SANITARY AND STORM DRAIN LAYOUT</p>	<p>PROJECT NO.:</p>		<p>SHEET NO.:</p> <p><b>PL-12</b></p>
						<p>DATE: September 2020</p>		
						<p>DRAWN BY: Ar. P.N.B.</p> <p>DESIGNED BY: Engr. E.R. SIBUCAO</p> <p>CHECKED BY: Ar. L.H. CHUA</p>		

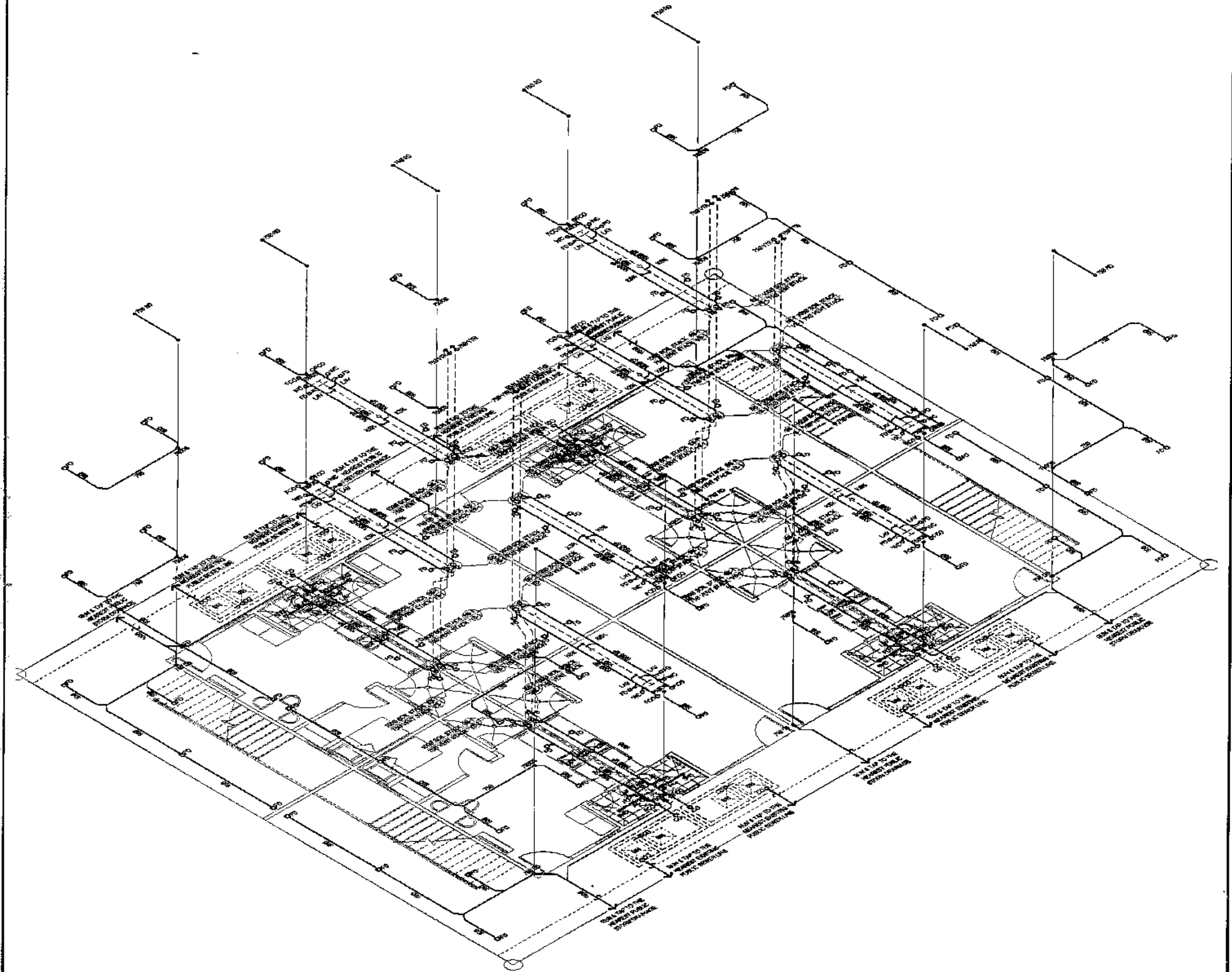
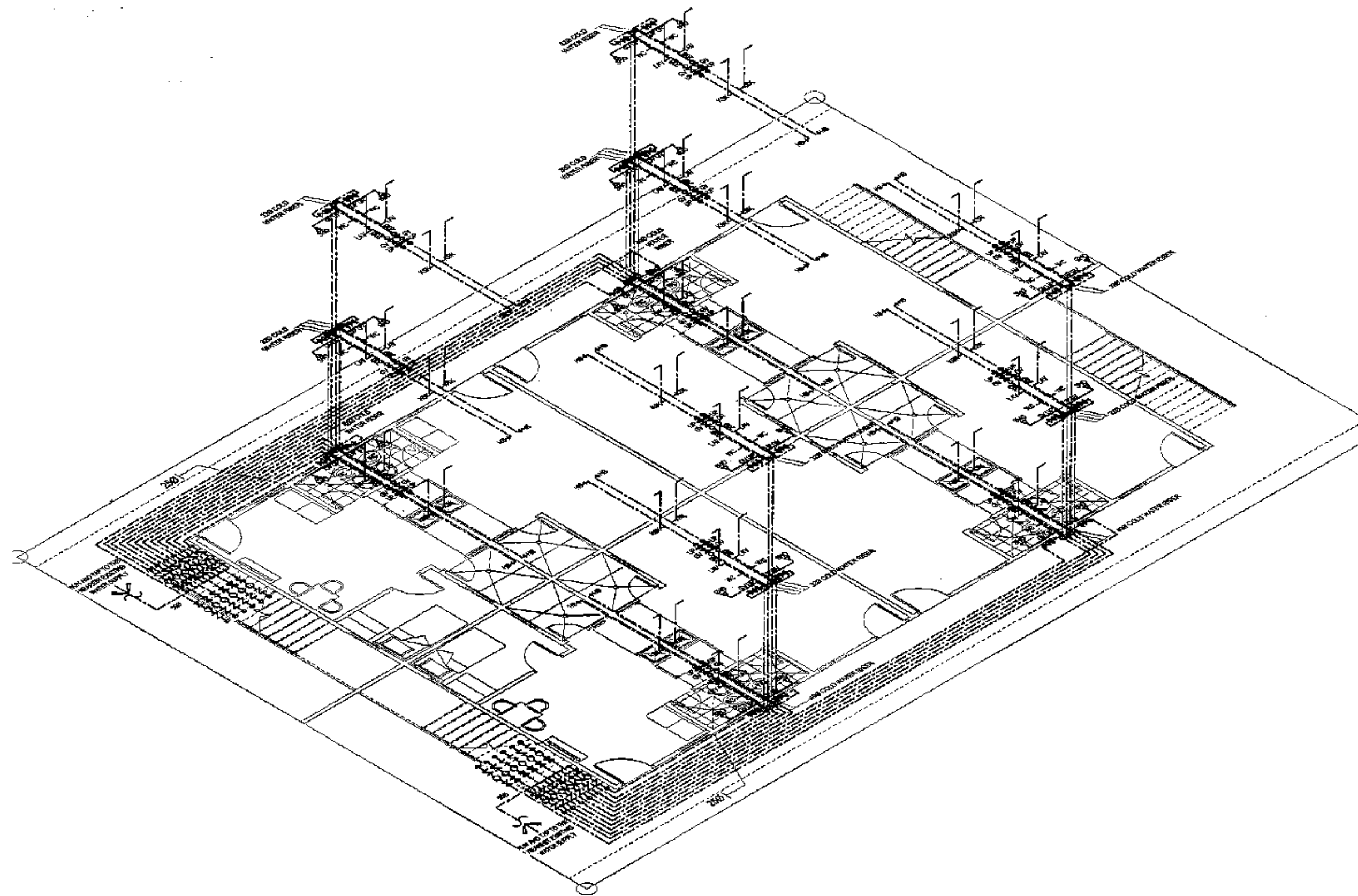




