

PHILIPPINE BIDDING DOCUMENTS

Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 (3
CLUSTER-72 UNITS) AT BARANGAY NAGKAISANG
NAYON**

Project number: 21-00002

**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



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

March 23, 2021

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<u>Buildings – Small B</u>							
1	21 - 00001	Proposed Additional Xray Room at Rosario Maclang Bautista General Hospital	Batasan Hills	2,169,318.82	90	City Engineering Department	Engineering Dept.
<u>Buildings – Medium A</u>							
2	21 - 00002	Proposed Construction of Housing Units No. 28 (3 Cluster - 72 Units) at Barangay Nagkaisang Nayon	Nagkaisang Nayon	48,525,454.36	150	City Engineering Department	Housing Community Development & Resettlement Dept. (HCDRD)
<u>Flood Control – Small B</u>							
3	21- 00003	Proposed Construction of Box Culvert and Drainage Interceptors at Mariblo Barangay Hall	Mariblo	1,317,316.22	90	City Engineering Department	Engineering Dept.
4	21- 00004	Proposed Construction of Retaining Wall at Animal Pound	Payatas	4,293,141.89	60	City Engineering Department	Engineering Dept.
<u>Flood Control – Medium A</u>							
5	21- 00005	Proposed Rehabilitation and Construction of Reinforced Concrete Canal with Strut at Creek Beside Mangga Street (Halang Creek)	San Antonio / Katipunan	81,074,284.66	300	City Engineering Department	OCM-LDRRMF
6	21- 00006	Proposed Rehabilitation and Construction of Reinforced Concrete Retaining Wall at Culiati Creek	Vasra	104,028,468.38	360	City Engineering Department	OCM-LDRRMF
7	21- 00007	Proposed Rehabilitation and Construction of Reinforced Concrete Canal with Strut at Batasan Area (Paltok Creek)	Batasan Hills / Commonwealth	135,681,703.28	360	City Engineering Department	OCM-LDRRMF
<u>Parks – Small B</u>							
8	21- 00008	Proposed Improvement of Bernardo Park at Bernardo Street Corner EDSA	Pinagkaisahan	7,326,407.81	135	Parks Devt. & Admin. Dept.	Engineering Dept.

9	21-00009	Proposed Improvement of Capitol Homes Park at Berlin Road Corner Amsterdam Road	Matandang Balara	12,886,327.65	225	Parks Devt. & Admin. Dept.	Engineering Dept.
10	21-00010	Proposed Improvement of Mapayapa II Park at Narra Avenue, Mapayapa III Subdivision	Pasong Tamo	14,423,567.84	210	Parks Devt. & Admin. Dept.	Engineering Dept.
11	21-00011	Proposed Improvement of Project 6 Park at Road 2 corner Road 7	Project 6	23,292,945.34	330	Parks Devt. & Admin. Dept.	Engineering Dept.
<u>Roads – Small B</u>							
12	21-00012	Proposed Rehabilitation (Surface Improvement) of Darga Street	Damar	1,551,866.79	15	City Engineering Department	20% City Development Fund
13	21-00013	Proposed Rehabilitation (Surface Improvement) of Mayon and Baco Streets	Nagkaisang Nayon	2,102,789.42	20	City Engineering Department	20% City Development Fund
14	21-00014	Proposed Rehabilitation (Surface Improvement) of Ernesto Porto Street	Del Monte	2,239,914.95	25	City Engineering Department	20% City Development Fund
15	21-00015	Proposed Rehabilitation (Surface Improvement) of Orchids Street	Fairview	2,758,195.60	20	City Engineering Department	20% City Development Fund
16	21-00016	Proposed Rehabilitation (Surface Improvement) of Dancalan Street	Damar	3,033,968.52	20	City Engineering Department	20% City Development Fund
17	21-00017	Proposed Rehabilitation (Surface Improvement) of San Simon Street	Holy Spirit	4,239,797.26	30	City Engineering Department	20% City Development Fund
18	21-00018	Proposed Rehabilitation (Surface Improvement) of Production / VIPRA	Sangandaan	4,740,546.22	35	City Engineering Department	20% City Development Fund
19	21-00019	Proposed Rehabilitation (Surface Improvement) of Filinvest 1 Road	Batasan Hills	7,134,461.11	30	City Engineering Department	20% City Development Fund
20	21-00020	Proposed Rehabilitation (Surface Improvement) of Walnut Street	Fairview	8,584,344.29	55	City Engineering Department	20% City Development Fund
21	21-00021	Proposed Rehabilitation (Surface Improvement) of Road 3	Project 6	11,234,728.41	65	City Engineering Department	20% City Development Fund
<u>Roads – Medium A</u>							
22	21-00022	Proposed Rehabilitation (Surface Improvement) of N.S. Amoranto Sr. Street	Various Barangays in District 1	30,393,447.36	120	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 **24 March 2021 (Wednesday)** from given address and website/s below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person*.

STANDARD RATES:

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

The following are the requirements for purchase of Bidding Documents;

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

It must be duly received by the BAC Secretariat at 2nd Floor, Procurement Department, Finance Building, Quezon City Hall Compound on or before **March 31, 2021 - 5:00PM**.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference¹ on **April 5, 2021 at 10:00 AM at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

Virtual Conference (ZOOM APP)
Meeting ID: 891 1185 9539
Password: 598996

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

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **April 20, 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 **April 20, 2021 - 10:00 AM** at **2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Virtual Conference (ZOOM APP)

Meeting ID: 836 3298 7664

Password: 451221

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

ATTY. DOMINIC B. GARCIA

OIC, Procurement Department

2nd Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

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

Email Add: procurement@quezoncity.gov.ph

Website: www.quezoncity.gov.ph

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. 28 (3 CLUSTER-72 UNITS) AT BARANGAY NAGKAISANG NAYON**, with Project Identification Number **21-00002**.

[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 **Forty Eight Million Five Hundred Twenty Five Thousand Four Hundred Fifty Four Pesos & 36/100 Cts. (P 48,525,454.36)**.

2.2. The source of funding is:

a. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manual and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or invitation to bid by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have inspected the site, determined the general characteristics of the contracted Works and the conditions for this Project, such as the location and the nature of the work; (b) climatic conditions; (c) transportation facilities; (c) nature and condition of the terrain, geological conditions at the site communication facilities, requirements, location and availability of construction aggregates and other materials, labor, water, electric power and access roads; and (d) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or

through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC adjusted, if necessary, by the Bidder to current prices using the PSA’s CPI, except under conditions provided for in Section 23.4.2.4 of the 2016 revised IRR of RA No. 9184.

A contract is considered to be “similar” to the contract to be bid if it has the major categories of work stated in the **BDS**.

- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

There is no restriction on the origin of Goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project.

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the

implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **April 5, 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: 89111859539 Password: 598996**

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

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

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

15. Bid Security

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

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

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

20. Post Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																																									
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.																																								
7.1	Subcontracting is not allowed.																																								
10.3	<i>No additional contractor license or permit is required</i> <i>In addition, eligible bidders shall qualify or comply with the following:</i> 1. Bidders with valid Philippine Contractors Accreditation Board (PCAB) Type Buildings – Medium A																																								
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"><i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i></td></tr></table>	The minimum work experience requirements for key personnel are the following:				Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	DPWH duly accredited Materials Engineer	3 years	3 years	1	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	<i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i>			
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	<i>the project until its completion. Please see attached bid forms.</i>
12	<i>[Insert Value Engineering clause if allowed.]</i>
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> a) The amount of not less than Php 970,509.09 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b) The amount of not less than Php 2,426,272.72 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	<p>Additional Contract Documents relevant to the Project as required:</p> <ol style="list-style-type: none"> 1. Construction Schedule and S-curve, 2. Manpower Schedule, 3. Construction Methods, 4. Equipment Utilization Schedule, 5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

3.2 If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 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 than fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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



Republic of the Philippines
Quezon City

CITY ENGINEERING DEPARTMENT

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TECHNICAL SPECIFICATIONS

QUEZON CITY INFRASTRUCTURE PROJECT

**PROJECT TITLE : PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28
(3 CLUSTER-72 UNITS) AT BRGY. NAGKAISANG NAYON**

LOCATION : BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

I. GENERAL REQUIREMENTS

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

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

II. 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.
- E. Excavation shall be shored and braced by members of suitable sizes where necessary to prevent danger to persons, injurious caving or erosions. Shoring bracing and sheathing shall be removed, as the excavations are backfilled, in a manner such as to prevent injurious caving. The contractor shall keep all excavations free from water while construction is in progress.

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 A. NAONG
Planning and Programming Division

Section VII. Drawings

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

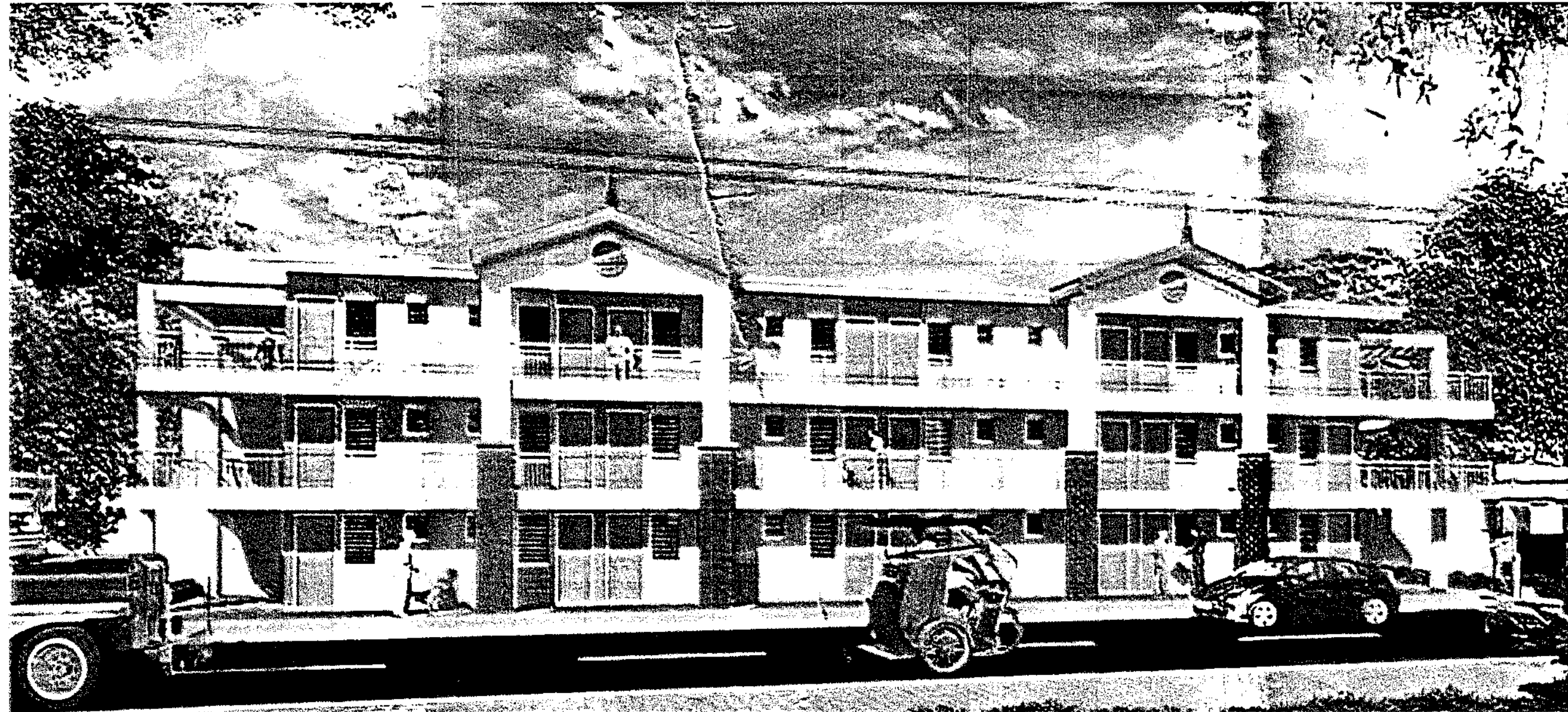
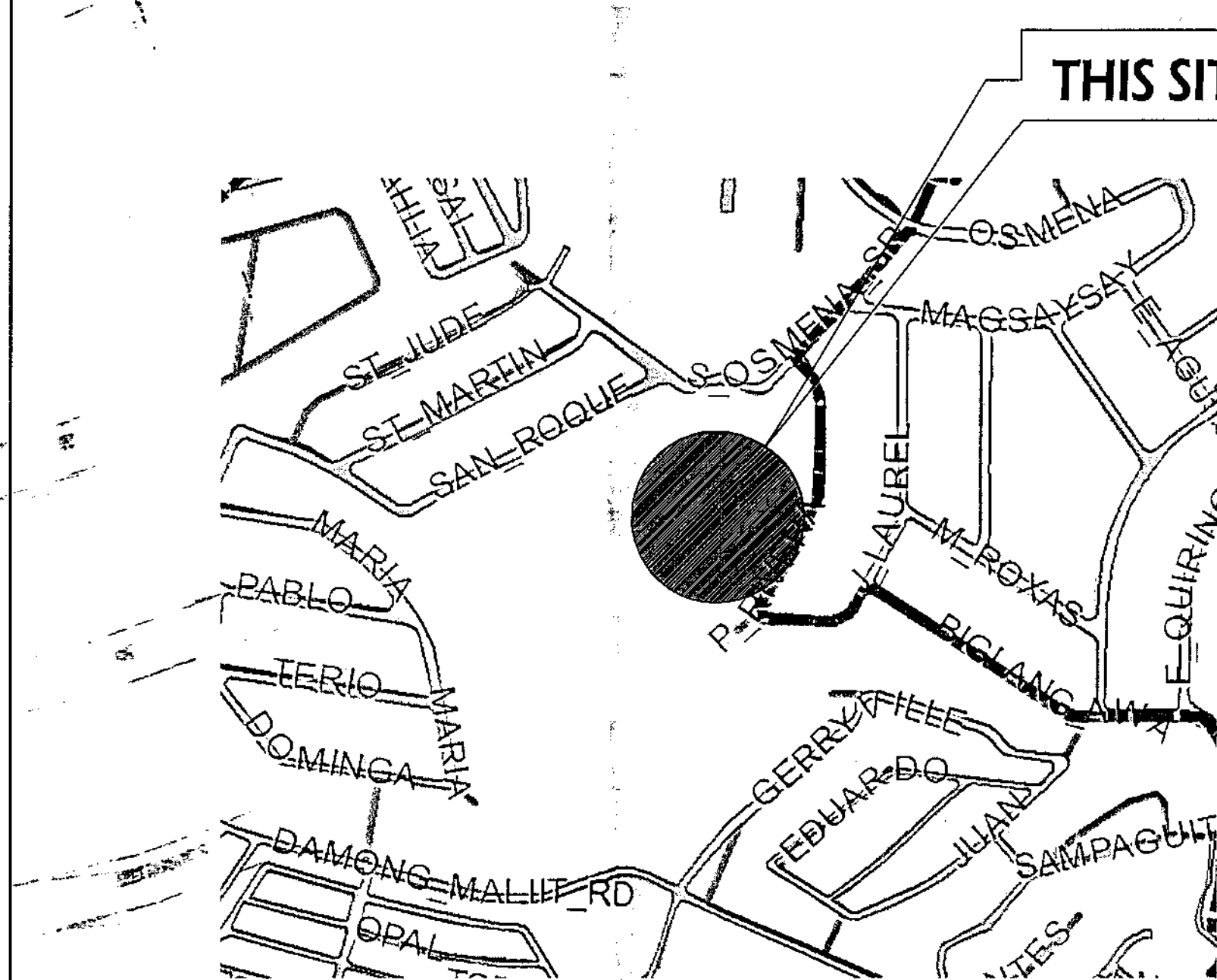
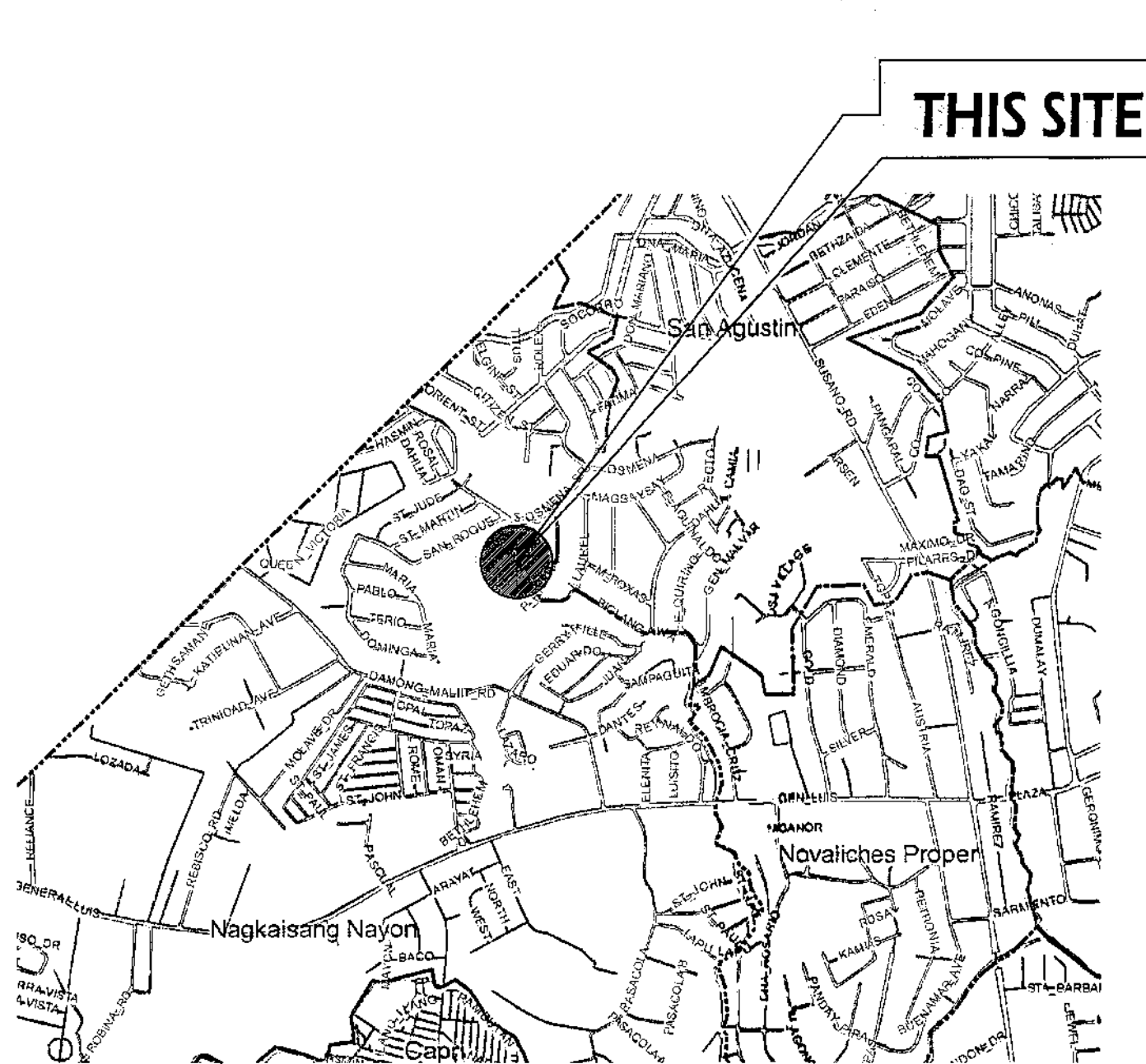


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		MECHANICAL
		SANITARY
		PLUMBING
		ELECTRONICS
		GEODETIC ENGINEER

1 PERSPECTIVE

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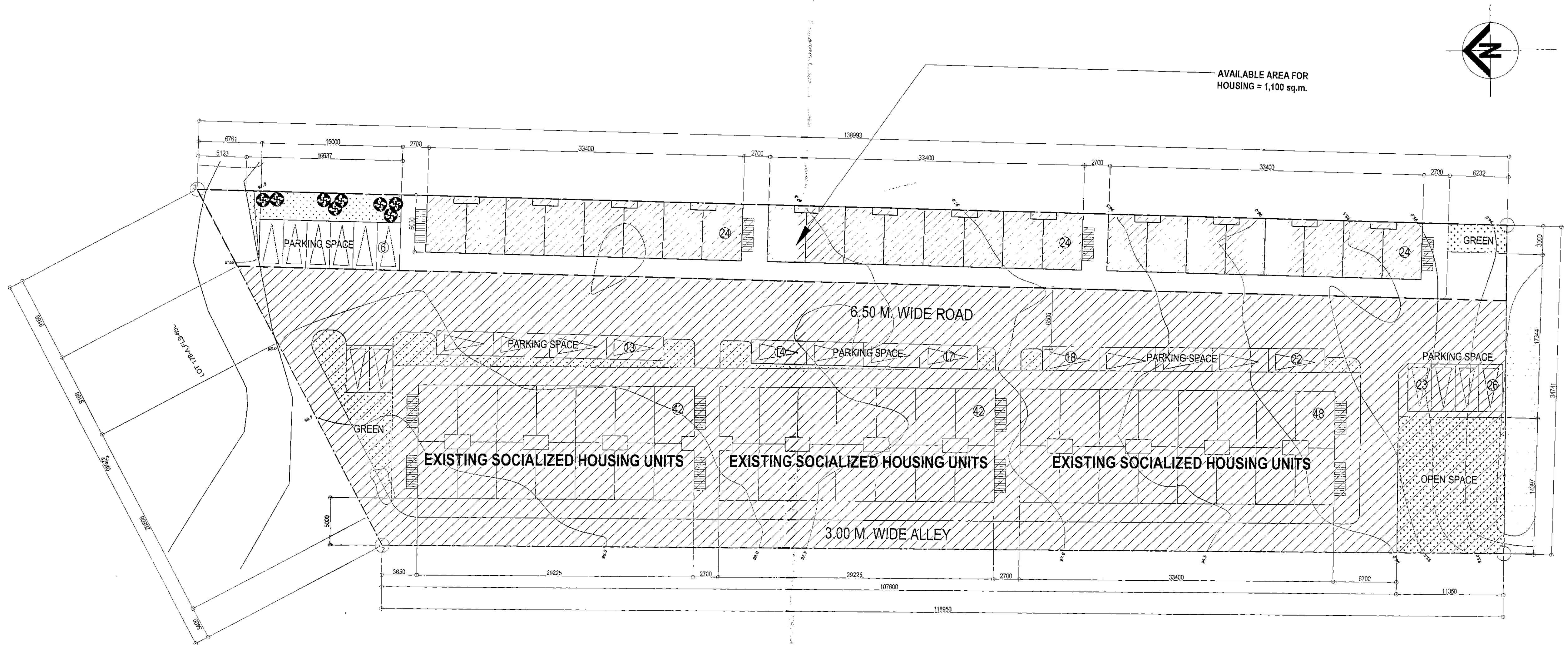
2 VICINITY MAP

