

**CONSTRUCTION OF FOUR  
STOREY NATIONAL EDUCATORS  
ACADEMY OF THE PHILIPPINES  
BUILDING**

Government of the Republic of the Philippines

**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***



Republic of the Philippines  
Department of Education  
Cordillera Administrative Region  
Wangal, La Trinidad, Benguet

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## Invitation to Bid for the Construction of Four Storey National Educators Academy of the Philippines Building

1. The Department of Education – Cordillera Administrative Region Regional Office (DepEd-CAR RO), through the **2022 General Appropriations Act** intends to apply the sum of **Thirty-Two Million Pesos Only (Php 32,000,000.00)** with SARO No. OSEC-CAR-22-2859 being the Approved Budget for the Contract (ABC) to payments under the contract for **Construction of Four Storey National Educators Academy of the Philippines Building with identification number CB 2022-08-005**. Bids received in excess of the ABC shall be automatically rejected.
2. The DepEd-CAR RO now invites bids for the above Procurement Project. Completion of the Works require **Three Hundred Sixty (360) calendar days**. 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 DepED-CAR Regional Office and inspect the Bidding Documents at the address given below from 8:30am to 4:00pm, Mondays to Fridays.
5. A complete set of Bidding Documents may be acquired by interested bidders starting **August 17, 2022** from the 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, in the amount of **Twenty-Five Thousand Pesos (Php 25,000.00) Only**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.
6. The DepEd-CAR Regional Office will hold a **Pre-Bid Conference on August 26, 2022/9:30AM at the SNC Hall, DepED-CAR Regional Office, Wangal, La Trinidad, Benguet** which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat (Procurement Unit) through manual submission at the office address as indicated below, **on or before September 8, 2022/9:00AM**. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
9. **Bid opening shall be on September 8, 2022/9:05AM at the NEAP CAR of the DepED-CAR RO, Wangal, La Trinidad, Benguet.** Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. The DepED-CAR Regional Office 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. Edward C. Magalgalit, Jr.*  
*Procurement Unit Office (BAC Secretariat Office)*  
*DepED-CAR Regional Office*  
*Wangal, La Trinidad, Benguet*  
*Email address: car.procurement@deped.gov.ph*  
*Tel. No. (074) 422-1318 Cp No. 09178218490*  
*depedcar.ph*

12. You may visit the following websites:

For downloading of Bid Documents, you may visit the following website:  
**[www.depedcar.ph](http://www.depedcar.ph) and [www.philgeps.gov.ph](http://www.philgeps.gov.ph).**

  
**FLORANTE E. VERGARA**  
BAC Chairperson

## ***Section II. Instructions to Bidders***

## 1. **Scope of Bid**

The Procuring Entity, DepED-CAR Regional Office, invites Bids for the **Construction of Four Storey National Educators Academy of the Philippines Building** with project **Identification Number CB 2022-08-005**

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 CY 2022 in the amounts of **Thirty-Two Million Pesos Only (Php 32,000,000.00)** with SARO No. OSEC-CAR-22-2859

**2.2.** The source of funding is:

- a. NGA, the General Appropriations Act or Special Appropriations.

## 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 strictly not allowed.**

7.1. 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 at its physical address, at the **SNC Hall, DepED-CAR Regional Office, Wangal, La Trinidad, Benguet, on August 26, 2022/9:30AM** as indicated in paragraph 6 of the **IB**.

## **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 shall be valid until **January 8, 2023**. 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 7 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***

**Bid Data Sheet**

| <b>ITB Clause</b>    |   |  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
|----------------------|---|--|---------------------------|----------------------------|------------------|---------|-----------------------|--------------------|--------|--|---------------------|---------|-------------------------------------|----------------|--------|-------------------------------------|-----------------|---------|--------------------|---------------|--------|--|--------------------|--------|--|----------|--------|--|---------|--------|--|-------------|--------|--|
| 5.2                  | <p>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <b>Construction of Four Storey Building/Training Facility.</b></p> <p>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.</p> <p>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.</p>   |  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| 7.1                  | Subcontracting is strictly not allowed.   |  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| 10.1                 | To be included in the Technical Documents is a Site Inspection Certificate signed by the Officer In-Charge of the NEAPR, DepED CAR Regional Office. Site Inspection Certificate is to be accompanied by a picture of either the project engineer/owner or any technical employee with the Officer In-Charge of the NEAPR, DepED CAR Regional Office.  |  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| 10.3                 | In case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project.   |  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| 10.4                 | <p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" data-bbox="368 1205 1410 1989"> <thead> <tr> <th data-bbox="368 1205 671 1240"><u>Key Personnel</u></th> <th data-bbox="671 1205 927 1240"><u>General Experience</u></th> <th data-bbox="927 1205 1410 1240"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="368 1240 671 1276">Project Engineer</td> <td data-bbox="671 1240 927 1276">5 years</td> <td data-bbox="927 1240 1410 1276">3 Projects Supervised</td> </tr> <tr> <td data-bbox="368 1276 671 1397">Materials Engineer</td> <td data-bbox="671 1276 927 1397">1 year</td> <td data-bbox="927 1276 1410 1397">with the same Scope of Work<br/>1 Project w/ the same Scope of Work</td> </tr> <tr> <td data-bbox="368 1397 671 1473">Electrical Engineer</td> <td data-bbox="671 1397 927 1473">3 years</td> <td data-bbox="927 1397 1410 1473">1 Project w/ the same Scope of Work</td> </tr> <tr> <td data-bbox="368 1473 671 1550">Safety Officer</td> <td data-bbox="671 1473 927 1550">1 year</td> <td data-bbox="927 1473 1410 1550">1 Project w/ the same Scope of Work</td> </tr> <tr> <td data-bbox="368 1550 671 1626">General foreman</td> <td data-bbox="671 1550 927 1626">2 years</td> <td data-bbox="927 1550 1410 1626">2 Projects handled</td> </tr> <tr> <td data-bbox="368 1626 671 1702">Skilled Mason</td> <td data-bbox="671 1626 927 1702">1 year</td> <td data-bbox="927 1626 1410 1702">with the same Scope of Work<br/>1 Project handled</td> </tr> <tr> <td data-bbox="368 1702 671 1778">Skilled Carpenters</td> <td data-bbox="671 1702 927 1778">1 year</td> <td data-bbox="927 1702 1410 1778">with the same Scope of Work<br/>1 Project handled</td> </tr> <tr> <td data-bbox="368 1778 671 1854">Steelman</td> <td data-bbox="671 1778 927 1854">1 year</td> <td data-bbox="927 1778 1410 1854">with the same Scope of Work<br/>1 Project handled</td> </tr> <tr> <td data-bbox="368 1854 671 1930">Painter</td> <td data-bbox="671 1854 927 1930">1 year</td> <td data-bbox="927 1854 1410 1930">with the same Scope of Work<br/>1 Project handled</td> </tr> <tr> <td data-bbox="368 1930 671 1989">Tile Setter</td> <td data-bbox="671 1930 927 1989">1 year</td> <td data-bbox="927 1930 1410 1989">with the same Scope of Work<br/>1 Project handled</td> </tr> </tbody> </table> | <u>Key Personnel</u>   | <u>General Experience</u> | <u>Relevant Experience</u> | Project Engineer | 5 years | 3 Projects Supervised | Materials Engineer | 1 year | with the same Scope of Work<br>1 Project w/ the same Scope of Work | Electrical Engineer | 3 years | 1 Project w/ the same Scope of Work | Safety Officer | 1 year | 1 Project w/ the same Scope of Work | General foreman | 2 years | 2 Projects handled | Skilled Mason | 1 year | with the same Scope of Work<br>1 Project handled | Skilled Carpenters | 1 year | with the same Scope of Work<br>1 Project handled | Steelman | 1 year | with the same Scope of Work<br>1 Project handled | Painter | 1 year | with the same Scope of Work<br>1 Project handled | Tile Setter | 1 year | with the same Scope of Work<br>1 Project handled |
| <u>Key Personnel</u> | <u>General Experience</u>   | <u>Relevant Experience</u>   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Project Engineer     | 5 years   | 3 Projects Supervised  |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Materials Engineer   | 1 year  | with the same Scope of Work<br>1 Project w/ the same Scope of Work |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Electrical Engineer  | 3 years   | 1 Project w/ the same Scope of Work                                |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Safety Officer       | 1 year  | 1 Project w/ the same Scope of Work                                |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| General foreman      | 2 years   | 2 Projects handled   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Skilled Mason        | 1 year  | with the same Scope of Work<br>1 Project handled                   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Skilled Carpenters   | 1 year  | with the same Scope of Work<br>1 Project handled                   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Steelman             | 1 year  | with the same Scope of Work<br>1 Project handled                   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Painter              | 1 year  | with the same Scope of Work<br>1 Project handled                   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |
| Tile Setter          | 1 year  | with the same Scope of Work<br>1 Project handled                   |                           |                            |                  |         |                       |                    |        |  |                     |         |                                     |                |        |                                     |                 |         |                    |               |        |  |                    |        |  |          |        |  |         |        |  |             |        |  |

|                          | <p>Tinsmith 1 year 1 Project handled with the same Scope of Work</p> <p>Master Electrician 1 year 1 Project handled Scope of Work</p> <p>Master Plumber 1 year 1 year</p> <p>Scaffold Installer 1 Project handled with the same Scope of Work</p> <p>Welder 1 year 1 year</p> <p>Laborers 1 year 1 year</p>  |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
|--------------------------|--|------------------------|--------------------|------------------------|--------------------|------------|---|----------------|--|---|----------------------|--|---|-----------|----------|---|-------------|--|---|------------|--|---|--------------------|------------------------|---|----------------|----------|---|-----------------|----------|--|--------------|---|--|--------------|--|--|--------------------------|--|--|
| 10.5                     | <p>The minimum major equipment requirements are the following:</p> <table border="1"> <thead> <tr> <th><u>Equipment</u></th> <th><u>Description</u></th> <th><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td>Dumptruck/flat bed</td> <td>10-Wheeler</td> <td>1</td> </tr> <tr> <td>Mini Dumptruck</td> <td></td> <td>1</td> </tr> <tr> <td>Backhoe with Breaker</td> <td></td> <td>1</td> </tr> <tr> <td>Compactor</td> <td>Portable</td> <td>1</td> </tr> <tr> <td>Stake Truck</td> <td></td> <td>1</td> </tr> <tr> <td>Porta lift</td> <td></td> <td>1</td> </tr> <tr> <td>PPR Fusion Machine</td> <td>For 1/2"-1 1/2"Ø Pipes</td> <td>1</td> </tr> <tr> <td>Concrete Mixer</td> <td>1 bagger</td> <td>1</td> </tr> <tr> <td>Welding Machine</td> <td>500 amps</td> <td></td> </tr> <tr> <td>Scaffoldings</td> <td>G.I. Pipe sch.20<br/>(H Frames &amp; Brackets)</td> <td></td> </tr> <tr> <td>Shoring Jack</td> <td></td> <td></td> </tr> <tr> <td>Various Power hand tools</td> <td></td> <td></td> </tr> </tbody> </table> | <u>Equipment</u>       | <u>Description</u> | <u>Number of Units</u> | Dumptruck/flat bed | 10-Wheeler | 1 | Mini Dumptruck |  | 1 | Backhoe with Breaker |  | 1 | Compactor | Portable | 1 | Stake Truck |  | 1 | Porta lift |  | 1 | PPR Fusion Machine | For 1/2"-1 1/2"Ø Pipes | 1 | Concrete Mixer | 1 bagger | 1 | Welding Machine | 500 amps |  | Scaffoldings | G.I. Pipe sch.20<br>(H Frames & Brackets) |  | Shoring Jack |  |  | Various Power hand tools |  |  |
| <u>Equipment</u>         | <u>Description</u>   | <u>Number of Units</u> |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Dumptruck/flat bed       | 10-Wheeler   | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Mini Dumptruck           |  | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Backhoe with Breaker     |  | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Compactor                | Portable   | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Stake Truck              |  | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Porta lift               |  | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| PPR Fusion Machine       | For 1/2"-1 1/2"Ø Pipes   | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Concrete Mixer           | 1 bagger   | 1                      |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Welding Machine          | 500 amps   |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Scaffoldings             | G.I. Pipe sch.20<br>(H Frames & Brackets)  |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Shoring Jack             |  |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| Various Power hand tools |  |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| 11.1                     | The second bid envelope/financial component should include a USB/flash drive (soft copy of Financial proposal in excel format)   |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| 12                       | 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.   |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| 15.1                     | <p>The bid security shall be in the form of a <b>Bid Securing Declaration</b> or any of the following forms and amounts:</p> <p>a. The amount of not less than <u>Php 640,000.00</u>[Two percent (2%) of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than <u>Php 1,600,000.00</u>[ five percent (5%) of ABC] if bid security is in Surety Bond.</p>  |                        |                    |                        |                    |            |   |                |  |   |                      |  |   |           |          |   |             |  |   |            |  |   |                    |                        |   |                |          |   |                 |          |  |              |   |  |              |  |  |                          |  |  |
| 16                       | Each bidder is requested to submit three (3) copies/sets – 1 original and 2 photocopies – of the first and second component of its bid. The use of tabs is also encouraged to facilitate examination of documents. 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.   |
| 20     | No further instructions   |
| 21     | Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling. |
| others | <b>Signature Box</b><br>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.                          |

***Section IV. General 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***

## Special Conditions of Contract

| GCC Clause |   |
|------------|---|
| 2          | The Intended completion date is 360 calendar days   |
| 4.1        | The procuring entity shall give possession of all parts of the site to the contractor within 7 days from receipt of the Notice to Proceed.  |
| 6          | The site investigation reports are: <i>none</i>   |
| 7.2        | In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years. |
| 10         | Dayworks are applicable at the rate shown in the Contractor's original Bid.   |
| 11.1       | The Contractor shall submit the Program of Work to the Procuring Entity's Representative within 15 days of delivery of the Notice of Award.   |
| 11.2       | The amount to be withheld for late submission of an updated Program of Work is 1% of Contract Amount.   |
| 13         | The amount of the advance payment is 15% of the Contract amount   |
| 14         | Materials and equipment delivered on the site but not completely put in place shall <b>NOT</b> be included for payment.   |
| 15.1       | The date by which "as built" drawings are required within 15 days upon issuance of Certificate of Completion  |
| 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 5% of the Contract Amount in local currency   |

## ***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.



# SUMMARY OF MATERIALS (TECHNICAL SPECIFICATIONS)

Project : **PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BLDG.**

Location : **DepED CAR Regional Office, Wangal, La Trinidad, Benguet**

| WORK ITEM/MATERIAL                         | TECHNICAL SPECIFICATION  |
|--|--|
| <b>1. EARTHWORKS</b>                       |  |
| 1.04 Gravel Bedding<br>1.05 Soil Poisoning | Solvent Based, Low odor, environment friendly  |
| <b>2. CONCRETING WORKS</b>                 |  |
| 2.1 Cement                                 | Portland, PNS 7:2005   |
| 2.2 Washed Sand                            | Clean river, sand, free from organic and other deleterious matter.   |
| 2.3 Gravel                                 | Maximum size of aggregate shall not be larger than 1/5 of the narrowest dimension between sides of the forms nor larger than 20mm (3/4") of the maximum clear spacing between reinforcing bars, and in no case larger than 38 mm (1-1/2"). |
| <b>3. REBAR WORKS</b>                      |  |
| 3.1 Rebars                                 | Steel Bars, PNS 49:2000, Grade 33<br>Steel Bars, PNS 49:2000, Grade 40   |
| 3.2 Tie Wires                              | G.I., gauge 16   |
| <b>4. FORMWORKS</b>                        |  |
| 4.1 Form Plywood                           | 1/2" thk., PNS 196:2000  |
| 4.2 Form Lumber                            | Coco Lumber  |
| <b>5. MASONRY WORKS</b>                    |  |
| 5.1 Concrete Hollow Block                  | 6"X8"X16" Load Bearing CHB, 800psi, confirming with ASTM C-90- 70<br>4"X8"X16" Load Bearing CHB, 800psi, confirming with ASTM C-90- 70   |
| <b>6. DOORS &amp; WINDOWS</b>              |  |
| <b>6.1 Doors</b>                           |  |
| 6.1.1 Panel Doors                          | Hardwood, Kiln Dried (verify approved design)  |
| 6.1.2 Flush Doors                          | Marine Plywood & Ordinary Plywood (verify approved design)   |

|  |  |
|--|--|
| 6.1.3 Sliding Doors  | Frameless Motorized Sliding Glass Door (4.60m x 3.5m) with Motion Detector Inside and Out, Complete with Accessories and lockset(D1) |
| <b>6.1.4 Fire Rated Doors</b>  | 6mm thick Reflective Glass &/Tinted on Analok Frame Door   |
| <b>6.1.5 PWD Door</b>  | Fire Rated Steel Door (0.80m x 1.20m) with Panic Bar and Accessories   |
| <b>6.2 Windows &amp; Screens</b>                                     | Hardwood, Kiln Dried with Stainless Steel Grab Bar inside and outside complete with Accessories and Lockset                          |
| 6.2.1 Sliding Windows and Awning Windows                             | 6mm thk. Bronze Glass on Analok Frame complete with Hardware and Accessories   |
| <b>7. STEEL WORKS</b>  |  |
| <b>7.1 Structural Steel</b>  |  |
| 7.1.1 Angle Bars, Flat Bars, Tubular Bars, Round Bars & Channel Bars | PNS 26:199, Standard sizes (as per specified)  |
| 7.1.2 G.I. Pipes   | Schedule 40  |
| 7.1.3 Steel Plate  | 6mm thk.   |
| <b>7.2 Others</b>  |  |
| 7.2.1 Wood Screws  | Flat Head, Black, (submit sample for approval)   |
| 7.2.2 Welding Rod  | AWS A5.1 E6013   |
| 7.2.3 Anchor Bolts   | 10mmØ and 12mmØ with Nuts & Washer   |
| <b>8. ROOFING WORKS</b>  |  |
| 8.1 Roofing Sheets   | 8mm thk. Clear Poly Carbonate (4' x 8')  |
| 8.2 Roofing Bended Accessories (Ridge Roll, Flashngs, Gutters)       | Pre-painted Bended Accessories   |
| 8.3 Others   | Aluminum type,   |
| 8.3.1 Rivets   | Steel, For wood & metal, hex head  |
| 8.3.2 Tek screw  | Clear, Construction Grade, neutral cure,   |
| 8.3.2 Roof Sealant   | 100% silicone  |
| <b>9. CARPENTRY WORKS</b>  |  |
| <b>9.1 Fiber Cement &amp; PVC Panels</b>                             |  |
| 9.1.1 Ficem Boards   | 4.5mm & 6mm thk. Fiber Cement Board  |
| 9.1.1 Fascia Boards  | 12"x12'x ½" Fiber Cement Board   |
| 9.1.1 PVC Panels   | .25 x 3.028 m Wood Grained PVC Ceiling Panels  |

|   |   |
|---|---|
| 9.1.1 Spandrel                                | 0.40mm thk Wood Grained Spandrel, eff.cov. 18mm                                 |
| 9.1.1 Metal Furrings, Metal Studs & T-runners | Light Gauge, Galvanized Steel   |
| <b>9.2 Plywood &amp; Wood Items</b>           |   |
| 9.2.2 Rough Wood                              | Kiln Dried, Hardwood  |
| 9.2.4 Plywood                                 | Kiln Dried, Hardwood  |
| 9.2.4.a Marine Plywood                        | ¾” thk. or ½” thk. or ¼” thk, PNS 196:2000                                      |
| 9.2.4.b Ordinary Plywood                      | ¾” thk. or ½” thk. or ¼” thk, PNS 196:2000                                      |
| 9.2.4 Wood Preservation                       | Brown color, solvent based, for fungicidal and insecticidal                     |
| <b>10. ELECTRICAL WORKS</b>                   |   |
| <b>10.1 Wires, Pipes &amp; Boxes</b>          |   |
| 10.1.1 Electrical Wires                       | THW and/or THNN, Stranded<br>PNS 14:1983, Series 600, PVC Orange Pipes          |
| 10.1.2 PVC Pipes & Fittings                   | Standard trade sizes, hot dipped galvanized with inside enamel or epoxy coating |
| 10.1.3 RSC Pipes & Fittings                   |   |
| 10.1.4 Junction Box                           | 4 x 4 PVC   |
| 10.1.5 Utility Box                            | 4 x 2 PVC   |
| <b>10.2 Fixtures &amp; Accessories</b>        |   |
| 10.2.1 Lighting Switches (Plate & Element)    | “Wide Series” Plain White, 1-Gang, 2-Gang, 3-way switches                       |
| 10.2.2 Convenience Outlets (Plate & Element)  | “Wide Series” Plain White, Duplex, Universal Type                               |
| 10.2.3 Panel Light, Striplight, & Tracklight  | 12w LED Cool White Color, 105x105 mm Square Panel Surface Type                  |
| 10.2.3.a Square LED Panel Light               | 12w LED Warm White Color, 105x105 mm Square Panel Surface Type                  |
| 10.2.3.b Square LED Panel Light               | 48w LED Warm White Color, 600x600 mm Square Surface Type                        |
| 10.2.3.c Square LED Panel Light               | 12w LED Cool White Color, Round Surface Type                                    |
| 10.2.3.d Round LED Panel Light                | 6w LED Warm White Color, Round Surface Type                                     |
| 10.2.3.e Round LED Panel Light                | 40w Warm White Color, Metallic, Bubble Shade Black, Decorative drop lighting    |

|   |  |
|---|--|
| 10.2.3.f Metal Pendant Light                  | 36w Warm White Color, Linear drop lighting   |
| 10.2.3.g Linear Pendant Light                 | 24w Cool White Color, 300x600mm Surface Type   |
| 10.2.3.h LED Panel Light                      | 12w LED Round Surface Type with Cool White, Warm White and Daylight Colors   |
| 10.2.3.i Tricolor                             | Strip Light with Cool White Color  |
| 10.2.3.i Strip Light                          | 30w Adjustable Track Light with Warm White Color   |
| 10.2.3.i Track Light                          |  |
| 10.2.4 Chandeliers                            | Decorative Chandelier Light Crystal Chrome, Suspended Mounting, with 8pcs 3w LED Bulb (submit sample for approval) |
| 10.2.7 Panel Box with Circuit Breakers        | Heavy Duty Bolt-on or Plug-on, Flushed Type  |
| 10.2.10 Automatic Transfer Switch             | Breaker Type, with Metal Recessed Casing   |
| <b>11. PLUMBING WORKS</b>                     |  |
| <b><u>11.1 Pipes &amp; Fittings</u></b>       |  |
| 11.1.1 Pipes                                  | PN20 PPR Pipes   |
| 11.1.2 Fittings                               | PN20 PPR   |
| <b><u>11.2 Fixtures &amp; Accessories</u></b> |  |
| 11.2.1 Water Closet                           | Dual Flush Type (Water Saver), 1.6gpf, White, Complete with Accessories  |
| 11.2.2 Lavatory                               | 400mm Ceramic Round Vessel Wash Basin Complete with Accessories<br>Stainless Steel Finish                          |
| 11.2.3 Paper & Soap Holder                    | 4" Stainless Steel Finish with Strainer  |
| 11.2.4 Floor Drains                           | Chrome Plated, with rotating Head,   |
| 11.2.5 Bidet Faucet                           | complete with accessories.   |
| 11.2.6 Shower Set                             | Water Heater with Shower Set telephone type (Movable)  |
| 11.2.7 Gate Valves                            | 1/2"Ø and/or 3/4"Ø, Brass Type   |
| 11.2.8 Three-way Angle Valves                 | 1/2" x 1/2" x 1/2", Chrome Plated  |
| 11.2.9 Mirror                                 | 1/4" thk., Frameless   |