# 1 ROOF STORM DRAIN LAYOUT (BACK TO BACK HOUSING UNITS)


SCALE 1:50 METERS

	Republika ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5th CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILMAN, QUEZON CITY		PROVISO:	RECOMMENDING APPROVAL	APPROVED BY:	PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:
			DRAWINGS AND SPECIFICATIONS ONLY SHOULD BE STAMPED OR SIGNED AS INSTRUMENTS OF SERVICE AND THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE ORIGINATOR OR NOT, THE CITY ARCHITECT DEPARTMENT IS NOT RESPONSIBLE FOR THE CONSEQUENCES OF THE REPEATED USE OF THIS DRAWING FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.	 Ar. LUCILE H. CHUA, uap, piep CITY ARCHITECT	 Engr. SAGANI R. VERZOSA Jr. CIC - CITY ENGINEER	 HON. MA. JOSEFINA G. BELMONTE SECRETARY MAYOR	PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG LOCATION: BRGY. BAGBAG, QUEZON CITY	ROOF STORM DRAIN LAYOUT	DATE: September 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. E.R. SIBUCAO CHECKED BY: Ar. L.H. CHUA



**1 | WATER LINE ISOMETRIC LAYOUT (BACK TO BACK HOUSING UNITS)**

**2 | SANITARY AND STORM DRAIN ISOMETRIC LAYOUT (BACK TO BACK)** SCALE 1:50 METERS

 <p>Republike ng Pilipinas Lungsod ng Quezon <b>CITY ARCHITECT DEPARTMENT</b> 5F CIVIC CENTER - D (BRG. BAGBAG), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p><b>PROVISO:</b></p> <p><small>DRAWING AND SPECIFICATIONS ONLY SERVED, STAMPED OR DRAWN AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXISTING OR NOT, NO REPLACEMENT, 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 REVISION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</small></p>	<p>RECOMMENDING APPROVAL</p>		<p>APPROVED BY:</p>	<p>PROJECT TITLE:</p>	<p>SHEET CONTENTS:</p>	<p>PROJECT NO.:</p>	<p>SHEET NO.:</p>
		<p><i>Ar. LUCILLE H. CHUA, uap, piep</i></p> <p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>	<p><i>Engr. MAGANI R. VERZOSA Jr.</i></p> <p>Engr. MAGANI R. VERZOSA Jr. CIC - CITY ENGINEER</p>	<p><i>HON. MA. JOSEFINA C. BELMONTE</i></p> <p>HON. MA. JOSEFINA C. BELMONTE SECR. CITY MAYOR</p>	<p><b>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.13 AT BRGY. BAGBAG</b></p> <p>LOCATION: BRGY. BAGBAG, QUEZON CITY</p>	<p>WATER LINE ISOMETRIC LAYOUT SANITARY AND STORM DRAIN ISOMETRIC LAYOUT</p>	<p>DATE August 2020</p> <p>DRAWN BY Ar. P.N.B</p> <p>DESIGNED BY Engr. E.R. SIBUCA</p> <p>CHECKED BY Ar. L.H. CHUA</p>	<p><b>PL-14</b></p>
		<p><small>DRAWING AND SPECIFICATIONS ONLY SERVED, STAMPED OR DRAWN AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXISTING OR NOT, NO REPLACEMENT, 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 REVISION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</small></p>						

P270-08

## ***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 HOUSING UNITS NO. 13 ( 3 CLUSTER-54 UNITS)**

**LOCATION : BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY**

**PROJECT NO. : 21 - 00026**

**DURATION : One Hundred Fifty (150) Calendar Days**

***BREAKDOWN OF COST***

ITEM NO.	ITEM OF WORK (DESCRIPTION)	MATERIALS COST	LABOR COST	INDIRECT COST	AGGREGATE COST
I	GENERAL REQUIREMENTS				
II	CLUSTER A				
A	OUTER UNIT (6 UNITS)				
B	INNER UNIT (9 UNITS)				
C	COMMON AREA				
III	CLUSTER B				
A	OUTER UNIT A (3 UNIT)				
B	OUTER UNIT B (3 UNIT)				
C	INNER UNIT A (3 UNIT)				
D	INNER UNIT B (6 UNITS)				
E	COMMON AREA				
IV	CLUSTER C				
A	OUTER UNIT (12 UNITS)				
B	INNER UNIT (12 UNITS)				
C	COMMON AREA				

**TOTAL COST P** \_\_\_\_\_

LUMP SUM BID IN WORDS : \_\_\_\_\_

\_\_\_\_\_

Contractor : \_\_\_\_\_

**BILL OF QUANTITIES**  
(Building Construction/Rehabilitation Project)

**PROJECT TITLE :** PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 13 ( 3 CLUSTER-512 UNITS)

**LOCATION :** BARANGAY BAGBAG, DISTRICT 5, QUEZON CITY

**PROJECT NO. :** 21 - 00026

**DURATION :** One Hundred Fifty (150) Calendar Days

**SCOPE OF WORK :**

1. General requirement include temporary facilities and utilities, billboard, construction safety and health, scaffolding, and clearing, hauling and disposal of construction materials and debris.
2. Site works include site clearing, layout and staking, and earthworks.
3. Civil and Structural Works include concrete works, masonry works, metal fabrication and roofing works
4. Provision of thermal proofing and vapor barrier.
5. Architectural Works include floor finishes, wall finishes, ceiling finishes, carpentry works, and painting works
6. Installation of doors, door jambs, and windows.
7. Installation of electrical roughing-ins, wirings, devices and fixtures.
8. Installation of sanitary/plumbing roughing-ins, equipment, fixtures and accessories.
9. Installation of panelboard and its accessories.
10. Construction of septic tank.
11. All necessary testing of materials and commissioning works must be performed as per standards procedures.