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3 LOCATIONAL MAP



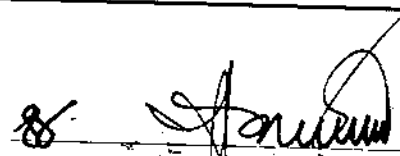
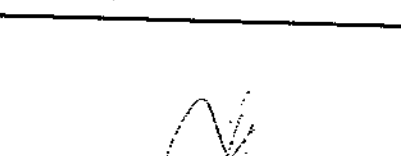
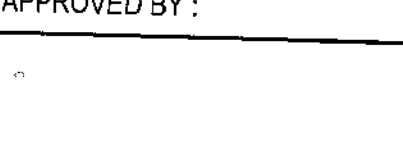
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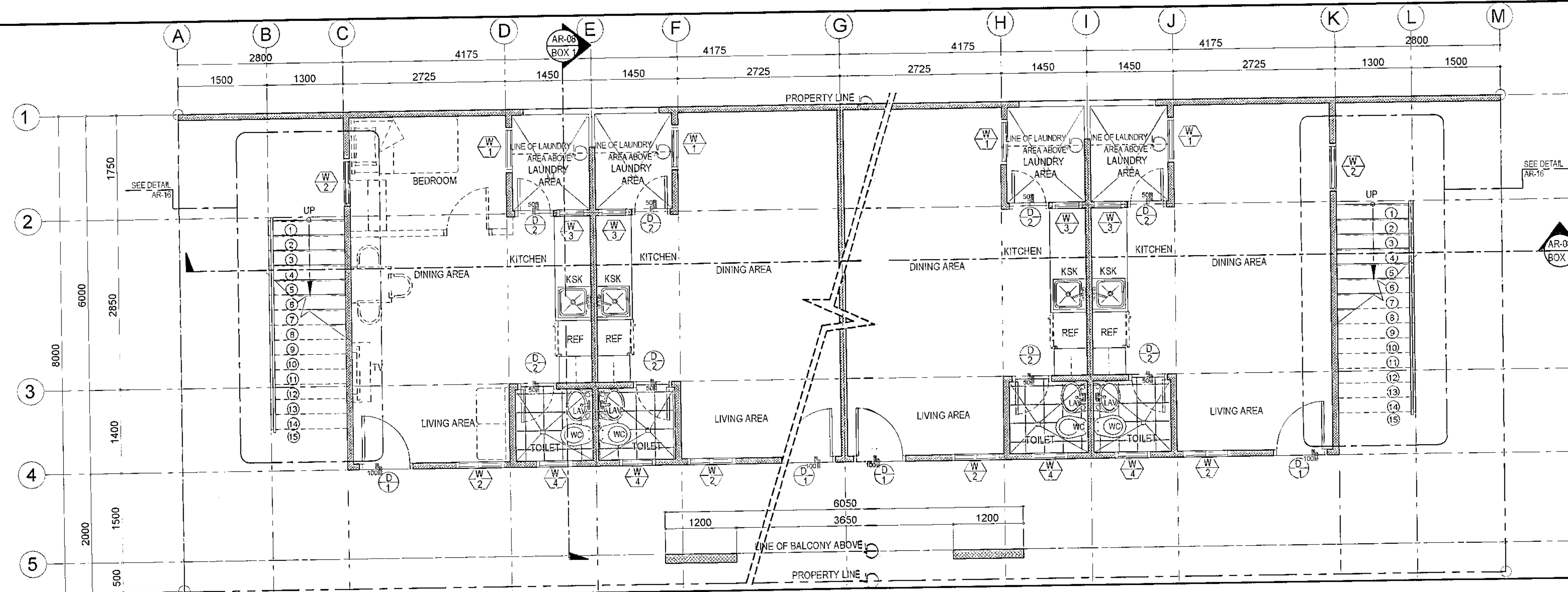
	Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT S/F CIVIC CENTER-D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY		PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY WERE MADE 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 PRACTICE OF ARCHITECTURE OR FOR OTHER PROJECTS OR BUILDINGS, WHETHER 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	APPROVED BY: RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR	PROJECT TITLE: PROPOSED CONSTRUCTION OF HOUSING UNITS NO.28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS - 72 UNITS) LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY	SHEET CONTENTS: PERSPECTIVE VICINITY MAP LOCATION MAP TABLE OF CONTENTS	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-01



SOCIALIZED HOUSING (24 SQM.) = 72 UNITS

1 SITE DEVELOPMENT PLAN

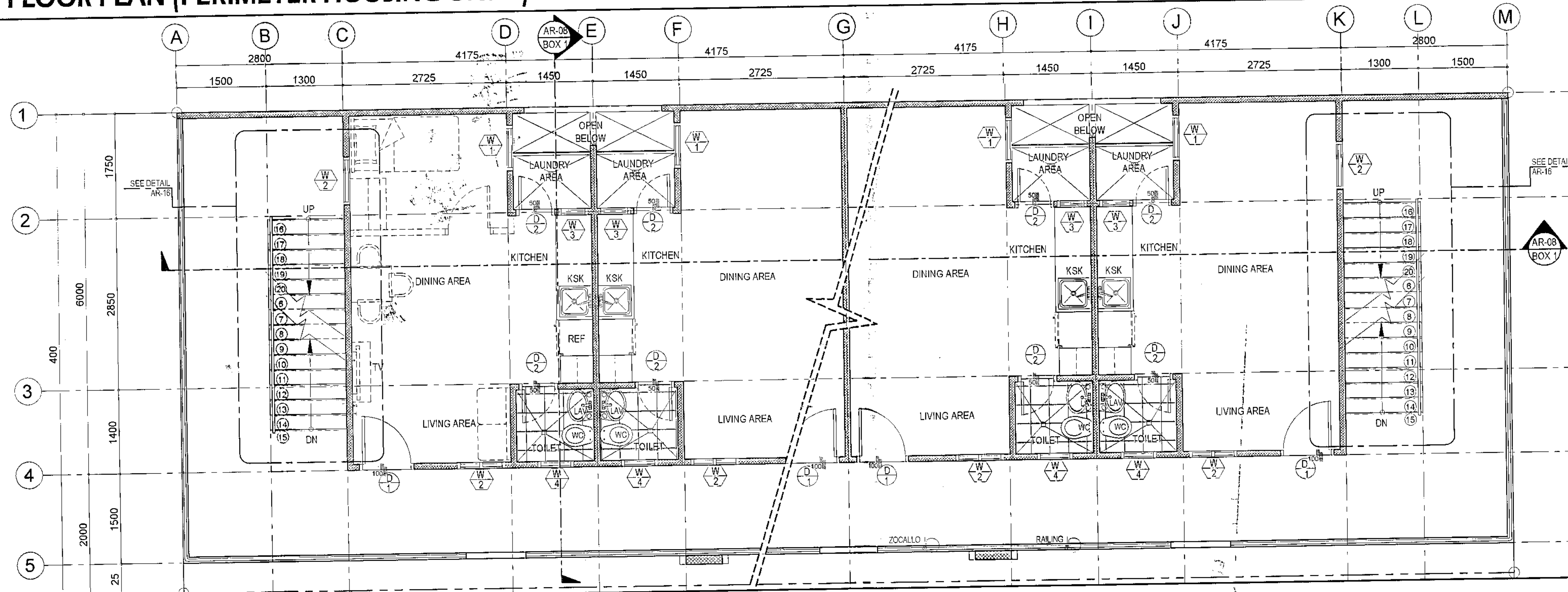
 Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT SF CIVIC CENTER - D (3RD. Bldg.) QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY		PROVISO: <small>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED ARE INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHENEVER 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 AND INDEMNITIES FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE</small>	RECOMMENDING APPROVAL  Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT	 Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER	APPROVED BY:  RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR	PROJECT TITLE: PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS- 72 UNITS) <small>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</small>	SHEET CONTENTS: SITE DEVELOPMENT PLAN	PROJECT NO.:	SHEET NO.:
		DATE August 2020	Ar. P.N.B.	AR-02					
		DRAWN BY Ar. M.H. BALADJAY	Ar. L.H. CHUA						



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


SCALE 1:50 METERS

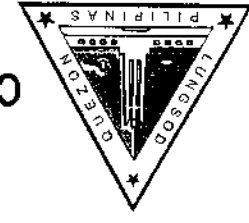
1 GROUND FLOOR PLAN (PERIMETER HOUSING UNITS)



SCALE 1:50 METERS

2 SECOND FLOOR PLAN (PERIMETER HOUSING UNITS)

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5/F CIVIC CENTER - D (BRO. Bldg.), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DIJUMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPUTATION OF AND 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> CITY ARCHITECT</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> CIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>RICARDO T. BELMONTE Jr.</i> SECRETARY TO THE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS- 72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GROUND FLOOR PLAN SECOND FLOOR PLAN</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>AR-03</p>
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REPUBLIC OF THE PHILIPPINES
CITY OF QUEZON
CITY ARCHITECT DEPARTMENT
Lungsod ng Quezon
5th Civic Center, 0-1800, Brgy. Quezon City Hall Compound,
Elipit Road, Dilaan, Quezon City



PROVISO:
I, the undersigned, being a duly licensed Professional Engineer in the Philippines, do hereby certify that the design and construction of the above project conform to the requirements of the National Building Code of the Philippines and the rules and regulations of the City of Quezon, and that the same are safe, sound, and proper for the use intended.

RECOMMENDING APPROVAL
Engr. **RICARDO T. BELMONT JR.**
CITY ARCHITECT
Engr. **ISAAC R. VERZOSA JR.**
CITY ENGINEER

APPROVED BY:
Engr. **ISAAC R. VERZOSA JR.**
CITY ENGINEER

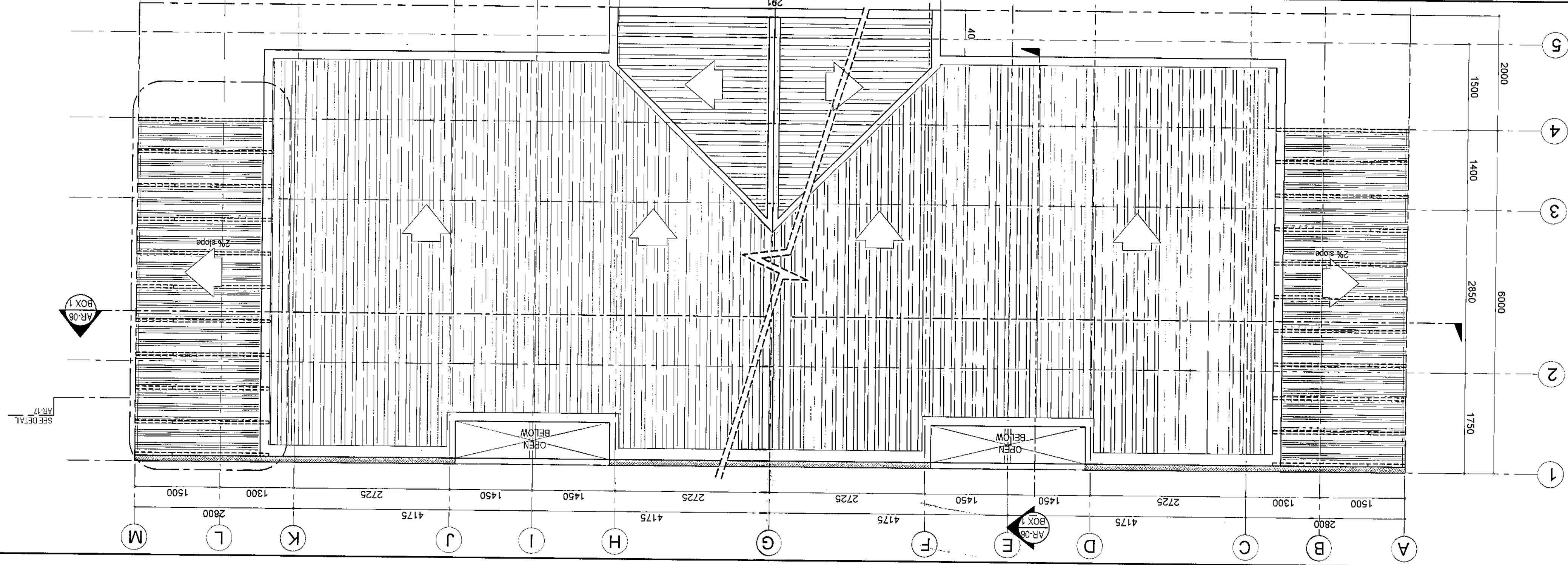
PROJECT TITLE:
**PROPOSED CONSTRUCTION
OF HOUSING UNITS NO. 28 AT
BRGY. NAGKASANG NAYON,
(3-CLUSTER- 72 UNITS)**

SHEET CONTENTS:
THIRD FLOOR PLAN

PROJECT NO.:
DATE: September 2020
DRAWN BY: Ar. P.N.B.
DESIGNED BY: Ar. M.H. BALADIA
CHECKED BY: Ar. L.H. CHUA

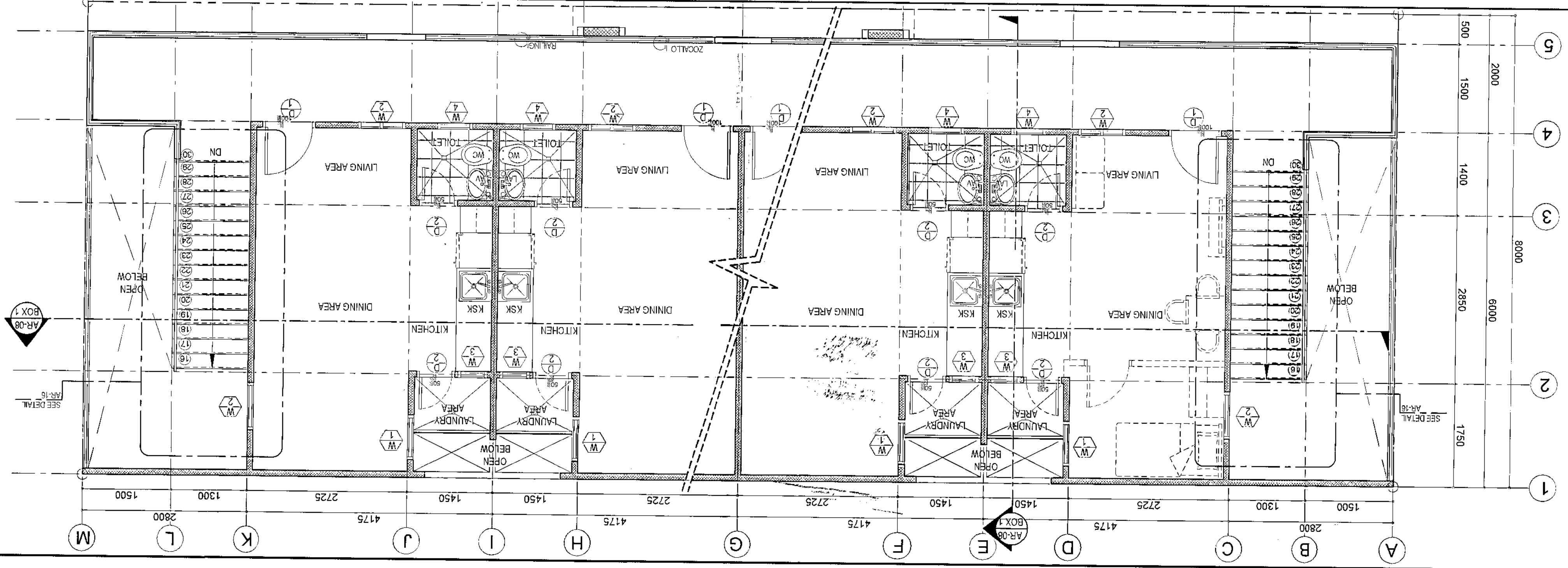
AR-04

2 ROOF PLAN (PERIMETER HOUSING UNITS)



SCALE 1:50 METERS

1 THIRD FLOOR PLAN (PERIMETER HOUSING UNITS)



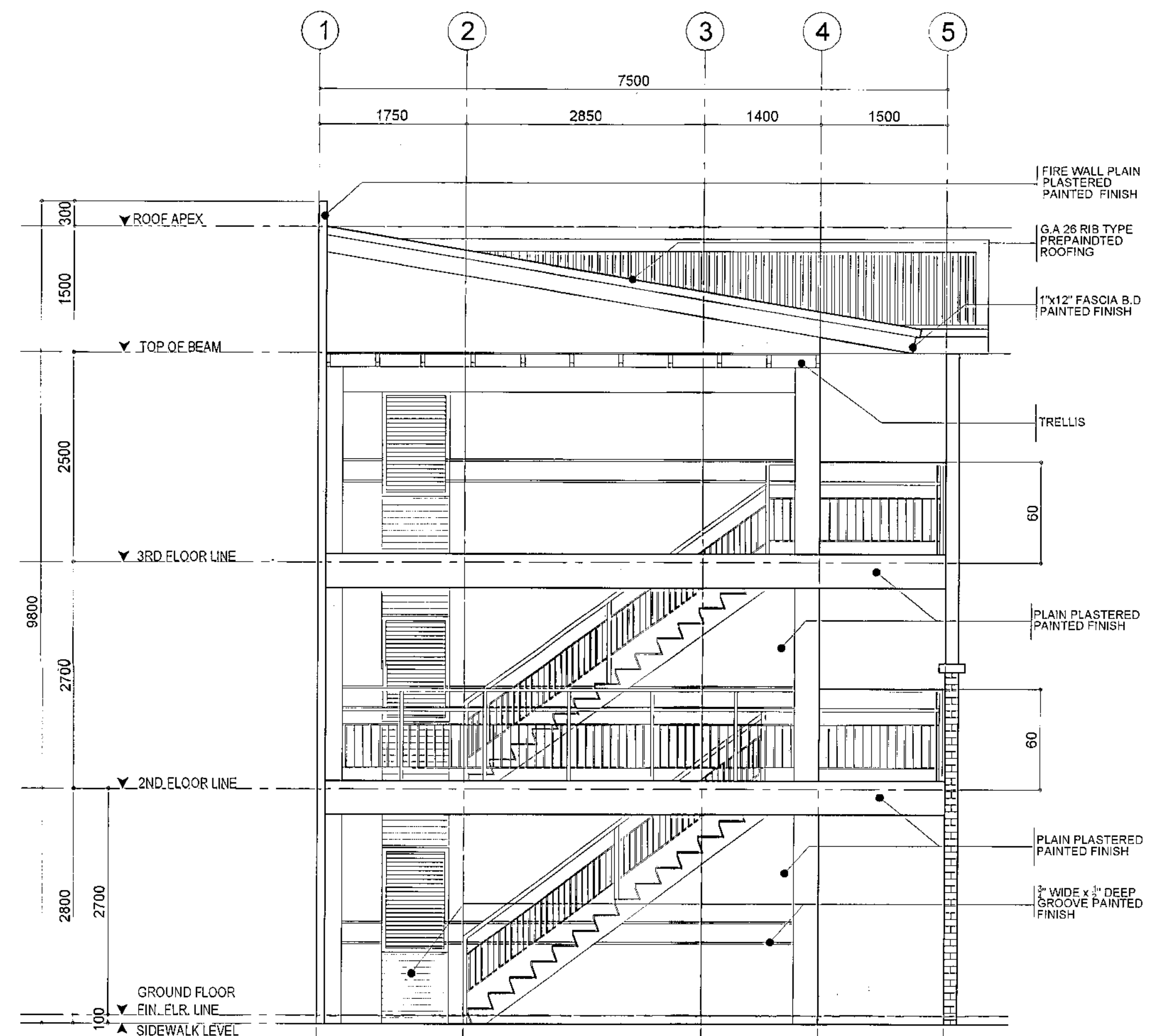
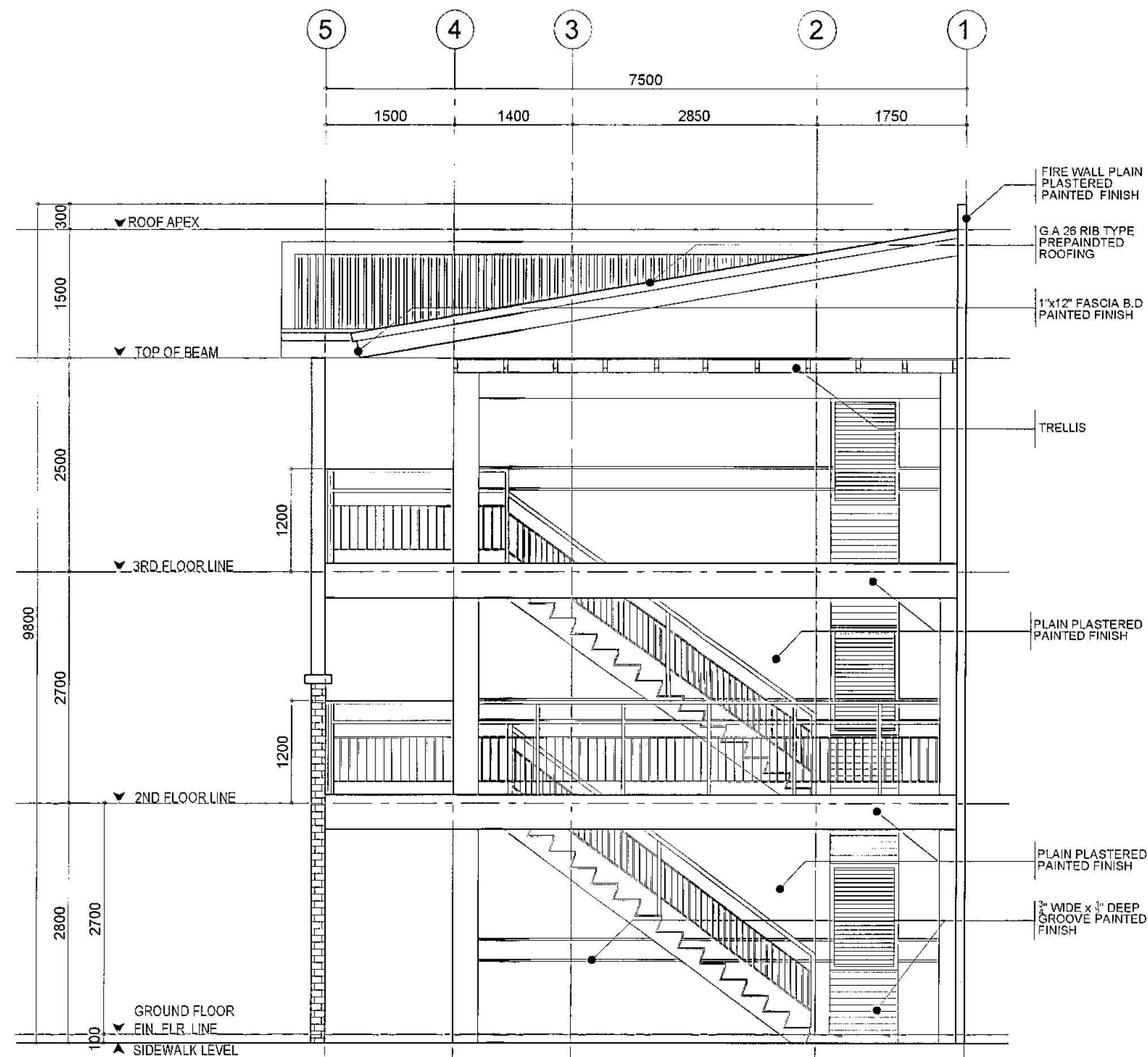
NOTE:
1.) ALL CORNER UNITS
WITH SIDE WINDOWS
2.) VERIFY MASTER SITE
DEVT. PLAN FOR ACTUAL
NUMBER OF UNIT.