|                                    |   |
|------------------------------------|---|
| <b>12. SANITARY WORKS</b>          |   |
| <b>12.1 Pipes &amp; Fittings</b>   |   |
| 12.1.1 Pvc Pipes                   | Series 1000, UPVc Orange Pipes<br>Series 1000, UPVc Orange Pipes<br>Sewer Line – shall be polyvinyl chloride soil pipe (PVCSP) and fittings, for all horizontal runs and soil stacks and collectors conforming to ASTM D27291. Fittings shall be solvent cement joined conforming to ASTM D2564. C. Vent Pipes, Downspouts and Storm Drains – shall be polyvinyl chloride (PVC) pipe and fittings conforming to ASTM D2729. Fittings shall be solvent cement joined conforming to ASTM D2564. |
| 12.1.2 Fittings                    |   |
| <b>13. PAINTING WORKS</b>          |   |
| <b>13.1 Paints &amp; Varnish</b>   |   |
| 13.1.7 Latex Paint                 | Flat (White) & Semi-Gloss Type (verify approved Color Scheme)<br>Colors will be based on the approved Color Scheme  |
| 13.1.8 Acri-Color                  |   |
| 13.1.9 Masonry Putty               | Water based, for Latex Paints<br>Colors will be based on the approved Color Scheme  |
| 13.1.10 Quick Dry Enamel Paint     |   |
| 13.1.11 Primer Paint               | Zinc Phosphate or Zinc Chromate<br>Alkyd type, for Enamel Paints  |
| 13.1.12 Glazing Putty              |   |
| <b>13.2 Thinners &amp; Fillers</b> |   |
| 13.2.1 Thinners                    | Paint & Lacquer Type<br>Epoxy Type, with Hardener<br>For concrete, liquid acidic substance  |
| 13.2.2 Body Filler                 |   |
| 13.2.4 Neutralizer                 |   |
| <b>14. TILE WORKS</b>              |   |
| <b>14.1 Tiles</b>                  |   |
| 14.1.1 Floor Tiles                 | 19mm thk. Granite Slab<br>60cm x 120cm Polished Granite Tiles (verify color & design)<br>60cm x 60cm Non-Skid Granite Tiles (verify color & design)<br>60cm x 60cm Polished Granite Tiles (verify color & design)   |
| 14.1.2 Wall Tiles                  |   |
|                                    | 60cm x 60cm Polished Granite Tiles (verify color & design)  |

|  |   |
|--|---|
| <p><b>14.2 Others</b></p> <p>14.2.1 Tile Grout</p> <p>14.2.2 Tile Adhesive</p> | <p>Color: Varies, PNS ISO 13007 – 1:2014</p> <p>Color: Varies, PNS ISO 13007 – 1:2014</p> <p>Type C2</p>  |
| <p><b>15. Fire Detection and Alarm System</b></p>                              |   |
| <p><b>15.1 Fire Alarm System</b></p> <p>15.1.1 Fire Alarm Control Panel</p>    | <p>"Main Voltage: 110VAC or 220VAC<br/>±20% 50HZ/60HZ</p> <p>Batteries: 2*12V/ 5Ah Lead Acid Batteries</p> <p>Battery low-voltage protection :21V</p> <p>Detectors or modules connection allowed each Loop</p> <p>Totally 250 pcs for one loop</p> <p>7" Touchscreen LCD Color Display</p> <p>Delay function for zones for Notification Appliance Circuits (NACs)</p> <p>2 wire cable for all addressable devices</p> <p>Zone test and individual device testing</p> <p>Zone Disable and individual device isolation</p> <p>Delay, override and abort functionality</p> <p>User friendly: easily configurable windows using Panel itself</p> <p>250 intelligent detectors or modules for one loop circuit</p> <p>Up to 8 Loop cards can be installed and configured</p> <p>Interconnection of panels and other equipment</p> <p>events can be stored in the history</p> <p>Network with Central Control Panel</p> <p>Access Level entry to control and configure panel</p> <p>Integral power supply with charger</p> <p>Circuits can be configured as Class A or Class B</p> <p>Fire Alarm, Fault (Trouble) and Supervisory relays</p> <p>Earth Fault detection</p> <p>CAN BUS Network System</p> <p>Network Available Options:<br/>GSM/IP/Cloud/ Mobile APPs<br/>EIA-232 Printer</p> |

|   |  |
|---|--|
| <p><b>15.2 Manual Call Point</b></p>  | <p>Manual call Point Emergency Button<br/> Operating Voltage:9-28 VDC Volts<br/> Material: Fire Proof Plastic<br/> Color:Red<br/> Current Ratings: 9-28 VDV Volts<br/> Alarm Current: 45Ma @24VDC<br/> Dimensions: 140x104x45mm (LxWxH)</p>  |
| <p><b>15.3 Horn Strobe (24V DC)</b></p>   | <p>Color:Red<br/> Operating Voltage: 18V-28V DC<br/> Operating Current:10-60Ma<br/> Alarm SPL:≥100Db<br/> Flash Period:≤1.0S<br/> Temperature:-10°C~50°C</p>   |
| <p><b>15.4 Smoke Sense Detector</b></p>   | <p>Addressable smoke detector<br/> Usage:Detect Smoke<br/> Type:2 Wires/addressable smoke detector<br/> Material:ABS Plastic<br/> Color:White<br/> Operating voltage: Loop 24V(18V-24V)<br/> Standby Current:≤0.3mA<br/> Alarm Current:≤1.5mA(without Remoted Indicator)≤3.5mA(with Remoted Indicator)<br/> Fire LED:Red, Flash in polling, and illuminate in alarming</p> |
| <p><b>15.5 Smoke and Heat Detector</b></p>  | <p>addressable smoke and heat detector<br/> Type:2 Wires<br/> Color:White Color<br/> work Current:≤2.5mA<br/> Operating voltage:DC18-28V<br/> Smoke Sensitivity:0.2-0.3dB/m<br/> Rate of Rise Alarm:7.1°C/5S A2R<br/> Material:ABS<br/> Fix Temperature Rating:57°C A2R</p>  |
| <p><b>15.6 Back-up Battery<br/>12VDC/10AH lead Acid</b></p>                       | <p>12VDC 10AH Lead Acid Battery</p>  |
| <p><b>15.7 Loop and Sounder Cable-<br/>Twisted TF Wire<br/>#16(150m/Roll)</b></p> | <p>PVC Insulated 0.5 0.75 11.5 2.5mm RVS twisted pair wire cable<br/> Rated voltage:300/300V<br/> Product certification:<br/> CCC, CE, ROHS, etc</p>   |

**15.8 Isolator Module**

Core:2 Core  
twisted pair wire cable  
Working temperature:Not exceed 70 °C  
Jacket:PVC Jacket

Operating Voltage:9-28VDC Volt  
EOL Resistance: None  
Temperature Range: 0 Deg C to 49 Deg C  
Provide a dry-contact output for activating a variety of auxiliary devices



## ***Section VII. Drawings***

*(See Annex A for the Drawings)*

## ***Section VIII. Bill of Quantities***

## PROGRAM OF WORKS

|  |   |
|--|---|
| <b>OFFICE:</b><br>DepED - CAR REGIONAL OFFICE  | <b>DATE:</b>  |
| <b>REGION:</b><br>CORDILLERA ADMINISTRATIVE REGION   | <b>BUDGET ALLOCATION:</b><br>2022 GAA   |
| <b>DIVISION:</b>   | <b>ESTIMATED GOVERNMENT EXPENSES:</b>   |
| <b>PROJECT DESCRIPTION:</b> PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BLDG. | <b>APPROVED BUDGET FOR THE PROJECT:</b><br>THIRTY-TWO MILLION PESOS ONLY (Php 32,000,000.00)  |
| <b>PLAN NO.:</b>   | <b>COMPLETION PERIOD:</b><br>360 CALENDAR DAYS  |
| <b>LOCATION:</b><br>DEPED-CAR REGIONAL OFFICE, Wangal, La Trinidad, Benguet  | <b>REQUIRED MANPOWER:</b> <ul style="list-style-type: none"> <li>• 1-PROJECT ENGINEER;</li> <li>• 1- FOREMAN;</li> <li>• 1-SAFETY OFFICER;</li> <li>• 1-MATERIALS ENGINEER;</li> <li>• 1-ELECTRICAL ENGINEER;</li> <li>• 1-MASTER ELECTRICIAN;</li> <li>• 2-SCAFFOLD INSTALLER</li> <li>• 6-MASON;</li> <li>• 6-PAINTER;</li> <li>• 6-TILE SETTER</li> <li>• 1-MASTER PLUMBER;</li> <li>• 2 WELDER;</li> <li>• 1-TINSMITH,</li> <li>• 6 STEEL MAN;</li> <li>• 6-CARPENTERS; AND</li> <li>• 20-LABORERS</li> </ul> |
|  | <b>REQUIRED EQUIPMENTS:</b> <ul style="list-style-type: none"> <li>• DUMP TRUCK/FLAT BED</li> <li>• MINI DUMPTRUCK</li> <li>• ONE BAGGER MIXER,</li> <li>• PORTA LIFT,</li> <li>• BACKHOE,</li> <li>• PORTABLE COMPACTOR,</li> <li>• STAKE TRUCK,</li> <li>• SCAFFOLDINGS</li> <li>• WELDING MACHINE,</li> <li>• PPR FUSION MACHINE,</li> <li>• GRINDER/BAR CUTTER/POWER CUTTER ACETYLENE CUTTING OUTFIT,</li> </ul>  |

Signature Box:

*(Insert signature of authorized representative)*

|          |   |                 |      | <ul style="list-style-type: none"> <li>SHORING JACKS AND ASSORTED HAND AND POWER TOOLS</li> </ul> |            |         |
|----------|---|-----------------|------|---|------------|---------|
| Item no. | Work Description                                | % of Work Total | Unit | Qty   | Total Cost | Remarks |
|          | General Requirements                            |                 | lot  | 1   |            |         |
| 1.00     | Earthworks                                      |                 | lot  | 1.00  |            |         |
| 2.00     | Concreting Works                                |                 | cu.m | 489.56  |            |         |
| 3.00     | Rebar Works                                     |                 | kg   | 73,039.07   |            |         |
| 4.00     | Formworks                                       |                 | lot  | 1.00  |            |         |
| 5.00     | Masonry Works                                   |                 | sq.m | 1,556.28  |            |         |
| 6.00     | Doors and Windows                               |                 | lot  | 1.00  |            |         |
| 7.00     | Steel Works                                     |                 | lot  | 1.00  |            |         |
| 8.00     | Roofing Works                                   |                 | lot  | 1.00  |            |         |
| 9.00     | Carpentry Works                                 |                 | lot  | 1.00  |            |         |
| 10.00    | Electrical Works                                |                 | lot  | 1.00  |            |         |
| 11.00    | Plumbing Works                                  |                 | lot  | 1.00  |            |         |
| 12.00    | Sanitary Works                                  |                 | lot  | 1.00  |            |         |
| 13.00    | Painting Works                                  |                 | sq.m | 3,716.28  |            |         |
| 14.00    | Tile Works                                      |                 | sq.m | 2,991.59  |            |         |
| 18.00    | Others  |                 | lot  | 1.00  |            |         |
| I        | <b>DIRECT COST</b>                              |                 |      |   |            |         |
| II       | <b>INDIRECT COST (17% of I)</b>                 |                 |      |   |            |         |
| III      | <b>WITH HOLDING TAX AND VAT (5% OF I + II )</b> |                 |      |   |            |         |
| IV       | <b>TOTAL CONSTRUCTION COST</b>                  |                 |      |   |            |         |

Prepared by:

\_\_\_\_\_  
Printed name and signature

Signature Box:

*(Insert signature of authorized representative)*

**Project:**  
 PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS  
 ACADEMY OF THE PHILIPPINES BLDG

**Location:**  
 DepEd CAR Compound, Wangal, La Trinidad, Benguet

## DETAILED ESTIMATE

| I.D. No. | Description  | Unit        | Qty           | Unit Cost    |           | Total Cost   |           | Grand Total |
|----------|--|-------------|---------------|--------------|-----------|--------------|-----------|-------------|
|          |  |             |               | Mat<br>erial | Lab<br>or | Mat<br>erial | Lab<br>or |             |
| I.       | <b>General Requirements</b>  |             |               |              |           |              |           |             |
|          | Mobilization/Temporary Structures, Utilities and Services/Demobilization | lot         | 1             |              |           |              |           |             |
|          | Safety and Health  | lot         | 1             |              |           |              |           |             |
|          | Project Billboard  | lot         | 1             |              |           |              |           |             |
|          | Building Permit Fee and Other Permits                                    | lot         | 1             |              |           |              |           |             |
|          | Scaffolding Rental   | lot         | 1             |              |           |              |           |             |
|          | Hauling Cost   | lot         | 1             |              |           |              |           |             |
|          | <b>SUB TOTAL</b>   |             |               |              |           |              |           |             |
| 1.00     | <b>EARTHWORKS</b>  | <b>lot</b>  | <b>1.00</b>   |              |           |              |           |             |
| 1.010    | Clearing and Grubbing  | sq.m        | 386.40        |              |           |              |           |             |
| 1.020    | Structural Excavation  | cu.m        | 378.54        |              |           |              |           |             |
| 1.030    | Backfilling and Compaction   | cu.m        | 227.13        |              |           |              |           |             |
| 1.040    | Gravel Bedding G-1   | cu.m        | 30.38         |              |           |              |           |             |
| 1.050    | Soil Poisoning   | sq.m        | 386.40        |              |           |              |           |             |
| 1.060    | Select Fill  | cu.m        | 184.00        |              |           |              |           |             |
| 1.080    | Demolition of reinforced concrete  | cu.m        | 11.45         |              |           |              |           |             |
|          | Removal of RCPC  | l.m.        | 36.00         |              |           |              |           |             |
|          | <b>SUB TOTAL</b>   |             |               |              |           |              |           |             |
| 2.00     | <b>CONCRETING WORKS</b>  | <b>cu.m</b> | <b>489.56</b> |              |           |              |           |             |
|          | <b>Column Footing</b>  | <b>cu.m</b> | <b>64.36</b>  |              |           |              |           |             |
| 2.010    | Portland Cement  | bag         | 580.00        |              |           |              |           |             |
| 2.030    | Washed Sand  | cu.m        | 33.00         |              |           |              |           |             |
| 2.040    | Crushed Gravel 1"  | cu.m        | 58.00         |              |           |              |           |             |
|          | <b>Tie beams</b>   | <b>cu.m</b> | <b>18.48</b>  |              |           |              |           |             |
| 2.010    | Portland Cement  | bag         | 167.00        |              |           |              |           |             |
| 2.030    | Washed Sand  | cu.m        | 10.00         |              |           |              |           |             |

Signature Box:

*(Insert signature of authorized representative)*

|       |  |             |               |  |  |  |  |  |
|-------|--|-------------|---------------|--|--|--|--|--|
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 17.00         |  |  |  |  |  |
|       | <b>First Floor Columns</b>   | <b>cu.m</b> | <b>27.89</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 251.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 14.00         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 26.00         |  |  |  |  |  |
|       | <b>Second, Third Floor and Ramp Column</b>                         | <b>cu.m</b> | <b>31.53</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 284.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 16.00         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 29.00         |  |  |  |  |  |
|       | <b>Second, Third Floor and Roof Deck Beams and Girders</b>         | <b>cu.m</b> | <b>85.44</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 769.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 43.00         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 77.00         |  |  |  |  |  |
|       | <b>Ramp, Second, Third &amp; Roof Deck Floor and Terraces Slab</b> | <b>cu.m</b> | <b>190.80</b> |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 1,718.00      |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 96.00         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 172.00        |  |  |  |  |  |
|       | <b>Stairs</b>  | <b>cu.m</b> | <b>21.31</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 192.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 21.50         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 10.75         |  |  |  |  |  |
|       | <b>Slab on Grade</b>   | <b>cu.m</b> | <b>36.58</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 330.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 19.00         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 33.00         |  |  |  |  |  |
|       | Reinforced Concrete Pipe 910 mm Ø                                  | pcs         | 8.00          |  |  |  |  |  |
|       | <b>Ramps and Slab on Fill</b>                                      | <b>cu.m</b> | <b>12.13</b>  |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 110.00        |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 12.25         |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 6.25          |  |  |  |  |  |
|       | <b>Reinforced Concrete Sun Breaker</b>                             | <b>cu.m</b> | <b>1.05</b>   |  |  |  |  |  |
| 2.010 | Portland Cement  | bag         | 10.00         |  |  |  |  |  |
| 2.030 | Washed Sand  | cu.m        | 1.25          |  |  |  |  |  |
| 2.020 | Crushed Gravel 3/4"  | cu.m        | 0.75          |  |  |  |  |  |
|       | <b>SUB TOTAL</b>   |             |               |  |  |  |  |  |

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|-------------|---|-----------|------------------|--|--|--|--|--|
| <b>3.00</b> | <b>REBAR WORKS</b>                                    | <b>kg</b> | <b>73,039.07</b> |  |  |  |  |  |
|             | <b>Column Footing</b>                                 |           |                  |  |  |  |  |  |
| 3.020       | Deformed Round Bars, Grade 40                         | kg        | 5,463.24         |  |  |  |  |  |
|             | <b>Tie beams</b>                                      |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 2,027.90         |  |  |  |  |  |
| 3.020       | Deformed Round Bars, Grade 40                         | kg        | 5,847.91         |  |  |  |  |  |
|             | <b>Columns</b>  |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 5,969.04         |  |  |  |  |  |
| 3.020       | Deformed Round Bars, Grade 40                         | kg        | 23,501.95        |  |  |  |  |  |
|             | <b>Second &amp; Third Floor Beams and Girders</b>     |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 6,581.73         |  |  |  |  |  |
| 3.020       | Deformed Round Bars, Grade 40                         | kg        | 10,389.87        |  |  |  |  |  |
|             | <b>Ramp, Second, Third &amp; Roof Deck Floor Slab</b> |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 6,574.78         |  |  |  |  |  |
|             | <b>Roof deck Beams and Corbels</b>                    |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 1,743.67         |  |  |  |  |  |
| 3.020       | Deformed Round Bars, Grade 40                         | kg        | 2,480.11         |  |  |  |  |  |
|             | <b>Stairs</b>   |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 787.46           |  |  |  |  |  |
|             | <b>Slab on Grade</b>                                  |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 1,219.54         |  |  |  |  |  |
|             | <b>Ramp on Fill</b>                                   |           |                  |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33                         | kg        | 451.87           |  |  |  |  |  |
| 3.040       | <b>G.I. Tie Wire</b>                                  | kg        | 997.00           |  |  |  |  |  |
|             | <b>SUB TOTAL</b>                                      |           |                  |  |  |  |  |  |

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|-------------|-------------------------------------|-------------|-----------------|--|--|--|--|--|
| <b>4.00</b> | <b>FORMWORKS</b>                    | <b>lot</b>  | <b>1.00</b>     |  |  |  |  |  |
|             | <b>Tie beams</b>                    | <b>sq.m</b> | <b>179.68</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 2,076.00        |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 66.00           |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 20.00           |  |  |  |  |  |
|             | <b>Columns</b>                      | <b>sq.m</b> | <b>518.40</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 4,988.00        |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 189.00          |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 57.00           |  |  |  |  |  |
|             | <b>Beams and Girders</b>            | <b>sq.m</b> | <b>586.50</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 6,775.00        |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 214.00          |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 64.00           |  |  |  |  |  |
|             | <b>Suspended Slab<br/>and Ramp</b>  | <b>sq.m</b> | <b>888.72</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 10,265.00       |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 325.00          |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 97.00           |  |  |  |  |  |
|             | <b>Roof Beams</b>                   | <b>sq.m</b> | <b>127.13</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 1,469.00        |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 47.00           |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 14.00           |  |  |  |  |  |
|             | <b>Stairs</b>                       | <b>sq.m</b> | <b>109.80</b>   |  |  |  |  |  |
| 4.010       | Rough Lumber                        | bd.ft       | 1,269.00        |  |  |  |  |  |
| 4.030       | Plywood Ordinary,<br>1/2" x 4' x 8' | pc          | 29.00           |  |  |  |  |  |
| 4.040       | CWN, Assorted                       | kg          | 12.00           |  |  |  |  |  |
|             | <b>SUB TOTAL</b>                    |             |                 |  |  |  |  |  |
| <b>5.00</b> | <b>MASONRY WORKS</b>                | <b>sq.m</b> | <b>1,556.28</b> |  |  |  |  |  |
|             | <b>Masonry Wall</b>                 | <b>sq.m</b> | <b>1,545.78</b> |  |  |  |  |  |
|             | <b>Exterior Wall</b>                | <b>sq.m</b> | <b>687.95</b>   |  |  |  |  |  |
| 5.060       | CHB 6" thk                          | pc          | 8,600.00        |  |  |  |  |  |
| 5.020       | Portland Cement                     | bag         | 646.00          |  |  |  |  |  |
| 5.030       | Washed Sand                         | cu.m        | 86.00           |  |  |  |  |  |
| 3.010       | Deformed Round<br>Bars, Grade 33    | kg          | 911.12          |  |  |  |  |  |
| 5.110       | G.I. Tie Wire                       | kg          | 17.00           |  |  |  |  |  |
|             | <b>RAMP-Wall</b>                    | <b>sq.m</b> | <b>47.15</b>    |  |  |  |  |  |
| 5.060       | CHB 6" thk                          | pc          | 590.00          |  |  |  |  |  |
| 5.020       | Portland Cement                     | bag         | 45.00           |  |  |  |  |  |
| 5.030       | Washed Sand                         | cu.m        | 6.00            |  |  |  |  |  |