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>I</b>	<b>GENERAL REQUIREMENTS</b>				
	Billboard	1	pc	₱	₱
	Clearing, Hauling and Disposal of Construction Materials and Debris	4	t.l		
	Construction Safety and Health	1	unit		
	Scaffolding (Rental)	799	sq.m.		
	Temporary Electrical and Water Facilities	150	days		
	Temporary Enclosure Around the Construction Area (h=2.4m)	161	l.m.		
			<b>For 3 Cluster</b>	<b>Direct Cost I</b>	₱
<b>II</b>	<b>CLUSTER A</b>				
<b>A</b>	<b>OUTER UNIT (6 UNITS)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Subtotal	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	3	cu.m.	₱	₱
	Slab-On-Fill	3	cu.m.		
	Beam	6	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ, Column	138	kg	₱	₱
	10mmØ, Slab-On-Fill	67	kg		
	10mmØ, Beam	241	kg		
	10mmØ, Suspended Slab	342	kg		
	10mmØ, Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ, Column	313	kg		
	16mmØ, Beam	607	kg		
	Formworks				
	Column	40	sq.m.		
	Beam	72	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	2	l.m.		
	Beam	32	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	140	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One-Face Plastering	26	sq.m.		
	Plastering of Door and Window Opening	11	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		
d	Metal Fabrication				
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	6	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	13	l.m.		
	G.I. Ridge Roll	8	l.m.		
	12.5mm x 300mm Fascia Board	13	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	67	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Tekscrew	3	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	16	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set	₱	₱
	W2 - 1.2m x 0.8m Jalousie Window	6	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	21	pc		
	Concealed Hinges	42	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	127	sq.m.		
	Flat Latex Paint Finish (Interior Walls)	210	sq.m.		
	Flat Latex Paint Finish (Ceiling)	79	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I. 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø, Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary)	3	set		
	Faucet (ordinary)	3	pc		
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Accessories				
	Flexible Hose	3	pc	₱	₱
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	66	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	218	l.m.		
	5.5mm² THHN Wire	436	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more or less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost A	₱
				Labor Cost A	₱
				Direct Cost A	₱
			For Cluster A	Materials Cost A	₱
				Labor Cost A	₱
				For 2 Outer Units	₱
<b>B</b>	<b>INNER UNIT (9 UNITS)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	2	cu.m.	₱	₱
	Slab-On-Fill	3	cu.m.		
	Beam	5	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ Column	115	kg		
	10mmØ Slab-On-Fill	67	kg		
	10mmØ Beam	246	kg		
	10mmØ Suspended Slab	341	kg		
	10mmØ Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column	219	kg		
	16mmØ Beam	494	kg		
	Formworks				



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Column	52	sq.m.		
	Beam	64	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	20	l.m.		
	Beam	28	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face plastering	66	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One-face plastering	45	sq.m.		
	Plastering of Door and Window Opening	9	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
d	Metal Fabrication				
	50mm x100mm x 6.25mm Channel Bar	155	kg		
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.	₱	₱
	G.I. Flashing	5	l.m.		
	G.I. Ridge Roll	6	l.m.		
	12.5mm x 300mm Fascia Board	5	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	27	pc		
	Tekscrew	118	pc		
	Silicon Sealant	2	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	3	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	68	sq.m.		
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary single tub)	3	set		
	Faucet (ordinary)	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
e	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	75	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	248	l.m.		
	5.5mm² THHN Wire	496	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost B	₱
				Labor Cost B	₱
				Direct Cost B	₱
			For Cluster A	Materials Cost B	₱
				Labor Cost B	₱
				For 3 Inner Units	₱