1 TYPICAL FRONT ELEVATION (PERIMETER HOUSING UNITS)

SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p><small>DRAWING AND SPECIFICATIONS ONLY SHOWN, 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.</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucille H. Chua</i> Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS - 72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>FRONT ELEVATION SPOT DETAIL</p>	<p>PROJECT NO.:</p> <p>DATE: August 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>AR-05</p>
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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



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



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EXECUTED PARTLY OR IN WHOLE

RECOMMENDING APPROVAL

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

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

APPROVED BY:

RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION
OF HOUSING UNITS NO.28 AT
BRGY. NAGKAIKANG NAYON
(3- CLUSTERS-72 UNITS)

LOCATION: BRGY. NAGKAIKANG NAYON, QUEZON CITY

SHEET CONTENTS:

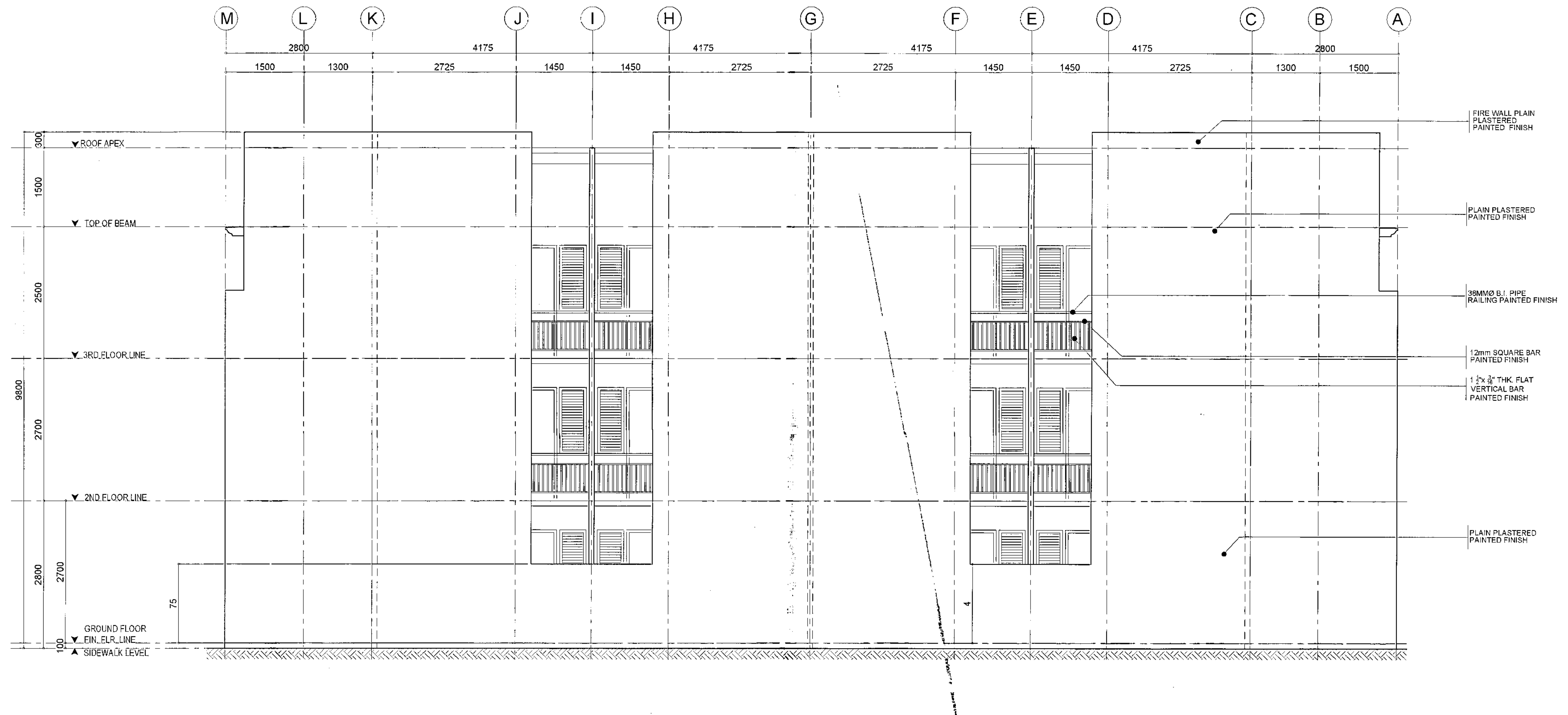
RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION

PROJECT NO.:

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

SHEET NO.:

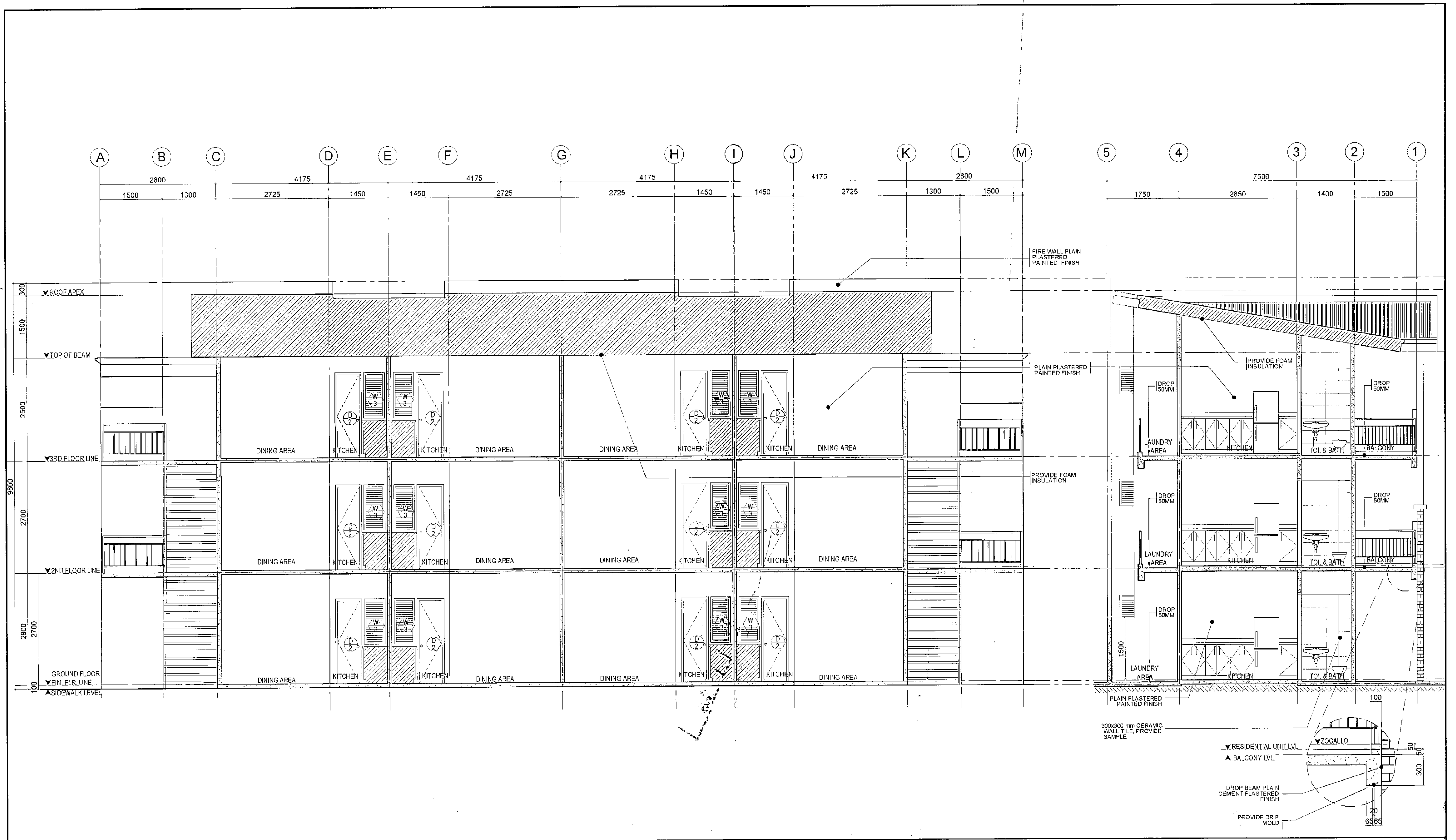
AR-06




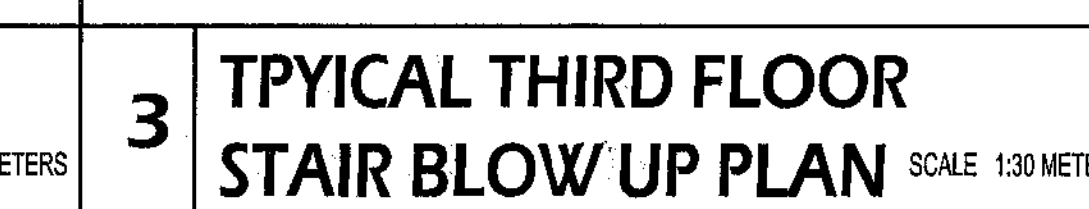
1 REAR ELEVATION (PERIMETER HOUSING UNITS)


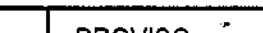



SCALE 1:50 METERS

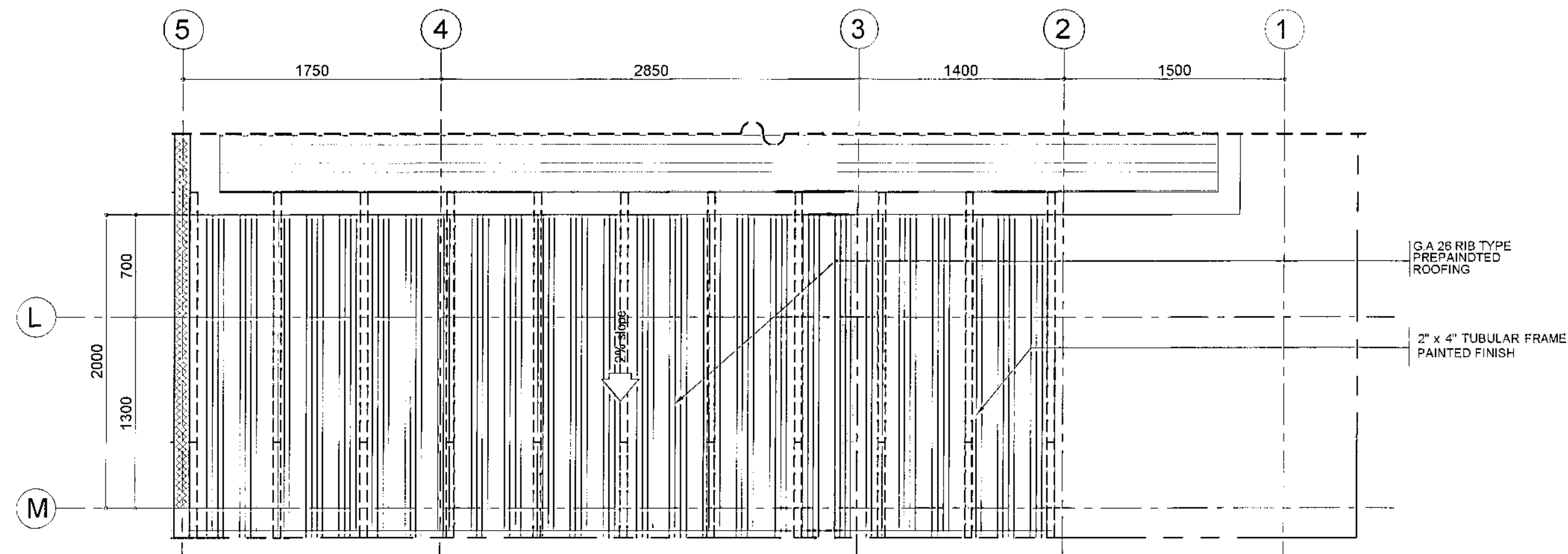
	<p>Republika ng Pilipinas Lungsod ng Quezon</p> <p>CITY ARCHITECT DEPARTMENT SFC CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE SUBJECT FOR WHICH THEY WAS 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.</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucile H. Chua, uap, piep</i> Ar. LUCILE H. CHUA, uap, piep CITY ARCHITECT</p>	<p>APPROVED BY:</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.28 AT BRGY. NAGKAIKANG NAYON (3-CLUSTERS- 72 UNITS)</p> <p>LOCATION: BRGY. NAGKAIKANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>RIGHT SIDE ELEVATION LEFT SIDE ELEVATION</p>	<p>PROJECT NO.:</p> <p>DATE August 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>AR-07</p>



1		LONGITUDINAL SECTION/ CROSS SECTION (PERIMETER HOUSING UNITS)				SCALE 1:50 METERS			
 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5F CIVIC CENTER - D (Bldg. 888), QUEZON CITY MALL 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 PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	RECOMMENDING APPROVAL		APPROVED BY:		PROJECT TITLE:	SHEET CONTENTS:	PROJECT NO.:	SHEET NO.:
		<p><i>Ar. Lucille H. Chua</i> Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>		<p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>		<p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO.28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS- 72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>LONGITUDINAL SECTION CROSS SECTION</p>	<p>DATE August 2020 DRAWN BY Ar. P.N.B. DESIGNED BY Ar. M.H. BALADJAY CHECKED BY Ar. L.H. CHUA</p>	<p>AR-08</p>

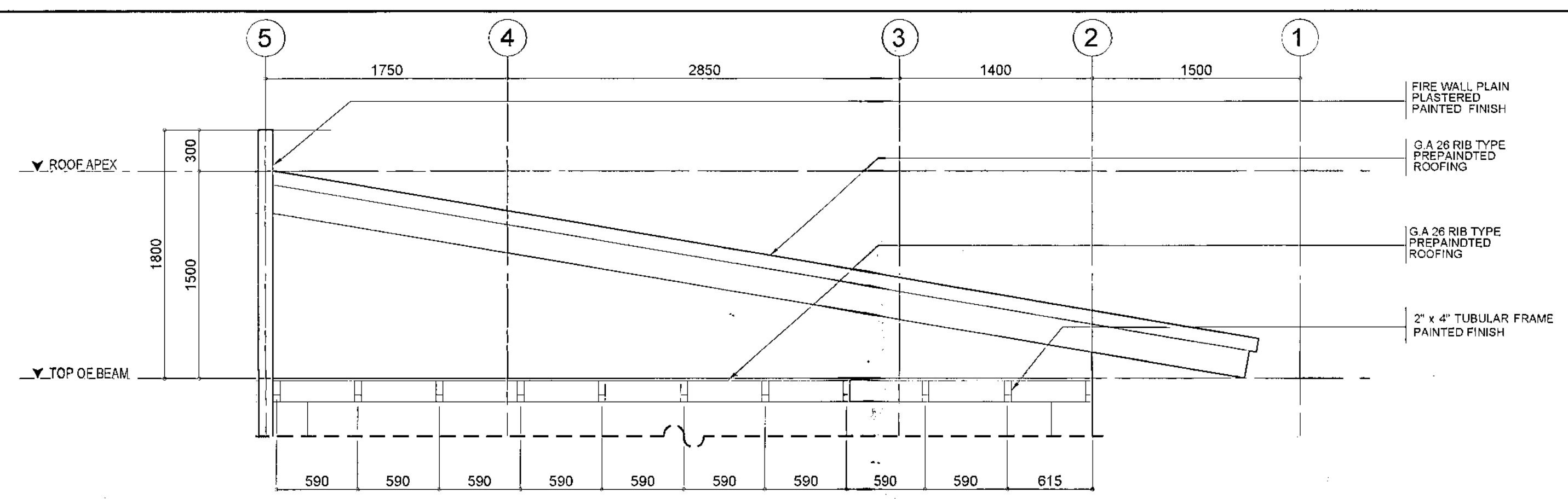


 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT S/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p> 	PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT, WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTIALLY OR IN WHOLE.	RECOMMENDING APPROVAL  Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT	APPROVED BY:  Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER	APPROVED BY:  RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR	PROJECT TITLE : PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)	SHEET CONTENTS : STAIR BLOW UP PLAN STAIR BLOW UP SECTION	PROJECT NO.:	SHEET NO.: <div> <div>DATE</div> <div>August 2020</div> <div>DRAWN BY</div> <div>Ar. P.N.B</div> <div>DESIGNED BY</div> <div>Ar. M.H. BALADJAY</div> <div>CHECKED BY</div> <div>Ar. L.H. CHUA</div> </div>	AR-09
	LOCATION : BRGY. NAGKAISANG NAYON, QUEZON CITY								



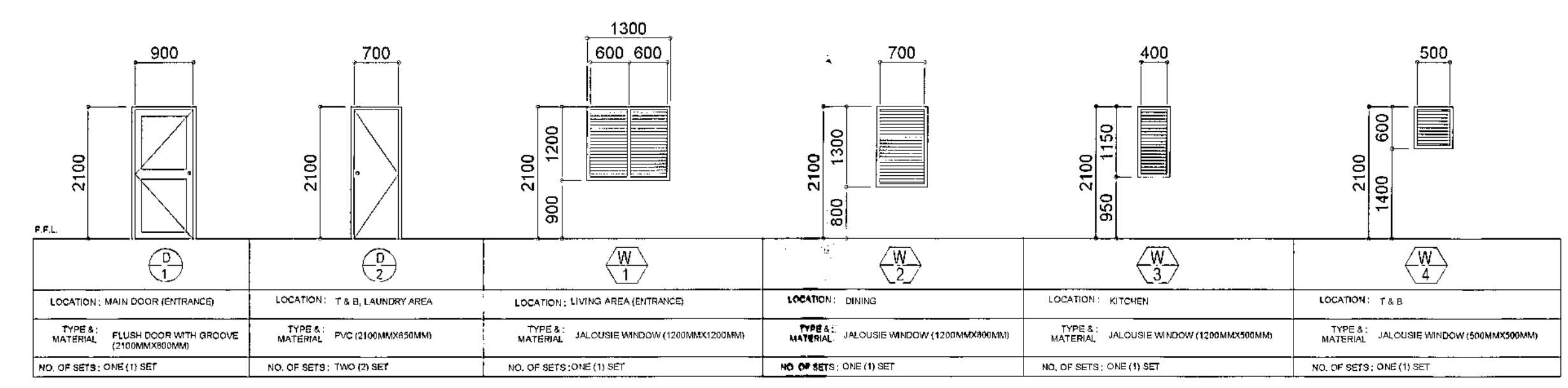
1 BLOW UP PLAN OF TRELLIS

SCALE 1:30 METERS




2 BLOW UP ELEVATION OF ROOF/ TRELLIS

SCALE 1:30 METERS




3 DOORS & WINDOWS SCHEDULE

SCALE 1:75 METERS



Republika ng Pilipinas
Lungsod ng Quezon
CITY ARCHITECT DEPARTMENT
Sf Civic Center - D (Bldg. 846), QUEZON CITY HALL COMPOUND,
ELLIPTICAL ROAD, DILIMAN, QUEZON CITY



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PROJECTS OR BUILDINGS, WHETHER
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RECOMMENDING APPROVAL

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

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

APPROVED BY :

Ricardo T. Belmonte Jr.
RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE :

**PROPOSED CONSTRUCTION
OF HOUSING UNITS NO. 28 AT
BRGY. NAGKAISANG NAYON
(3-CLUSTERS-72 UNITS)**

LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY

SHEET CONTENTS :

TRELLIS BLOW UP PLAN
TRELLIS BLOW UP SECTION
DOORS & WINDOWS
SCHEDULE

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-10

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 DIAGRAM 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					
COLUMN	3000 PSI	STAIRS	3000 PSI	SLAB ON GRADE	3000 PSI
BEAM	3000 PSI	FOUNDATION/FOOTING	3000 PSI	WALL FOOTING	3000 PSI
SUSPENDED SLAB	3000 PSI	RETAINING WALL	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 "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
 - 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-645 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

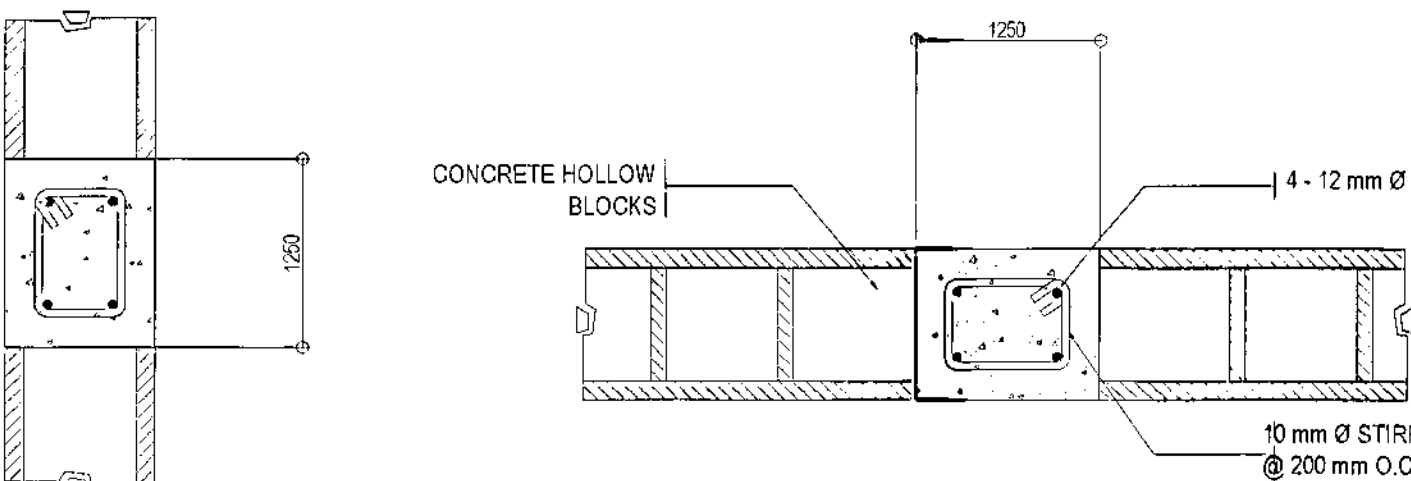
- 1. FOUNDATION IS DESIGNED BASED ON NATIONAL BUILDING CODE OF THE PHILIPPINES FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 336 KPa.
- 2. FOUNDATION SHALL REST ON NATURAL SOIL, UNLESS OTHERWISE NOTED BY THE ENGINEER, NO PART OF THE FOUNDATION SHALL REST ON FILL.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER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

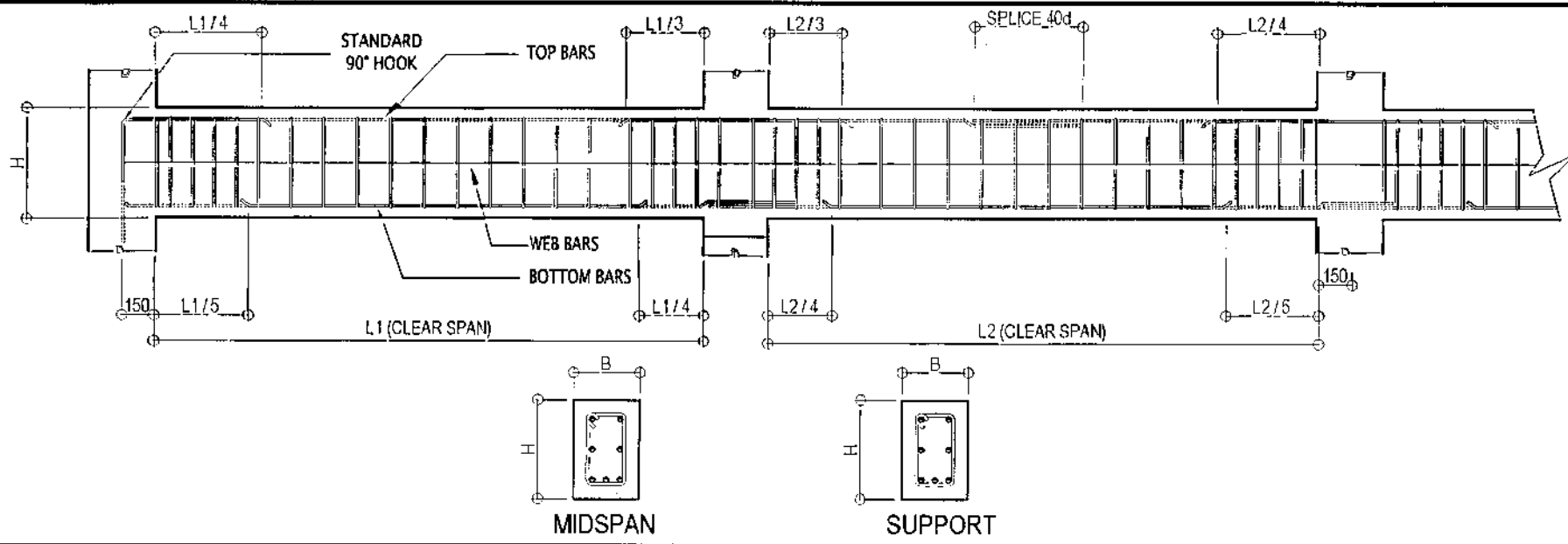
- 5.a. FOR HIGH WALLS & EVERY 3000 mm & COLUMN (BOLT) AT 3000 mm ON CENTER.
- 5.b. FOR DOORS & WINDOWS OPENING PROVIDE LINTEL BEAM SAME AS STIFFENER BEAM BLOCK.