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|-------------|---|-------------|-----------------|--|--|--|--|--|
| 3.010       | Deformed Round Bars, Grade 33   | kg          | 62.45           |  |  |  |  |  |
| 5.110       | G.I. Tie Wire   | kg          | 2.00            |  |  |  |  |  |
|             | <b>Interior Wall and Plant Boxes</b>  | <b>sq.m</b> | <b>857.83</b>   |  |  |  |  |  |
| 5.040       | CHB 4" thk  | pc          | 10,723.00       |  |  |  |  |  |
| 5.020       | Portland Cement   | bag         | 282.00          |  |  |  |  |  |
| 5.030       | Washed Sand   | cu.m        | 38.00           |  |  |  |  |  |
| 3.010       | Deformed Round Bars, Grade 33   | kg          | 1,136.11        |  |  |  |  |  |
| 5.110       | G.I. Tie Wire   | kg          | 21.00           |  |  |  |  |  |
|             | <b>Decorative Stone</b>   | <b>sq.m</b> | <b>10.50</b>    |  |  |  |  |  |
| 5.140       | Decorative Stone  | sq.m        | 10.50           |  |  |  |  |  |
| 5.020       | Portland Cement   | bag         | 6.00            |  |  |  |  |  |
| 5.030       | Washed Sand   | cu.m        | 1.00            |  |  |  |  |  |
|             | <b>Plaster Cement Finish</b>  | <b>sq.m</b> | <b>3,091.56</b> |  |  |  |  |  |
| 5.020       | Portland Cement   | bag         | 446.00          |  |  |  |  |  |
| 5.030       | Washed Sand   | cu.m        | 50.00           |  |  |  |  |  |
| 5.150       | Skim Coat, 25kg/bag   | bag         | 182.00          |  |  |  |  |  |
|             | <b>Plaster Moulding</b>   | <b>l.m.</b> | <b>60.00</b>    |  |  |  |  |  |
| 5.130       | Plaster Moulding  | lm          | 60.00           |  |  |  |  |  |
|             | <b>SUB TOTAL</b>  |             |                 |  |  |  |  |  |
| <b>6.00</b> | <b>DOORS AND WINDOWS SCHEDULE</b>   | <b>lot</b>  | <b>1.00</b>     |  |  |  |  |  |
|             | D1-Frameless Motorized Sliding Glass Door (4.60m x 3.5m) with Motion Detector Inside and Out, Complete with Accessories and lockset | set         | 1.00            |  |  |  |  |  |
| 6.090       | D-2, 4.10x3.5m with 6mm thk Reflective Glass on Analok Frame Door Complete with lockset and Accessories                             | set         | 3.00            |  |  |  |  |  |
|             | D-3, 4.50x3.5m with 6mm thk Reflective Glass on Analok Frame Door Complete with   | set         | 1.00            |  |  |  |  |  |

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|-------|--|-----|-------|--|--|--|--|--|
|       | lockset and Accessories  |     |       |  |  |  |  |  |
| 6.091 | D-4 , 4.10x3.0m with 6mm thk Reflective Glass on Analok Frame Door Complete with lockset and Accessories   | set | 6.00  |  |  |  |  |  |
|       | D-5 , 3.0x3.0m with 6mm thk Reflective Glass (Outside) Tinted (Inside) on Analok Frame Door with Door Screen Complete with lockset and Accessories | set | 3.00  |  |  |  |  |  |
| 6.040 | D6-Panel Door 0.90m x 2.10m on 150mm Wooden Jamb complete with Accessories   | set | 17.00 |  |  |  |  |  |
| 6.060 | D7 -Flush Door 0.90m x 2.10m on 150mm Wooden Jamb complete with Accessories  | set | 19.00 |  |  |  |  |  |
|       | D8- 1.70m x2.50m with 6mm thk Smoked Tinted Glass on Analok Frame Door Complete with lockset and Accessories                                       | set | 9.00  |  |  |  |  |  |
|       | D9- 2.0m x2.50m with 6mm thk Smoked Tinted Glass on Analok Frame Door Complete with lockset and Accessories  | set | 2.00  |  |  |  |  |  |
|       | D10- Wooden Solid Sliding Door complete with   | set | 2.00  |  |  |  |  |  |

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|-------|---|-----|-------|--|--|--|--|--|
|       | Accessories and Lockset   |     |       |  |  |  |  |  |
|       | D11- 1.0m x 1.50m Double Swing Wooden Saloon Door   | set | 1.00  |  |  |  |  |  |
| 6.250 | D12-Fire Rated Steel Door 0.80m x 2.10m with Panic Bar and Accessories  | set | 3.00  |  |  |  |  |  |
|       | D13- 1.2m x 2.10m PWD Wooden Panel Door w Grab Bar in and out complete with accessories and lockset   | set | 2.00  |  |  |  |  |  |
| 6.100 | W1-3.0mx 2.0m with 6mm thk Bronze Glass Sliding Window Type ( 1.6mx3m) with Transom ( 0.4m x 3.0 m) on Analok Aluminum Frame, with Window Screen Complete with Hardware and Accessories | set | 15.00 |  |  |  |  |  |
| 6.110 | W2-2.0mx1.60m with 6mm thk Bronze Glass Sliding Window Type ( 1.30 m x 2.0 m) with awning transom window (0.3m x 2.0m) on Analok Aluminum Frame Complete with Hardware and Accessories  | set | 4.00  |  |  |  |  |  |
| 6.120 | W3-3.20mx2.50mm with 6mm thk Bronze Glass French Window Type with awning transom Window (in between- 0.36x3.2m) on Analok Aluminum Frame Complete                                       | set | 3.00  |  |  |  |  |  |

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|-------------|--|------------|-------------|--|--|--|--|--|
|             | with Hardware and Accessories                          |            |             |  |  |  |  |  |
| 6.130       | W4-Awning Window with Transom ( h= 0.8m x W=1.0 m)     | set        | 12.00       |  |  |  |  |  |
| 6.131       | W5-Awning Window with Transom ( h= 0.8m x W=1.50 m)    | set        | 4.00        |  |  |  |  |  |
|             | W6- Awning Window with Transom (h=0.40m x 2.40m)       | set        | 3.00        |  |  |  |  |  |
|             | W7- 2.0m x 2.40m (±100x200x200 Glass Blocks)           | pcs        | 250.00      |  |  |  |  |  |
|             | W8- 3.0m x 1.60m(±100x200x200 Glass Blocks)            | pcs        | 240.00      |  |  |  |  |  |
|             | <b>SUB TOTAL</b>                                       |            |             |  |  |  |  |  |
| <b>7.00</b> | <b>STEEL WORKS</b>                                     | <b>lot</b> | <b>1.00</b> |  |  |  |  |  |
|             | <b>Platform and Roof Frame</b>                         |            |             |  |  |  |  |  |
| 7.520       | Tubular 50mm x 100mm x 2.0mm                           | pc         | 20.00       |  |  |  |  |  |
| 7.470       | Tubular 50mm x 50mm x 1.5mm, GI                        | pc         | 20.00       |  |  |  |  |  |
| 7.290       | L 75 x 75 x 5mm  | kg         | 488.28      |  |  |  |  |  |
| 7.241       | L 50 x 50 x 5mm  | kg         | 113.27      |  |  |  |  |  |
| 7.201       | L 38 x 38 x 4mm  | kg         | 124.80      |  |  |  |  |  |
|             | 300x500x12.5 Gusset Plate                              | pcs        | 7.00        |  |  |  |  |  |
| 7.640       | Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 300mm | pcs        | 16.00       |  |  |  |  |  |
|             | Steel Plate 1.20m x 2.40m x 16mm                       | pc         | 2.00        |  |  |  |  |  |
|             | Anchor Bolt with Nuts and Washer, 16mmØ x 50mm x 300mm | pc         | 126.00      |  |  |  |  |  |
|             | Anchor Bolt with Nuts and Washer, 12mmØ x 50mm x 300mm | pc         | 126.00      |  |  |  |  |  |
| 7.780       | Welding Rod  | kg         | 15.00       |  |  |  |  |  |

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|-------------|--|-------------|---------------|--|--|--|--|--|
|             | <b>Railings</b>  |             |               |  |  |  |  |  |
|             | <b>Exterior Railings and for Ramps</b>                         |             |               |  |  |  |  |  |
| 7.520       | Tubular 50mm x 150mm x 2.0mm, GI                               | pc          | 12.00         |  |  |  |  |  |
| 7.310       | Flat Bar 12x50mm   | kg          | 1,180.00      |  |  |  |  |  |
| 7.800       | Stainless Steel Pipe, D38mm, 304                               | pc          | 30.00         |  |  |  |  |  |
| 7.850       | Stainless Steel Rail Bracket, D38mm,304                        | pc          | 25.00         |  |  |  |  |  |
| 7.780       | Welding Rod  | kg          | 20.00         |  |  |  |  |  |
| 7.860       | SS Welding Rod   | kg          | 4.00          |  |  |  |  |  |
|             | <b>Interior Railing (Stairwell Area)</b>                       |             |               |  |  |  |  |  |
| 7.800       | Stainless Steel Pipe, D38mm, 304                               | pc          | 18.00         |  |  |  |  |  |
| 7.840       | Stainless Steel Glass Holder Clamp, 8-10mm Glazing, 304        | pc          | 124.00        |  |  |  |  |  |
| 7.850       | Stainless Steel Rail Bracket, D38mm,304                        | pc          | 20.00         |  |  |  |  |  |
|             | SS Elbow, D38mm, 304   | pc          | 12.00         |  |  |  |  |  |
|             | 3/8" Tempered Glass  | sq.ft.      | 418.50        |  |  |  |  |  |
| 7.860       | SS Welding Rod   | kg          | 8.00          |  |  |  |  |  |
|             | <b>Suspended Slab and Roof Deck</b>                            | <b>sq.m</b> | <b>779.80</b> |  |  |  |  |  |
|             | Flat Steel Deck, 261mm x 50mm x1mm                             | lnm         | 3,286.51      |  |  |  |  |  |
| 7.780       | Welding Rod  | kg          | 10.00         |  |  |  |  |  |
|             | <b>SUB TOTAL</b>   |             |               |  |  |  |  |  |
| <b>8.00</b> | <b>ROOFING WORKS</b>   | <b>lot</b>  | <b>1.00</b>   |  |  |  |  |  |
|             | 8mm thk. Clear Polycarbonate Roofing Sheet (4' x 8')           | pcs         | 27.00         |  |  |  |  |  |
|             | Ridge Roll, Pre-Painted, Ordinary, 0.610m x 2.440m x 0.4mm thk | pc          | 5.00          |  |  |  |  |  |
|             | Flashing, Pre-Painted, Ordinary,                               | pc          | 6.00          |  |  |  |  |  |

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|-------------|---|-------------|-----------------|--|--|--|--|--|
|             | 0.915m x 2.440m x 0.4mm thk                                 |             |                 |  |  |  |  |  |
|             | Gutter, Pre-Painted, Ordinary, 0.610m x 2.440m x 0.4mm thk  | pc          | 10.00           |  |  |  |  |  |
| 8.350       | Teckscrew 2-1/2"  | pc          | 2,400.00        |  |  |  |  |  |
|             | Silicon Roof Sealant  | l           | 2.00            |  |  |  |  |  |
|             | <b>SUB TOTAL</b>  |             |                 |  |  |  |  |  |
| <b>9.00</b> | <b>CARPENTRY WORKS</b>                                      | <b>lot</b>  | <b>1.00</b>     |  |  |  |  |  |
|             | <b>Interior ceiling</b>                                     | <b>sq.m</b> | <b>1,548.90</b> |  |  |  |  |  |
| 9.530       | Metal Carrying Channel (12mm x 38mm x 5m x 0.8mm thk)       | pc          | 324.00          |  |  |  |  |  |
| 9.550       | Metal Double Furring Channel (19mm x 50mm x 5m x 0.5mm thk) | pc          | 648.00          |  |  |  |  |  |
| 9.570       | Wall Angle 1" x 1" x 10'                                    | pc          | 375.00          |  |  |  |  |  |
| 9.580       | W Clip  | pc          | 2,727.00        |  |  |  |  |  |
| 9.590       | Suspension Clip & Rod Joiner                                | pc          | 1,334.00        |  |  |  |  |  |
| 9.600       | Steel Angle Bracket   | pc          | 1,334.00        |  |  |  |  |  |
| 9.610       | Round Bar Hanger (8 mm diam.)                               | kg          | 540.00          |  |  |  |  |  |
| 9.710       | 250x3028mm Woodgrained PVC Ceiling Panel                    | pc          | 2,272.00        |  |  |  |  |  |
| 9.730       | H-Joint Moulding, PVC                                       | pc          | 52.00           |  |  |  |  |  |
| 9.771       | 14.5x63x3028mm Cornice PVC,                                 | pc          | 367.00          |  |  |  |  |  |
| 9.780       | Construction Adhesive, 300cc                                | pc          | 58.00           |  |  |  |  |  |
| 9.630       | Blind Rivets  | pc          | 7,744.00        |  |  |  |  |  |
| 9.640       | Nails (# 3)   | kg          | 16.00           |  |  |  |  |  |
|             | <b>Exterior ceiling</b>                                     | <b>sq.m</b> | <b>273.00</b>   |  |  |  |  |  |
| 9.190       | Fascia Board, Fiber Cement 12" x 8'                         | pc          | 10.00           |  |  |  |  |  |
| 9.530       | Metal Carrying Channel (12mm x                              | pc          | 58.00           |  |  |  |  |  |

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|       |   |             |              |  |  |  |  |  |
|-------|---|-------------|--------------|--|--|--|--|--|
|       | 38mm x 5m x 0.8mm thk)  |             |              |  |  |  |  |  |
| 9.540 | 0.40mm Thk Woodgrain Spandrel, eff. cov. 187mm                          | lm          | 1,606.00     |  |  |  |  |  |
| 9.550 | Metal Double Furring Channel (19mm x 50mm x 5m x 0.5mm thk)             | pc          | 103.00       |  |  |  |  |  |
| 9.570 | Wall Angle 1" x 1" x 10'  | pc          | 67.00        |  |  |  |  |  |
| 9.580 | W Clip  | pc          | 481.00       |  |  |  |  |  |
| 9.590 | Suspension Clip & Rod Joiner  | pc          | 247.00       |  |  |  |  |  |
| 9.600 | Steel Angle Bracket   | pc          | 247.00       |  |  |  |  |  |
| 9.610 | Round Bar Hanger (8 mm diam.)   | kg          | 97.00        |  |  |  |  |  |
| 9.630 | Blind Rivets  | pc          | 1,010.00     |  |  |  |  |  |
| 9.640 | Nails (# 3)   | kg          | 4.00         |  |  |  |  |  |
| 9.660 | Wooden Ceiling Ventilation (25mm x 25mm x 300m x 1200mm with Wire Mesh) | pc          | 10.00        |  |  |  |  |  |
|       | <b>Stage Platform</b>   | <b>lot</b>  | <b>1.00</b>  |  |  |  |  |  |
| 9.130 | Rough Lumber, Sun Dried   | bd.ft       | 237.01       |  |  |  |  |  |
| 9.120 | Wood Board, Sun Dried   | bd.ft       | 55.32        |  |  |  |  |  |
| 9.430 | Wood Preservative, Brown  | L           | 9.00         |  |  |  |  |  |
| 9.230 | Finishing Nails   | kg          | 3.00         |  |  |  |  |  |
| 9.240 | Common Wire Nails   | kg          | 6.00         |  |  |  |  |  |
| 9.480 | 14.5x84mm Colonial Casing   | l.ft.       | 58.00        |  |  |  |  |  |
| 9.470 | 14.5x134mm Mediterranean Baseboard                                      | l.ft.       | 43.00        |  |  |  |  |  |
|       | Wood grained PVC Vinyl Planks, 6" x 36", 3mm thick                      | pcs         | 184.00       |  |  |  |  |  |
|       | <b>Backstage Wall</b>   | <b>sq.m</b> | <b>22.95</b> |  |  |  |  |  |
| 9.130 | Rough Lumber, Sun Dried   | bd.ft       | 111.00       |  |  |  |  |  |

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|---------------|--|------------|-------------|--|--|--|--|--|
| 9.120         | Wood Board, Sun Dried                                | bd.ft      | 67.32       |  |  |  |  |  |
| 9.430         | Wood Preservative, Brown                             | L          | 8.00        |  |  |  |  |  |
| 9.230         | Finishing Nails                                      | kg         | 8.00        |  |  |  |  |  |
| 9.240         | Common Wire Nails                                    | kg         | 4.00        |  |  |  |  |  |
| 9.480         | 14.5x84mm Colonial Casing                            | l.ft.      | 101.00      |  |  |  |  |  |
|               | <b>Cornices and Baseboards</b>                       | <b>lot</b> | <b>1.00</b> |  |  |  |  |  |
| 9.771         | 14.5x63x3028mm Cornice PVC,                          | pc         | 272.00      |  |  |  |  |  |
| 9.470         | 14.5x134mm Mediterranean Baseboard                   | l.ft.      | 1,773.00    |  |  |  |  |  |
| 9.230         | Finishing Nails                                      | kg         | 7.00        |  |  |  |  |  |
|               | <b>SUB TOTAL</b>                                     |            |             |  |  |  |  |  |
| <b>10.00</b>  | <b>ELECTRICAL WORKS</b>                              | <b>lot</b> | <b>1.00</b> |  |  |  |  |  |
| <b>1.0000</b> | <b>ELECTRICAL WORKS</b>                              |            |             |  |  |  |  |  |
|               | SQUARE LED PANEL LIGHT SURFACE TYPE (12W cool white) | set        | 58.00       |  |  |  |  |  |
|               | ROUND LED PANEL LIGHT SURFACE TYPE (12W cool white)  | set        | 37.00       |  |  |  |  |  |
|               | SQUARE LED PANEL LIGHT SURFACE TYPE (12W warm white) | set        | 27.00       |  |  |  |  |  |
|               | METAL PENDANT LIGHT (40 W warm white)                | set        | 4.00        |  |  |  |  |  |
|               | LINEAR PENDANT LIGHT (36W warm white)                | set        | 4.00        |  |  |  |  |  |
|               | LED PANEL LIGHT SURFACE TYPE(24W Cool White)         | set        | 8.00        |  |  |  |  |  |
|               | ROUND LED PANEL LIGHT SURFACE TYPE (6W Warm white)   | set        | 228.00      |  |  |  |  |  |

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|---------------|--|------|--------|--|--|--|--|--|
|               | CHANDELIER, 30 W                                     | assy | 7.00   |  |  |  |  |  |
|               | Strip Light (Cool White)                             | m    | 600.00 |  |  |  |  |  |
|               | TRACKLIGHT, 30 W                                     | assy | 12.00  |  |  |  |  |  |
|               | SQUARE LED PANEL LIGHT SURFACE TYPE (48W cool white) | set  | 67.00  |  |  |  |  |  |
|               | Tricolor   | set  | 17.00  |  |  |  |  |  |
|               | Water Heater with shower head, 2 kW                  | set  | 8.00   |  |  |  |  |  |
|               | Automatic Transfer Switch 300A                       | set  | 1.00   |  |  |  |  |  |
|               | Cable Tray, Hot Dipped Galvanized                    | m    | 50.00  |  |  |  |  |  |
| <b>2.0000</b> | <b>Wires and Conduits</b>                            |      |        |  |  |  |  |  |
|               | 3.5 mm2 THHN wires, stranded                         | box  | 30.00  |  |  |  |  |  |
|               | 5.5 mm2 THHN wires, stranded                         | box  | 2.00   |  |  |  |  |  |
|               | 8.0 mm2 THHN wires, stranded                         | box  | 4.00   |  |  |  |  |  |
|               | 14.0 mm2 THHN wires, stranded                        | m    | 30.00  |  |  |  |  |  |
|               | 22.0 mm2 THHN wires, stranded                        | m    | 50.00  |  |  |  |  |  |
|               | 38.0mm2 THHN wires, stranded                         | m    | 30.00  |  |  |  |  |  |
|               | 80.0 mm2 THHN wires, stranded                        | m    | 40.00  |  |  |  |  |  |
|               | 125.0 mm2 THHN wires, stranded                       | m    | 50.00  |  |  |  |  |  |
|               | Electrical Conduit uPVC, 25mmØ                       | pc   | 500.00 |  |  |  |  |  |
|               | Electrical Conduit uPVC, 50mmØ                       | pc   | 100.00 |  |  |  |  |  |
|               | Octagonal Junction Box                               | pcs. | 250.00 |  |  |  |  |  |
|               | Utility Box  | pcs. | 199.00 |  |  |  |  |  |
|               | Pull box 4"x6"x6"                                    | pcs. | 9.00   |  |  |  |  |  |
|               | RSC pipe 4"  | pcs  | 2.00   |  |  |  |  |  |
|               | Entrance Cap 2"                                      | pcs  | 1.00   |  |  |  |  |  |
| <b>3.0000</b> | <b>Convenience Outlet, Switches</b>                  |      |        |  |  |  |  |  |
|               | 3 PRONG CONVENIENCE OUTLET 2 GANG                    | assy | 67.00  |  |  |  |  |  |

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|---------------|---|------|--------|--|--|--|--|--|
|               | RECEPTACLE WITH COVER   |      |        |  |  |  |  |  |
|               | 3 PRONG CONVENIENCE OUTLET 1 GANG RECEPTACLE (Water Heater)   | assy | 8.00   |  |  |  |  |  |
|               | 2 PRONG CONVENIENCE OUTLET 1 GANG RECEPTACLE WITH COVER (Emergency Light)   | assy | 23.00  |  |  |  |  |  |
|               | HEAVY DUTY FLOOR MOUNTED CONVENIENCE OUTLET 2 GANG  | assy | 38.00  |  |  |  |  |  |
|               | Octagonal Junction Box  | pcs. | 250.00 |  |  |  |  |  |
|               | 2 Gang Switch, Wide Series, With LED Indicator  | pcs. | 25.00  |  |  |  |  |  |
|               | 3 Gang Switch, Wide Series, With LED Indicator  | pcs. | 38.00  |  |  |  |  |  |
| <b>4.0000</b> | <b>MAIN DISTRIBUTION PANEL AND SUB PANEL</b>  |      |        |  |  |  |  |  |
|               | Heavy Duty Panel Board, 6 holes 300 A Centermain, bolt on, 1 sets - 150 A Circuit Breaker, 1 set - 125 A Circuit breaker, 4 set - 100 A circuit breaker                   | assy | 1.00   |  |  |  |  |  |
|               | Heavy Duty Panel Board, 16 holes 100 A Centermain, bolt on, 1 set - 70 A Circuit breaker, 3 set - 40 A Circuit breaker, 11 set - 40 A Circuit breaker (Ground Floor Main) | assy | 1.00   |  |  |  |  |  |