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>C</b>	<b>COMMON AREA</b>				
1.	Site Works				
	Layout and Staking	86	sq.m.	₱	₱
	Site Clearing and Preparation	86	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	20	cu.m.		
				Subtotal	₱
	Soil Treatment	86	sq.m.	₱	₱
	Gravel Bedding	7	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Material Cost 1	₱
				Labor Cost 1	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	3	cu.m.	₱	₱
	Slab-On-Fill	13	cu.m.		
	Beam	16	cu.m.		
	Suspended Slab	11	cu.m.		
	On Site Mix				
	Stairs	4	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Column	134	kg		
	10mmØ Slab-On-Fill	245	kg		
	10mmØ Beam	216	kg		
	10mmØ Suspended Slab	557	kg		
	10mmØ Stairs	489	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column	370	kg		
	16mmØ Beam	134	kg		
	Formworks				
	Column	45	sq.m.		
	Beam	232	sq.m.		
	Suspended Slab	26	sq.m.		
	Stairs	28	sq.m.		
	Scaffolding and Shoring				
	Column	17	l.m.		
	Beam	97	l.m.		
	Suspended Slab	26	sq.m.		
	Stairs	28	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	59	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	86	sq.m.		
	Cementitious Capillary Type Waterproofing	195	sq.m.		
d	Metal Fabrication				
	38mm Ø B.I. Pipe	791	kg		
	38mm x 5mm Flat Bar	441	kg		
	12mm Square Bar	346	kg		
	50mm x 100mm Tubular Bar	545	kg		
	12mmØ Sagrod	54	kg		
	20mm Ø x 150mm Long Dyna Bolt	42	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	3	box		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	103	sq.m.	₱	₱
	G.I. Flashing	54	l.m.		
	G.I. Ridge Roll	11	l.m.		
	12.5mm x 300mm Fascia Board	54	l.m.		
	6mm thk Double-Sided Thermal Insulation	95	sq.m.		
	Rivets	272	pc		
	Tekscrew	500	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	59	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	59	sq.m.		
	Fat Latex Paint Finish (Ceiling)	34	sq.m.		
	Epoxy Enamel Paint Finish (Steel Surfaces)	97	sq.m.		
	Rubberized Paint Finish (Floor Finish)	121	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	12	pc	₱	₱
	75mm Ø PVC Pipe with Hub	12	pc		
	100mm Ø PVC Pipe with Hub	12	pc		
	50mm Ø x 50mm Ø Wye	6	pc		
	75mm Ø x 50mm Ø Wye	24	pc		
	75mm Ø x 75mm Ø Wye	12	pc		
	100mm Ø x 75mm Ø Wye	6	pc		
	100mm Ø x 100mm Ø Wye	3	pc		
	75mm Ø Cleanout	12	pc		
	50mm Ø P-Trap	30	pc		
b	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	50	l.m.		
c	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	2	pc		
	Silicon Sealant	1	tube		
				Materials Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost 4	
				Direct Cost 4	₱
5.	Electrical Works				
a	Roughing-Ins				
	90mmØ IMC Pipe	2	pc	₱	₱
	90mmØ IMC Coupling	2	pc		
	90mmØ IMC Elbow	2	pc		
	90mmØ IMC Locknut & Bushing	2	pair		
	90mmØ Weatherproof Entrance Cap, Diecast	1	pc		
	Wire and Circuit Breaker Gutter, 200mm x 300mm x 4500mm	1	assy		
	20mmØ x 3m, Copper Bonded Ground Rod with Ground Clamp	1	set		
b	Wires and Cables				
	50mm² TW Wire	10	l.m.		
	250mm² THHN Wire	22	l.m.		
c	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	5	l.m.		
	Vertical layout of pipe	5	l.m.		
d	Panelboard				
	MCB	1	Assy		
	Main: 500 AT 2P 42 KAIC @ 240V MCCB w/ Ground Terminal				
	Enclosure: NEMA 3R with Metal Deadfront				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Miscellaneous and Consumables				
	16mm x 250mm Oval Eyebolt	1	pc.	₱	₱
	Electrical Tape	1	roll		
	Masking Tape	1	pc		
	Rubber Tape	2	roll		
	Waste Cloth	1	kg		
	Welding Rod	1	kg		
				Material Cost 5	₱
				Labor Cost 5	
				Direct Cost 5	₱
			For Cluster A	Materials Cost C	₱
				Labor Cost C	
				For 1 Common Area	₱
			For Cluster A	Materials Cost II	₱
				Labor Cost II	
				For Cluster A	₱
III	CLUSTER B				
A	OUTER UNIT A (3 UNIT)				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	4	cu.m.		
	Footing	33	cu.m.		
	Tie Beam	14	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱ 69.00	₱
	Gravel Bedding	2	cu.m.	900.00	
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
	Backfill and Compaction	36	cu.m.	₱ 455.00	₱
				Subtotal	₱
				Materials Cost	₱
				Labor Cost	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column Footing	5	cu.m.	₱	₱
	Tie & Grade Beam	4	cu.m.		
	Column	3	cu.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Slab-On-Fill	3	cu.m.		
	Beam	6	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ, Tie & Grade Beam	89	kg		
	10mmØ, Column	138	kg		
	10mmØ, Slab-On-Fill	67	kg		
	10mmØ, Beam	286	kg		
	10mmØ, Suspended Slab	342	kg		
	10mmØ, Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ, Footing Column	266	kg		
	16mmØ, Tie & Grade Beam	228	kg		
	16mmØ, Column	313	kg		
	16mmØ, Beam	835	kg		
	Formworks				
	Tie & Grade Beam	40	sq.m.		
	Column	40	sq.m.		
	Beam	72	sq.m.		
	Suspended Slab	11	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Countertop	1	sq.m.	₱	₱
	Scaffolding and Shoring				
	Tie & Grade Beam	48	l.m.		
	Column	16	l.m.		
	Beam	32	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	140	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One-Face Plastering	26	sq.m.		
	Plastering of Door and Window Opening	11	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		
d	Metal Fabrication				
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	13	l.m.		
	G.I. Ridge Roll	8	l.m.		
	12.5mm x 300mm Fascia Board	13	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	67	pc		
	Tekscrew	118	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	6	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	117	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I. 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
c	25mm Ø Male Adaptor	9	pc		
	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
d	25mm Ø Check Valve	3	pc		
	Fixtures (Water Efficient)				
	25mm Ø, Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary)	3	set		
	Faucet (ordinary)	3	pc		
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
f	5GPM Plastic Grease Trap with Accessories	3	set		
	Pipe Hangers and Supports				
g	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	66	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	218	l.m.		
	5.5mm² THHN Wire	436	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more or less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱ 7,592.70	₱
				Direct Cost 6	₱
				Materials Cost A	₱
				Labor Cost A	₱
				Direct Cost A	₱
			For Cluster B	Materials Cost A	₱
				Labor Cost A	₱
				For 1 Outer Unit A	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>B</b>	<b>OUTER UNIT B (3 UNIT)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Footing	24	cu.m.		
	Wall Footing	9	cu.m.		
	Slab on Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
	Backfill and Compaction	30	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost	₱
				Labor Cost	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column Footing	7	cu.m.	₱	₱
	Wall Footing	4	cu.m.		
	Column	3	cu.m.		
	Slab-On-Fill	3	cu.m.		
	Beam	6	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ, Wall Footing	75	kg		
	10mmØ, Column	138	kg		
	10mmØ, Slab-On-Fill	67	kg		
	10mmØ, Beam	286	kg		
	10mmØ, Suspended Slab	342	kg		
	10mmØ, Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ, Footing Column	370	kg		
	16mmØ, Column	313	kg		
	16mmØ, Beam	607	kg		
	Formworks				
	Column	40	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Beam	72	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	16	l.m.		
	Beam	32	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	140	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One-Face Plastering	26	sq.m.		
	Plastering of Door and Window Opening	11	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.	₱	₱
	Cementitious Capillary Type Waterproofing	14	sq.m.		
d	Metal Fabrication				
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	13	l.m.		
	G.I. Ridge Roll	8	l.m.		
	12.5mm x 300mm Fascia Board	13	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	67	pc		
	Tekscrew	118	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	6	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	3	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	6	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	3	pc		
	Door Knob (Ordinary)	4	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	6	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	117	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I. 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø, Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary)	3	set		