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



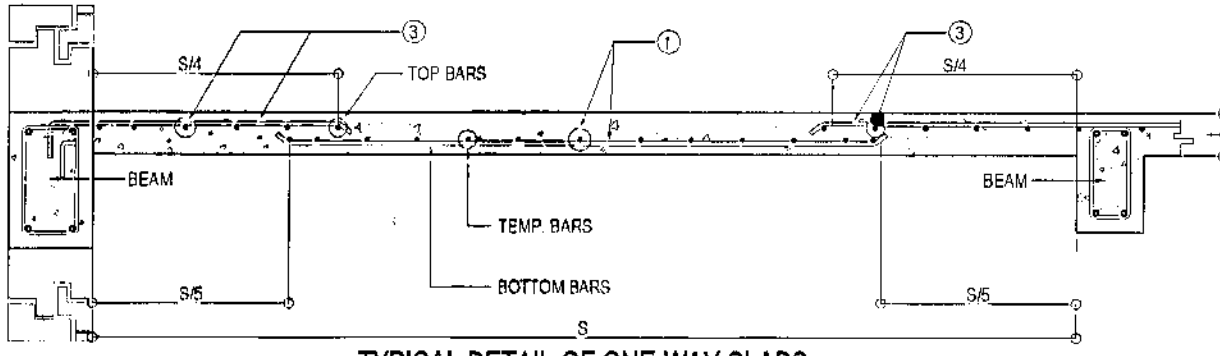
2 TYPICAL BEAM DETAIL

NOT TO SCALE

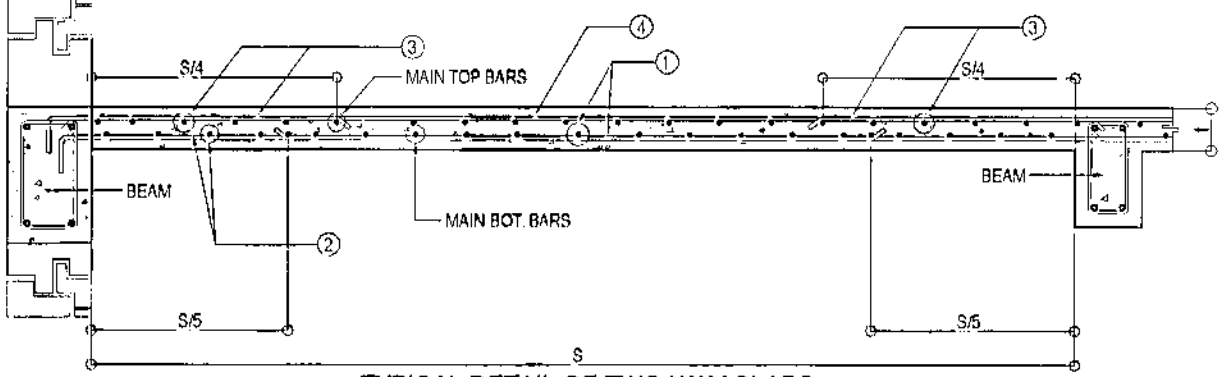
	BEAM MARK	DIMENSIONS (MM)		BAR Ø	TOP BARS			BOTTOM BARS			STIRRUPS 10MMØ
		B	H		LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	LEFT SUPPORT	MID SPAN	RIGHT SUPPORT	
2ND FLOOR	2B1	200	550	16	6	2	6	2	6	2	1@ 100, REST @ 200
	2B2	200	450	16	4	2	4	2	4	2	1@ 100, REST @ 200
	2B3	175	400	16	3	2	3	2	3	2	1@ 100, REST @ 200
	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 SHEDULE OF BEAMS

NOT TO SCALE



TYPICAL DETAIL OF ONE-WAY SLABS



TYPICAL DETAIL OF TWO-WAY SLABS


MARK	t	REINFORCEMENT		SHORT SPAN				LONG SPAN				REMARK
		MAIN BARS	TEMP.	TOP BARS		BOT. BARS		TOP BARS		BOT. BARS		
				4	3	1	2	4	3	1	2	
S-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

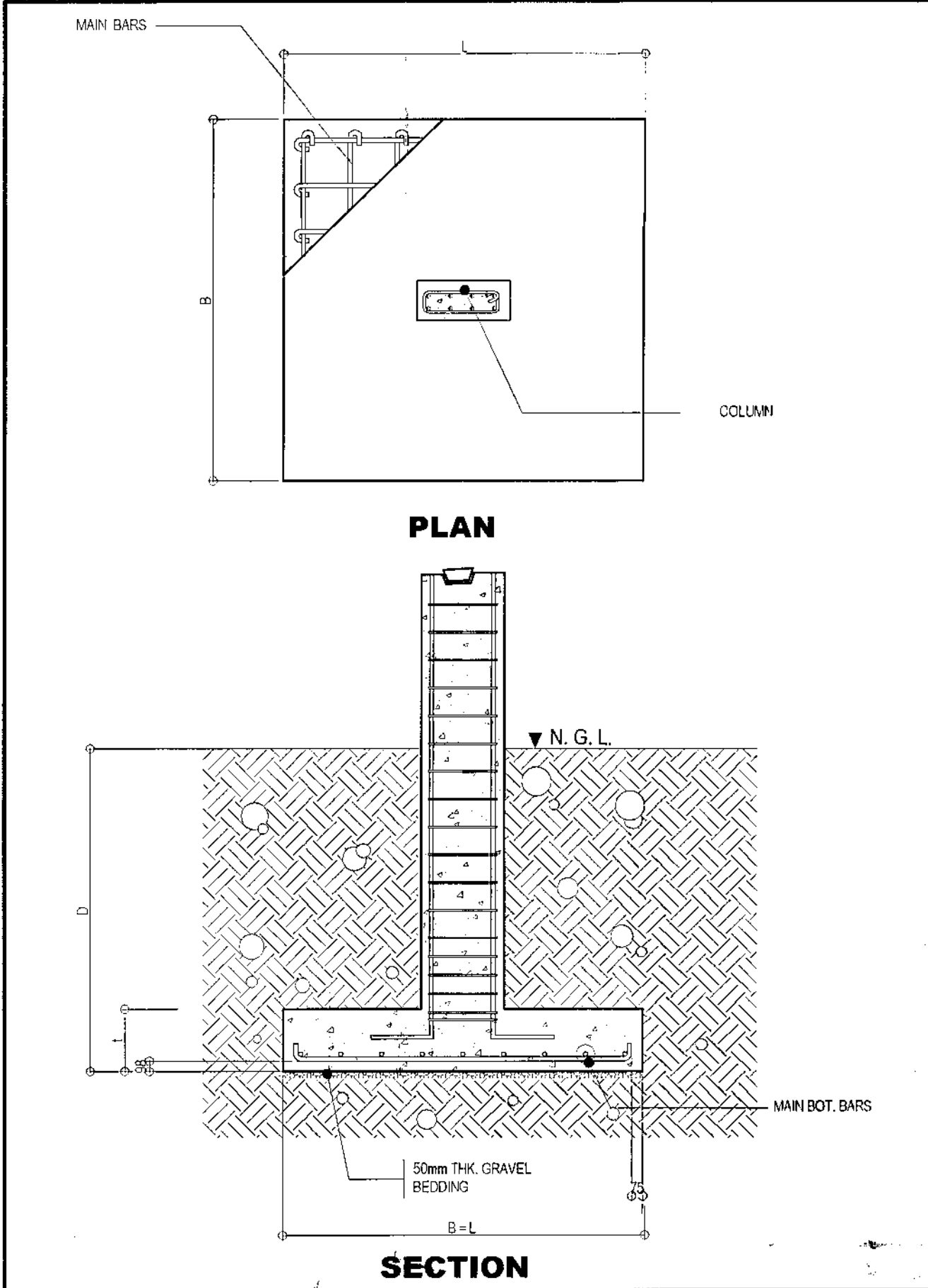
1 GENERAL NOTES

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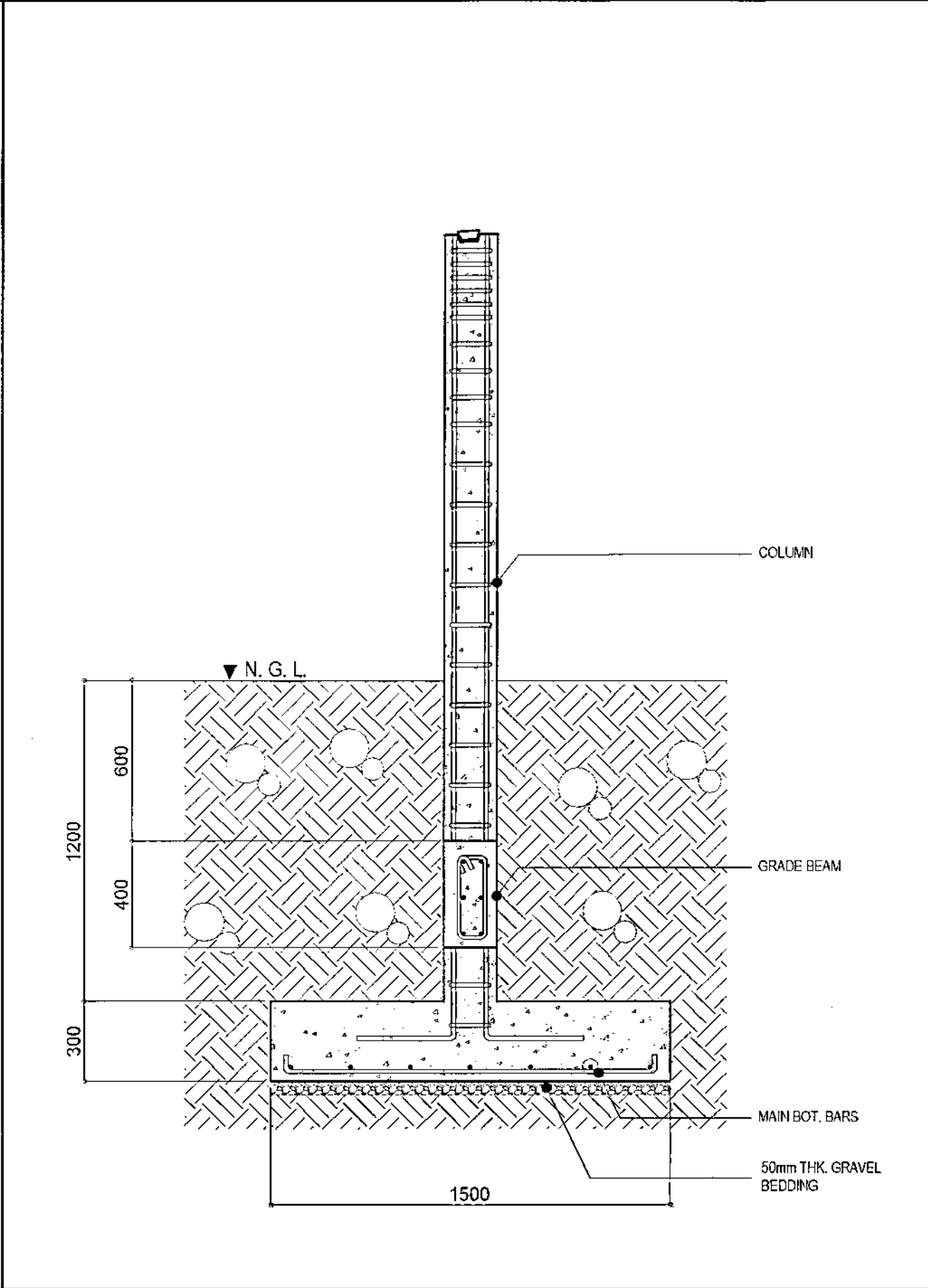
4 DETAIL OF SLAB

NOT TO SCALE

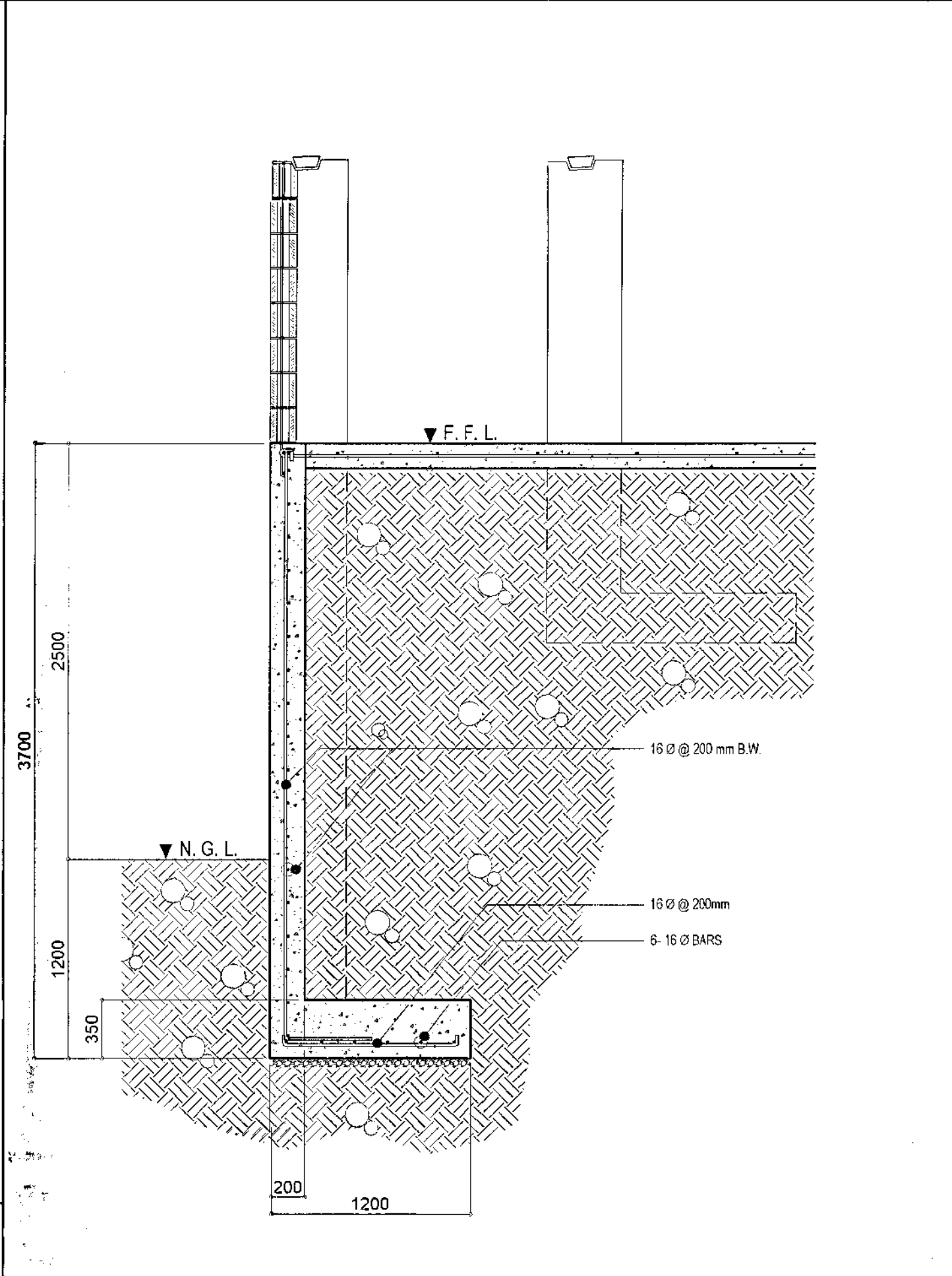
	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHENEVER THE SUBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p> <p>Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p>RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GENERAL NOTES TYPICAL DETAIL OF BEAM SCHEDULE OF BEAM DETAIL OF SLAB</p>	<p>PROJECT NO.:</p> <p>DATE: August 2020 DRAWN BY: Ar. P.N.B. DESIGNED BY: Engr. M.E.A. CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p>ST-01</p>
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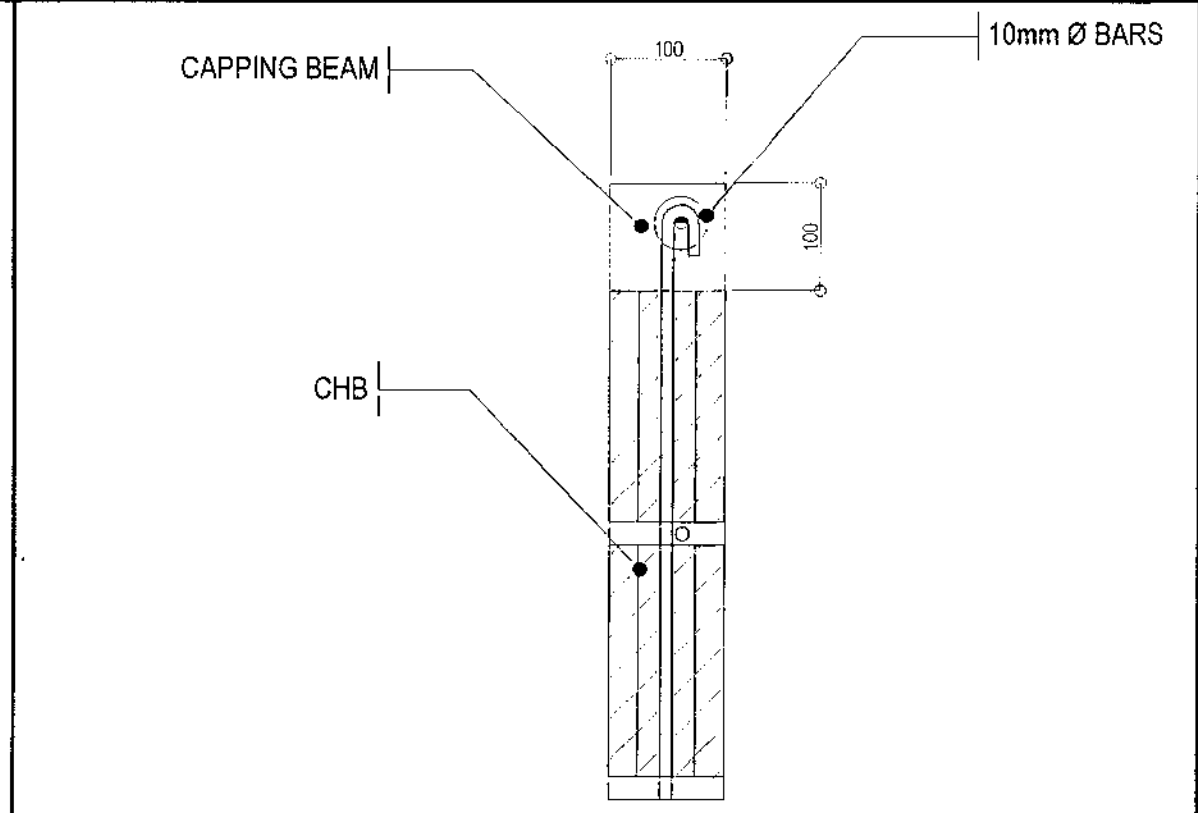
1 TYPICAL DETAIL OF COLUMN FOOTING NOT TO SCALE



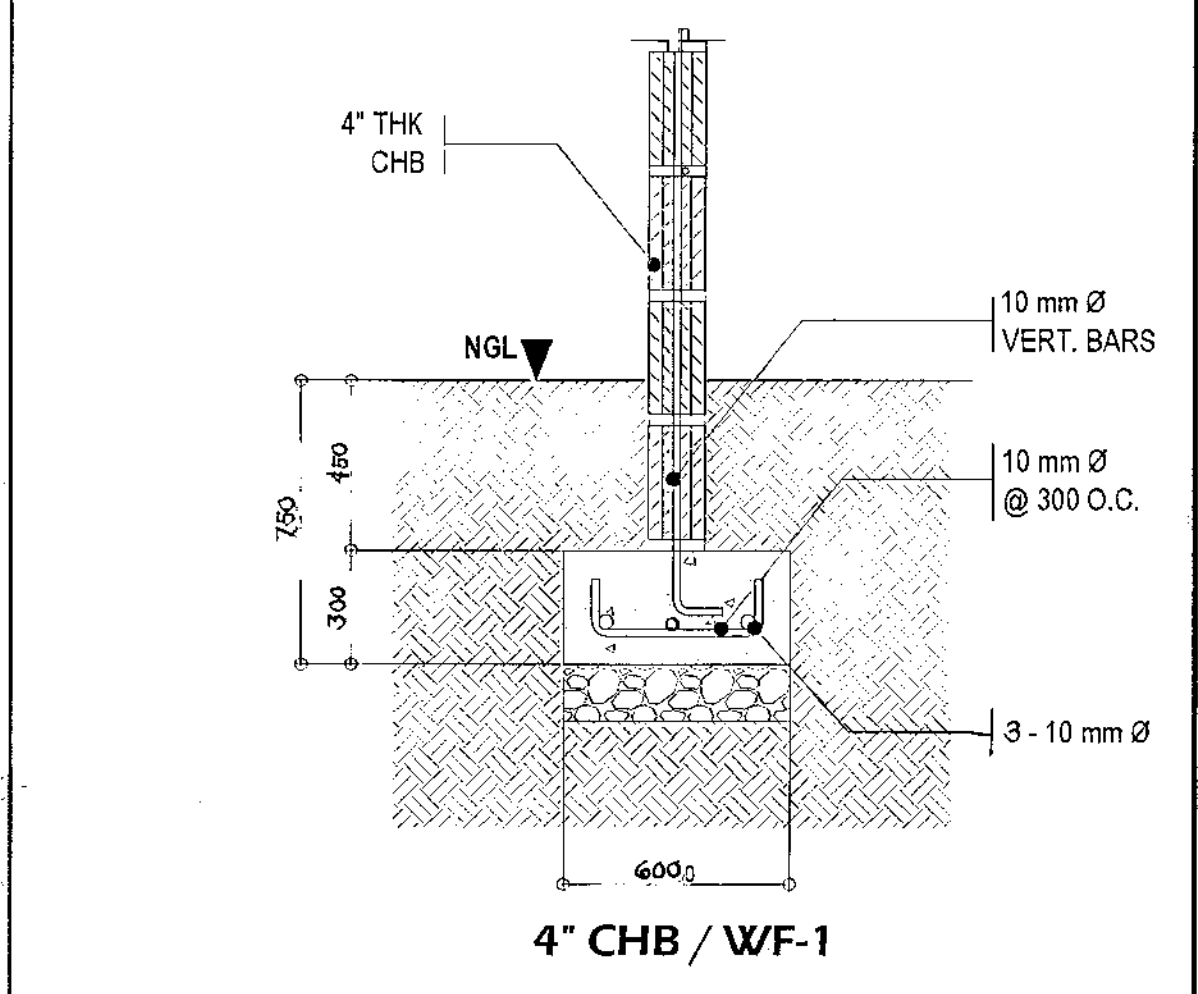
2 DETAIL OF COLUMN FOOTING w/ GRADE BEAM NOT TO SCALE



3 DETAIL OF RETAINING WALL



4 DETAIL OF CAPPING BEAM NOT TO SCALE



5 DETAIL OF WALL FOOTINGS NOT TO SCALE

MARK	DIMENSION (mm)			REINFORCEMENTS		D mm	REMARKS
	B	L	t	B	L		
FOOTING ONE (F - 1)	1500	1500	350	7 - 16 mmØ	7 - 16 mmØ	1200	SQUARE FOOTING
FOOTING TWO (F - 2)	1200	1200	300	5 - 16 mmØ	5 - 16 mmØ	1200	SQUARE FOOTING

6 SCHEDULE OF FOOTINGS

7 SCHEDULE OF COLUMNS NOT TO SCALE

MARK	C1	C2	2C1	2C2	3C/PC
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.