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|  |   |      |      |  |  |  |  |  |
|--|---|------|------|--|--|--|--|--|
|  | Heavy Duty Panel Board (sub-panel), 10 holes 70 A Centermain, bolt on, 10 set - 20 A Circuit Breaker(Ground Floor)  | assy | 1.00 |  |  |  |  |  |
|  | Heavy Duty Panel Board (sub-panel), 4 holes 40 A Centermain, bolt on, 4 set - 20 A Circuit Breaker(Ground Floor)  | assy | 2.00 |  |  |  |  |  |
|  | Heavy Duty Panel Board, 16 holes 150 A Centermain, bolt on, 3 set - 50 A Circuit breaker, 2 set - 40 A Circuit breaker, 11 set - 40 A Circuit breaker (Second Floor Main) | assy | 1.00 |  |  |  |  |  |
|  | Heavy Duty Panel Board (sub-panel), 6 holes 50 A Centermain, bolt on, 2 set - 30 A Circuit Breaker, 4 set - 20 A Circuit Breaker(Second Floor)                            | assy | 3.00 |  |  |  |  |  |
|  | Heavy Duty Panel Board (sub-panel), 4 holes 40 A Centermain, bolt on, 1 set - 30 A Circuit Breake, 3 set - 20 A Circuit Breaker(Second Floor)                             | assy | 2.00 |  |  |  |  |  |
|  | Heavy Duty Panel Board, 4 holes 125 A Centermain, bolt on, 2 set - 100 A Circuit breaker, 2 sets - 60 A Circuit breaker (Third Floor Main)                                | assy | 1.00 |  |  |  |  |  |

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|  |   |      |      |  |  |  |  |  |
|--|---|------|------|--|--|--|--|--|
|  | Heavy Duty Panel Board (sub-panel), 10 holes 60 A Centermain, bolt on, 10 set - 20 A Circuit Breaker(Third Floor)   | assy | 2.00 |  |  |  |  |  |
|  | <b>FDAS<br/>EQUIPMENTS AND<br/>COSTS</b>  |      |      |  |  |  |  |  |
|  | Fire Alarm Control Panel-"Main Voltage: 110VAC or 220VAC ±20% 50HZ/60HZ Batteries: 2*12V/ 5Ah Lead Acid Batteries Battery low-voltage protection :21V Detectors or modules connection allowed each Loop Totally 250 pcs for one loop 7" Touchscreen LCD Color D | set  | 1.00 |  |  |  |  |  |
|  | Manual call point emergency button Operating Voltage:9-28VDC Volts Material:fireproof plastic Color:Red Current Ratings : 9-28VDC Volts Alarm Current : 45mA @24VDC Dimensions : 140x104x45mm(Lx WxH)   | set  | 8.00 |  |  |  |  |  |
|  | addressable strobe sounder color:Red operating voltage: 18V-28V DC operating current: 10-60mA Alarm SPL:≥100dB  | set  | 8.00 |  |  |  |  |  |

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|  |   |     |       |  |  |  |  |  |
|--|---|-----|-------|--|--|--|--|--|
|  | Flash Period: ≤1.0S<br>Temperature: -10°C~50°C  |     |       |  |  |  |  |  |
|  | Addressable smoke detector<br>Usage:Detect Smoke<br>Type:2<br>Wires/addressable smoke detector<br>Material:ABS Plastic<br>Color:White<br>Operating voltage: Loop 24V(18V-24V)<br>Standby Current:≤0.3mA<br>Alarm Current:≤1.5mA(wit hout Remoted Indicator)≤3.5mA(wit h Remoted Indicator | set | 30.00 |  |  |  |  |  |
|  | addressable smoke and heat detector<br>Type:2 Wires<br>Color:White Color work<br>Current:≤2.5mA<br>Operating voltage:DC18-28V<br>Smoke Sensitivity:0.2-0.3dB/m<br>Rate of Rise<br>Alarm:7.1°C/5S A2R<br>Material:ABS<br>Fix Temperature Rating:57°C A2R                                   | set | 4.00  |  |  |  |  |  |
|  | 12VDC 10AH Lead Acid Battery  | pc  | 2.00  |  |  |  |  |  |
|  | PVC Insulated 0.5 0.75 11.5 2.5mm RVS twisted pair wire cable<br>Rated voltage:300/300V<br>Product certification: CCC, CE, ROHS, etc<br>Core:2 Core twisted pair wire   | lot | 1.00  |  |  |  |  |  |

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|--------------|--|------------|-------------|--|--|--|--|--|
|              | cable<br>Working<br>temperature:Not<br>exceed 70 °C<br>Jacket:PVC Jacket   |            |             |  |  |  |  |  |
|              | Operating Voltage:9-<br>28VDC Volt<br>EOL Resistance:<br>None<br>Temperature Range:<br>0 Deg C to 49 Deg C<br>Provide a dry-<br>contact output for<br>activating a variety<br>of auxiliary devices | set        | 3.00        |  |  |  |  |  |
|              | <b>Sub-total</b>   |            |             |  |  |  |  |  |
| <b>11.00</b> | <b>PLUMBING WORKS</b>  | <b>lot</b> | <b>1.00</b> |  |  |  |  |  |
|              | <b>Roughing-ins</b>  |            |             |  |  |  |  |  |
| 11.040       | PP-R Pipe 1"Ø  | pc         | 19.00       |  |  |  |  |  |
| 11.090       | PP-R Coupling, 1"Ø   | pc         | 22.00       |  |  |  |  |  |
| 11.150       | PP-R Tee, 1"Ø  | pc         | 16.00       |  |  |  |  |  |
| 11.170       | PP-R Tee, 1" x 1/2"Ø   | pc         | 16.00       |  |  |  |  |  |
| 11.200       | PP-R Elbow 90o x<br>1"Ø  | pc         | 15.00       |  |  |  |  |  |
| 11.210       | PP-R Coupling<br>Reducer, 1/2" x 1"Ø   | pc         | 15.00       |  |  |  |  |  |
| 11.330       | PP-R Gate Valve, 1"Ø   | pc         | 14.00       |  |  |  |  |  |
| 11.060       | PP-R Pipe 1/2"Ø  | pc         | 72.00       |  |  |  |  |  |
| 11.180       | PP-R Elbow 90o x<br>1/2"Ø  | pc         | 57.00       |  |  |  |  |  |
| 11.070       | PP-R Coupling,<br>1/2"Ø  | pc         | 96.00       |  |  |  |  |  |
| 11.130       | PP-R Tee, 1/2"Ø  | pc         | 30.00       |  |  |  |  |  |
| 11.310       | PP-R Gate Valve,<br>1/2"Ø  | pc         | 13.00       |  |  |  |  |  |
| 11.320       | PP-R Adaptor Female<br>Threaded, 1/2"Ø   | pc         | 109.00      |  |  |  |  |  |
| 11.890       | Angle Valve 3/8" x<br>1/2"Ø  | pc         | 51.00       |  |  |  |  |  |
|              | <b>Fixtures</b>  |            |             |  |  |  |  |  |
| 11.920       | DC/AC Type Sensor<br>Faucet complete with<br>fittings  | pc         | 18.00       |  |  |  |  |  |
| 11.930       | Water Closet Flange  | set        | 21.00       |  |  |  |  |  |
| 11.940       | Water Closet 1.6gpf<br>with Accessories  | set        | 21.00       |  |  |  |  |  |

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|--------|---|------|-------|--|--|--|--|--|
|        | 400mm Ceramic Round Vessel Wash Basin Complete with Accessories   | set  | 18.00 |  |  |  |  |  |
|        | SS Gooseneck Faucet Pull out Side Sprayer Dual Spout Single Handle Mixer Tap Sink Faucet 360 Rotation Kitchen Faucets | set  | 4.00  |  |  |  |  |  |
|        | Stainless steel 2mm thickness kitchen thickened double basin sink complete with fittings and Accessories              | set  | 2.00  |  |  |  |  |  |
| 11.990 | Stainless Steel Double Rack Hanger w/ Movable Hooks   | set  | 11.00 |  |  |  |  |  |
| 12.010 | S.S.Floor Drain 4' x 4"   | pc   | 35.00 |  |  |  |  |  |
| 12.020 | Teflon Tape   | roll | 15.00 |  |  |  |  |  |
| 12.030 | Tissue Holder   | pc   | 22.00 |  |  |  |  |  |
| 12.040 | Soap Holder   | pc   | 22.00 |  |  |  |  |  |
| 12.050 | S.S. Grab Rail 1-1/2"Ø  | pc   | 22.00 |  |  |  |  |  |
| 12.071 | SS Wall Mounted Ring Towel Holder   | set  | 11.00 |  |  |  |  |  |
| 12.140 | S.S. Water Tank, 1.5 cu.m. cap  | pc   | 6.00  |  |  |  |  |  |
|        | <b>Dry Standpipe System</b>   |      |       |  |  |  |  |  |
| 12.141 | Fire Hose Cabinet complete with all contents per specifications (with fire extinguisher)                              | set  | 3.00  |  |  |  |  |  |
| 12.142 | Fire Extinguisher, 10lbs Capacity w/ mounting bracket   | set  | 18.00 |  |  |  |  |  |
| 12.143 | Three Way Flush Fire Department Inlet Connections, Dry Standpipe, Cast Brass Body with complete accessories           | set  | 1.00  |  |  |  |  |  |

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|--------------|-----------------------------------|-------------|-----------------|--|--|--|--|--|
| 12.154       | G.I. Pipe, ERW, Sch. 40, 2-1/2"Ø  | pcs         | 25.00           |  |  |  |  |  |
| 12.155       | G.I. Elbow, Sch.40, 2-1/2"Ø X 90° | pcs         | 11.00           |  |  |  |  |  |
| 12.156       | G.I. Tee, Sch 40, 2-1/2"Ø         | pcs         | 8.00            |  |  |  |  |  |
| 12.157       | Pipe Saddle Clamp, 2-1/2"Ø        | pcs         | 45.00           |  |  |  |  |  |
| 12.158       | Gate valve, 2-1/2"Ø               | pcs         | 1.00            |  |  |  |  |  |
| 12.152       | Fire Hose Valve, 2"Ø              | set         | 1.00            |  |  |  |  |  |
| 7.780        | Welding Rod                       | kg          | 10.00           |  |  |  |  |  |
|              | <b>Sub-total</b>                  |             |                 |  |  |  |  |  |
| <b>12.00</b> | <b>SANITARY WORKS</b>             | <b>lot</b>  | <b>1.00</b>     |  |  |  |  |  |
| 12.170       | Catch Basin                       | unit        | 12.00           |  |  |  |  |  |
| 12.300       | uPVC Sanitary Pipe 6"Ø            | pc          | 21.00           |  |  |  |  |  |
| 12.290       | uPVC Sanitary Pipe 4"Ø            | pc          | 43.00           |  |  |  |  |  |
| 12.420       | uPVC Tee 4" x 4"                  | pc          | 26.00           |  |  |  |  |  |
| 12.370       | uPVC Cleanout x 4"Ø               | pc          | 14.00           |  |  |  |  |  |
| 12.330       | uPVC Elbow 90o x 4"Ø              | pc          | 21.00           |  |  |  |  |  |
| 12.250       | PVC Pipe 3"Ø                      | pc          | 98.00           |  |  |  |  |  |
| 12.320       | uPVC Elbow 90o x 3"Ø              | pc          | 45.00           |  |  |  |  |  |
| 12.270       | uPVC Sanitary Pipe 2"Ø            | pc          | 44.00           |  |  |  |  |  |
| 12.310       | uPVC Elbow 90o x 2"Ø              | pc          | 56.00           |  |  |  |  |  |
| 12.380       | uPVC Tee 2" x 2"                  | pc          | 44.00           |  |  |  |  |  |
| 12.340       | uPVC Elbow 1/8 x 2"Ø              | pc          | 21.00           |  |  |  |  |  |
| 12.550       | PVC Cement                        | can         | 20.00           |  |  |  |  |  |
|              | Catch Pit                         | unit        | 2.00            |  |  |  |  |  |
| 12.530       | Three Chamber Septic Vault        | unit        | 2.00            |  |  |  |  |  |
| 12.210       | Concrete Pipe 600mmØ              | pc          | 6.00            |  |  |  |  |  |
|              | <b>SUB TOTAL</b>                  |             |                 |  |  |  |  |  |
| <b>13.00</b> | <b>PAINTING WORKS</b>             | <b>sq.m</b> | <b>3,716.28</b> |  |  |  |  |  |
|              | <b>Concrete Surfaces</b>          | <b>sq.m</b> | <b>3,309.14</b> |  |  |  |  |  |
| 13.180       | Neutralizer                       | gal         | 42.00           |  |  |  |  |  |
| 13.010       | Latex, Flat                       | gal         | 166.00          |  |  |  |  |  |
| 13.140       | Masonry Putty                     | gal         | 166.00          |  |  |  |  |  |

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|        |                                |             |               |  |  |  |  |  |
|--------|--------------------------------|-------------|---------------|--|--|--|--|--|
| 13.030 | Latex, Gloss                   | gal         | 166.00        |  |  |  |  |  |
| 13.220 | Tinting Color                  | qrt         | 42.00         |  |  |  |  |  |
| 13.450 | Assorted Sand Paper            | m           | 94.00         |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 14.00         |  |  |  |  |  |
|        | <b>Wood Surfaces</b>           | <b>sq.m</b> | <b>332.14</b> |  |  |  |  |  |
|        | <b>Backstage Wall</b>          | <b>sq.m</b> | <b>96.39</b>  |  |  |  |  |  |
| 13.040 | Enamel, Flatwall               | gal         | 5.00          |  |  |  |  |  |
| 13.060 | Enamel, Quick Dry              | gal         | 5.00          |  |  |  |  |  |
| 13.160 | Paint Thinner                  | gal         | 2.00          |  |  |  |  |  |
| 13.150 | Glazing Putty                  | gal         | 5.00          |  |  |  |  |  |
| 13.450 | Assorted Sand Paper            | m           | 3.00          |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 3.00          |  |  |  |  |  |
|        | <b>Stage Platform</b>          | <b>sq.m</b> | <b>20.00</b>  |  |  |  |  |  |
| 13.040 | Enamel, Flatwall               | gal         | 1.00          |  |  |  |  |  |
| 13.060 | Enamel, Quick Dry              | gal         | 1.00          |  |  |  |  |  |
| 13.230 | Sanding Sealer                 | gal         | 1.00          |  |  |  |  |  |
| 13.320 | Polyurethane Paint             | gal         | 1.00          |  |  |  |  |  |
| 13.450 | Assorted Sand Paper            | m           | 1.00          |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 1.00          |  |  |  |  |  |
|        | <b>Doors and Jambs</b>         | <b>sq.m</b> | <b>145.75</b> |  |  |  |  |  |
| 13.230 | Sanding Sealer                 | gal         | 8.00          |  |  |  |  |  |
| 13.320 | Polyurethane Paint             | gal         | 8.00          |  |  |  |  |  |
| 13.310 | Oil Wood Stain                 | gal         | 8.00          |  |  |  |  |  |
| 13.170 | Lacquer Thinner                | gal         | 3.00          |  |  |  |  |  |
| 13.450 | Assorted Sand Paper            | m           | 5.00          |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 4.00          |  |  |  |  |  |
|        | <b>Baseboards</b>              | <b>sq.m</b> | <b>70.00</b>  |  |  |  |  |  |
| 13.040 | Enamel, Flatwall               | gal         | 4.00          |  |  |  |  |  |
| 13.060 | Enamel, Quick Dry              | gal         | 4.00          |  |  |  |  |  |
| 13.450 | Assorted Sand Paper            | m           | 2.00          |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 2.00          |  |  |  |  |  |
|        | <b>Steel Surface</b>           | <b>sq.m</b> | <b>75.00</b>  |  |  |  |  |  |
| 13.110 | Primer, Epoxy                  | gal         | 4.00          |  |  |  |  |  |
| 13.170 | Lacquer Thinner                | gal         | 1.00          |  |  |  |  |  |
| 13.060 | Enamel, Quick Dry              | gal         | 3.00          |  |  |  |  |  |
| 13.160 | Paint Thinner                  | gal         | 1.00          |  |  |  |  |  |
| 13.380 | Assorted Paint<br>Brush/Roller | pc          | 1.00          |  |  |  |  |  |
|        | <b>SUB TOTAL</b>               |             |               |  |  |  |  |  |

|              |  |             |                 |  |  |  |  |  |
|--------------|--|-------------|-----------------|--|--|--|--|--|
| <b>14.00</b> | <b>TILE WORKS</b>  | <b>sq.m</b> | <b>2,991.59</b> |  |  |  |  |  |
|              | <b>Main Entrance (landing and stairs) and Lavatory Counter</b> | <b>sq.m</b> | <b>88.42</b>    |  |  |  |  |  |
| 14.020       | Granite Slab, 19mm Thk   | sq.m        | 88.42           |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 22.00           |  |  |  |  |  |
|              | <b>Floor and Stairs</b>  | <b>sq.m</b> | <b>1,250.17</b> |  |  |  |  |  |
| 14.011       | Granite Tiles 60cm x 120cm (Polished)                          | pc          | 1,754.00        |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 298.00          |  |  |  |  |  |
| 14.170       | 2.5 x 25 x 38 mm x 2.40m Non-skid Brass Nosing                 | pc          | 70.00           |  |  |  |  |  |
|              | <b>Roof Deck (11.50M X 5.0M) and Terraces</b>                  | <b>sq.m</b> | <b>426.00</b>   |  |  |  |  |  |
| 14.040       | Granite Tiles 60cm x 60cm (Non-skid)                           | pc          | 1,196.00        |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 102.00          |  |  |  |  |  |
|              | <b>Comfort Rooms</b>   | <b>sq.m</b> | <b>632.67</b>   |  |  |  |  |  |
|              | <b>Floors</b>  | <b>sq.m</b> | <b>130.34</b>   |  |  |  |  |  |
| 14.040       | Granite Tiles 60cm x 60cm (Non-skid)                           | pc          | 366.00          |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 32.00           |  |  |  |  |  |
|              | Tile Grout 5 kg/bag  | bag         | 10.00           |  |  |  |  |  |
|              | <b>Walls</b>   | <b>sq.m</b> | <b>502.33</b>   |  |  |  |  |  |
| 14.010       | Granite Tiles 60cm x 60cm (Polished)                           | pc          | 1,410.00        |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 120.00          |  |  |  |  |  |
|              | Tile Grout 5 kg/bag  | bag         | 38.00           |  |  |  |  |  |
|              | <b>Ramps</b>   | <b>sq.m</b> | <b>92.00</b>    |  |  |  |  |  |
| 14.040       | Granite Tiles 60cm x 60cm (Non-skid)                           | pc          | 259.00          |  |  |  |  |  |
| 14.210       | Tile Adhesive 25 kg/bag  | bag         | 22.00           |  |  |  |  |  |
|              | Tile Grout 5 kg/bag  | bag         | 7.00            |  |  |  |  |  |
|              | Polyurethane Cementitious Waterproofing                        | gal         | 230.00          |  |  |  |  |  |
|              | <b>SUB TOTAL</b>   |             |                 |  |  |  |  |  |

Signature Box:

*(Insert signature of authorized representative)*

| <b>18.00</b>                | <b>Others</b>  | <b>lot</b> | <b>1.00</b> |  |  |  |  |  |
|-----------------------------|--|------------|-------------|--|--|--|--|--|
|                             | Building Markers,<br>400x600mm,<br>Stainless Steel<br>complete with<br>Decorated Hex Cap<br>Fastener | set        | 1.00        |  |  |  |  |  |
|                             | Door Markers,<br>100x150mm,<br>Stainless Steel   | pc         | 14.00       |  |  |  |  |  |
| 12.060                      | ±500x800mm<br>Frameless Mirror   | pc         | 36.00       |  |  |  |  |  |
|                             | <b>SUB TOTAL</b>   |            |             |  |  |  |  |  |
| <b>GENERAL REQUIREMENTS</b> |  |            |             |  |  |  |  |  |
| <b>I.</b>                   | <b>DIRECT COST:</b>  |            |             |  |  |  |  |  |
| <b>II.</b>                  | <b>INDIRECT COST:</b>  |            |             |  |  |  |  |  |
|                             | OVERHEAD EXPENSES ( 5% ):  |            |             |  |  |  |  |  |
|                             | CONTINGENCIES (3% ):   |            |             |  |  |  |  |  |
|                             | MISCELLANEOUS (1% ):   |            |             |  |  |  |  |  |
|                             | CONTRACTORS PROFIT (8% ):  |            |             |  |  |  |  |  |
| <b>III.</b>                 | <b>TAX:</b>  |            |             |  |  |  |  |  |
| <b>IV.</b>                  | <b>TOTAL CONSTRUCTION COST:</b>  |            |             |  |  |  |  |  |

Prepared by:

\_\_\_\_\_  
Print name and signature

Signature Box:

*(Insert signature of authorized representative)*

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

## Checklist of Technical and Financial Documents

### I. TECHNICAL COMPONENT ENVELOPE

#### *Class "A" Documents*

##### Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance **with section 8.5.2 of the IRR;**

##### Technical Documents

- (b) 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; **and**
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) 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**
- (f) 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;
  - 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; **and**
- (g) 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.

##### **other requirement for submission:**

- Site Inspection Certificate signed by the Principal/Officer-In Charge/ Officer of the Day of the School. Site Inspection Certificate is to be accompanied by a picture of the project engineer/foreman/owner or

any technical employee with the Gabaldon bldg. as the background

Financial Documents

- (h) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

**Class "B" Documents**

- (i) 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**

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

Other documentary requirements under RA No. 9184

- (k) Original of duly signed Bid Prices in the Bill of Quantities; **and**  
 (l) 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**  
 (m) Cash Flow by Quarter.

**other requirement:**

- (n) USB/flash drive (soft copy of Financial proposal in excel format)

*Note: 1. Templates for the Omnibus Sworn Statement (Revised), Bid Form and the Bid Securing Declaration are herein attached.*

*2. Sample/ Format for Site Inspection Certificate is also herein attached*

**Omnibus Sworn Statement (Revised)**  
***[shall be submitted with the Bid]***

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REPUBLIC OF THE PHILIPPINES )  
CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

**AFFIDAVIT**

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

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

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

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

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

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

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

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

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

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

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

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.