	Faucet (ordinary)	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
e	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	66	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	218	l.m.		
	5.5mm² THHN Wire	436	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more or less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost B	₱
				Labor Cost B	₱
				Direct Cost B	₱
			For Cluster B	Materials Cost B	₱
				Labor Cost B	₱
				For 1 Outer Unit B	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>C</b>	<b>INNER UNIT A (3 UNIT)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Column Footing	48	cu.m.		
	Tie Beam	19	cu.m.		
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
	Backfill and Compaction	52	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost	₱
				Labor Cost	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column Footing	7	cu.m.	₱	₱
	Tie & Grade Beam	4	cu.m.		
	Column	2	cu.m.		
	Slab-On-Fill	3	cu.m.		
	Beam	5	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ Tie & Grade Beam	89	kg		
	10mmØ Column	97	kg		
	10mmØ Slab-On-Fill	67	kg		
	10mmØ Beam	246	kg		
	10mmØ Suspended Slab	341	kg		
	10mmØ Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column Footing	370	kg		
	16mmØ Tie & Grade Beam	228	kg		
	16mmØ Column	219	kg		
	16mmØ Beam	494	kg		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Formworks				
	Tie & Grade Beam	48	sq.m.		
	Column	52	sq.m.		
	Beam	64	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Tie & Grade Beam	22	l.m.		
	Column	20	l.m.		
	Beam	28	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two- plastering	66	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One- plastering	45	sq.m.		
	Plastering of Door and Window Opening	9	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
d	Metal Fabrication				
	50mm x100mm x 6.25mm Channel Bar	155	kg	₱	₱
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	5	l.m.		
	G.I. Ridge Roll	6	l.m.		
	12.5mm x 300mm Fascia Board	5	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	27	pc		
	Tekscrew	118	pc		
	Silicon Sealant	2	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	3	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	68	sq.m.		
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary single tub)	3	set		
	Faucet (ordinary)	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
e	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	75	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	248	l.m.		
	5.5mm² THHN Wire	496	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy	₱	₱
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost C	₱
				Labor Cost C	₱
				Direct Cost C	₱
			For Cluster B	Materials Cost C	₱
				Labor Cost C	₱
				For 1 Inner Unit A	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>D</b>	<b>INNER UNIT B (6 UNITS)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Column Footing	18	cu.m.		
	Wall Footing	7	cu.m.		
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
	Backfill and Compaction	27	cu.m.	₱	₱
				Subtotal	₱
				Materials Cost	₱
				Labor Cost	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column Footing	3	cu.m.	₱	₱
	Wall Footing	3	cu.m.		
	Column	2	cu.m.		
	Slab-On-Fill	3	cu.m.		
	Beam	5	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Reinforcing Steel Bar				
	10mmØ Wall Footing	56	kg		
	10mmØ Column	97	kg		
	10mmØ Slab-On-Fill	67	kg		
	10mmØ Beam	246	kg		
	10mmØ Suspended Slab	341	kg		
	10mmØ Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column Footing	143	kg		
	16mmØ Column	219	kg		
	16mmØ Beam	494	kg		
	Formworks				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Column	51	sq.m.		
	Beam	64	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	20	l.m.		
	Beam	28	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-plastering	66	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One-plastering	45	sq.m.		
	Plastering of Door and Window Opening	9	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
d	Metal Fabrication				
	50mm x100mm x 6.25mm Channel Bar	155	kg	₱	₱
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	5	l.m.		
	G.I. Ridge Roll	6	l.m.		
	12.5mm x 300mm Fascia Board	5	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	27	pc		
	Tekscrew	118	pc		
	Silicon Sealant	2	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	3	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	68	sq.m.		
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary single tub)	3	set		
	Faucet (ordinary)	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
e	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	75	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	248	l.m.		
	5.5mm² THHN Wire	496	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost D	₱
				Labor Cost D	₱
				Direct Cost D	₱
			For Cluster B	Materials Cost B	₱
				Labor Cost B	₱
				For 2 Inner Units B	₱
<b>E</b>	<b>COMMON AREA</b>				
1.	Site Works				
	Layout and Staking	86	sq.m.	₱	₱
	Site Clearing and Preparation	86	sq.m.		
	Excavation for Structures				
	Column Footing	54	cu.m.		
	Tie Beam	10	cu.m.		
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Soil Treatment	86	sq.m.	₱	₱
	Gravel Bedding	7	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
	Backfill and Compaction	58	cu.m.	₱	₱
				Subtotal	₱
				Material Cost 1	₱
				Labor Cost 1	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column Footing	7	cu.m.	₱	₱
	Tie & Grade Beam	3	cu.m.		
	Column	3	cu.m.		
	Slab-On-Fill	13	cu.m.		
	Beam	16	cu.m.		
	Suspended Slab	11	cu.m.		
	On Site Mix				
	Stairs	4	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Tie & Grade Beam	81	kg		
	10mmØ Column	134	kg		
	10mmØ Slab-On-Fill	245	kg		
	10mmØ Beam	216	kg		
	10mmØ Suspended Slab	557	kg		
	10mmØ Stairs	489	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column Footing	456	kg		
	16mmØ Tie & Grade Beam	209	kg		
	16mmØ Column	370	kg		
	16mmØ Beam	1,414	kg		
	Formworks				
	Tie & Grade Beam	37	sq.m.		
	Column	45	sq.m.		
	Beam	232	sq.m.		
	Suspended Slab	26	sq.m.		
	Stairs	28	sq.m.		
	Scaffolding and Shoring				
	Column	17	l.m.		
	Beam	97	l.m.		
	Suspended Slab	26	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Stairs	28	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	59	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	86	sq.m.		
	Cementitious Capillary Type Waterproofing	195	sq.m.		
d	Metal Fabrication				
	38mm Ø B.I. Pipe	791	kg		
	38mm x 5mm Flat Bar	441	kg		
	12mm Square Bar	346	kg		
	50mm x 100mm Tubular Bar	545	kg		
	12mmØ Sagrod	54	kg		
	20mm Ø x 150mm Long Dyna Bolt	42	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	3	box		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	103	sq.m.	₱	₱
	G.I. Flashing	54	l.m.		
	G.I. Ridge Roll	11	l.m.		
	12.5mm x 300mm Fascia Board	54	l.m.		
	6mm thk Double-Sided Thermal Insulation	95	sq.m.		
	Rivets	272	pc		
	Tekscrew	500	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	59	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	59	sq.m.		
	Fat Latex Paint Finish (Ceiling)	34	sq.m.		
	Epoxy Enamel Paint Finish (Steel Surfaces)	97	sq.m.		
	Rubberized Paint Finish (Floor Finish)	121	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	12	pc	₱	₱
	75mm Ø PVC Pipe with Hub	12	pc		
	100mm Ø PVC Pipe with Hub	12	pc		
	50mm Ø x 50mm Ø Wye	6	pc		
	75mm Ø x 50mm Ø Wye	24	pc		
	75mm Ø x 75mm Ø Wye	12	pc		
	100mm Ø x 75mm Ø Wye	6	pc		
	100mm Ø x 100mm Ø Wye	3	pc		
	75mm Ø Cleanout	12	pc		
	50mm Ø P-Trap	30	pc		
b	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	50	l.m.		
c	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	2	pc		
	Silicon Sealant	1	tube		
				Materials Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost 4	₱
				Direct Cost 4	₱
5.	Electrical Works				
a	Roughing-Ins				
	90mmØ IMC Pipe	2	pc	₱	₱
	90mmØ IMC Coupling	2	pc		
	90mmØ IMC Elbow	2	pc		
	90mmØ IMC Locknut & Bushing	2	pair		
	90mmØ Weatherproof Entrance Cap, Diecast	1	pc		
	Wire and Circuit Breaker Gutter, 200mm x 300mm x 4500mm	1	assy		
	20mmØ x 3m, Copper Bonded Ground Rod with Ground Clamp	1	set		
b	Wires and Cables				
	50mm² TW Wire	10	l.m.		
	250mm² THHN Wire	22	l.m.		
c	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	5	l.m.		
	Vertical layout of pipe	5	l.m.		
d	Panelboard				
	MCB	1	Assy		
	Main: 500 AT 2P 42 KAIC @ 240V MCCB w/ Ground Terminal				
	Enclosure: NEMA 3R with Metal Deadfront				