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RECOMMENDING APPROVAL

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

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

APPROVED BY:

RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)

LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY

SHEET CONTENTS:

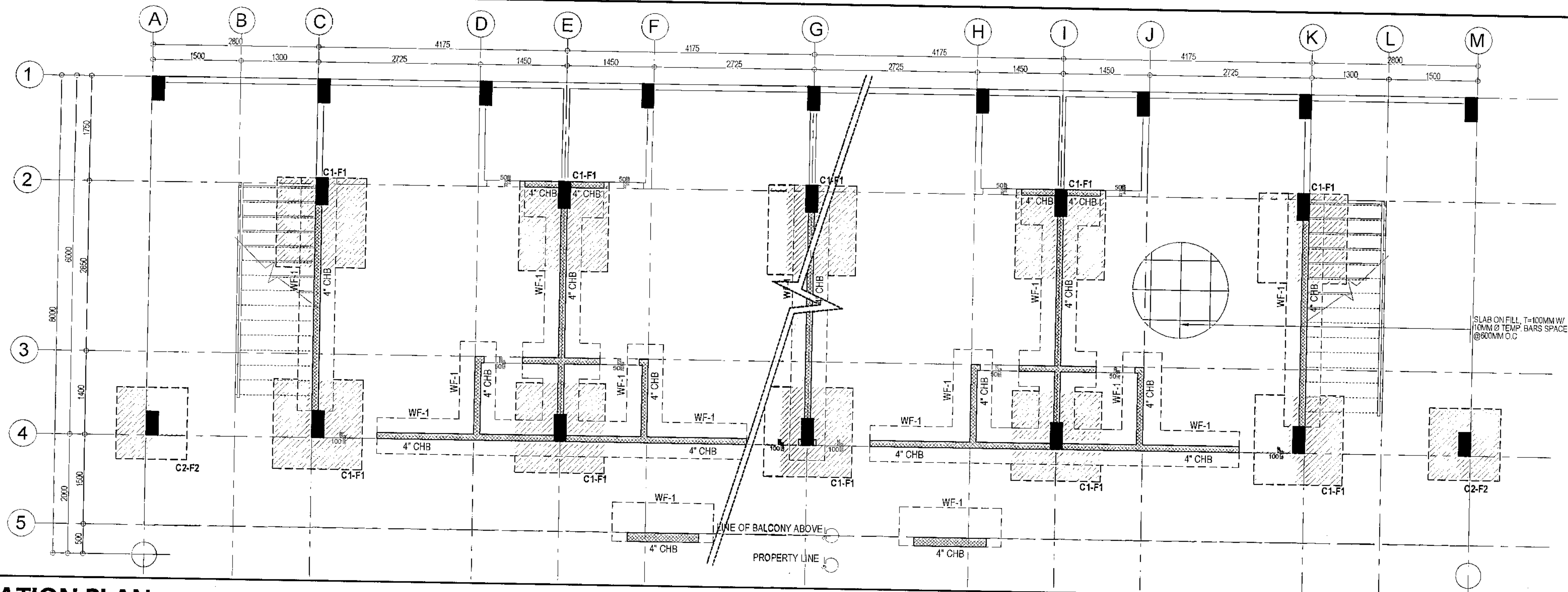
DETAIL OF COLUMN FOOTING
SCHEDULE OF FOOTINGS
DETAIL OF WALL FOOTING
DETAIL OF CAPPING BEAM
SCHEDULE OF COLUMNS

PROJECT NO.:

DATE: August 2020
DRAWN BY: Ar. P.N.B.
DESIGNED BY: Engr. M.E.A.M.
CHECKED BY: Ar. L.H. CHUA

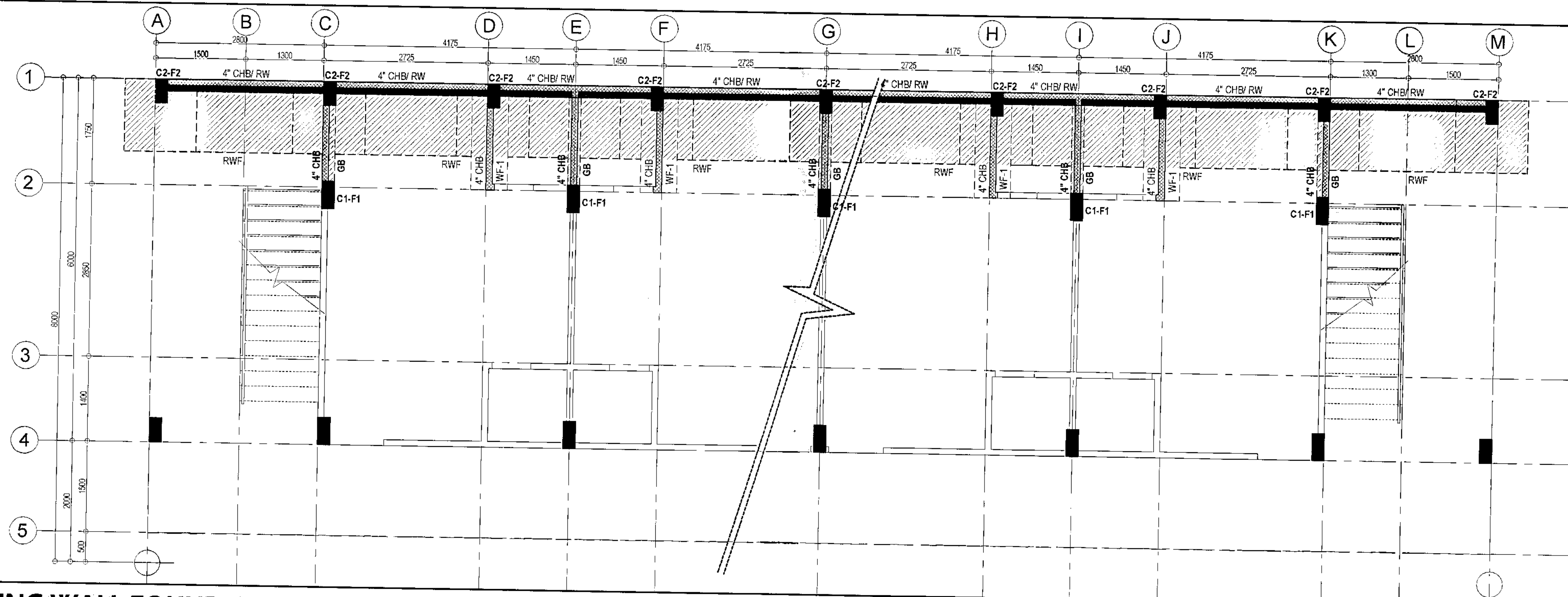
SHEET NO.:

ST-02



2 TYPICAL FOUNDATION PLAN

SCALE 1:50 METERS



1 TYPICAL RETAINING WALL FOUNDATION PLAN

SCALE 1:50 METERS



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RECOMMENDING APPROVAL

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

APPROVED BY :

Ricardo T. Belmonte Jr.
RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE :

**PROPOSED CONSTRUCTION
OF HOUSING UNITS NO. 28 AT
BRGY. NAGKAISANG NAYON
(3-CLUSTERS 72 UNITS)**

LOCATION : BRGY. NAGKAISANG NAYON, QUEZON CITY

SHEET CONTENTS :

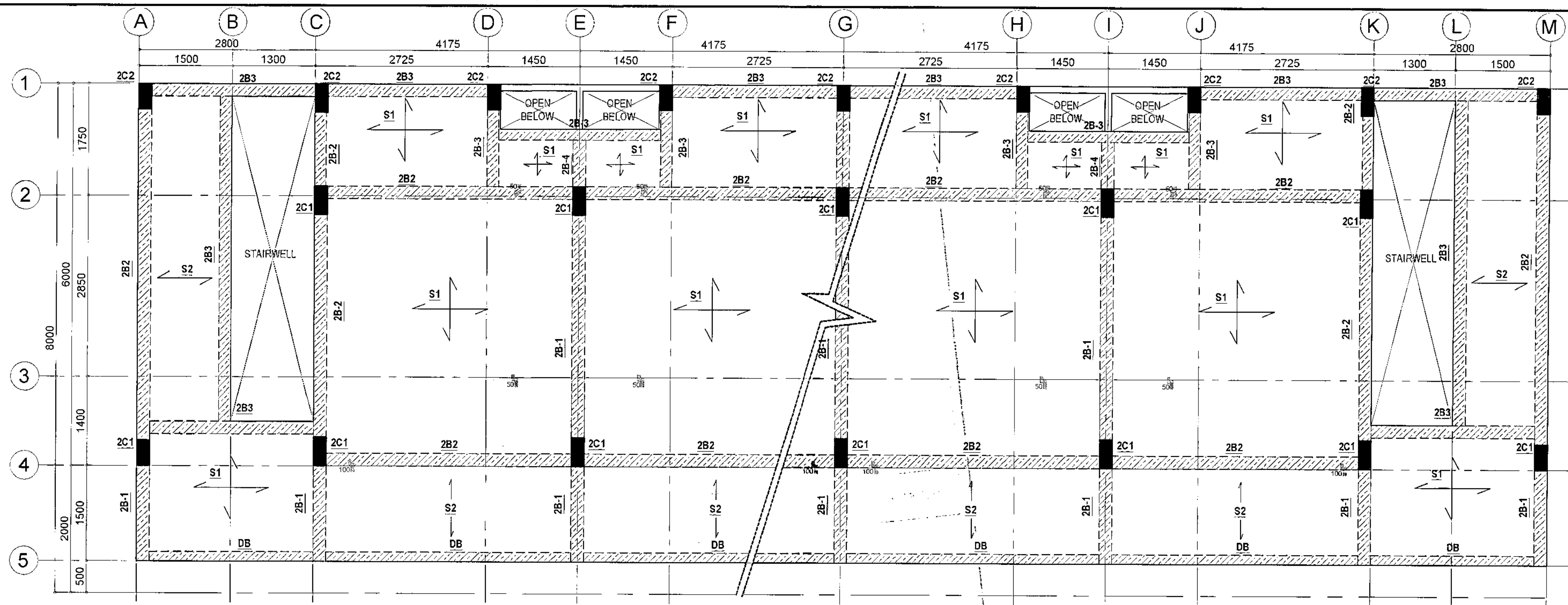
FOUNDATION PLAN
SECOND FLOOR
FRAMING PLAN

PROJECT NO.:

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

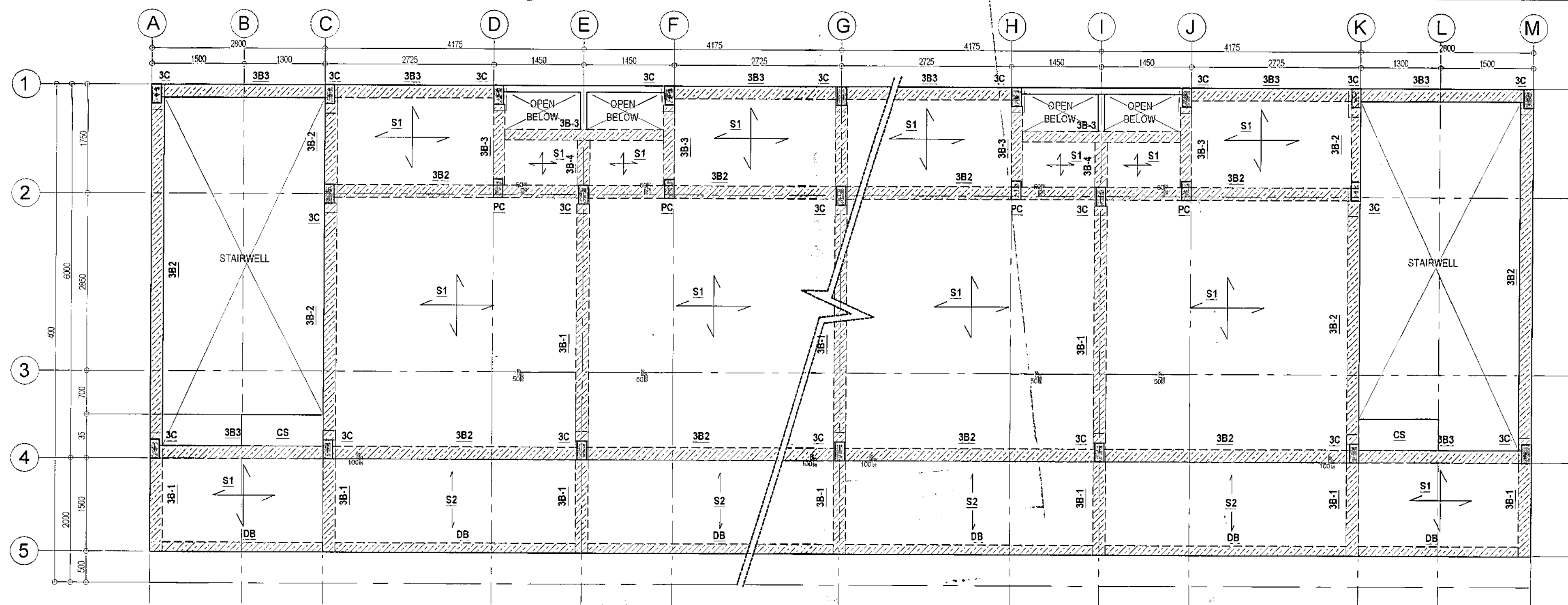
SHEET NO.:

ST-03



1 TYPICAL SECOND FLOOR FRAMING PLAN

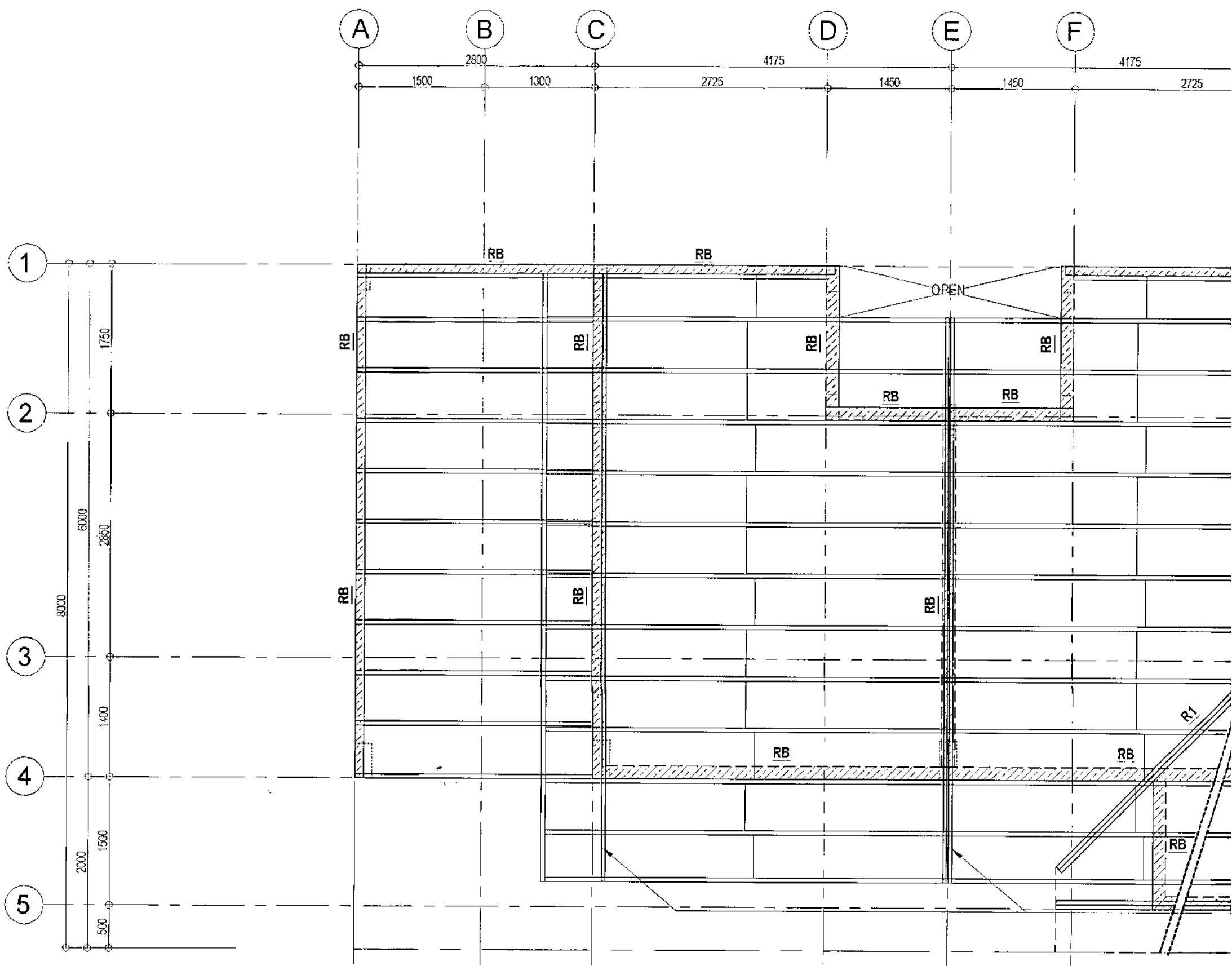
SCALE 1:50 METERS



2 TYPICAL THIRD FLOOR FRAMING PLAN

SCALE 1:50 METERS

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1 TYPICAL ROOF FRAMING PLAN



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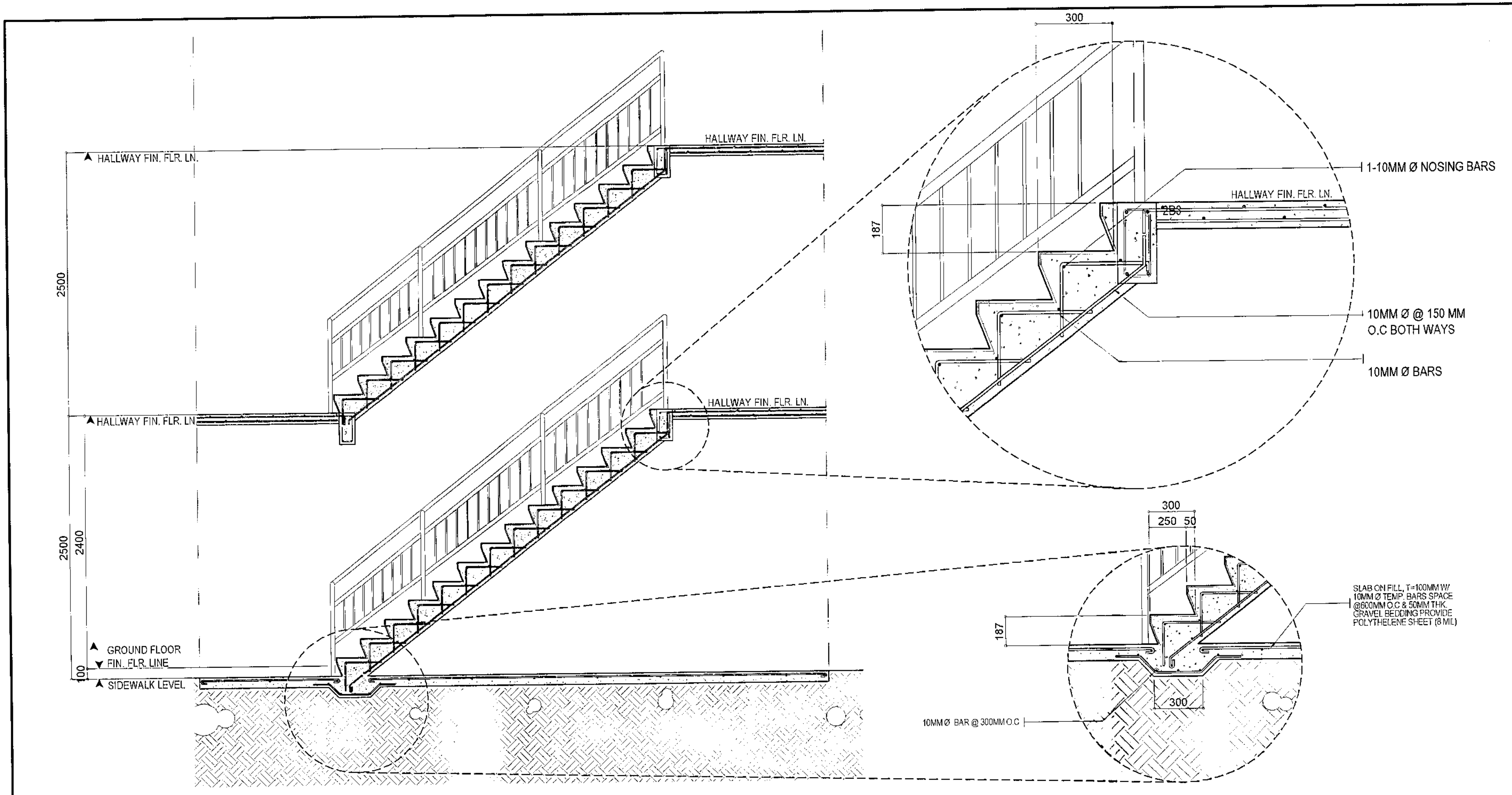
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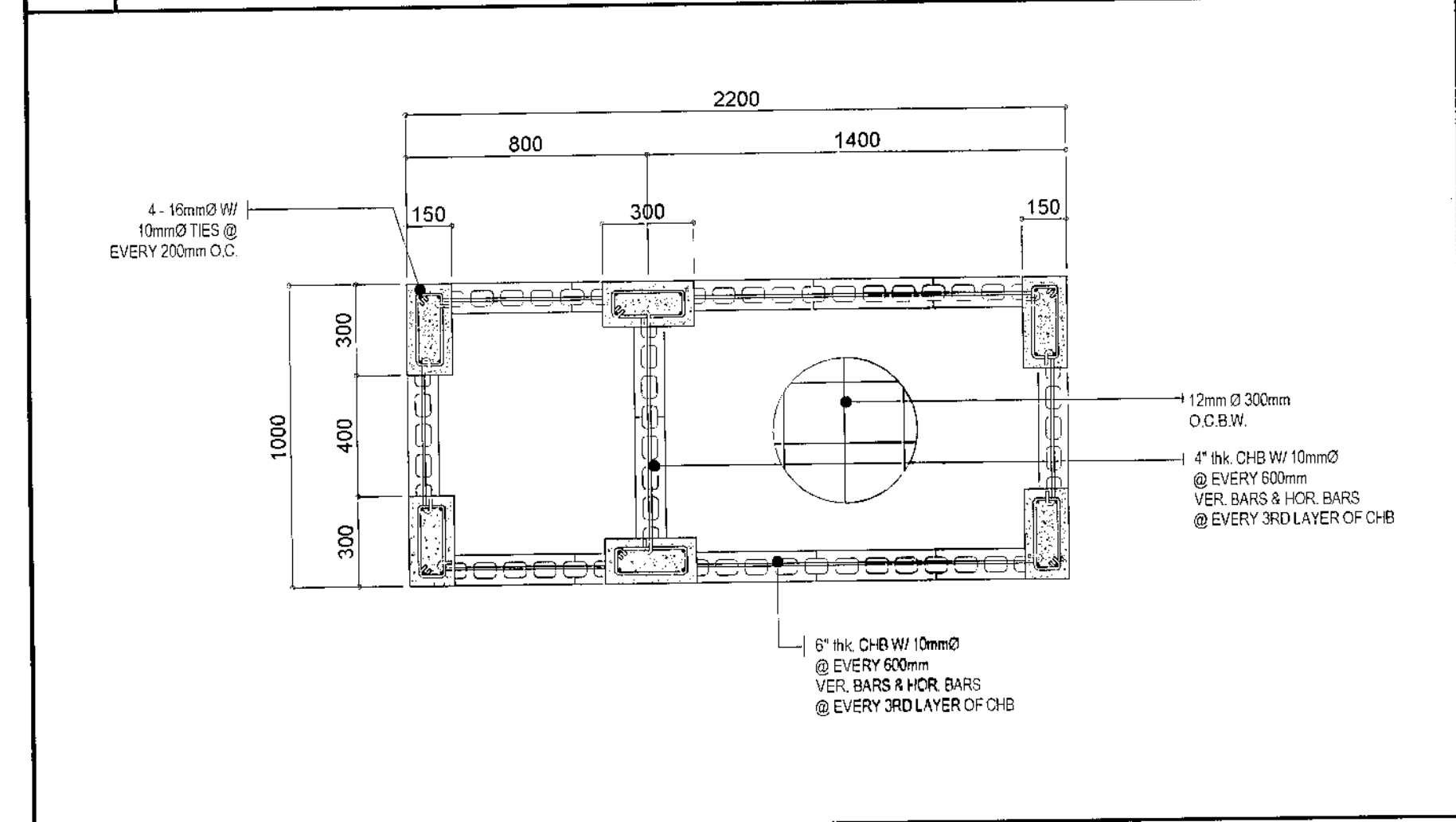
RECOMMENDING APPROVAL