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

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

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

**[Jurat]**

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

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

---

**BID FORM**

Date : \_\_\_\_\_

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

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

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

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

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<sup>1</sup> currently based on GPPB Resolution No. 09-2020

- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and
- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity/].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of:

\_\_\_\_\_

Date: \_\_\_\_\_

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

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

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

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

I/We, the undersigned, declare that:

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

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

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

**[Jurat]**

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



**Republic of the Philippines  
Department of Education  
Cordillera Administrative Region  
Wangal, La Trinidad, Benguet**

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## **Site Inspection Certificate**

**TO WHOM IT MAY CONCERN:**

THIS IS TO CERTIFY that \_\_\_\_\_ of \_\_\_\_\_ appeared for site inspection in relation to the Construction of Four Storey National Educators Academy of the Philippines Building at DepED-CAR Regional Office, Wangal, La Trinidad, Benguet .

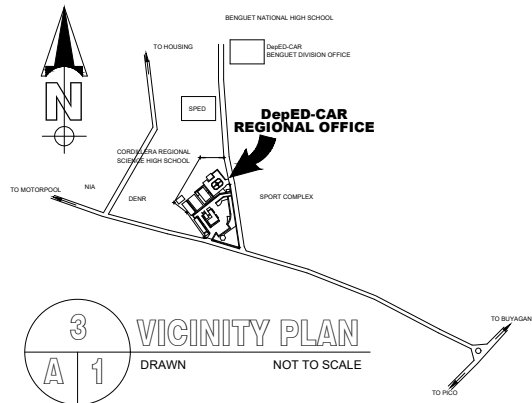
Issued this \_\_\_\_\_ day of \_\_\_\_\_, 2022.

**JENNIFER P. ANDE**  
CES/Officer In-Charge, NEAPR

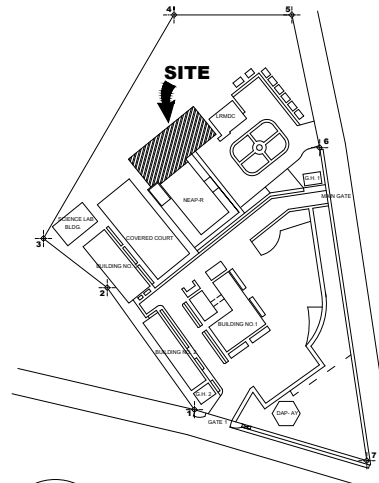
***Annex A of Section VII  
(Drawings)***



1 PERPECTIVE  
DRAWN NOT TO SCALE



3 VICINITY PLAN  
DRAWN NOT TO SCALE



2 SITE DEVELOPMENT PLAN  
SCALE 1 : 2000 M

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- PERSPECTIVE
- VICINITY PLAN
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- DOORS AND WINDOWS SCHEDULE
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REPUBLIC OF THE PHILIPPINES  
**OFFICE OF THE MUNICIPAL ENGINEER**

LA TRINIDAD, BENGUET

LAND USE AND ZONING

LINE AND GRADE

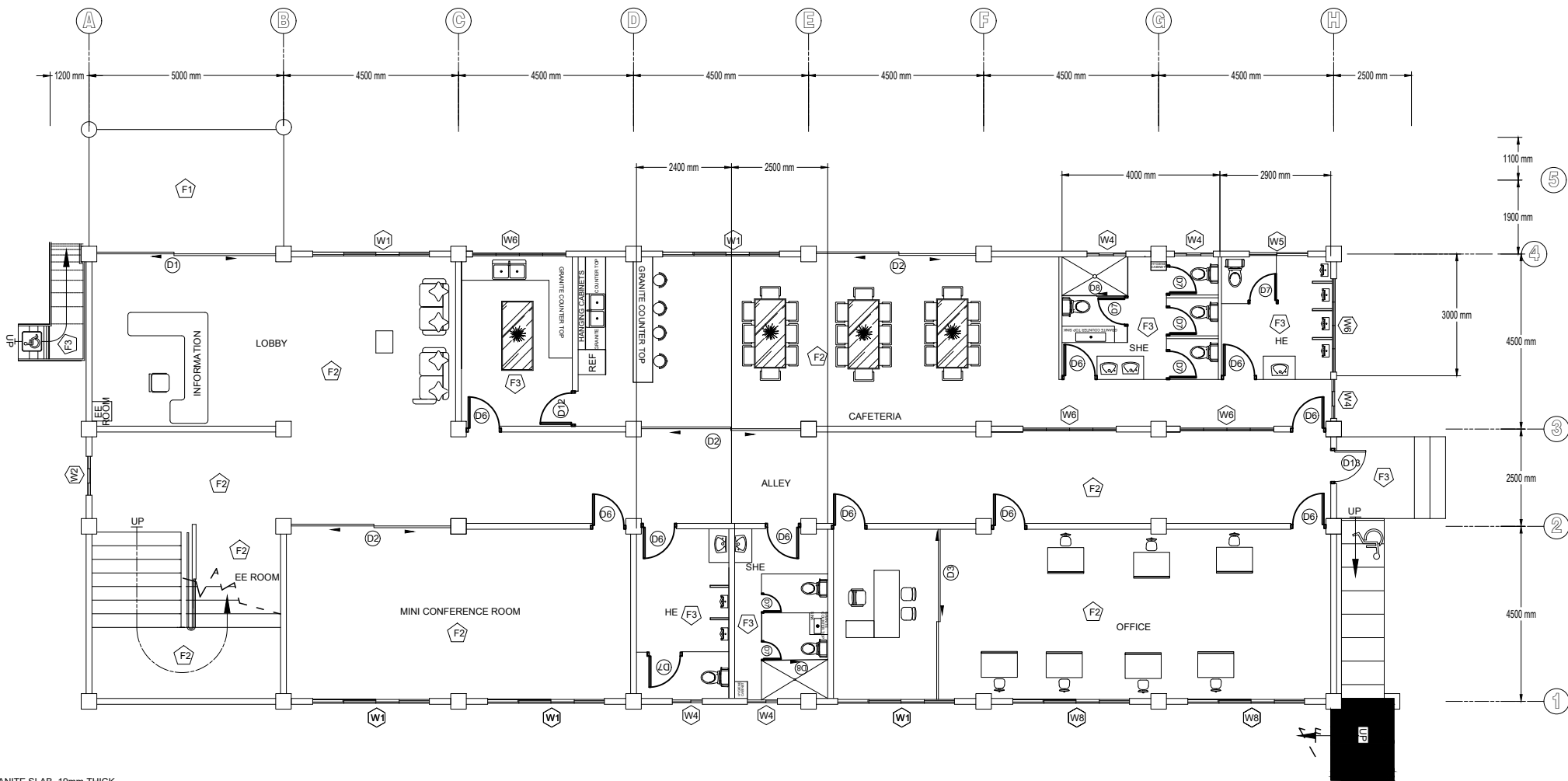
ARCHITECTURAL

STRUCTURAL

SANITARY

ELECTRICAL

MUNICIPAL FIRE MARSHAL

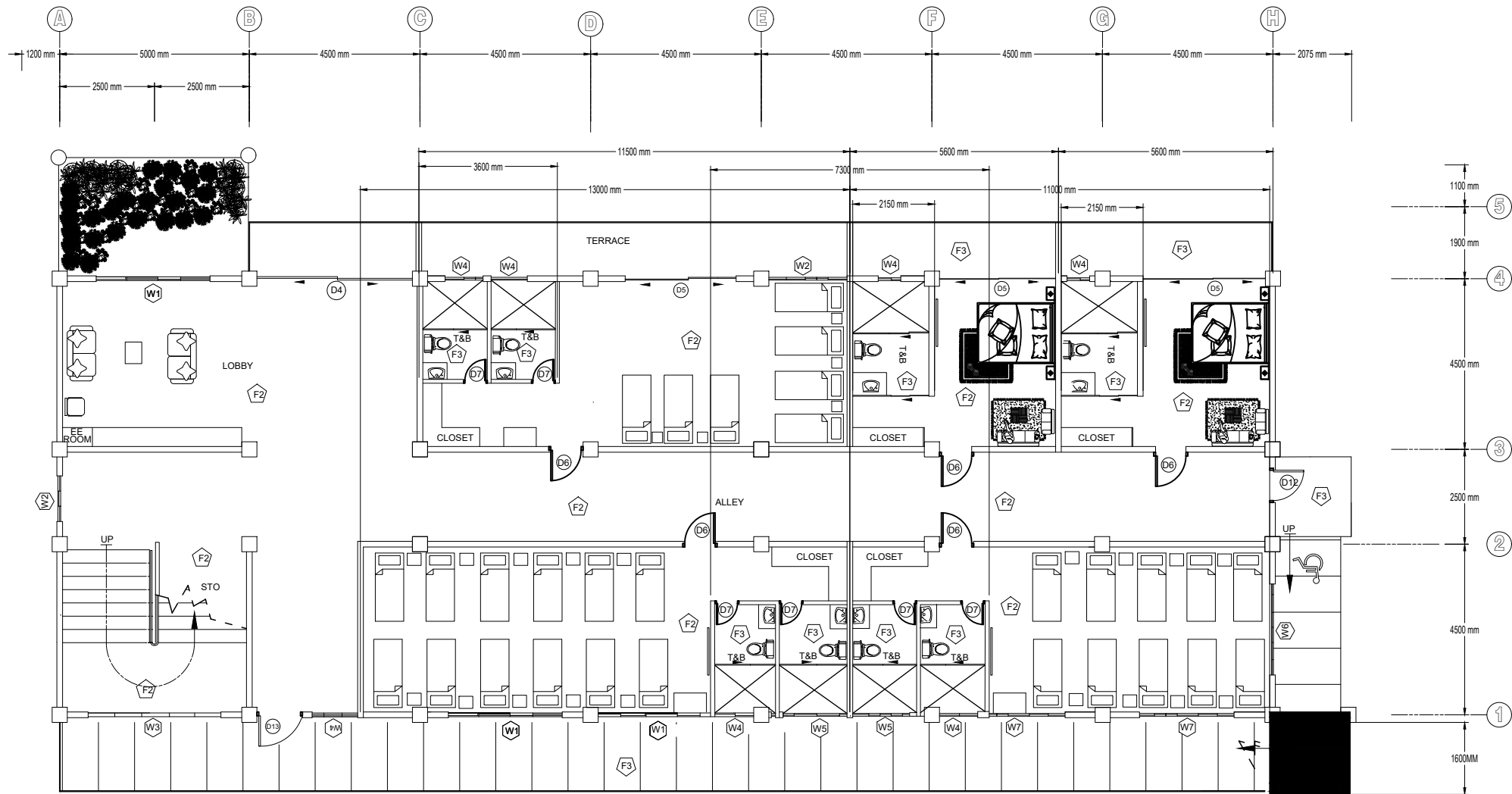


- F1 — GRANITE SLAB, 19mm THICK
- F2 — GRANITE TILES, 60X120 CM (POLISHED)
- F3 — GRANITE TILES 60 X 60CM (NON-SKID)
- F4 — WOOD GRAIN VINYL TILES

1
FIRST FLOOR PLAN  
A 1
SCALE
1 : 100 M

NOTE: TILE HEIGHT FOR COMFORT ROOMS AND BATH IS 3500mm





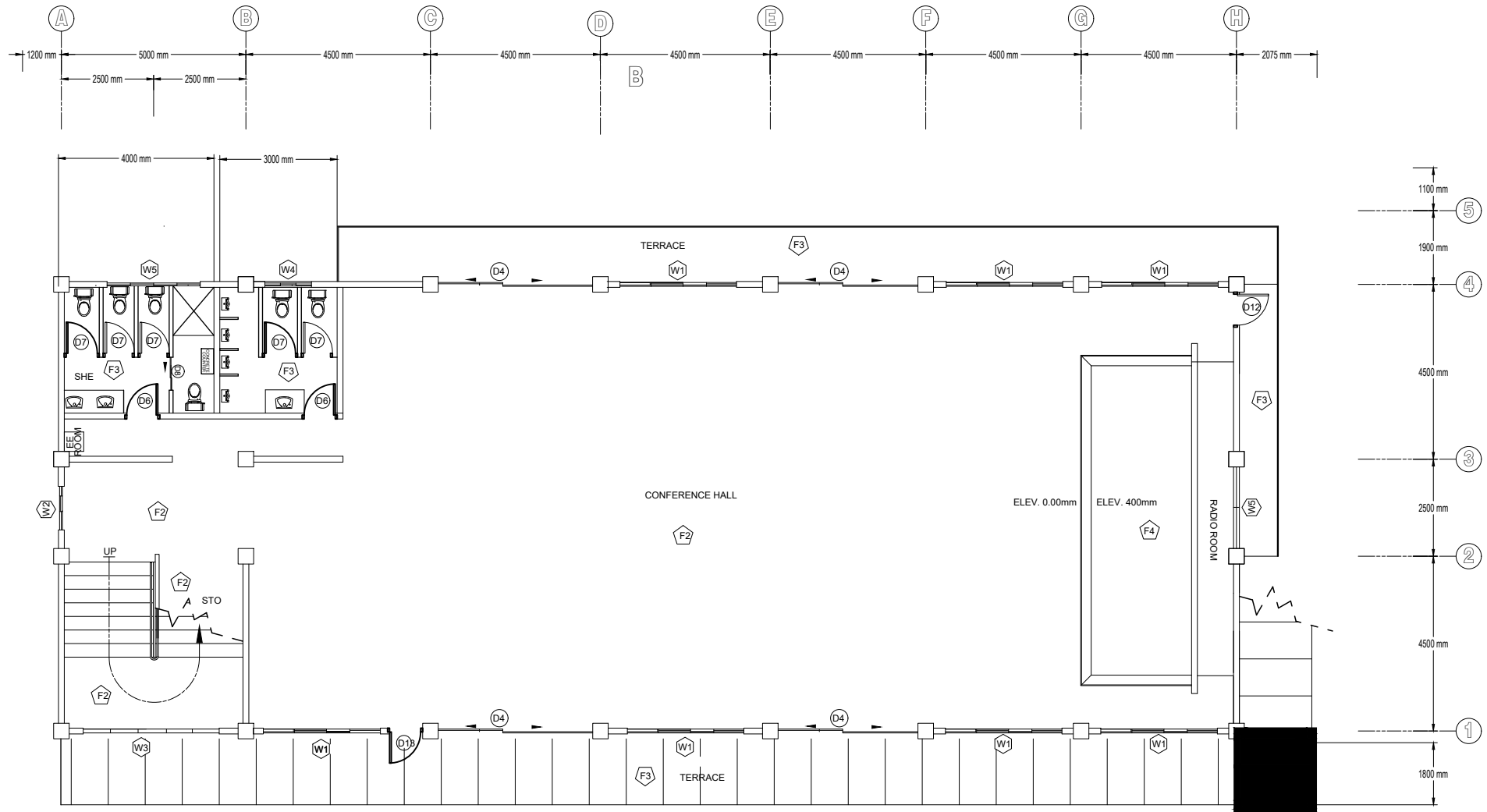
- F1 — GRANITE SLAB, 19mm THICK
- F2 — GRANITE TILES, 60X120 CM (POLISHED)
- F3 — GRANITE TILES 60 X 60CM (NON-SKID)
- F4 — WOOD GRAIN VINYL TILES

NOTE: TILE HEIGHT FOR COMFORT ROOMS AND BATH IS 3000mm

1
A
2
SECOND FLOOR PLAN

SCALE 1 : 100 M

|  |   |  |  |  |   |   |  |
|--|---|--|--|--|---|---|--|
| REPUBLIC OF THE PHILIPPINES<br><br>DEPARTMENT OF EDUCATION<br>EDUCATION FACILITIES SECTION<br>WANGAL, LA TRINIDAD, BENGUET | PREPARED BY:<br><div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black;"> <b>KEMERY G. RIZALDO</b><br/> <small>ENGINEER I</small> </div> | CHECKED BY:<br><div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black;"> <b>CHRISTOPHER B. HADSN</b><br/> <small>REGIONAL ENGINEER</small> </div> | RECOMMENDING APPROVAL:<br><div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black;"> <b>EDGAR H. MADLAING</b><br/> <small>CHIEF, ESSD</small> </div> | APPROVED BY:<br><div style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black;"> <b>ESTELA P. LEON-CARIÑO EdD, CESO III</b><br/> <small>REGIONAL DIRECTOR/DIRECTOR IV</small> </div> | PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING</b><br>LOCATION: <b>WANGAL, LA TRINIDAD, BENGUET</b> | OWNER:<br><b>DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE</b><br>SHEET CONTENT:<br><b>AS SHOWN</b> | SHEET NO.:<br><div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center; margin: 0 5px;">3</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center;">3</div> </div> |
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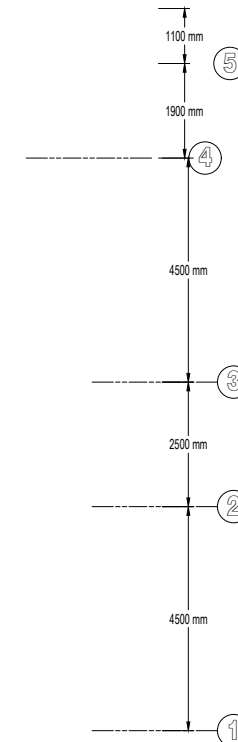
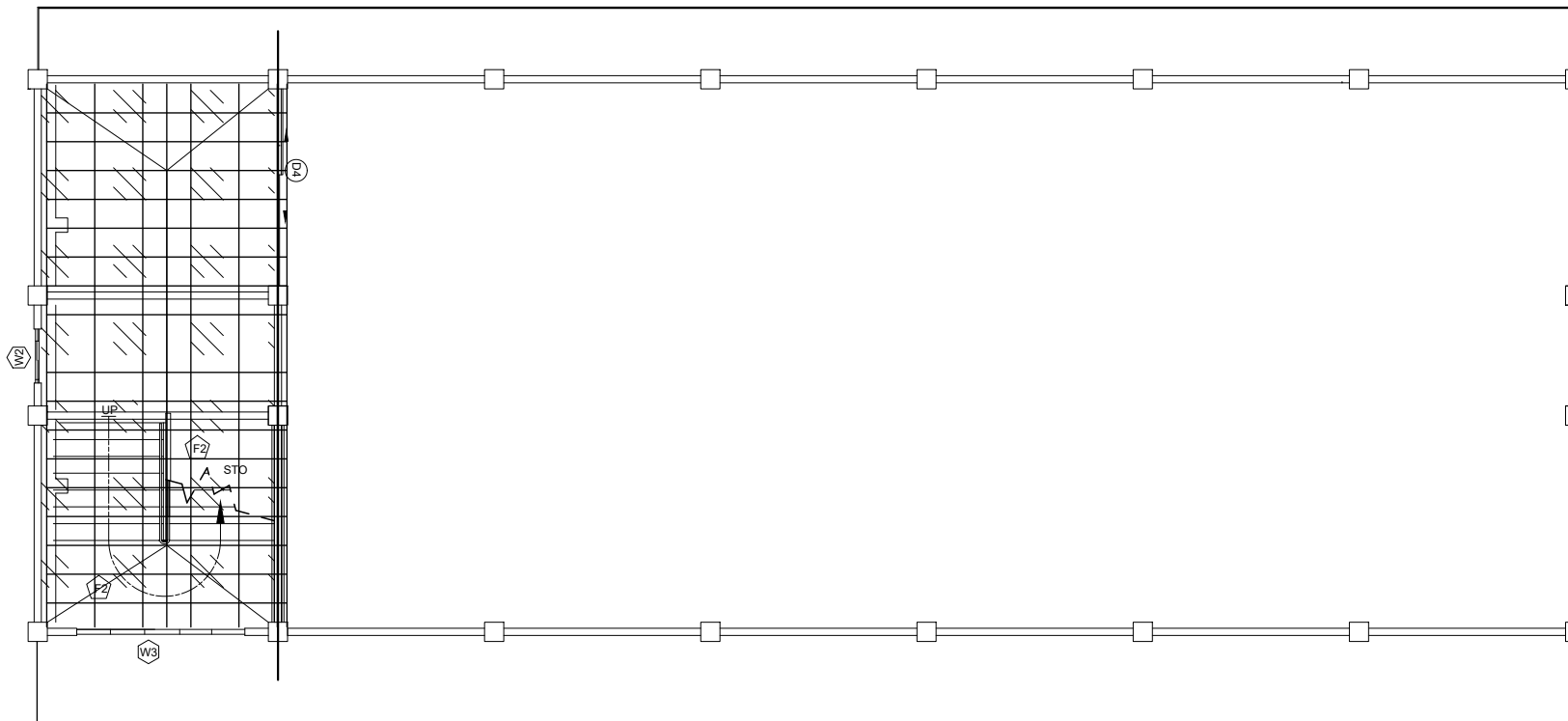
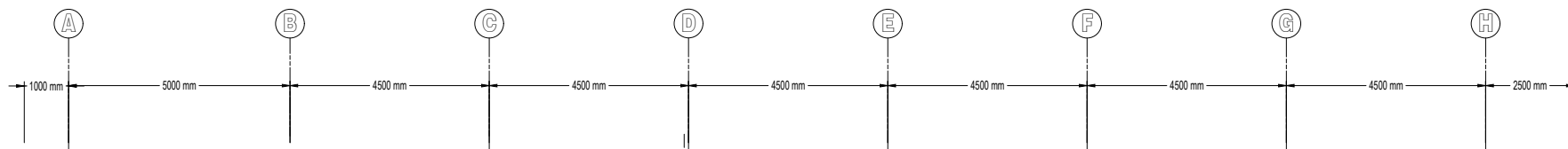


- F1 — GRANITE SLAB, 19mm THICK
- F2 — GRANITE TILES, 60X120 CM (POLISHED)
- F3 — GRANITE TILES 60 X 60CM (NON-SKID)
- F4 — WOOD GRAIN VINYL TILES

1
THIRD FLOOR PLAN  
A 3
SCALE
1 : 100 M

NOTE: TILE HEIGHT FOR COMFORT ROOMS AND BATH IS 3000mm

|   |   |  |  |  |  |   |  |
|---|---|--|--|--|--|---|--|
| REPUBLIC OF THE PHILIPPINES<br><b>DepED</b><br>DEPARTMENT OF EDUCATION<br><small>EDUCATION FACILITIES SECTION<br/>         WANGAL, LA TRINIDAD, BENGUET</small> | PREPARED BY:<br><u>KEMERY G. RIZALDO</u><br><small>ENGINEER I</small> | CHECKED BY:<br><u>CHRISTOPHER B. HADSN</u><br><small>REGIONAL ENGINEER</small> | RECOMMENDING APPROVAL:<br><u>EDGAR H. MADLAING</u><br><small>CHIEF, ESSD</small> | APPROVED BY:<br><u>ESTELA P. LEON-CARIÑO EdD, CESO III</u><br><small>REGIONAL DIRECTOR/DIRECTOR IV</small> | PROJECT TITLE:<br><b>PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING</b><br>LOCATION: WANGAL, LA TRINIDAD, BENGUET | OWNER:<br>DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE<br>SHEET CONTENT:<br>AS SHOWN | SHEET NO.:<br><span style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; text-align: center;">A 4</span><br><span style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block; text-align: center;">4</span> |
|---|---|--|--|--|--|---|--|