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Miscellaneous and Consumables				
	16mm x 250mm Oval Eyebolt	1	pc.	₱	₱
	Electrical Tape	1	roll		
	Masking Tape	1	pc		
	Rubber Tape	2	roll		
	Waste Cloth	1	kg		
	Welding Rod	1	kg		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
			For Cluster B	Materials Cost E	₱
				Labor Cost E	₱
				For 1 Common Area	₱
			For Cluster B	Materials Cost II	₱
				Labor Cost II	₱
				For Cluster B	₱
IV	CLUSTER C				
A	OUTER UNIT (12 UNITS)				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	3	cu.m.	₱	₱
	Slab-On-Fill	3	cu.m.		
	Beam	6	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ, Column	138	kg		
	10mmØ, Slab-On-Fill	67	kg		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	10mmØ, Beam	241	kg		
	10mmØ, Suspended Slab	342	kg		
	10mmØ, Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ, Column	313	kg		
	16mmØ, Beam	607	kg		
	Formworks				
	Column	40	sq.m.		
	Beam	72	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	16	l.m.		
	Beam	32	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	140	sq.m.	₱	₱
	100mm CHB Laying including Mortar, Reinforcement and One-Face Plastering	26	sq.m.		
	Plastering of Door and Window Opening	11	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		
d	Metal Fabrication				
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.		
	G.I. Flashing	13	l.m.		
	G.I. Ridge Roll	8	l.m.		
	12.5mm x 300mm Fascia Board	13	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	67	pc		
	Tekscrew	118	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	6	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	21	pc		
	Concealed Hinges	42	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	117	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I. 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
c	25mm Ø Male Adaptor	9	pc		
	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
d	25mm Ø Check Valve	3	pc		
	Fixtures (Water Efficient)				
	25mm Ø, Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary)	3	set		
	Faucet (ordinary)	3	pc		
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
f	5GPM Plastic Grease Trap with Accessories	3	set		
	Pipe Hangers and Supports				
g	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	66	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	218	l.m.		
	5.5mm² THHN Wire	436	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more or less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				
	400cc Solvent Cement	2	can		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost A	₱
				Labor Cost A	₱
				Direct Cost A	₱
				Materials Cost A	₱
				Labor Cost A	₱
				Direct Cost A	₱
				Materials Cost A	₱
				Labor Cost A	₱
				For 4 Outer Units	₱
<b>B</b>	<b>INNER UNIT (12 UNITS)</b>				
1.	Site Works				
	Layout and Staking	25	sq.m.	₱	₱
	Site Clearing and Preparation	25	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	4	cu.m.		
				Subtotal	₱
	Soil Treatment	25	sq.m.	₱	₱
	Gravel Bedding	2	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
a	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	2	cu.m.	₱	₱
	Slab-On-Fill	3	cu.m.		
	Beam	5	cu.m.		
	Suspended Slab	3	cu.m.		
	On Site Mix				
	Countertop	1	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	10mmØ Reinforcing Steel Bar				
	10mmØ Column	97	kg		
	10mmØ Slab-On-Fill	67	kg		
	10mmØ Beam	246	kg		
	10mmØ Suspended Slab	341	kg		
	10mmØ Countertop	19	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column	219	kg		
	16mmØ Beam	494	kg		
	Formworks				
	Column	52	sq.m.		
	Beam	64	sq.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
	Scaffolding and Shoring				
	Column	20	l.m.		
	Beam	30	l.m.		
	Suspended Slab	11	sq.m.		
	Countertop	1	sq.m.		
b	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two- plastering	66	sq.m.		
	100mm CHB Laying including Mortar, Reinforcement and One- plastering	45	sq.m.		
	Plastering of Door and Window Opening	9	sq.m.		
c	Thermal and Moisture Protection				
	Vapor Barrier	25	sq.m.		
	Cementitious Capillary Type Waterproofing	14	sq.m.		
d	Metal Fabrication				
	50mm x100mm x 6.25mm Channel Bar	155	kg		
	50mm x 50mm x 6.25mm Angle Bar	60	kg		
	50mm x 50mm x 4.7mm Angle Bar	211	kg		
	12mmØ Sagrod	7	kg		
	20mm Ø x 150mm Long Dyna Bolt	13	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	1	box		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
e	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	27	sq.m.	₱	₱
	G.I. Flashing	5	l.m.		
	G.I. Ridge Roll	6	l.m.		
	12.5mm x 300mm Fascia Board	5	l.m.		
	6mm thk Double-Sided Thermal Insulation	27	sq.m.		
	Rivets	27	pc		
	Tekscrew	118	pc		
	Silicon Sealant	2	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
a	Floor Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	7	sq.m.	₱	₱
b	Wall Partitioning and Finish				
	300mm x 300mm Ceramic Tiles (Ordinary)	15	sq.m.		
	300mm x 300mm Homogeneous Tiles (Ordinary)	5	sq.m.		
	6mm thk Grooves in Plain Cement Finish	13	l.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
c	Installation of Doors				
	D1 - 2.1m x 0.9m Flush Door with Groove (Ordinary)	3	set	₱	₱
	D2 - 2.1m x 0.7m PVC Door (Ordinary)	6	set		
	Door Jamb - D1 Flush Door with Groove (Ordinary)	3	set		
	Hardware and Accessories				
	Door Hinge (Ordinary)	27	pc		
	Door Knob (Ordinary)	9	pc		
d	Installation of Windows				
	W1 - 1.2m x 1.3m Jalousie Window	3	set		
	W2 - 1.2m x 0.8m Jalousie Window	3	set		
	W3 - 1.2m x 0.5m Jalousie Window	3	set		
	W4 - 0.5m x 0.5m Jalousie Window	3	set		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
e	Carpentry Works				
	12mm thk Ordinary Plywood	8	pc	₱	₱
	50mm x 50mm Good Lumber	7	bd.ft.		
	Hardware and Accessories				
	Assorted CWN	1	kg		
	Cabinet Handles	42	pc		
	Concealed Hinges	21	pc		
	Sanding Paper	15	pc		
	Wood Glue	2	liter		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
f	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	68	sq.m.		
	Flat Latex Paint Finish (Interior Walls)	200	sq.m.		
	Flat Latex Paint Finish (Ceiling)	51	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
4.	Sanitary/Plumbing Works				
a	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	13	pc	₱	₱
	75mm Ø PVC Pipe with Hub	4	pc		
	100mm Ø PVC Pipe with Hub	7	pc		
	100mm Ø x 50mm Ø Wye	19	pc		
	100mm Ø x 75mm Ø Wye	4	pc		
	100mm Ø x 100mm Ø Wye	4	pc		
	50mm Ø x 50mm Ø Tee	38	pc		
	75mm Ø x 50mm Ø Tee	6	pc		
	100mm Ø x 50mm Ø Tee	7	pc		
	50mm Ø 1/4 Bend	45	pc		
	50mm Ø 1/8 Bend	57	pc		
	75mm Ø 1/8 Bend	16	pc		
	100mm Ø 1/8 Bend	13	pc		
	100mm Ø Cleanout	5	pc		
	50mm Ø P-Trap	19	pc		
b	Waterline System				
	20mm Ø PPR Pipe PN16	14	pc		
	25mm Ø PPR Pipe PN16	11	pc		
	25mm Ø G.I Pipe sch. 40	1	pc		
	50mm Ø G.I Pipe sch. 40	1	pc		
	20mm Ø x 20mm Ø PPR Tee Equal	20	pc		
	25mm Ø x 25mm Ø PPR Tee Equal	5	pc		
	50mm Ø x 25mm Ø G.I Tee Unequal	3	pc		
	25mm Ø x 20mm Ø PPR Reducer	7	pc		
	20mm Ø PPR 90° Elbow	38	pc		
	25mm Ø PPR 90° Elbow	11	pc		
	25mm Ø G.I 90° Elbow	4	pc		
	20mm Ø x 12mm Ø Female Threaded Tee	16	pc		
	20mm Ø End Cap	16	pc		
	20mm Ø Union Patent	6	pc		
	20mm Ø Coupling	23	pc		
	25mm Ø Coupling	14	pc		
	20mm Ø Male Adaptor	26	pc		
	25mm Ø Male Adaptor	9	pc		
c	Valves and Appurtenances				
	20mm Ø Gate Valve PPR	6	pc		
	25mm Ø Gate Valve PPR	3	pc		
	25mm Ø Check Valve	3	pc		
d	Fixtures (Water Efficient)				
	25mm Ø Water Meter	3	pc		
	Water Closet, Tank Type (ordinary)	3	set		
	Lavatory, Wall Hung (ordinary)	3	set		
	Stainless Kitchen Sink (ordinary single tub)	3	set		
	Faucet (ordinary)	3	pc		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	Lavatory Faucet (ordinary)	3	pc		
	Kitchen Sink Faucet (ordinary)	3	pc		
	Telephone Shower Set (ordinary)	3	set		
e	Accessories				
	Flexible Hose	3	pc		
	Single-Way Angle Valve	3	pc		
	100mm Ø x 100mm Ø Floor Drain	12	pc		
	5GPM Plastic Grease Trap with Accessories	3	set		
f	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	18	l.m.		
g	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	1	pc		
	Silicon Sealant	3	tube		
	Teflon Tape	6	roll		
	Waste Cloth	1	kg		
				Material Cost 4	₱
				Labor Cost 4	₱
				Direct Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
5.	Electrical Works				
a	Roughing-Ins				
	20mmØ Flexible Metal Conduit	45	l.m.	₱	₱
	20mmØ PVC Pipe	96	pc		
	25mmØ PVC Pipe	75	pc		
	25mmØ IMC Pipe	1	pc		
	15mmØ Straight Connector with Locknut	42	pc		
	20mmØ PVC Adaptor	114	pc		
	20mmØ PVC Elbow	30	pc		
	20mmØ PVC Locknut & Bushing	114	pair		
	25mmØ PVC Adaptor	6	pc		
	25mmØ PVC Elbow	6	pc		
	25mmØ PVC Locknut & Bushing	6	pair		
	25mmØ IMC Coupling	6	pc		
	25mmØ IMC Locknut & Bushing	8	pair		
	50mm x 100mm Metal Utility Box	36	pc		
	100mm x 100mm Metal Junction Box with Cover	21	pc		
b	Wires and Cables				
	2.0mm² TW Wire	2	roll		
	3.5mm² THHN Wire	4	roll		
	Feeder Wire				
	5.5mm² TW Wire	248	l.m.		
	5.5mm² THHN Wire	496	l.m.		
c	Lighting Fixtures (Energy Efficient)				
	9W LED Bulb	21	pc		
d	Wiring Devices				
	100mmØ Receptacle	21	pc		
	Outlet with Grounding , Two-gang	18	pc		
	Outlet with Grounding , Two-gang, Weatherproof type	3	pc		
	Outlet with Grounding , One-gang for ACU	3	pc		
	Switch w/ plate & cover, One pole	6	pc		
	Switch w/ plate & cover, Two pole	3	pc		
	Switch w/ plate & cover, Three pole	3	pc		
e	Panelboard				
	LPP	3	Assy		
	Main: 30 AT 2P 10 KAIC @ 240V				
	Branches: 3 - 20 AT 2P BOLT ON w/ Ground Terminal				
	Enclosure: NEMA 1				
	CB				
	30 AT, 2P, BOLT ON	3	pc		
f	Kilowatt-hour Meter (Submeter)	3	pc		
g	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	39	l.m.		
	Vertical layout of pipe	8	l.m.		
h	Miscellaneous and Consumables				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
	400cc Solvent Cement	2	can		
	All-Around Sealant	1	qrt		
	Electrical Tape	9	roll		
	GI Tie Wire, Ga. 16 (for cable pulling)	1	kg		
	Hacksaw Blade	6	pc		
	Masking Tape	1	pc		
	Pulling Lubricant	1	can		
	Rubber Tape	3	roll		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
6.	Utility and Ancillary Works				
	Septic Tank (2.2m L x 1.0m W x 1.95m D)	5	cu.m.	₱	₱
				Direct Cost 6	₱
				Materials Cost III	₱
				Labor Cost III	₱
				Direct Cost III	₱
			For Cluster C	Materials Cost B	₱
				Labor Cost B	₱
				For 4 Inner Units	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
<b>C</b>	<b>COMMON AREA</b>				
1.	Site Works				
	Layout and Staking	78	sq.m.	₱	₱
	Site Clearing and Preparation	78	sq.m.		
	Excavation for Structures				
	Slab-On-Fill	17	cu.m.		
				Subtotal	₱
	Soil Treatment	78	sq.m.	₱	₱
	Gravel Bedding	78	cu.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Material Cost 1	₱
				Labor Cost 1	₱
				Direct Cost 1	₱
2.	Civil/Structural Works				
A.	Concrete Works				
	Ready Mix 21 MPa, 3/4" Gravel, 28 days				
	Column	3	cu.m.	₱	₱
	Slab-On-Fill	12	cu.m.		
	Beam	16	cu.m.		
	Suspended Slab	11	cu.m.		
	On Site Mix				
	Stairs	4	cu.m.		
	Reinforcing Steel Bars				
	Grade 40 Reinforcing Steel Bar with G.I. Tie Wire #16				
	10mmØ Column	134	kg		
	10mmØ Slab-On-Fill	245	kg		
	10mmØ Beam	216	kg		
	10mmØ Suspended Slab	557	kg		
	10mmØ Stairs	489	kg		
	Grade 60 Reinforcing Steel Bar with G.I. Tie Wire #16				
	16mmØ Column	370	kg		
	16mmØ Beam	216	kg		
	Formworks				
	Column	45	sq.m.		
	Beam	232	sq.m.		
	Suspended Slab	26	sq.m.		
	Stairs	28	sq.m.		
	Scaffolding and Shoring				
	Column	17	l.m.		
	Beam	96.55	l.m.		
	Suspended Slab	26	sq.m.		
	Stairs	28	sq.m.		



ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
B.	Masonry Works				
	100mm CHB Laying including Mortar, Reinforcement and Two-Face Plastering	59	sq.m.		
C.	Thermal and Moisture Protection				
	Vapor Barrier	78	sq.m.		
	Cementitious Capillary Type Waterproofing	195	sq.m.		
D.	Metal Fabrication				
	38mm Ø B.I. Pipe	689	kg		
	38mm x 5mm Flat Bar	416	kg		
	12mm Square Bar	346	kg		
	50mm x 100mm Tubular Bar	545	kg		
	12mmØ Sagrod	54	kg		
	20mm Ø x 150mm Long Dyna Bolt	42	pc		
	Miscellaneous and Consumables				
	Assorted Metal Drill Bit	3	pc		
	Cut Off Blade	3	pc		
	Grinding Disc Metal	3	pc		
	Welding Rod	3	box		

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
E.	Roofing Works				
	Pre-Painted Rib Type G.I Roofing	95	sq.m.	₱	₱
	G.I. Flashing	54	l.m.		
	G.I. Ridge Roll	54	l.m.		
	12.5mm x 300mm Fascia Board	54	l.m.		
	6mm thk Double-Sided Thermal Insulation	95	sq.m.		
	Rivets	272	pc		
	Tekscrew	500	pc		
	Silicon Sealant	3	tube		
				Material Cost 2	₱
				Labor Cost 2	₱
				Direct Cost 2	₱
3.	Architectural Works				
A.	Painting Works (2 Coats)				
	Elastomeric Paint Finish (Exterior Walls)	59	sq.m.	₱	₱
	Flat Latex Paint Finish (Interior Walls)	59	sq.m.		
	Fat Latex Paint Finish (Ceiling)	34	sq.m.		
	Epoxy Enamel Paint Finish (Steel Surfaces)	97	sq.m.		
	Rubberized Paint Finish (Floor Finish)	121	sq.m.		
				Materials Cost	₱
				Labor Cost	₱
				Subtotal	₱
				Materials Cost 3	₱
				Labor Cost 3	₱
				Direct Cost 3	₱
4.	Sanitary/Plumbing Works				
A.	Sewer Line / Storm Drainage System				
	50mm Ø PVC Pipe with Hub	12	pc	₱	₱
	75mm Ø PVC Pipe with Hub	12	pc		
	100mm Ø PVC Pipe with Hub	12	pc		
	50mm Ø x 50mm Ø Wye	6	pc		
	75mm Ø x 50mm Ø Wye	24	pc		
	75mm Ø x 75mm Ø Wye	12	pc		
	100mm Ø x 75mm Ø Wye	6	pc		
	100mm Ø x 100mm Ø Wye	3	pc		
	75mm Ø Cleanout	12	pc		
	50mm Ø P-Trap	30	pc		
B.	Pipe Hangers and Supports				
	For horizontal pipes greater than 25mm Ø (1m interval)	50	l.m.		
C.	Miscellaneous and Consumables				
	1000cc All-Around Sealant	1	can		
	400cc Solvent Cement	1	can		
	Hacksaw Blade	2	pc		
	Silicon Sealant	1	tube		
				Materials Cost 4	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
				Labor Cost 4	₱
				Direct Cost 4	₱
5.	Electrical Works				
A.	Roughing-Ins				
	90mmØ IMC Pipe	2	pc	₱	₱
	90mmØ IMC Coupling	2	pc		
	90mmØ IMC Elbow	2	pc		
	90mmØ IMC Locknut & Bushing	2	pair		
	90mmØ Weatherproof Entrance Cap, Diecast	1	pc		
	Wire and Circuit Breaker Gutter, 200mm x 300mm x 4500mm	1	assy		
	20mmØ x 3m, Copper Bonded Ground Rod with Ground Clamp	1	set		
B.	Wires and Cables				
	50mm² TW Wire	10	l.m.		
	250mm² THHN Wire	22	l.m.		
C.	Pipe Hangers & Supports				
	Horizontal layout of pipe more than less than 50mmØ	5	l.m.		
	Vertical layout of pipe	5	l.m.		
D.	Panelboard				
	MCB	1	Assy		
	Main: 500 AT 2P 42 KAIC @ 240V MCCB w/ Ground Terminal				
	Enclosure: NEMA 3R with Metal Deadfront				