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

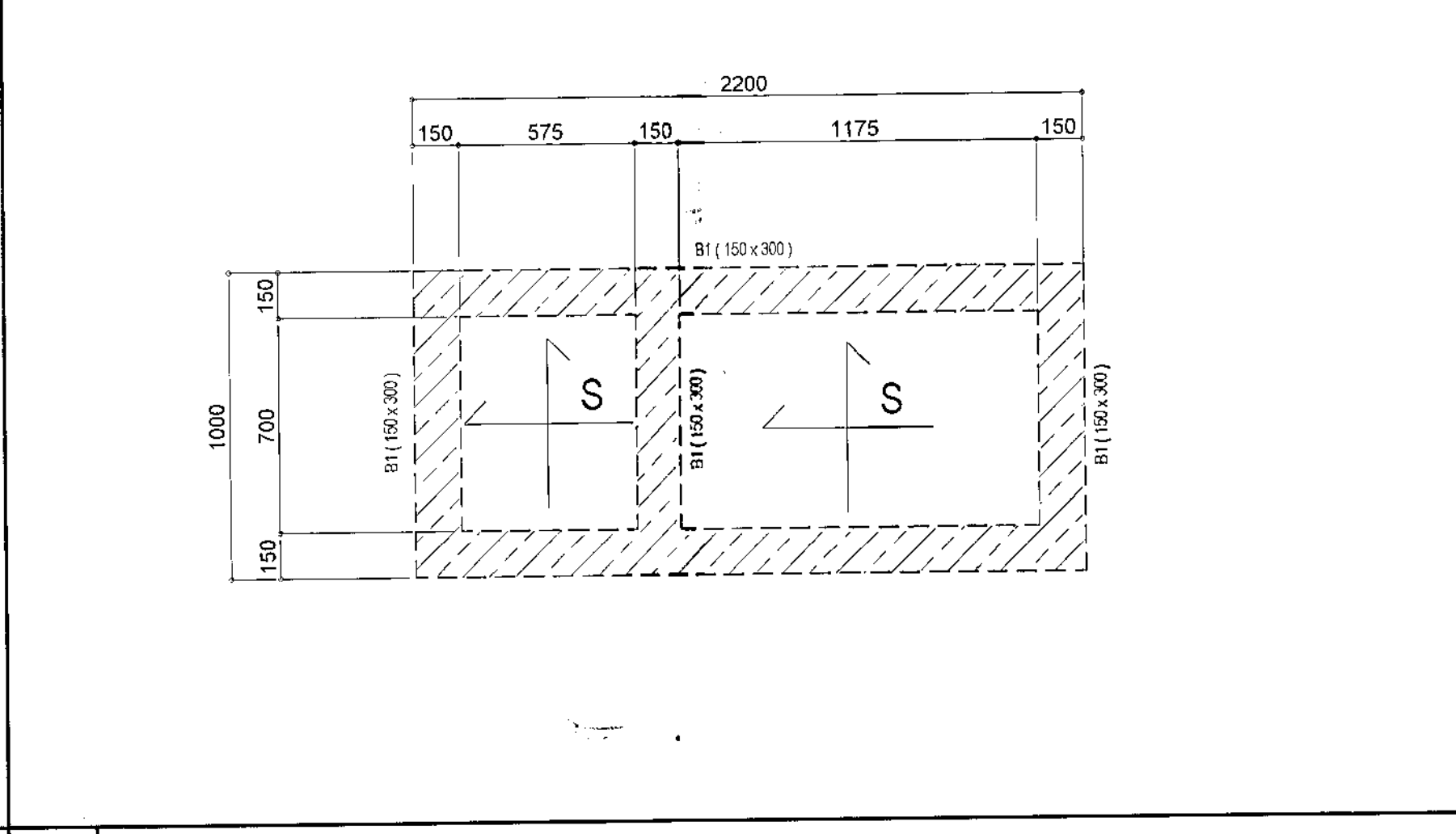
Engr. Isagani R. Verzosa Jr.
Engr. ISAGANI R. VERZOSA Jr.
OIC - CITY ENGINEER



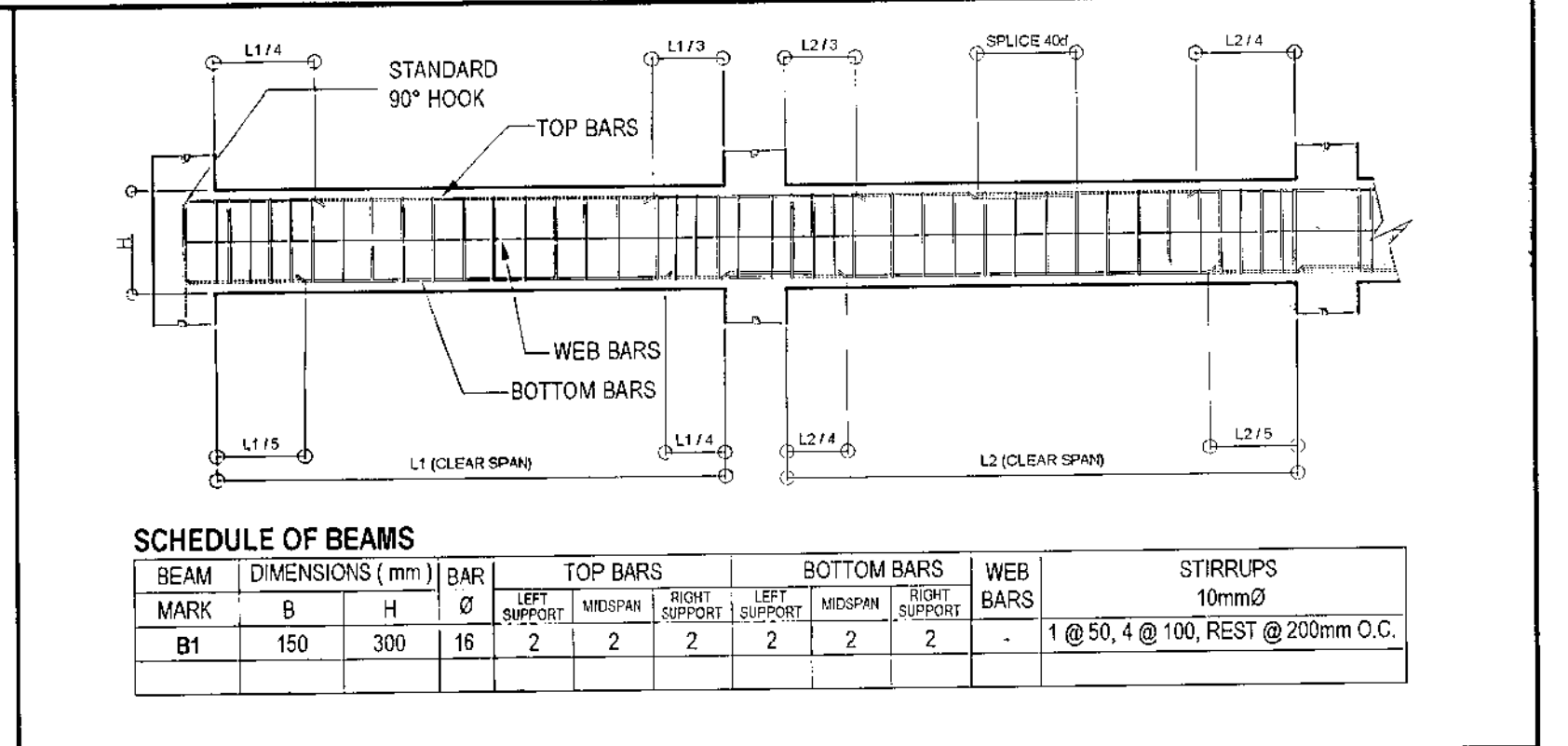
1 TYPICAL STAIR STRUCTURAL DETAIL SCALE 1:50 METERS



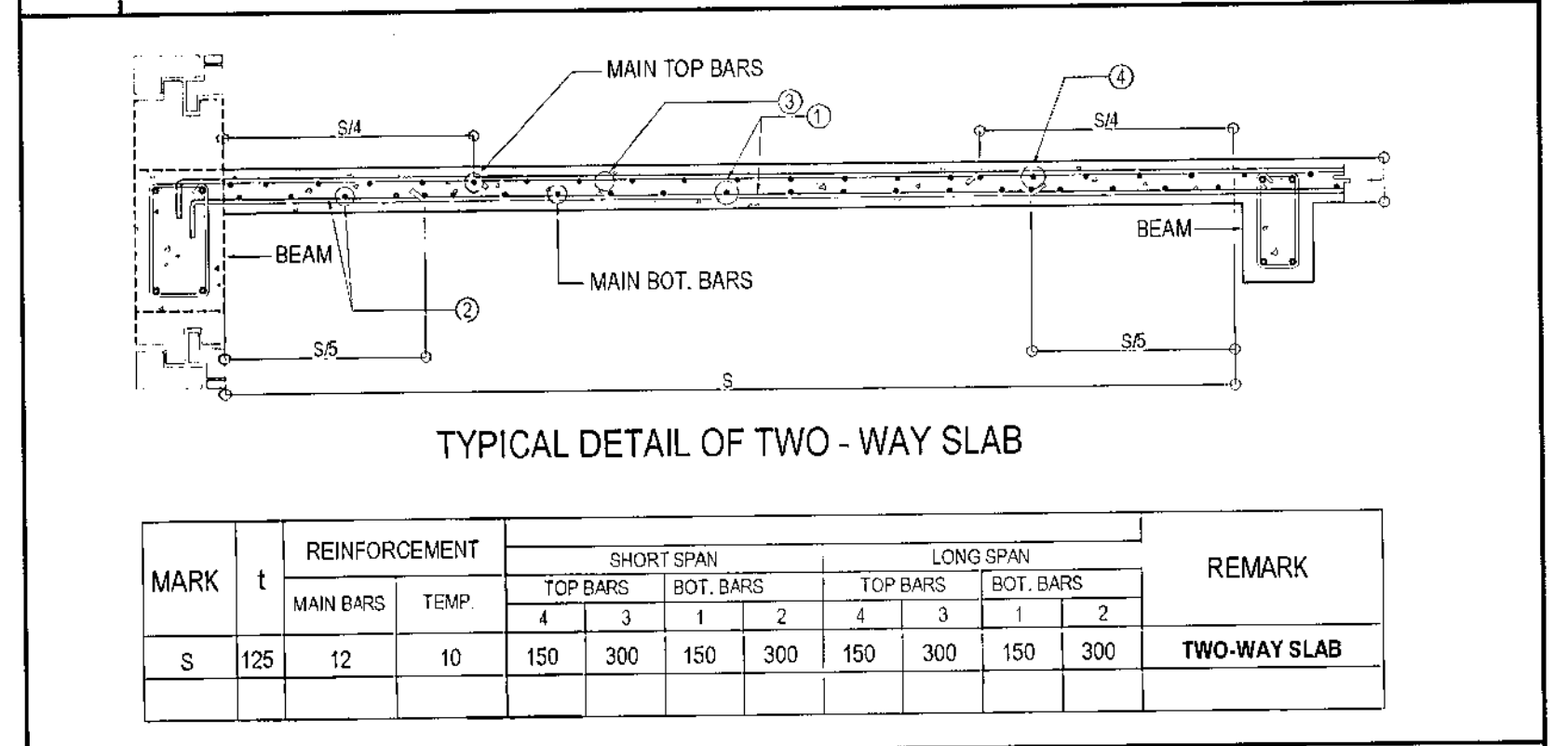
2 SEPTIC TANK FOUNDATION PLAN SCALE 1:20 METERS



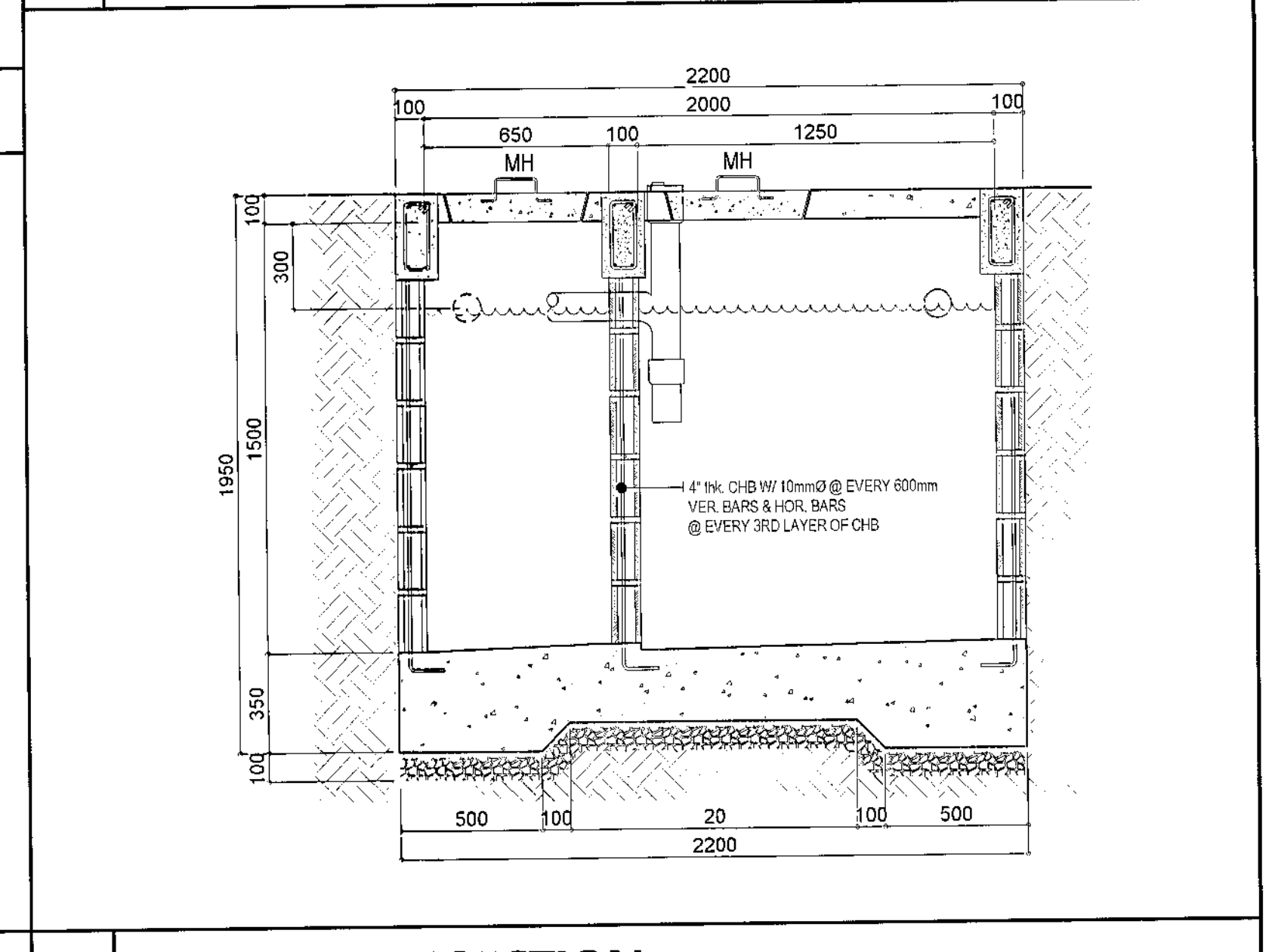
3 SEPTIC TANK FRAMING PLAN SCALE 1:20 METERS



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

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ST-06

1. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE W/ 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 ENGINEERS.
2. THE SERVICE ENTRANCE SHALL BE 220 VOLTS, SINGLE Ø, 3-WIRES, 60 HTZ, IN RIGID STEEL CONDUIT (RSC).
3. 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.
4. UNLESS SPECIFIED IN THE PLAN, MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 2.0mm² & 20mmØ (1/2") RESPECTIVELY. ALL WIRES SHALL BE RATED 600 VOLTS WITH THHN/ THW INSULATION.
5. 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.
6. CONVENIENCE OUTLET AND LIGHTING SWITCHES SHALL BE RATED AT 15A, 220V AS MANUFACTURED BY "NATIONAL" APPROVED EQUAL.
7. ALL MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHTING SWITCHES - 1.40m ABOVE FLOOR FINISH
b. CONVENIENCE OUTLETS - 0.30m ABOVE FLOOR FINISH OR AS REQUIRED
c. PANELBOARDS & CABINETS - 1.40m ABOVE FLOOR FINISH @ CENTER
d. EXIT LIGHT - .15m TOP OF DOOR JAMB
e. EMERGENCY LIGHT - 2.00m ABOVE FLOOR EMERGENCY
8. ALL BRANCHES AND CIRCUIT SHALL NOT BE LOADED MORE THAN 80% OF RATED CAPACITY.
9. 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)					SIZE OF WIRE & CONDUIT
		ENTRANCE COLUMN (W)	(L)	(H)	ECB MAIN		
1&2	36 units @ meter center 1 & 2	0.40 X 0.30 X 4.5	5.70	2.20	500 AT 2P 42 KAIC MCCB		2 x 125

LIGHTING AND POWER LAYOUT "LPP"

LPP 1 TO 20 TYPICAL

CKT. NO.	VOLTS	OUTLETS LO	CO	OTHER LOAD SERVE	LOAD AMPHERE	VOLT AMPHERE	CIRCUIT BREAKER	SIZE OF WIRES & CONDUIT
1	220	7			3.18	700	20AT 2P C.B	2-3.5 MM ² THW WIRE IN 20 MM Ø PVC PIPE
2			7		5.73	1260		2-3.5 MM ² 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 MM² THW COPPER WIRE AND 1 - 5.5
MM² THW GROUND WIRE IN 25 MM Ø PVC / x 5.5

A. SERVICE ENTRANCE CONDUCTOR COMPUTATION & MAIN CIRCUIT BREAKER COMPUTATION

*METER CENTER 1 & 2
36 UNITS x 18.91AMPS/UNIT = 680.76 AMPERES
APPLYING 70% D.F
680.76 AMPS X .70 D.F.= 476.53 AMPERES

MAIN CIRCUIT BREAKER IN NEMA 3R ENCLOSURE

W/ METAL DEADFRONT

USE: 500 AT 2P 42 KAIC @ 240 V MCCB

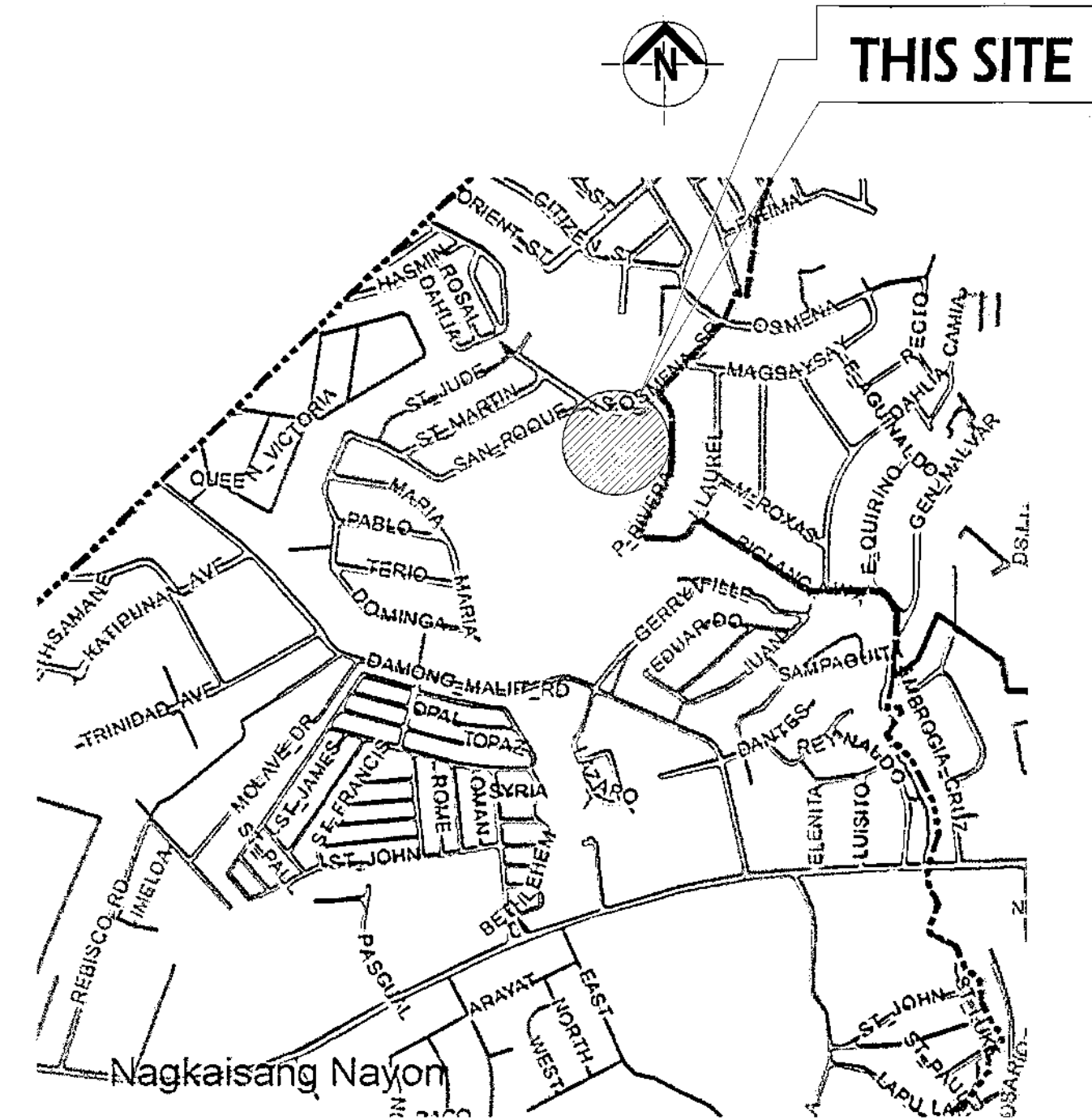
SERVICE ENTRANCE CONDUCTOR

USE: TWO SETS OF 2-125MM² THHN COPPER

WIRE & 1-50MM² THW GROUND WIRE IN 65MMØ

RSC/ 2 X 125

1 GENERAL NOTES



3 LOAD SCHEDULE

- Legend for 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
 - ⊗ - 4"Ø 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.