1  
A 5
**ROOF DECK PLAN**  
 SCALE 1 : 100 M



PREPARED BY:  
**KEMERY G. RIZALDO**  
 ENGINEER I

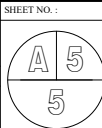
RECOMMENDING APPROVAL:  
**CHRISTOPHER B. HADSAN**  
 REGIONAL ENGINEER

RECOMMENDING APPROVAL:  
**EDGAR H. MADLAING**  
 CHIEF, ESSD

APPROVED BY:  
**ESTELA P. LEON-CARIÑO EdD, CESO III**  
 REGIONAL DIRECTOR/DIRECTOR IV

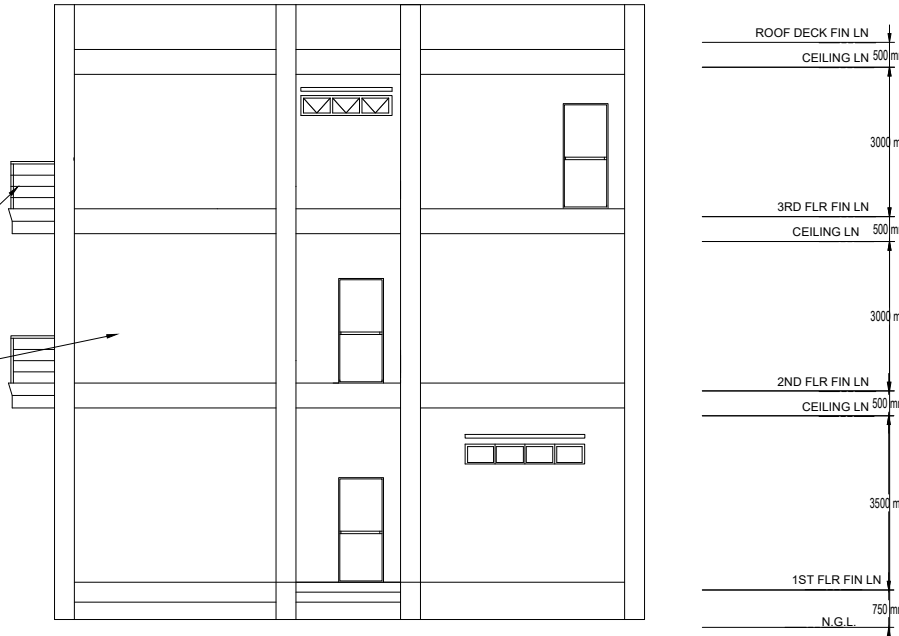
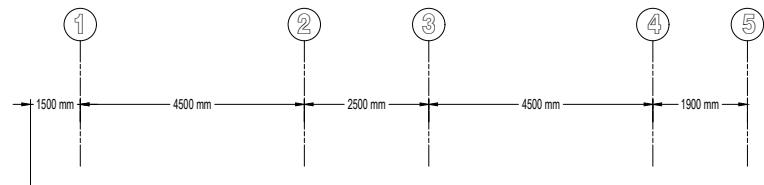
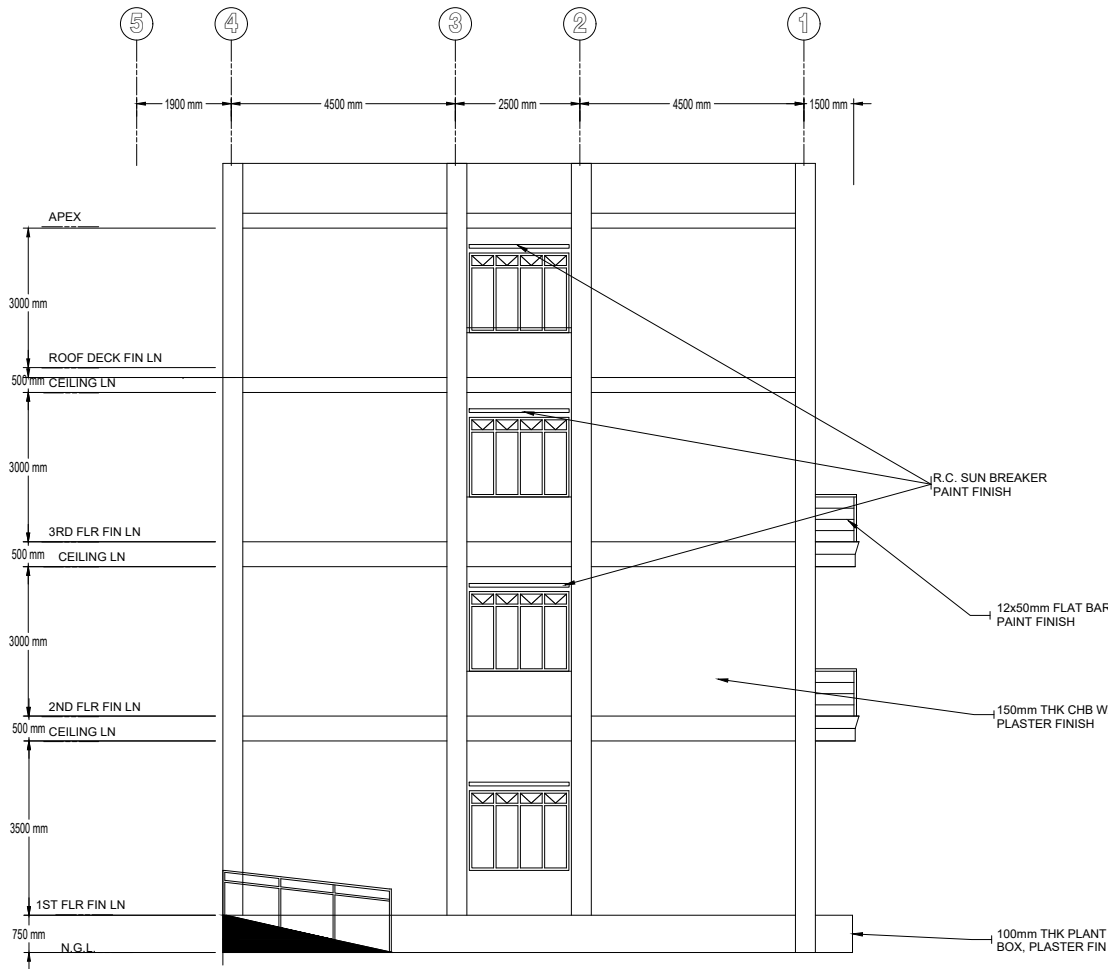
PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING**  
 LOCATION: **WANGAL, LA TRINIDAD, BENGUET**

OWNER:  
**DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE**  
 SHEET CONTENT:  
**AS SHOWN**





1  
A 6
**FRONT ELEVATION**  
 SCALE 1 : 100 M



**1**  
A 7  
**LEFT SIDE ELEVATION**  
SCALE 1 : 100 M

**1**  
A 7  
**RIGHT SIDE ELEVATION**  
SCALE 1 : 100 M



PREPARED BY:  
**KEMERY G. RIZALDO**  
ENGINEER I

CHECKED BY:  
**CHRISTOPHER B. HADSAN**  
REGIONAL ENGINEER

RECOMMENDING APPROVAL:  
**EDGAR H. MADLAING**  
CHIEF, ESSD

APPROVED BY:  
**ESTELA P. LEON-CARIÑO EdD, CESO III**  
REGIONAL DIRECTOR/DIRECTOR IV

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING**  
LOCATION: **WANGAL, LA TRINIDAD, BENGUET**

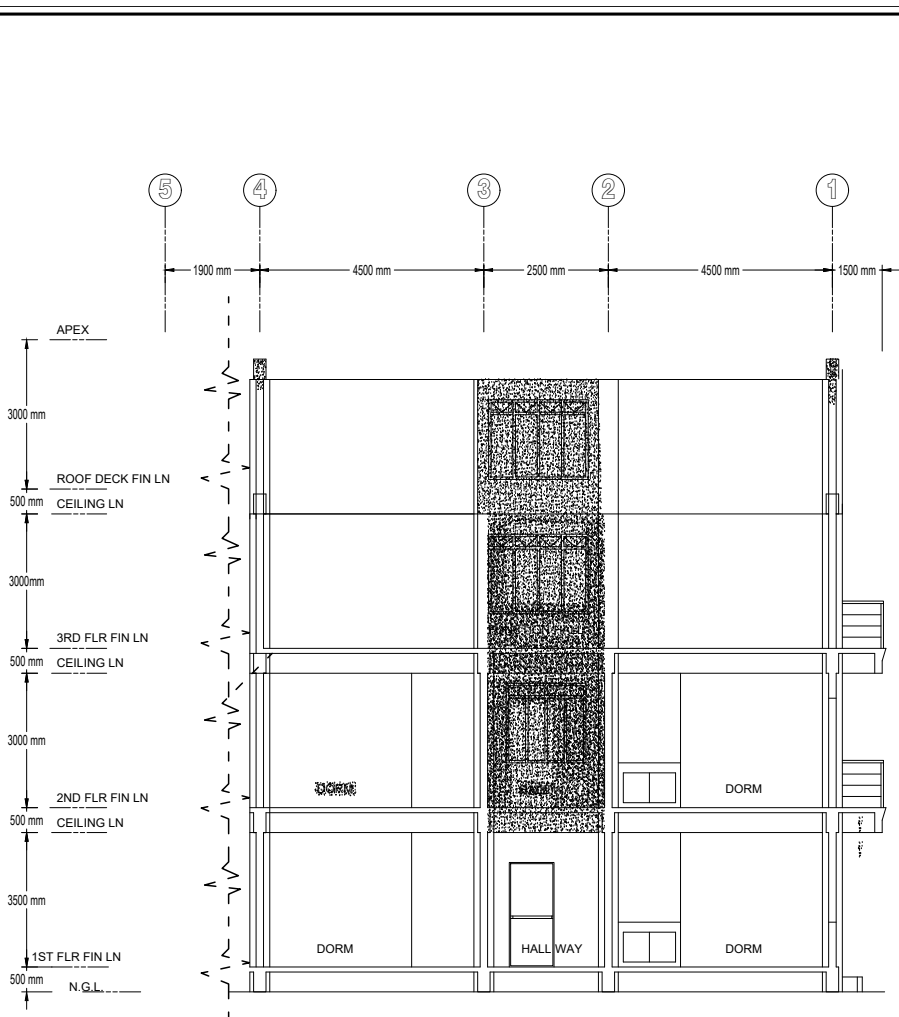
OWNER:  
**DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE**  
SHEET CONTENT:  
**AS SHOWN**

SHEET NO.:  
**A 7**  
**7**



1
REAR ELEVATION  
A 8
SCALE 1 : 100 M





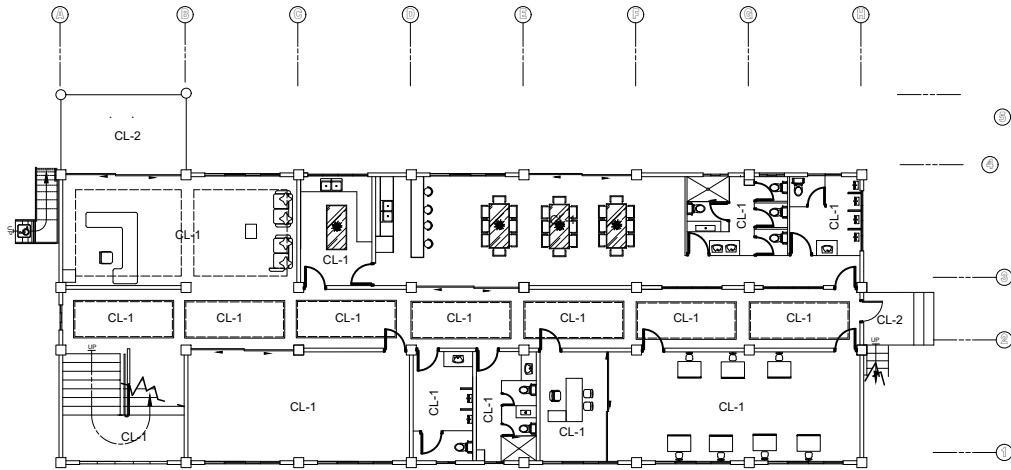
1
A 10
**TRANSVERSE SECTION**  
 SCALE 1 : 100 M

|  |   |  |  |
|--|---|--|--|
| <br><b>D1</b>  | <br><b>D2</b>   | <br><b>D3</b>  | <br><b>D4</b>  |
| FRAMELESS MOTORIZED SLIDING GLASS DOOR WITH MOTION DETECTOR INSIDE AND OUT COMPLETE WITH HARDWARE AND ACCESSORIES                        | 6MM THICK REFLECTIVE GLASS ON ANALOK FRAME DOOR COMPLETE WITH ACCESSORIES AND LOCKSET                         | 6MM THICK REFLECTIVE GLASS ON ANALOK FRAME DOOR COMPLETE WITH ACCESSORIES AND LOCKSET  | 6MM THICK REFLECTIVE GLASS ON ANALOK FRAME DOOR COMPLETE WITH ACCESSORIES AND LOCKSET  |
| <br><b>D5</b>  | <br><b>D6</b>   | <br><b>D7</b>  | <br><b>D8</b>  |
| 6MM THICK REFLECTIVE GLASS (OUTSIDE, TINTED(INSIDE) ON ANALOK FRAME DOOR WITH SCREEN DOOR COMPLETE WITH ACCESSORIES AND LOCKSET          | PANEL DOOR ON 150MM WOODEN JAMB COMPLETE WITH ACCESSORIES AND LOCKSET   | FLUSH DOOR ON 150MM WOODEN JAMB COMPLETE WITH ACCESSORIES AND LOCKSET  | 6MM THICK SMOKED TINTED GLASS ON ANALOK FRAME DOOR COMPLETE WITH LOCKSET AND ACCESSORIES   |
| <br><b>D9</b>  | <br><b>D10</b>  | <br><b>W1</b>  |  |
| 6MM THICK SMOKED TINTED GLASS ON ANALOK FRAME DOOR COMPLETE WITH LOCKSET AND ACCESSORIES   | SOLID WOODEN SLIDING DOOR COMPLETE WITH ACCESSORIES AND LOCKSET   | 6MM THICK BRONZE GLASS SLIDING WINDOW TYPE WITH TRANSOM, ON ANALOK WINDOW FRAME COMPLETE WITH WINDOW SCREEN, ACCESSORIES AND LOCKSET |  |
| <br><b>D11</b>   | <br><b>D12</b>  | <br><b>D13</b>   | <br><b>W2</b>  |
| DOUBLE SWING WOODEN SALOON DOOR  | FIRE RATED STEEL DOOR WITH PANIC BAR AND ACCESSORIES  | PWD WOODEN PANEL DOOR WITH GRAB BAR IN AND OUT COMPLETE WITH ACCESSORIES AND LOCKSET   | 6MM THICK BRONZE GLASS SLIDING WINDOW TYPE WITH TRANSOM ON ANALOK WINDOW FRAME, COMPLETE WITH WINDOW SCREEN, ACCESSORIES AND LOCKSET |
| <br><b>W3</b>  | <br><b>W4</b>   | <br><b>W5</b>  | <br><b>W6</b>  |
| 6MM THICK BRONZE GLASS FRENCH WINDOW TYPE WITH AWNING TRANSOM ON CENTER, ON ANALOK ALUMINUM FRAME COMPLETE WITH ACCESSORIES AND HARDWARE | 6MM THICK REFLECTIVE GLASS AWNING WINDOW TYPE ON ANALOK ALUMINUM FRAME COMPLETE WITH ACCESSORIES AND HARDWARE | 6MM THICK REFLECTIVE GLASS AWNING WINDOW TYPE ON ANALOK ALUMINUM FRAME COMPLETE WITH ACCESSORIES AND HARDWARE                        | 6MM THICK REFLECTIVE GLASS AWNING WINDOW TYPE ON ANALOK ALUMINUM FRAME COMPLETE WITH ACCESSORIES AND HARDWARE                        |
| <br><b>W7</b>  | <br><b>W8</b>   |  |  |
| + 100x200x200 Glass Blocks   | + 100x200x200 Glass Blocks  |  |  |

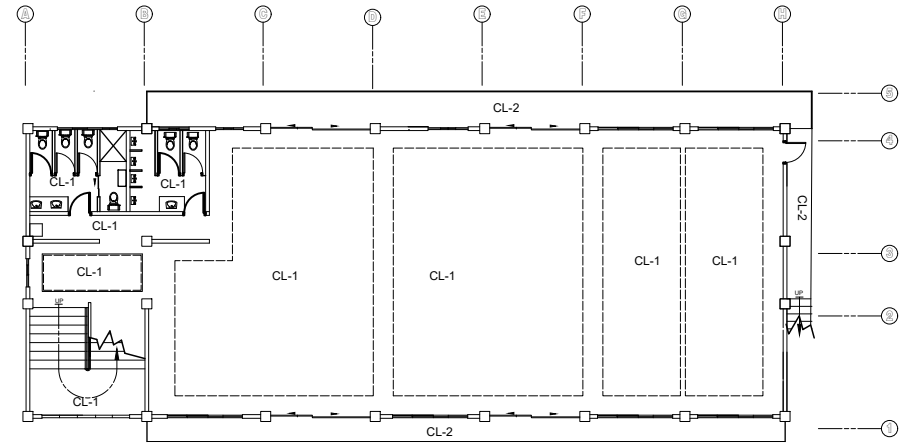
2
A 10
**DOORS AND WINDOWS SCHEDULE**  
 SCALE 1 : 100 M

|  |  |   |   |   |   |   |   |
|--|--|---|---|---|---|---|---|
| <br><b>DEPARTMENT OF EDUCATION</b><br><small>EDUCATION FACILITIES SECTION<br/>WANGAL, LA TRINIDAD, BENGUET</small> | PREPARED BY :<br><u>KEMERY G. RIZALDO</u><br><small>ENGINEER I</small> | CHECKED BY :<br><u>CHRISTOPHER B. HADSN</u><br><small>REGIONAL ENGINEER</small> | RECOMMENDING APPROVAL :<br><u>EDGAR H. MADLAING</u><br><small>CHIEF, ESSD</small> | APPROVED BY :<br><u>ESTELA P. LEON-CARIÑO EdD, CESO III</u><br><small>REGIONAL DIRECTOR/DIRECTOR IV</small> | PROJECT TITLE :<br><b>PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING</b><br><small>LOCATION : WANGAL, LA TRINIDAD, BENGUET</small> | OWNER :<br><b>DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE</b><br><small>SHEET CONTENT :</small><br>AS SHOWN | SHEET NO. :<br><span style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;">A 10</span> |
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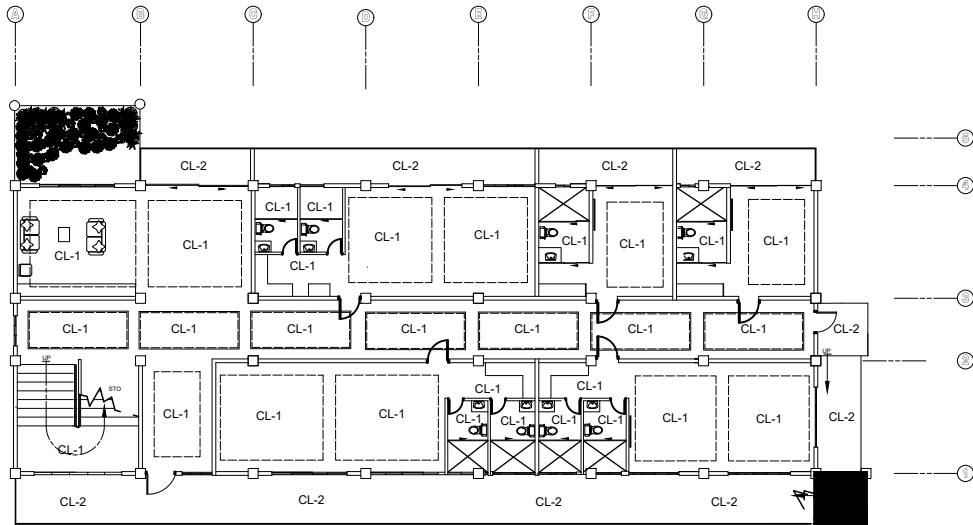




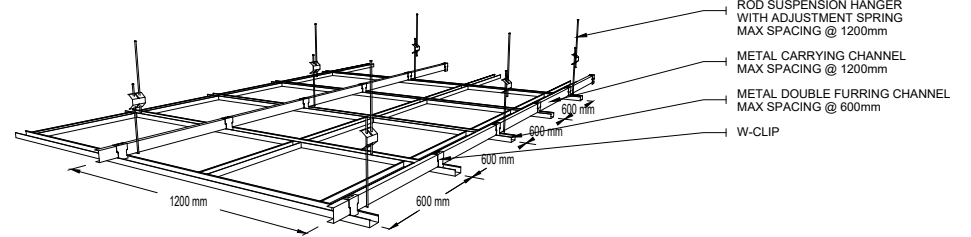
**1**  
A 11  
**FIRST FLOOR REFLECTIVE CEILING PLAN**  
SCALE 1 : 200 M