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
E.	Miscellaneous and Consumables				
	16mm x 250mm Oval Eyebolt	1	pc.	₱	₱
	Electrical Tape	1	roll		
	Masking Tape	1	pc		
	Rubber Tape	2	roll		
	Waste Cloth	1	kg		
	Welding Rod	1	kg		
				Material Cost 5	₱
				Labor Cost 5	₱
				Direct Cost 5	₱
			For Cluster C	Materials Cost C	₱
				Labor Cost C	₱
				For 2 Common Area	₱
			For Cluster C	Materials Cost IV	₱
				Labor Cost IV	₱
				For Cluster C	₱

ITEM NO.	WORK DESCRIPTION & SCOPE OF WORKS	QTY.	UNIT	UNIT COST	TOTAL COST
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SUMMARY

ITEM NO	WORK DESCRIPTION AND SCOPE OF WORKS	TOTAL COST
I	GENERAL REQUIREMENTS	₱
II	CLUSTER A	
A	OUTER UNIT (6 UNITS)	
B	INNER UNIT (9 UNITS)	
C	COMMON AREA	
III	CLUSTER B	
A	OUTER UNIT A (3 UNIT)	
B	OUTER UNIT B (3 UNIT)	
C	INNER UNIT A (3 UNIT)	
D	INNER UNIT B (6 UNITS)	
E	COMMON AREA	
IV	CLUSTER C	
A	OUTER UNIT (12 UNITS)	
B	INNER UNIT (12 UNITS)	
C	COMMON AREA	
<div> <div>TOTAL DIRECT COST</div> <div>Overhead, Contingencies and Miscellaneous and Consumables Expenses (OCM)</div> <div>Profit</div> <div>VAT</div> </div>		₱
TOTAL ESTIMATED COST		₱

## ***Section IX. Checklist of Technical and Financial Documents***

### **Notes on the Checklist of Technical and Financial Documents**

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

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

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

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

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

#### Technical Documents

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

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

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

Additional Technical Requirements:

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

Financial Documents

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

***Class "B" Documents***

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

**II. FINANCIAL COMPONENT ENVELOPE**

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

Other documentary requirements under RA No. 9184

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



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

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**BID FORM**

Date : \_\_\_\_\_  
Project Identification No. : \_\_\_\_\_

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

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: *[insert name of contract]*;
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: *[insert information]*;
- d. The discounts offered and the methodology for their application are: *[insert information]*;
- e. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the a period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines<sup>1</sup> 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.

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<sup>1</sup> 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]*

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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]*

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### 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]*

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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	

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> CONTRACTOR/PARTNER IN A
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	_____
<b>NET FINANCIAL CONTRACTING CAPACITY</b>		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