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RECOMMENDING APPROVAL

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

APPROVED BY:

RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION
OF HOUSING UNITS NO. 28 AT
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(3-CLUSTERS-72 UNITS)

LOCATION: BRGY. NAGKAISSANG NAYON, QUEZON CITY

SHEET CONTENTS:

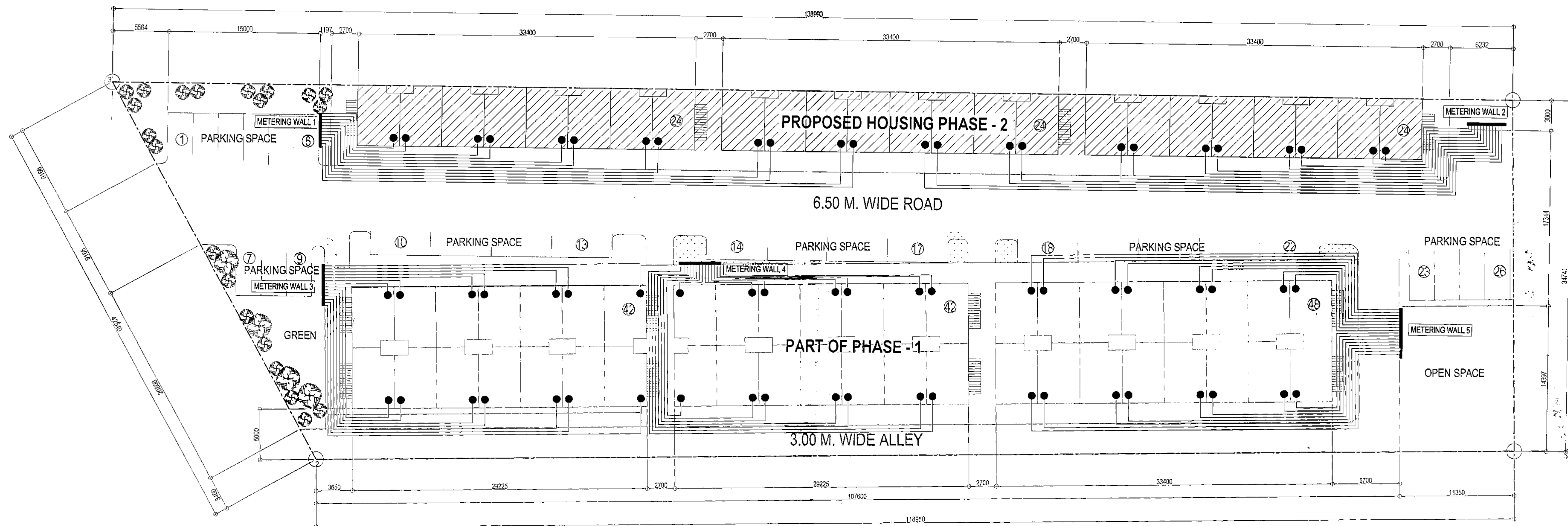
SITE DEVELOPMENT PLAN

PROJECT NO.:

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

SHEET NO.:

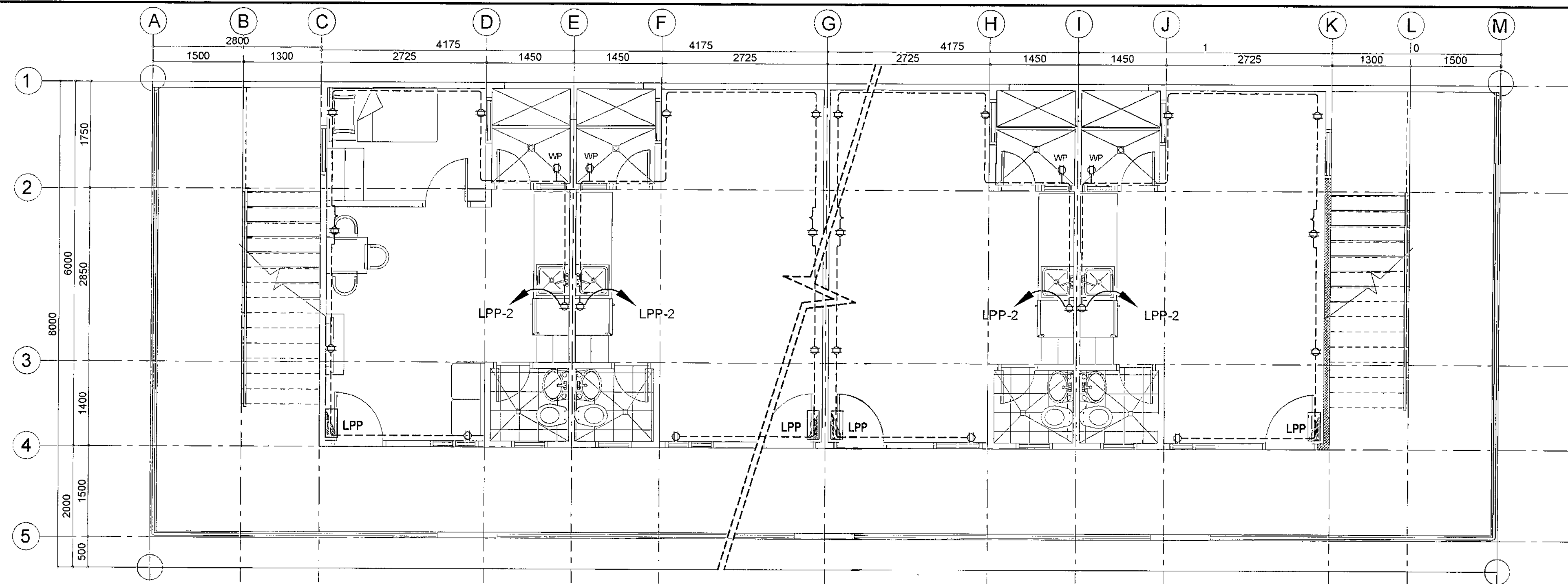
EL-01



1 SITE DEVELOPMENT PLAN/ ELECTRICAL FEEDER LINE TO METER CENTER UNIT

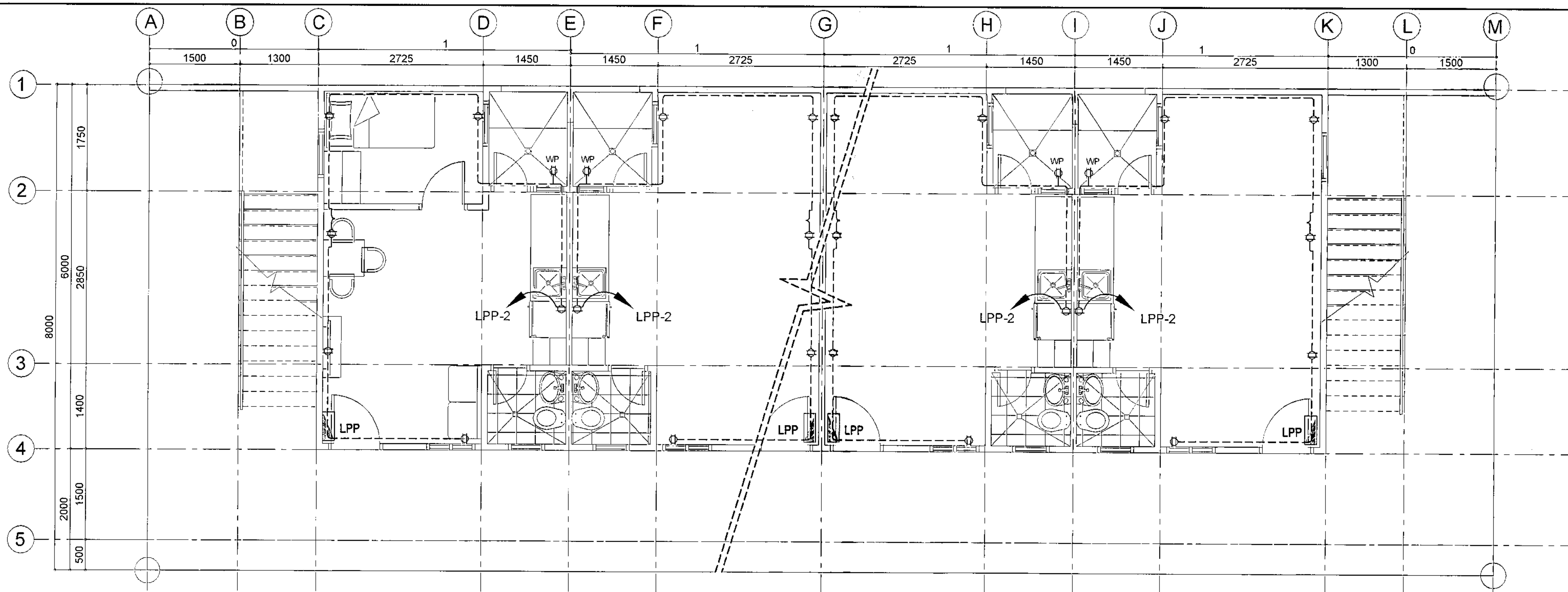
SCALE 1 : 250 M

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		<p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>		<p>Engr. ISAGANI R. VERZOSA Jr. CITY ENGINEER</p>	<p>RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR</p>	<p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p>	<p>SITE DEVELOPMENT PLAN</p>	<p>August 2020</p>	<p>EL-02</p>
		<p>Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p>		<p>Engr. ISAGANI R. VERZOSA Jr. CITY ENGINEER</p>	<p>RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR</p>	<p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p>	<p>SITE DEVELOPMENT PLAN</p>	<p>August 2020</p>	




2 TYPICAL SECOND FLOOR POWER LAYOUT

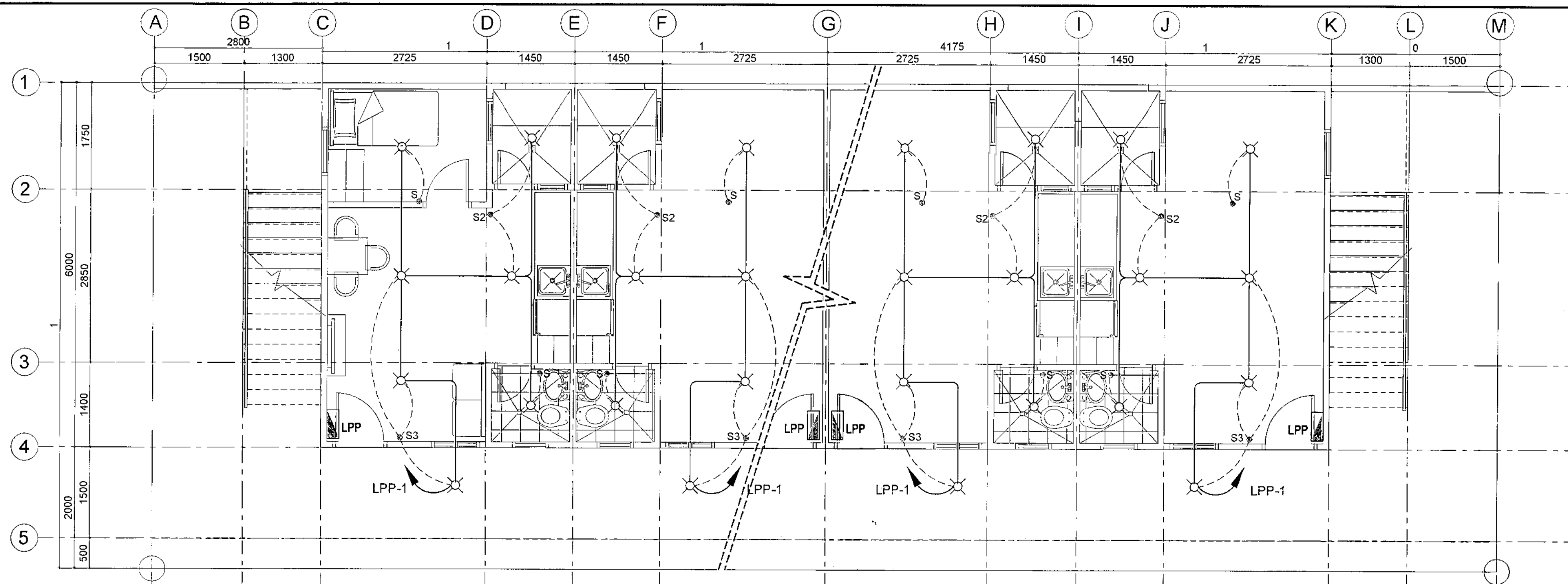
SCALE 1:50 METERS



1 TYPICAL GROUND FLOOR POWER LAYOUT

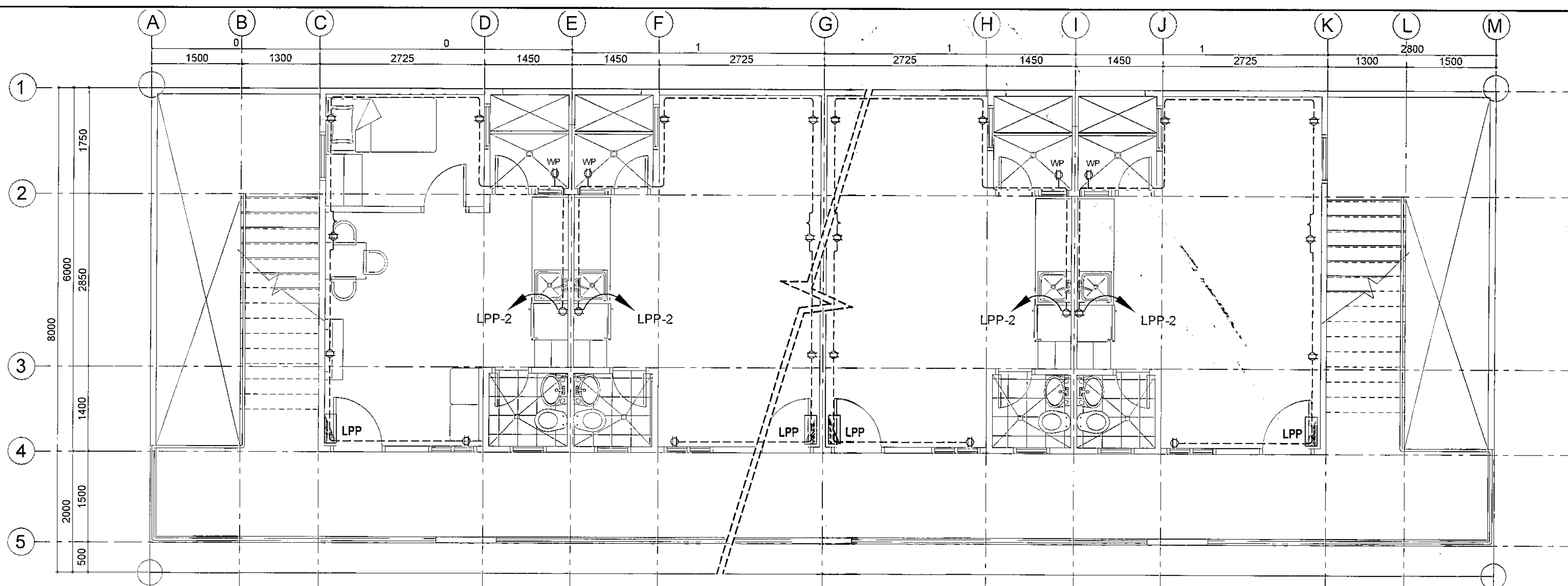
SCALE 1:50 METERS

 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT SFC CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DULAMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS ONLY SHOWN, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE FOR THE INTELLECTUAL PROPERTY OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE SUBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE INCLUSIVE 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 RESTORATION OF AND 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> CITY ARCHITECT</p> <p><i>Engr. ISAGANI R. VERZOSA Jr.</i> OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>RICARDO T. BELMONTE Jr.</i> SECRETARY TO THE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>GROUND AND SECOND FLOOR POWER LAYOUT</p>	<p>PROJECT NO.:</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>SHEET NO.:</p> <p>EL-03</p>
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2 TYPICAL GROUND FLOOR LIGHTING LAYOUT

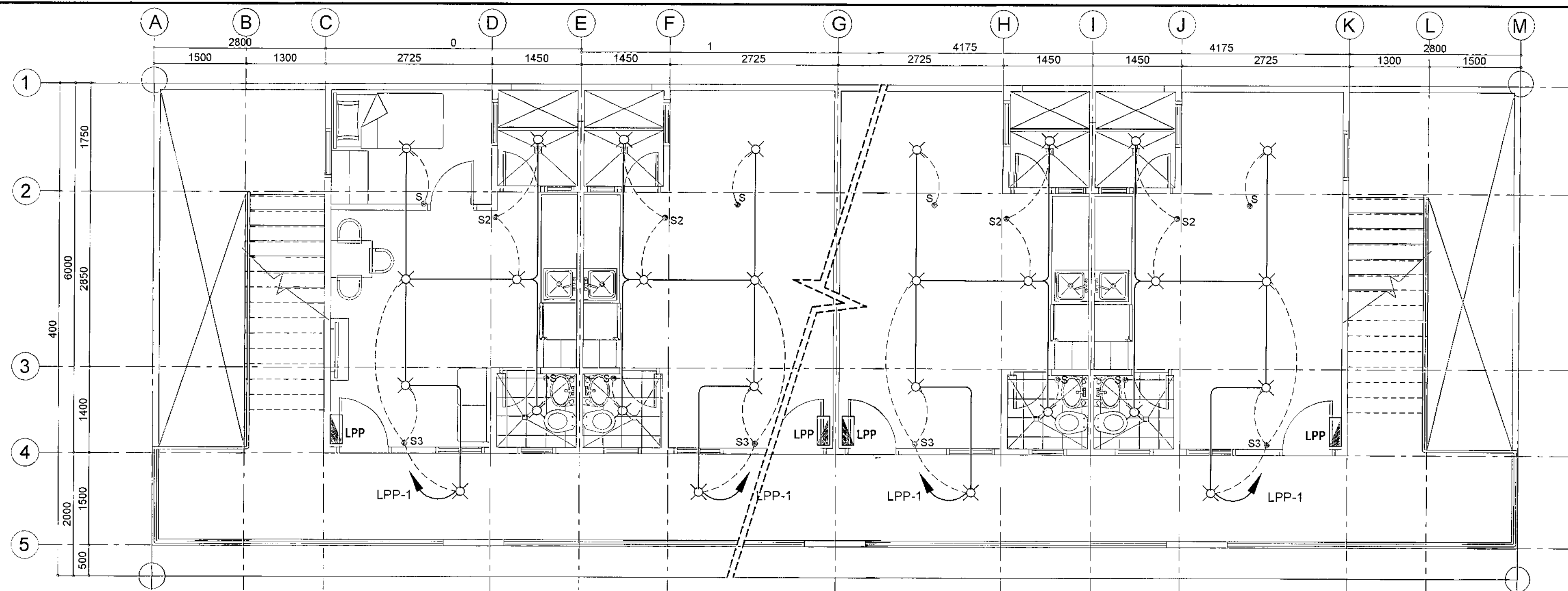
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1 TYPICAL THIRD FLOOR POWER LAYOUT

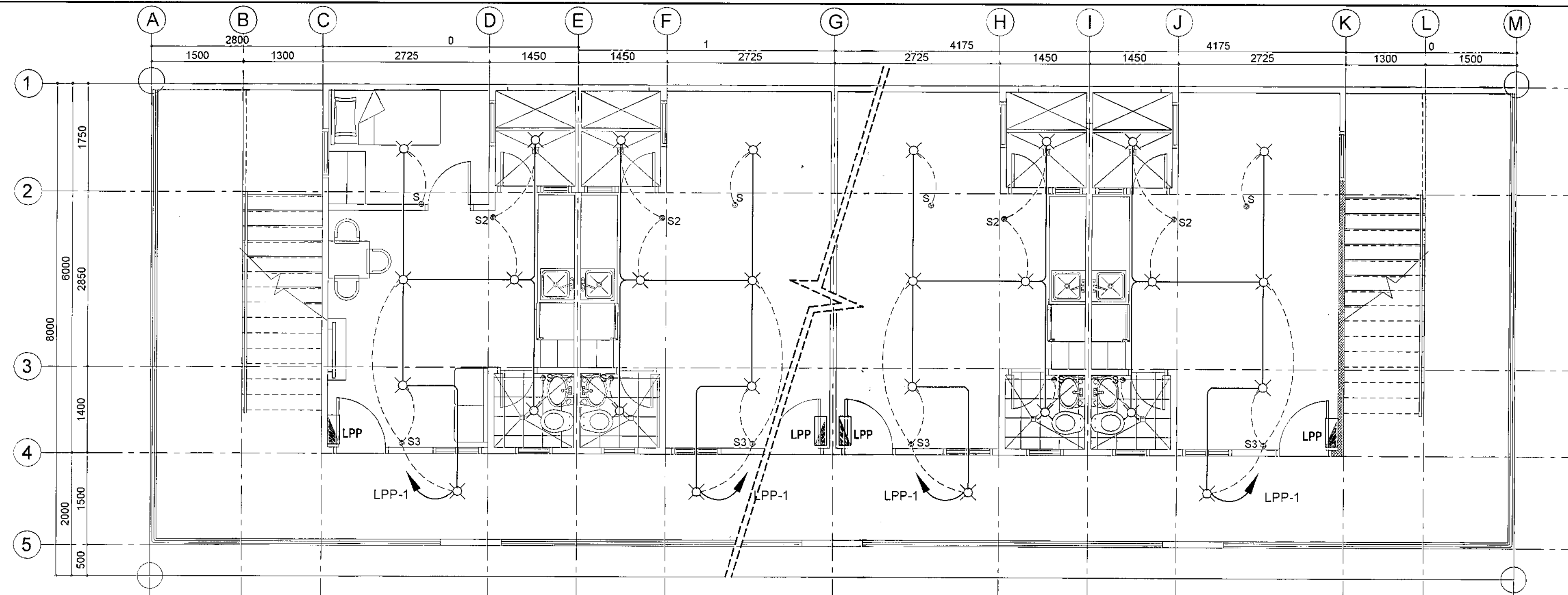
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 <p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT SF CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISOR:</p> <p><small>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTY AND DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHATEVER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE BUREAU OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OF BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucille H. Chua</i> Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>Ricardo T. Belmonte Jr.</i> RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>THIRD FLOOR POWER LAYOUT GROUND FLOOR LIGHTING LAYOUT</p>	<p>PROJECT NO.:</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>SHEET NO.:</p> <p>EL-04</p>
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2 TYPICAL THIRD FLOOR LIGHTING LAYOUT