**3**  
A 11  
**THIRD FLOOR REFLECTIVE CEILING PLAN**  
SCALE 1 : 200 M

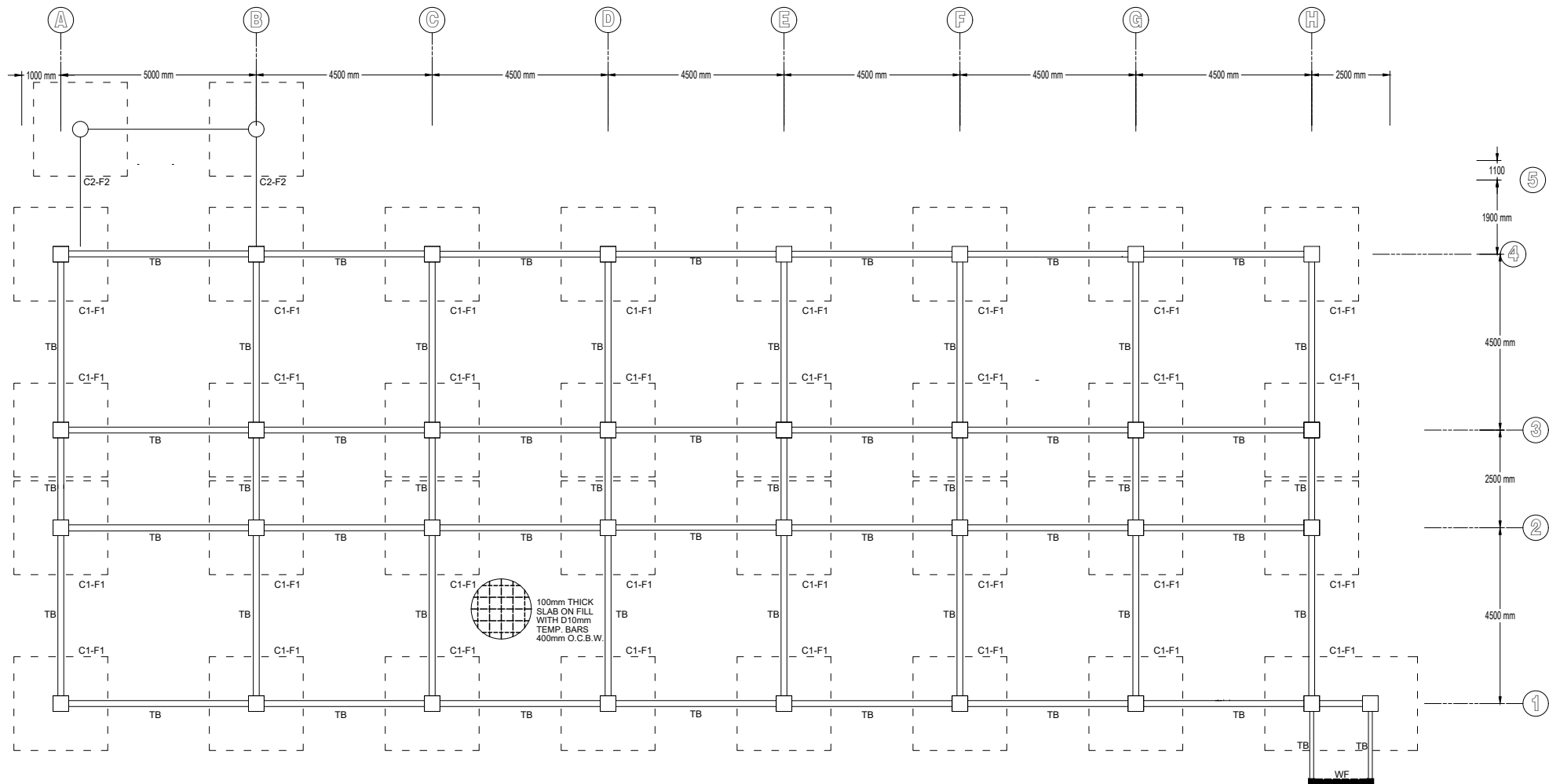


**2**  
A 11  
**SECOND FLOOR REFLECTIVE CEILING PLAN**  
SCALE 1 : 200 M

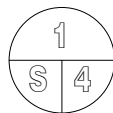
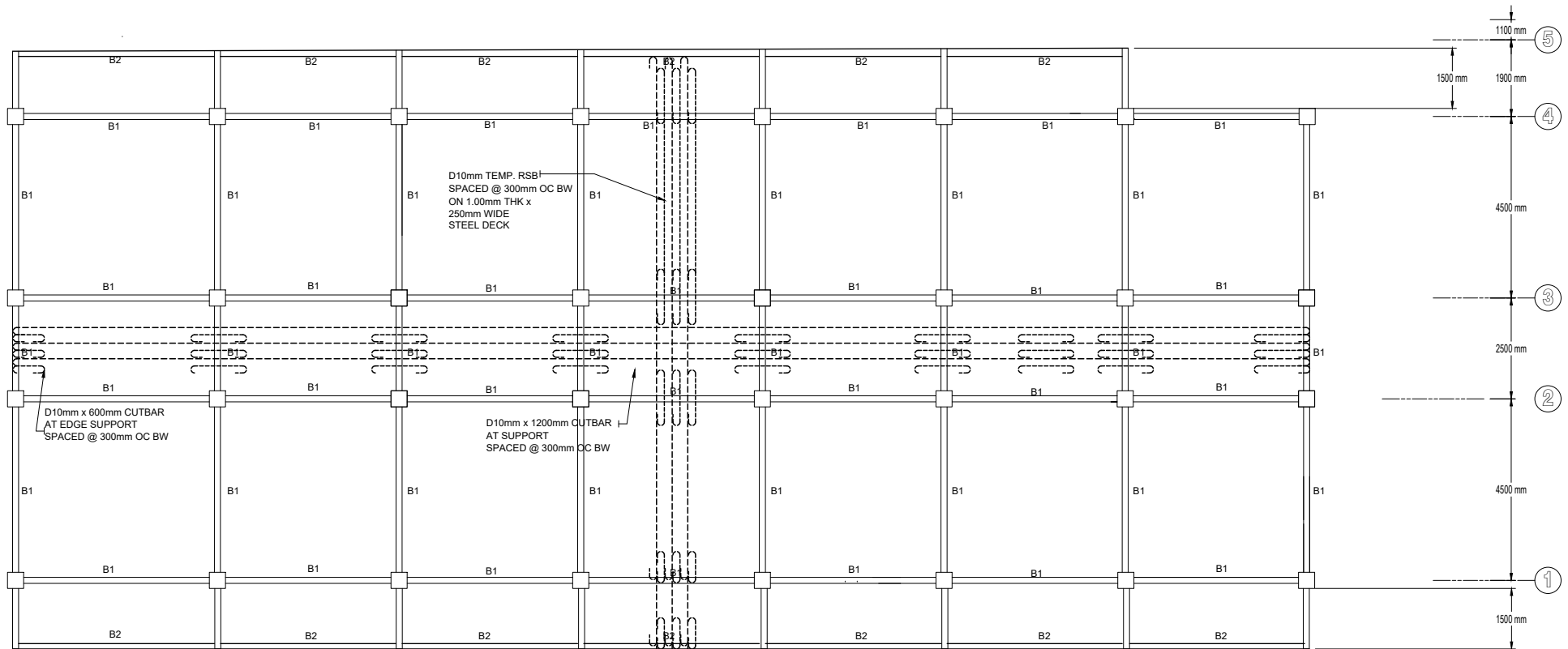
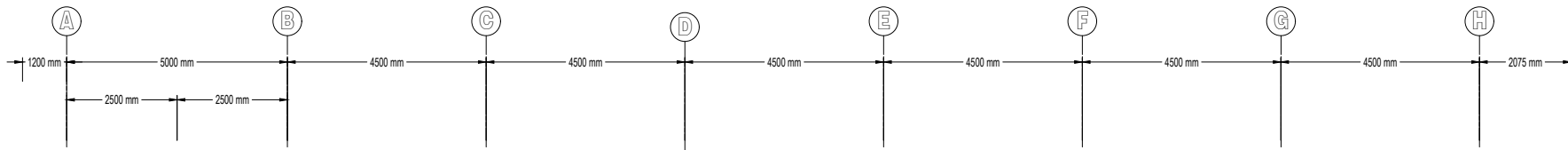


**4**  
A 11  
**TYPICAL CEILING FRAMING PLAN**  
DRAWN NTS

| SCHEDULE OF CEILING FINISHES |  |                 |  |
|------------------------------|--|-----------------|--|
| MARK                         | DESCRIPTION  | CEILING HT (mm) | REMARK   |
| CL-1                         | 250X3028mm WOODGRAINED PVC CEILING PANEL COMPLETE WITH TRIMS AND ACCESSORIES | 2700            | USE METAL DOUBLE FURRING CHANNEL, 0.50mmTHK x 19 x 50 x 5000mm SPACED AT 600mm O.C. B.W. WITH METAL CARRYING CHANNELS, 0.80mmTHK x 12 x 38 x 5000mm SPACED AT 1200mm O.C. WITH ROD JOINER (HANGER/SUPPORT) AT 1200mm O.C. SHORTER SPAN |
| CL-2                         | 0.40mm THK WOODGRAIN SPANDREL PANEL COMPLETE WITH TRIMS AND ACCESSORIES      | 2600            |  |



**1**  
S 3  
**FOUNDATION PLAN**  
SCALE 1 : 100 M

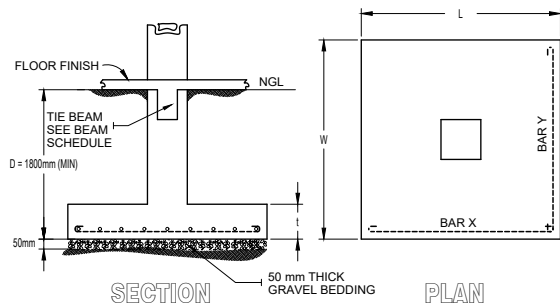


**TYPICAL SECOND FLOOR, THIRD FLOOR AND ROOF DECK PLAN**

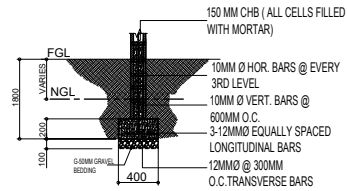
SCALE

1 : 100 M

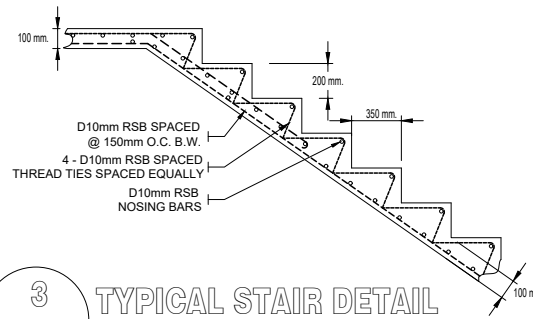
|  |                                 |  |                                  |  |   |   |            |
|--|---------------------------------|--|----------------------------------|--|---|---|------------|
| REPUBLIC OF THE PHILIPPINES<br><b>DepED</b><br>DEPARTMENT OF EDUCATION<br>EDUCATION FACILITIES SECTION<br>WANGAL, LA TRINIDAD, BENGUET | PREPARED BY:                    | CHECKED BY:                                | RECOMMENDING APPROVAL:           | APPROVED BY:   | PROJECT TITLE:  | OWNER:  | SHEET NO.: |
|  | KEMERY G. RIZALDO<br>ENGINEER I | CHRISTOPHER B. HADSAN<br>REGIONAL ENGINEER | EDGAR H. MADLAING<br>CHIEF, ESSD | ESTELA P. LEON-CARIÑO EdD, CESO III<br>REGIONAL DIRECTOR/DIRECTOR IV | PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING | DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE |            |
|  |                                 |  |                                  |  | LOCATION: WANGAL, LA TRINIDAD, BENGUET  | SHEET CONTENT:                                |            |



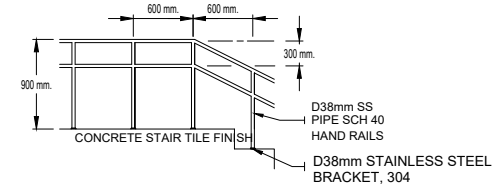
**1 FOOTING DETAIL**  
SCALE 1 : 50 M



**2 TYPICAL WALL FOOTING DETAIL**  
SCALE

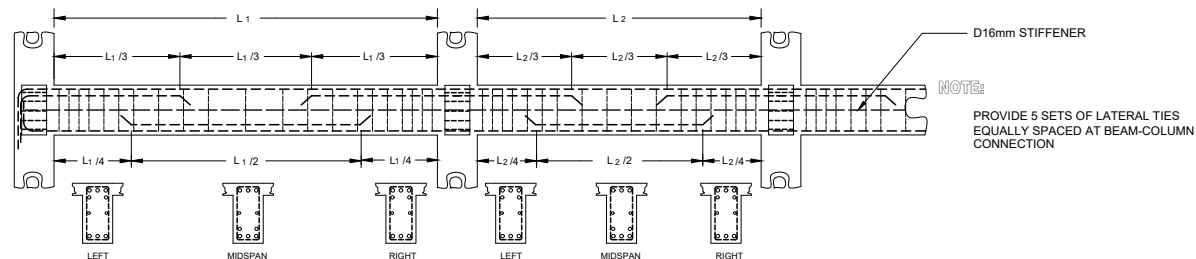


**3 TYPICAL STAIR DETAIL**  
SCALE 1 : 25 M



**4 TYP. ENTRANCE AND EXIT RAILING DETAIL**  
SCALE 1 : 50 M

| COLUMN SCHEDULE  |   |
|--|---|
| C-1  | C-2   |
| <p>MAIN BAR:<br/>16 D20mm</p> <p>TIES:<br/>3@50, 5@75, 5@100,<br/>REST @ 150mm TO CENTER</p> | <p>MAIN BAR:<br/>8 D20mm</p> <p>TIES:<br/>3@50, 5@75, 5@100,<br/>REST @ 150mm TO CENTER</p> |

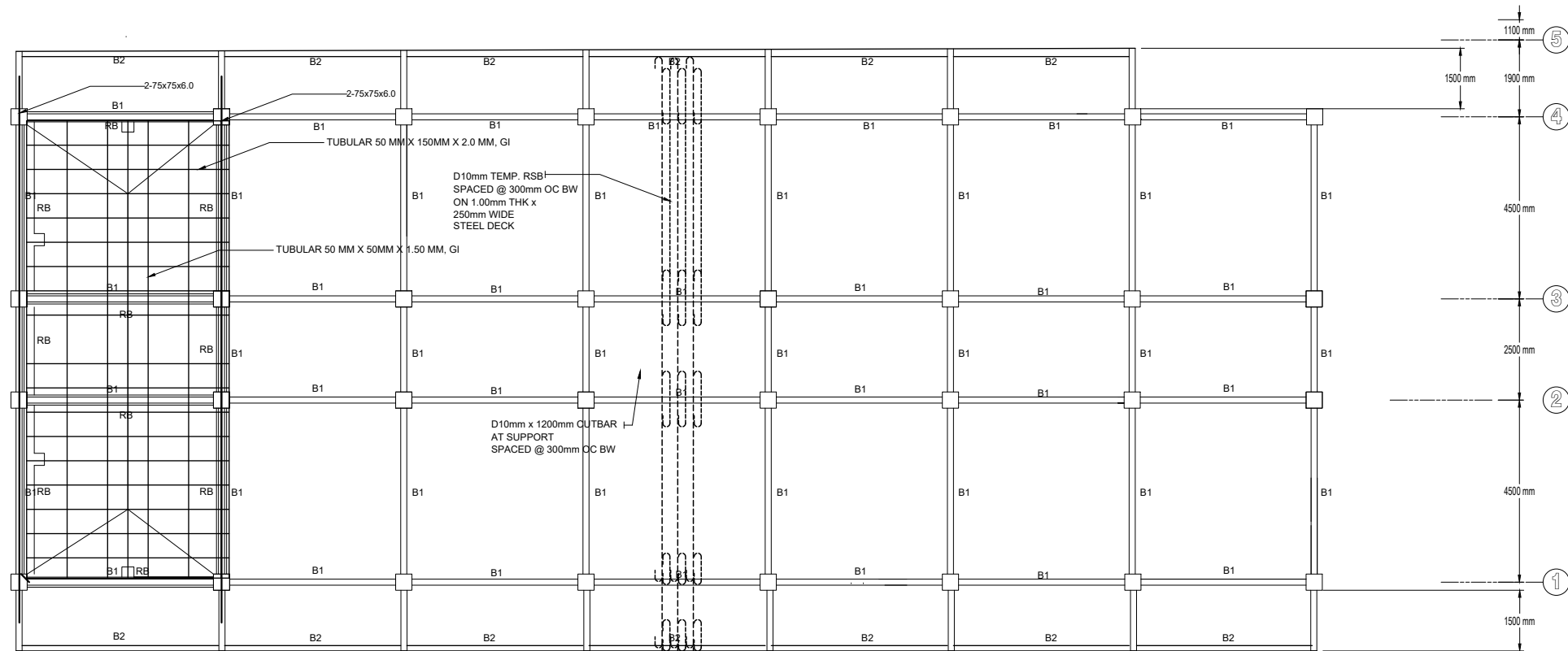
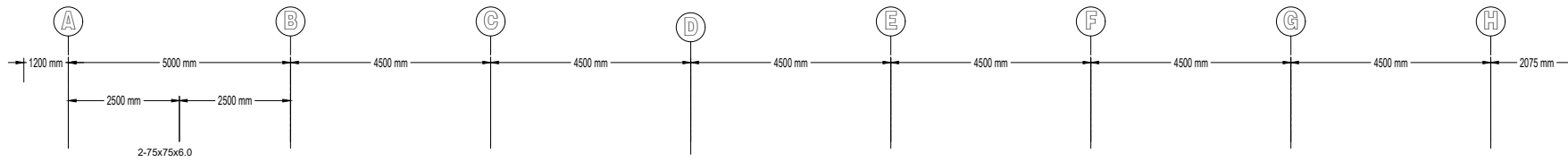


**5 TYPICAL BEAM DETAIL**  
SCALE 1 : 25 M

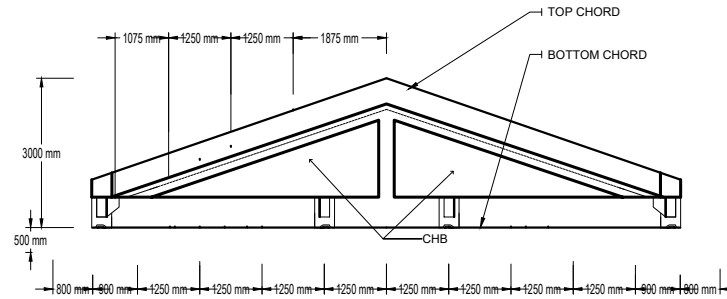
| FOOTING SCHEDULE |                         |           |               |           |                                  |                                  |                  |
|------------------|-------------------------|-----------|---------------|-----------|----------------------------------|----------------------------------|------------------|
| FOOTING MARK     | FOOTING DIMENSIONS (mm) |           |               |           | REINFORCEMENT                    |                                  | REMARKS          |
|                  | LENGTH (L)              | WIDTH (W) | thickness (t) | DEPTH (D) | BAR X                            | BAR Y                            |                  |
| F-1              | 2400                    | 2400      | 400           | 1800      | 12-D20mm                         | 12-D20mm                         | SQUARE FOOTING   |
| F-2              | 2400                    | 2400      | 400           | 1800      | TOP 12 - D16mm<br>BOT 12 - D16mm | TOP 18 - D16mm<br>BOT 18 - D16mm | COMBINED FOOTING |

| BEAM SCHEDULE |                 |              |                     |          |            |             |               |           |  |   |
|---------------|-----------------|--------------|---------------------|----------|------------|-------------|---------------|-----------|--|---|
| BEAM MARK     | BEAM DIMENSIONS |              | STEEL REINFORCEMENT |          |            |             |               |           | STIRRUPS<br>D10 mm<br>(UNLESS NOTED OTHERWISE) |   |
|               | WIDTH (b,mm)    | DEPTH (h,mm) | REBAR DIAMETER (mm) | LEFT TOP | LEFT BOTT. | MIDSPAN TOP | MIDSPAN BOTT. | RIGHT TOP |  | RIGHT BOTT.                               |
| B1            | 250             | 500          | 20                  | 5        | 3          | 3           | 5             | 5         | 3  | 4@50, 4@75, 4@100<br>& REST 150 TO CENTER |
| RB            | 250             | 450          | 20                  | 5        | 3          | 3           | 5             | 5         | 3  |   |
| B2            | 250             | 500          | 20                  | 5        | 3          | 5           | 3             | 5         | 3  |   |
| TB            | 200             | 400          | 16                  | 5        | 5          | 5           | 5             | 5         | 5  |   |

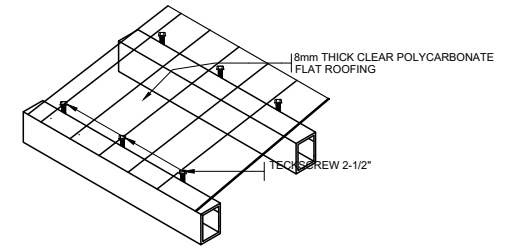
NOTE: D16mm RSB STIFFENER SHALL BE PROVIDED IN ALL BEAMS



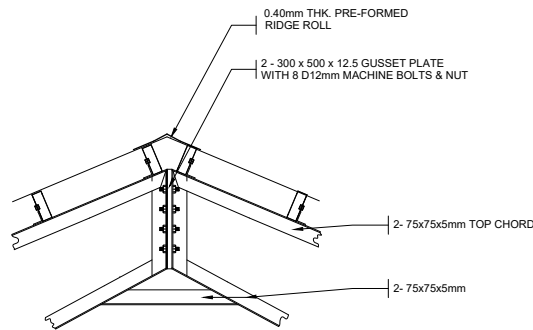
1
ROOF FRAMING PLAN  
S 5
SCALE
1 : 100 M



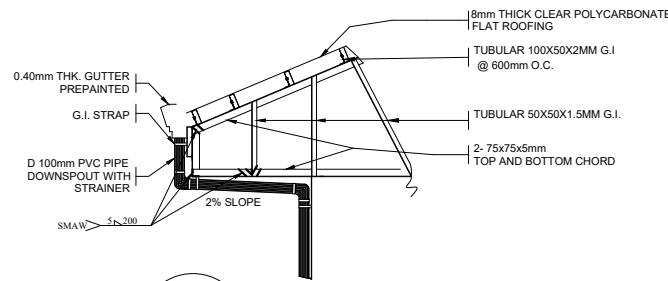
**1 TRUSS DETAIL**  
SCALE 1 : 100 M



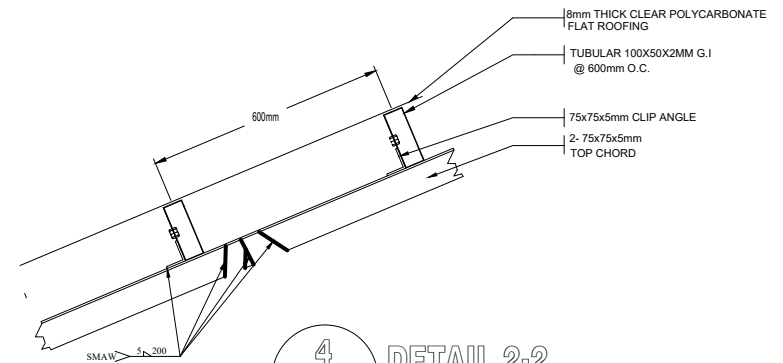
ISOMETRIC VIEW OF CONNECTION OF ROOFING TO TUBULAR