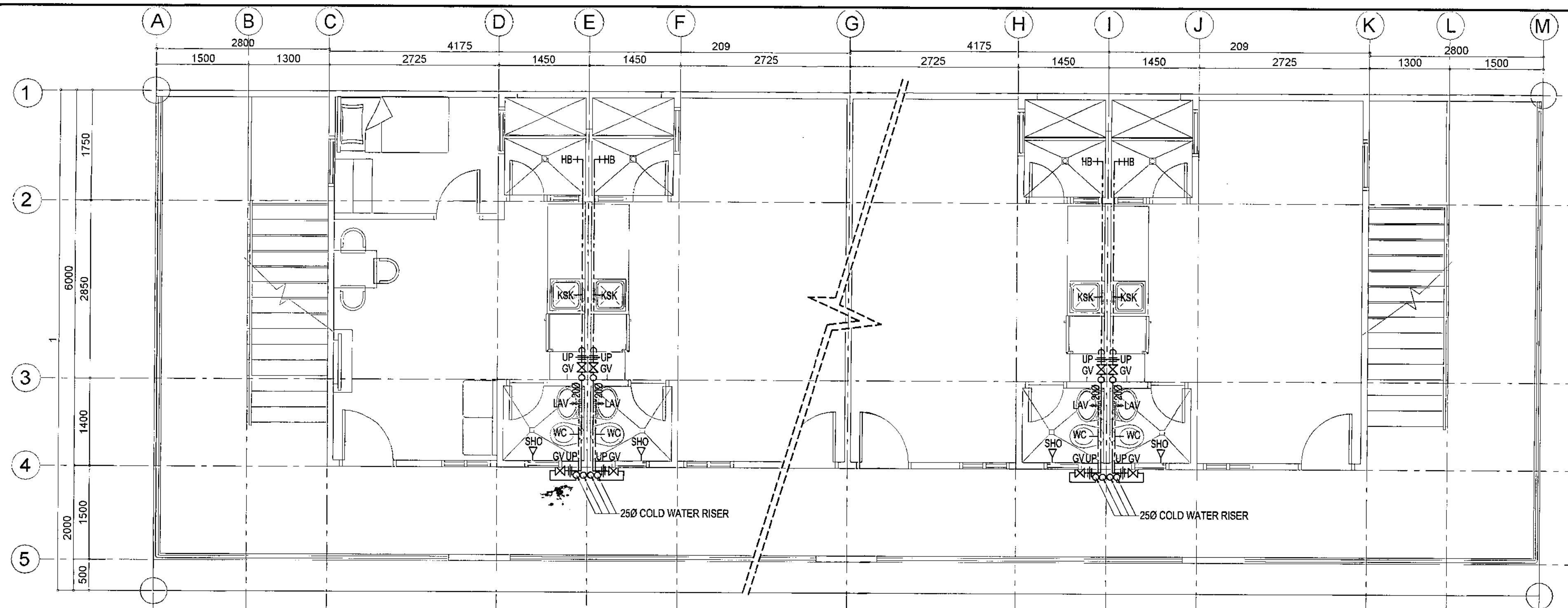
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1 TYPICAL SECOND FLOOR LIGHTING LAYOUT

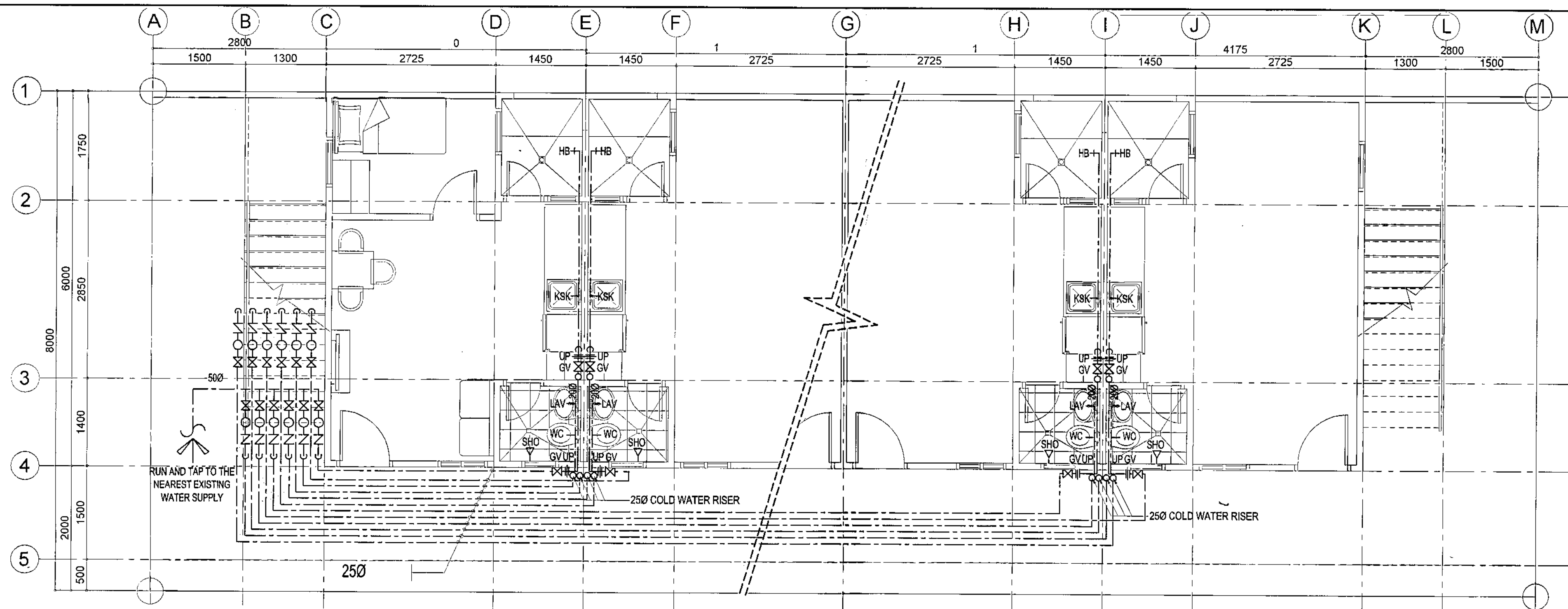
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<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT 5th CIVIC CENTER - D (Bldg. 2nd), QUEZON CITY HALL COMPOUND, ELLIPICAL ROAD, DILIMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p><small>DRAWING AND SPECIFICATIONS ONLY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHENEVER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE PRACTICE OF HIS OR HER OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</small></p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ar. Lucille H. Chua</i> Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT</p> <p><i>Engr. Isagani R. Verzosa Jr.</i> Engr. ISAGANI R. VERZOSA Jr. OIC - CITY ENGINEER</p>	<p>APPROVED BY:</p> <p><i>Ricardo T. Belmonte Jr.</i> RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR</p>	<p>PROJECT TITLE:</p> <p>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3 - CLUSTERS-72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>SECOND AND THIRD FLOOR LIGHTING LAYOUT</p>	<p>PROJECT NO.:</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>SHEET NO.:</p> <p>EL-05</p>
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2 TYPICAL SECOND FLOOR WATER LINE LAYOUT

SCALE 1:50 METERS



1 TYPICAL GROUND FLOOR WATER LINE LAYOUT

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



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COPIES OF SAID DOCUMENTS FOR USE IN
THE REPUTATION 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.
CIC - CITY ENGINEER

APPROVED BY:

RICARDO T. BELMONTE Jr.
SECRETARY TO THE MAYOR

PROJECT TITLE:

PROPOSED CONSTRUCTION
OF HOUSING UNITS NO. 28 AT
BRGY. NAGKAISANG NAYON
(3- CLUSTERS-72 UNITS)

LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY

SHEET CONTENTS:

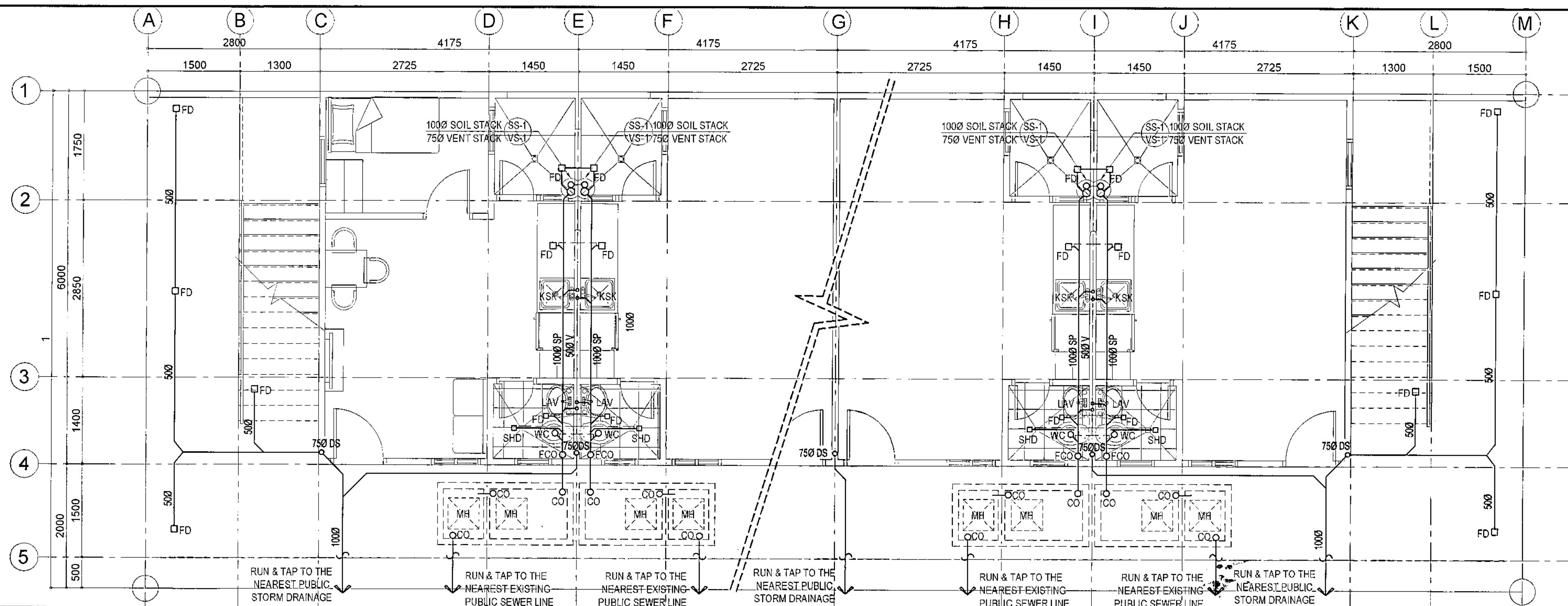
GROUND FLOOR WATER LINE
LAYOUT
SECOND FLOOR WATER LINE
LAYOUT

PROJECT NO.:

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

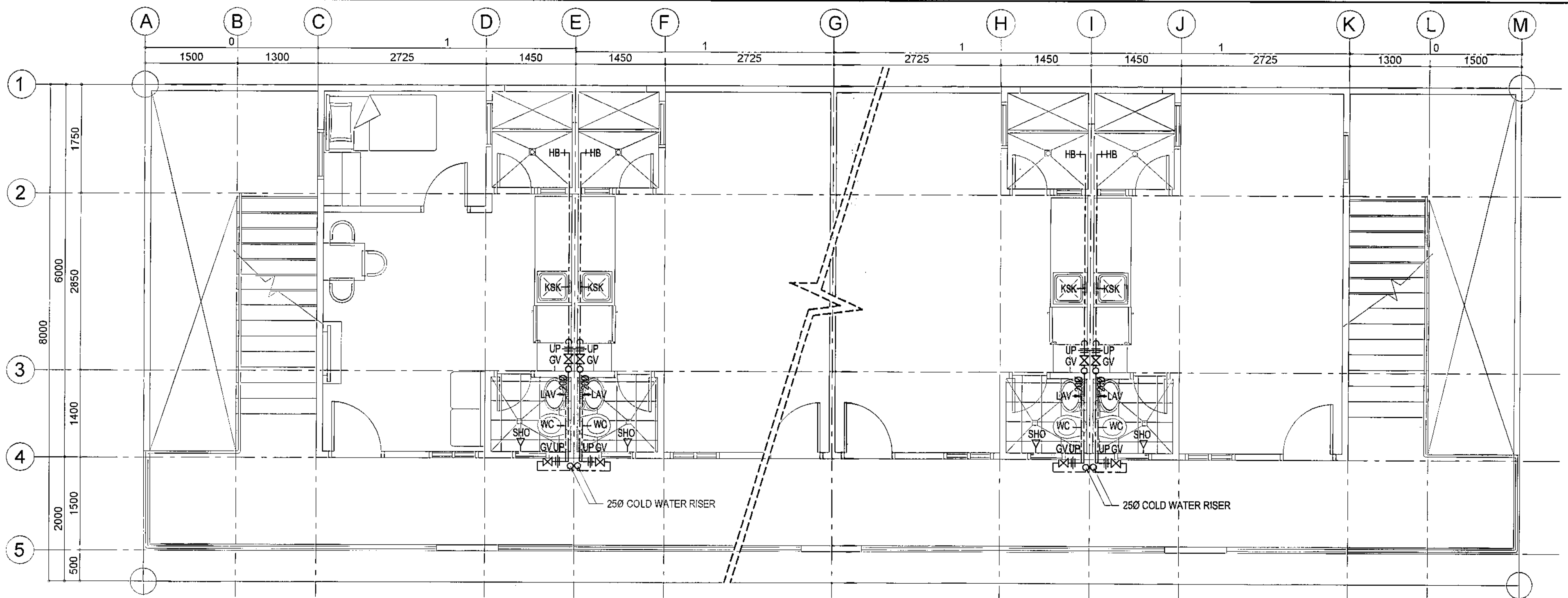
SHEET NO.:

PL-02



2 TYPICAL GROUND FLOOR SANITARY AND STORM DRAIN LAYOUT

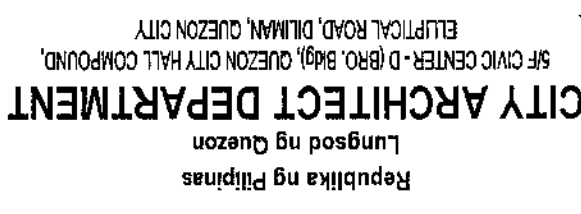
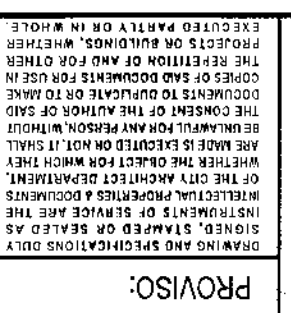
SCALE 1:50 METERS



1 TYPICAL THIRD FLOOR WATER LINE LAYOUT

SCALE 1:50 METERS

<p>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT S/F CIVIC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILMAN, QUEZON CITY</p>	<p>PROVISO:</p> <p>DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXERCISED OR NOT, IT SHALL BE HELD AS UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</p>	<p>RECOMMENDING APPROVAL</p> <p>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>PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)</p> <p>LOCATION: BRGY. NAGKAISANG NAYON, QUEZON CITY</p>	<p>SHEET CONTENTS:</p> <p>THIRD FLOOR WATER LINE LAYOUT 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. BILAL CAPO CHECKED BY: Ar. L.H. CHUA</p>	<p>SHEET NO.:</p> <p>PL-03</p>
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ARTMENT
HALL COMPOUND,
CITY

RECOMMENDING APPROVAL

RICARDO T. BELMONTE, Jr.
SECRETARY TO THE MAYOR

SECOND FLOOR SANITARY
AND STORM DRAIN LAYOUT
THIRD FLOOR SANITARY
AND STORM DRAIN LAYOUT

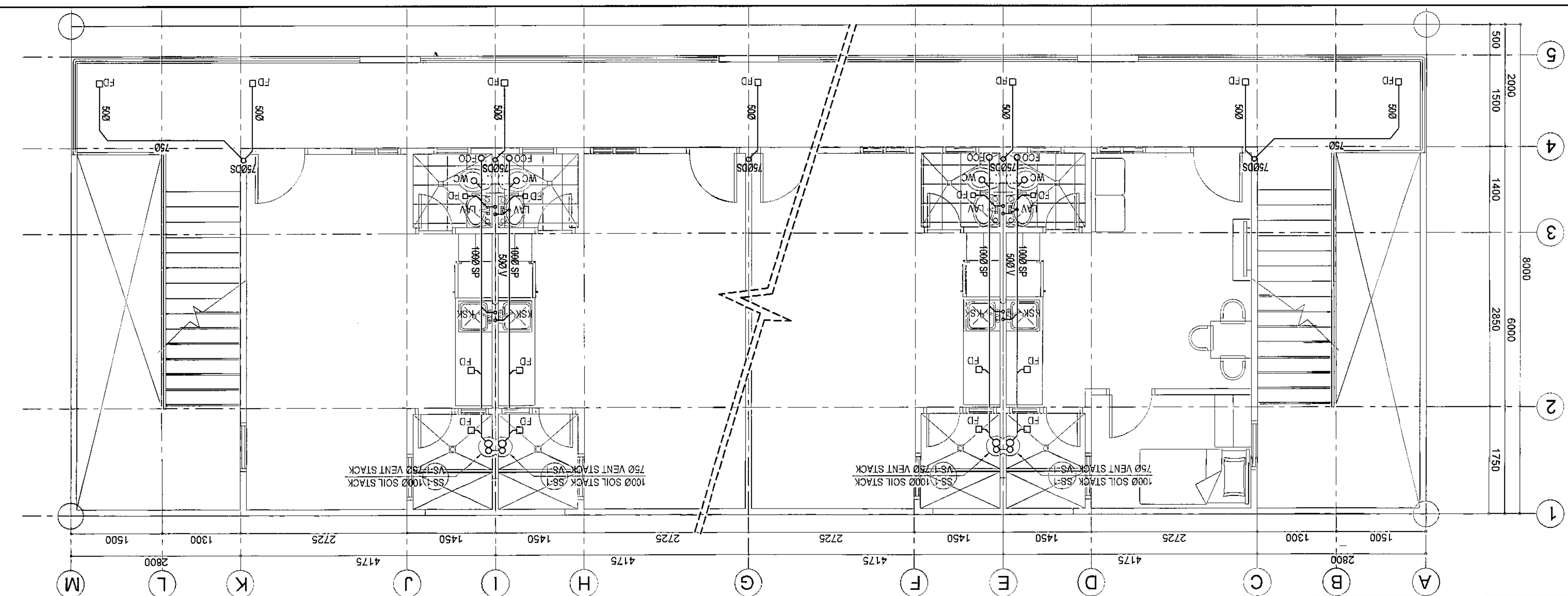
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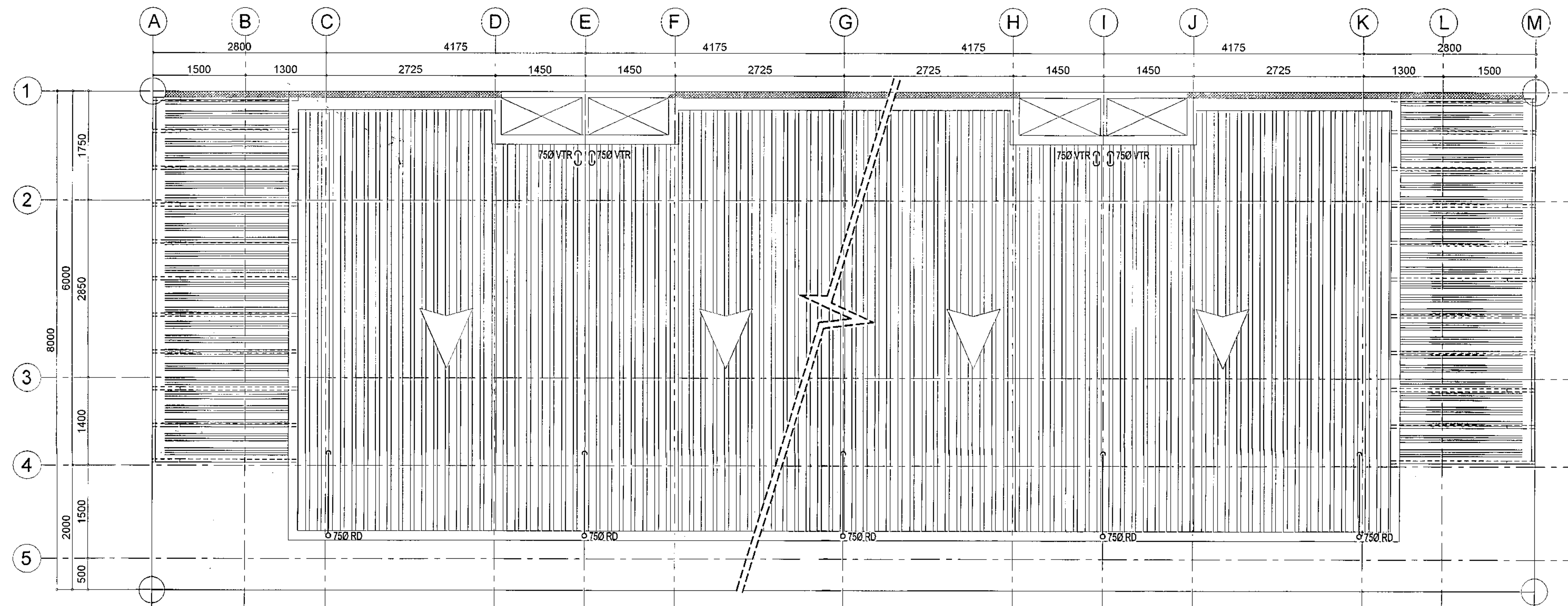
DATE	September 2020
DRAWN BY	Ar. P.N.B
DESIGNED BY	Engr. E.R. SIBUCAO
CHECKED BY	Ar. L.H. CHUA

SCALE 1:50 METERS





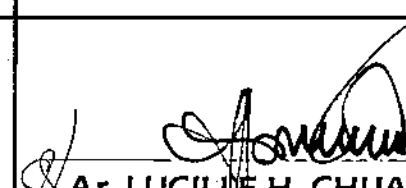
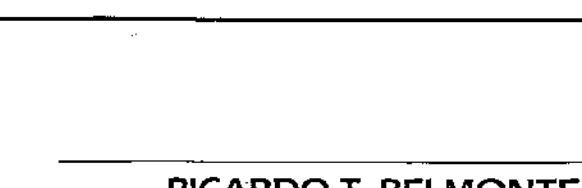
SCALE 1:50 METERS





1 TYPICAL ROOF STORM DRAIN LAYOUT

SCALE 1:50 METERS

 <div>Republika ng Pilipinas Lungsod ng Quezon CITY ARCHITECT DEPARTMENT SFC CMC CENTER - D (BRO. Bldg), QUEZON CITY HALL COMPOUND, ELLIPTICAL ROAD, DILIMAN, QUEZON CITY</div>	 <div>PROVISO: DRAWING AND SPECIFICATIONS DULY SIGNED, STAMPED OR SEALED AS INSTRUMENTS OF SERVICE ARE THE INTELLECTUAL PROPERTIES & DOCUMENTS OF THE CITY ARCHITECT DEPARTMENT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT IT SHALL BE UNLAWFUL FOR ANY PERSON, WITHOUT THE CONSENT OF THE AUTHOR OF SAID DOCUMENTS TO REPRODUCE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE.</div>	RECOMMENDING APPROVAL		APPROVED BY :		PROJECT TITLE :	SHEET CONTENTS :	PROJECT NO.:	SHEET NO.:						
		 Ar. LUCILLE H. CHUA, uap, piep CITY ARCHITECT		 Engr. ISAGANI R. VERZOSA Jr. CIC - CITY ENGINEER		RICARDO T. BELMONTE Jr. SECRETARY TO THE MAYOR	PROPOSED CONSTRUCTION OF HOUSING UNITS NO. 28 AT BRGY. NAGKAISANG NAYON (3-CLUSTERS-72 UNITS)	DECK SANITARY AND STORM DRAIN LAYOUT							
						LOCATION : BRGY. NAGKAISANG NAYON, QUEZON CITY		<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
DATE	September 2020														
DRAWN BY	Ar. P.N.B														
DESIGNED BY	Engr. E.R. SIBUCAO														
CHECKED BY	Ar. L.H. CHUA														

PL-06

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. 28
(3 CLUSTER - 72 UNITS)

LOCATION : BARANGAY NAGKAISANG NAYON, DISTRICT 5, QUEZON CITY

PROJECT NO. : 21 - 00002

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.	OUTER UNIT (3 Cluster - 18 Units)				
III.	INNER UNIT A (3 Cluster - 18 Units)				
IV.	INNER UNIT B (3 Cluster - 36 Units)				
V.	COMMON AREA (3 Cluster)				

TOTAL COST P _____

LUMP SUM BID IN WORDS : _____

Contractor : _____

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/ Completion (*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.