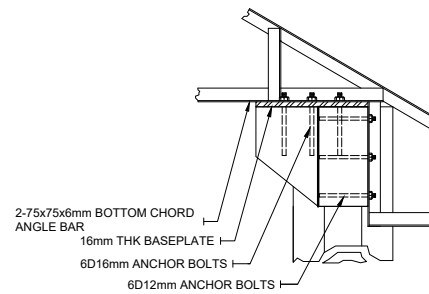
**2 DETAIL 1**  
SCALE 1 : 25 M



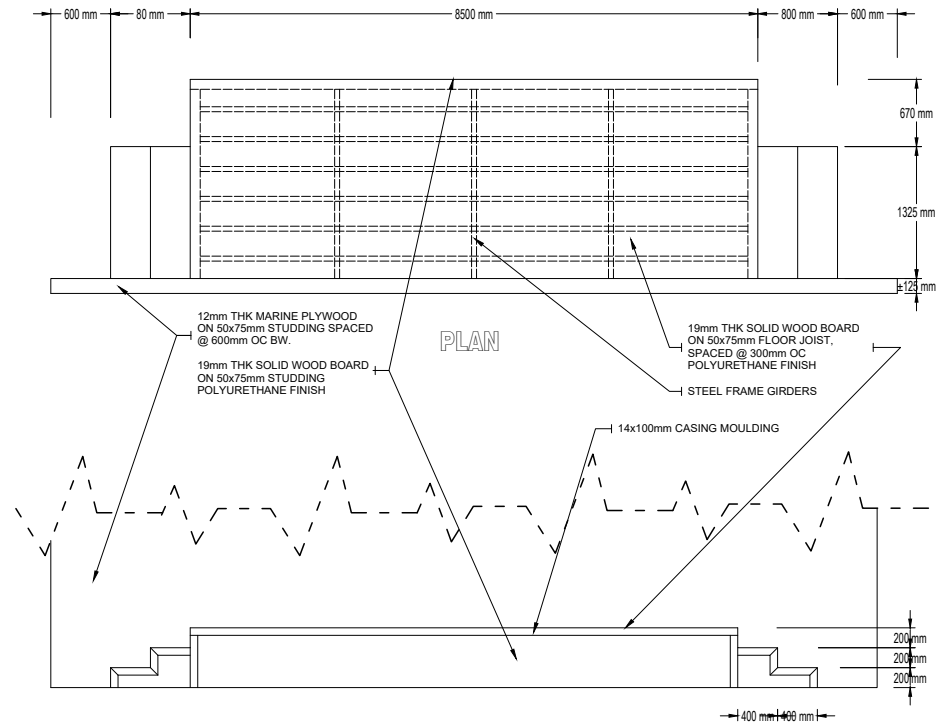
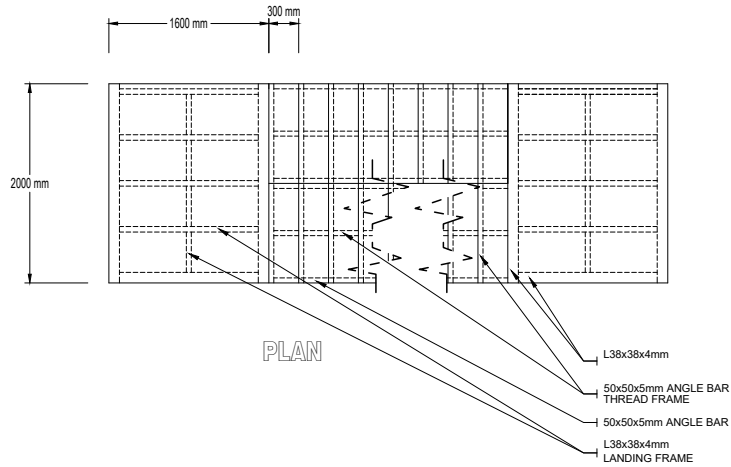
**3 DETAIL 2-2**  
SCALE 1 : 25 M



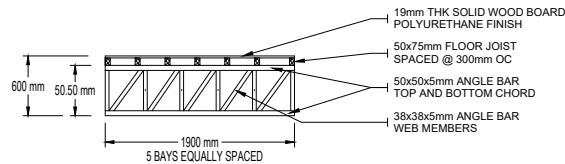
**4 DETAIL 2-2**  
SCALE 1 : 25 M



**5 TYPICAL BEAM-TRUSS CONNECTION DETAIL**  
SCALE 1:20 M

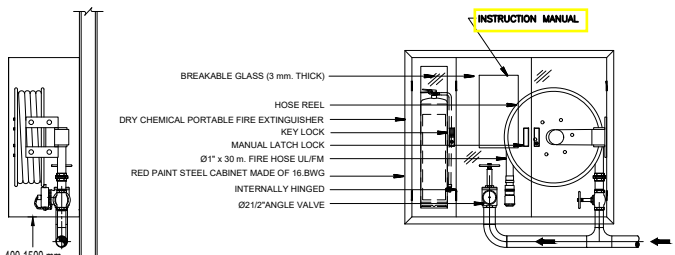


**ELEVATION**

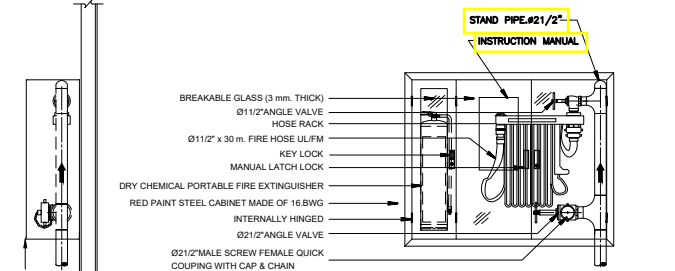


**STEEL FRAMING DETAIL**

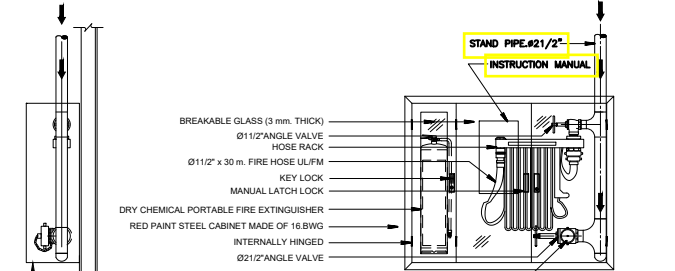




1 FIRE HOSE CABINET SURFACE MOUNTED DETAIL  
SCALE: 1:50 NTS

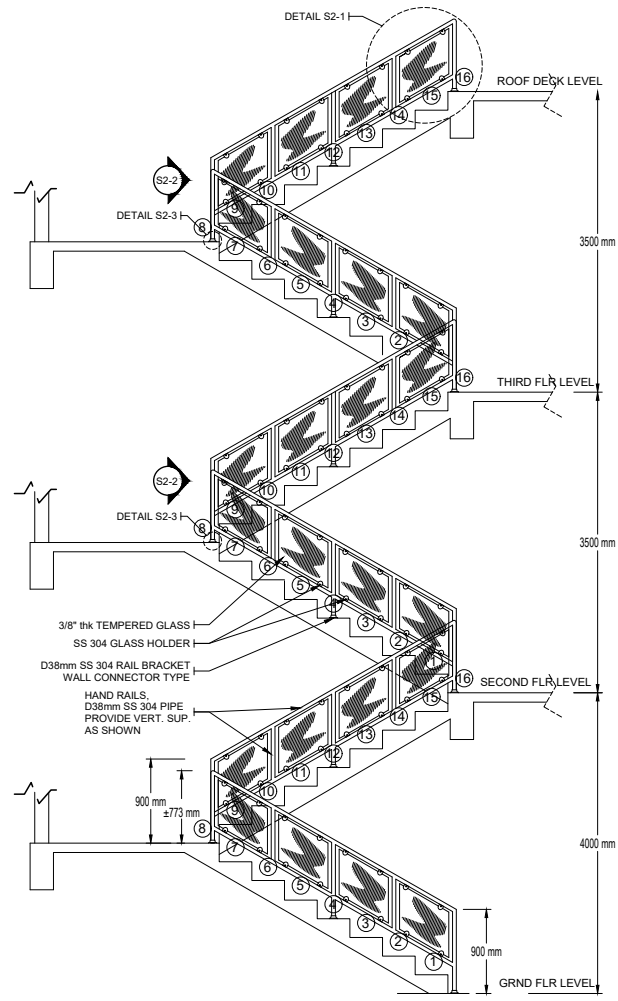


2 STAIR DETAIL  
SCALE: 1:50 M

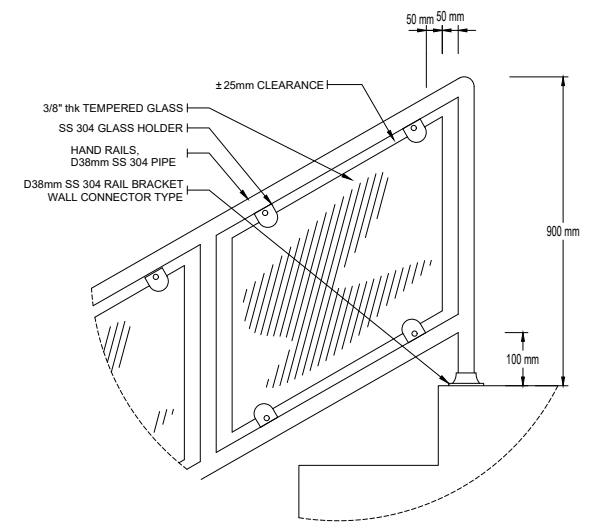


3 DETAIL S2-1  
SCALE: 1:25 M

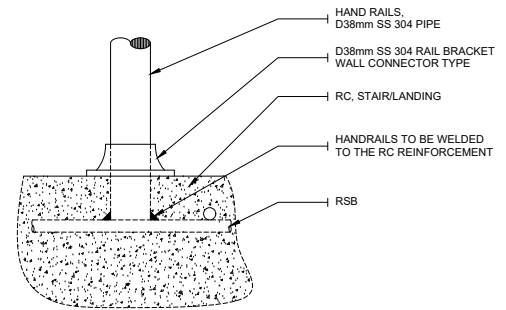
NOTE: CABINET DIMENSIONS ±900mm x 1100mm WITH DEPTH RANGING TO ±200mm x 300mm OR SHALL IN ACCORDANCE TO THE BFP REQUIREMENT



2 STAIR DETAIL  
SCALE: 1:50 M

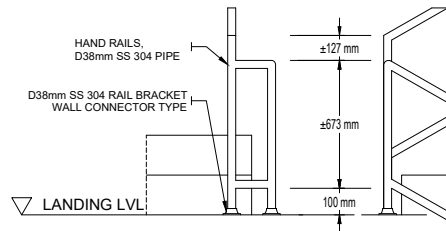


3 DETAIL S2-1  
SCALE: 1:25 M

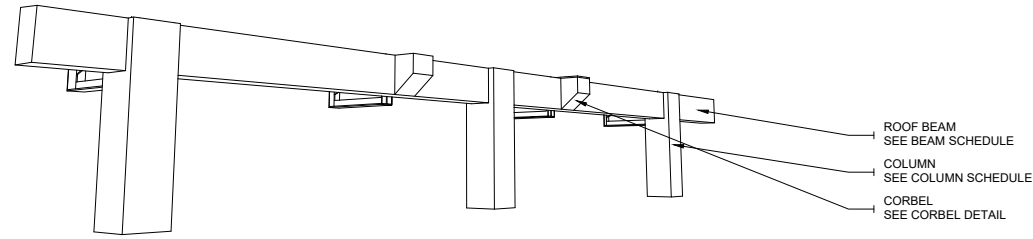


3 DETAIL S2-3  
SCALE: 1:10 M

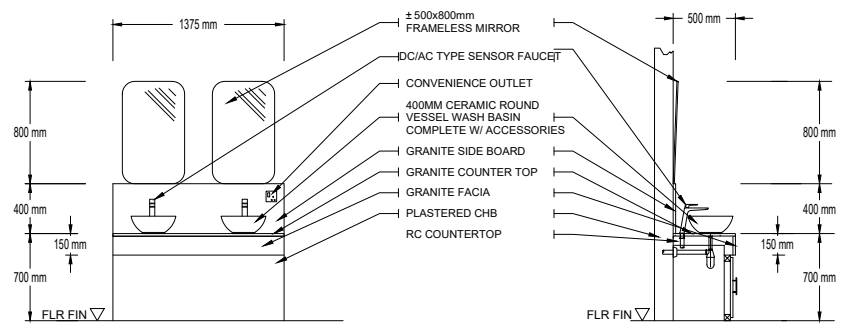




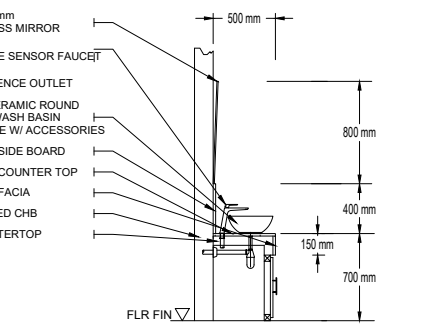
**4**  
S 9  
**DETAIL S2-2**  
SCALE 1:25 M



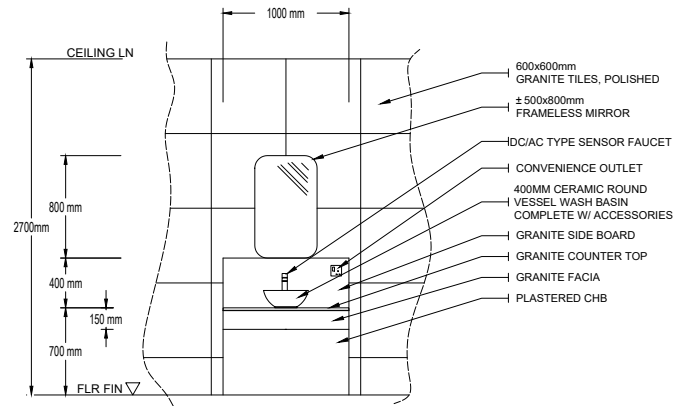
**4**  
S 10  
**CONNECTION DETAIL**  
DRAWN NTS



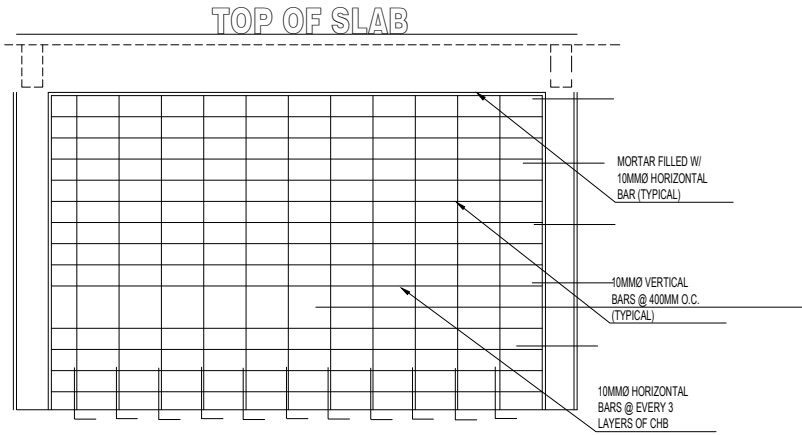
**1**  
S 10  
**LAVATORY 1 DETAIL**  
SCALE 1:25 M



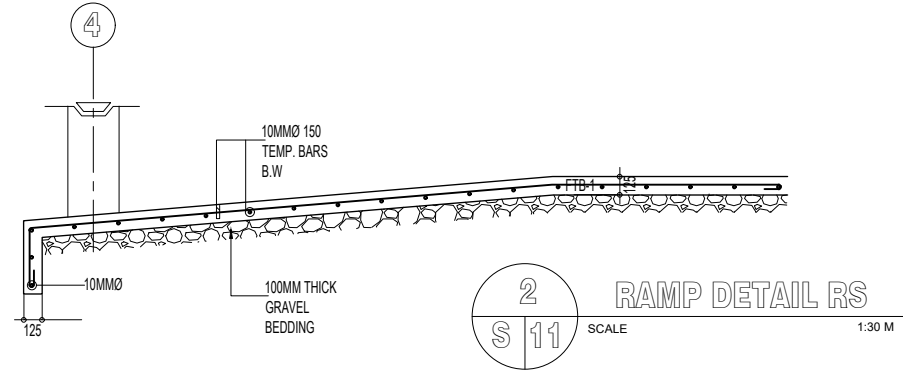
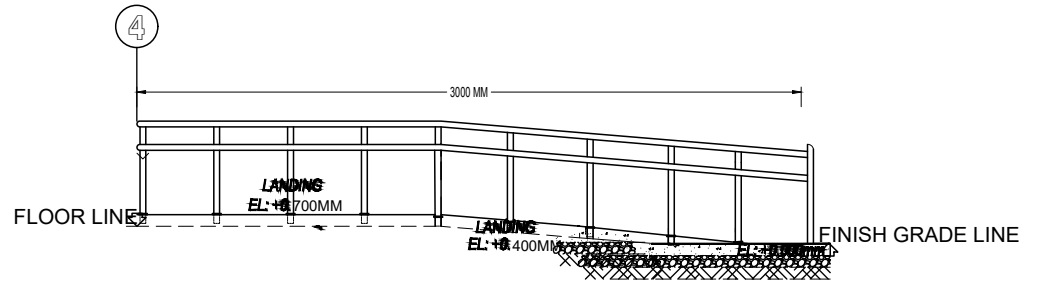
**3**  
S 10  
**TYPICAL LAVATORY SECTION**  
SCALE 1:25 M



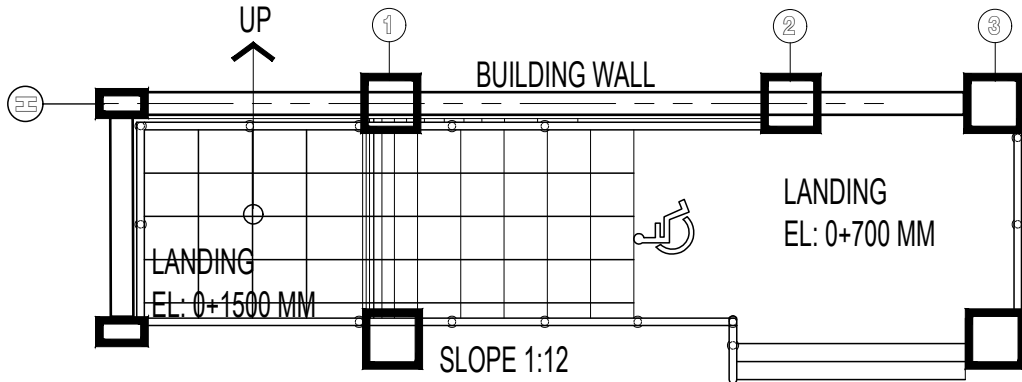
**2**  
S 10  
**LAVATORY 2 DETAIL**  
SCALE 1:25 M



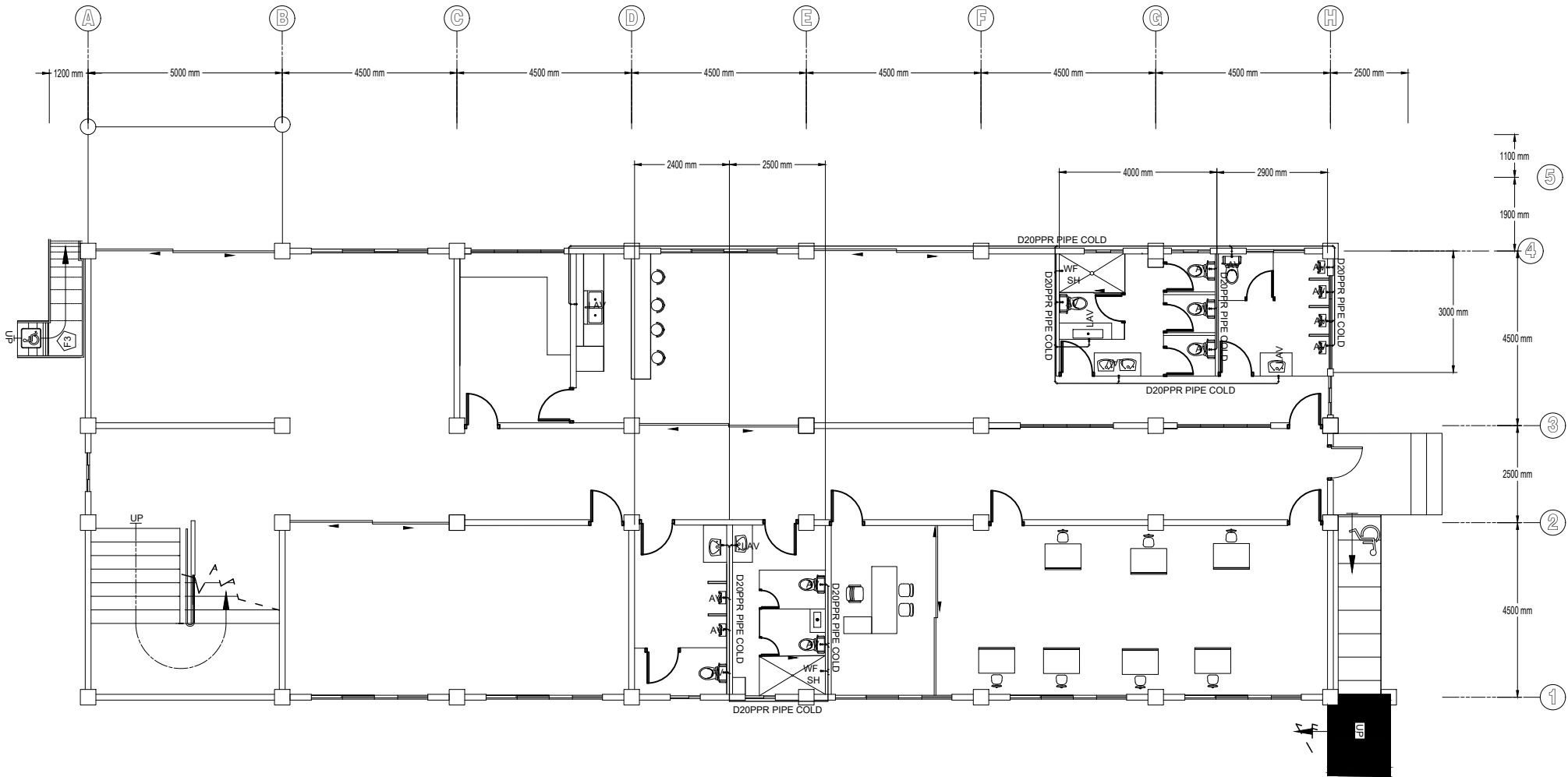
**1** TYPICAL MASONRY ELEVATION  
S 11 DRAWN



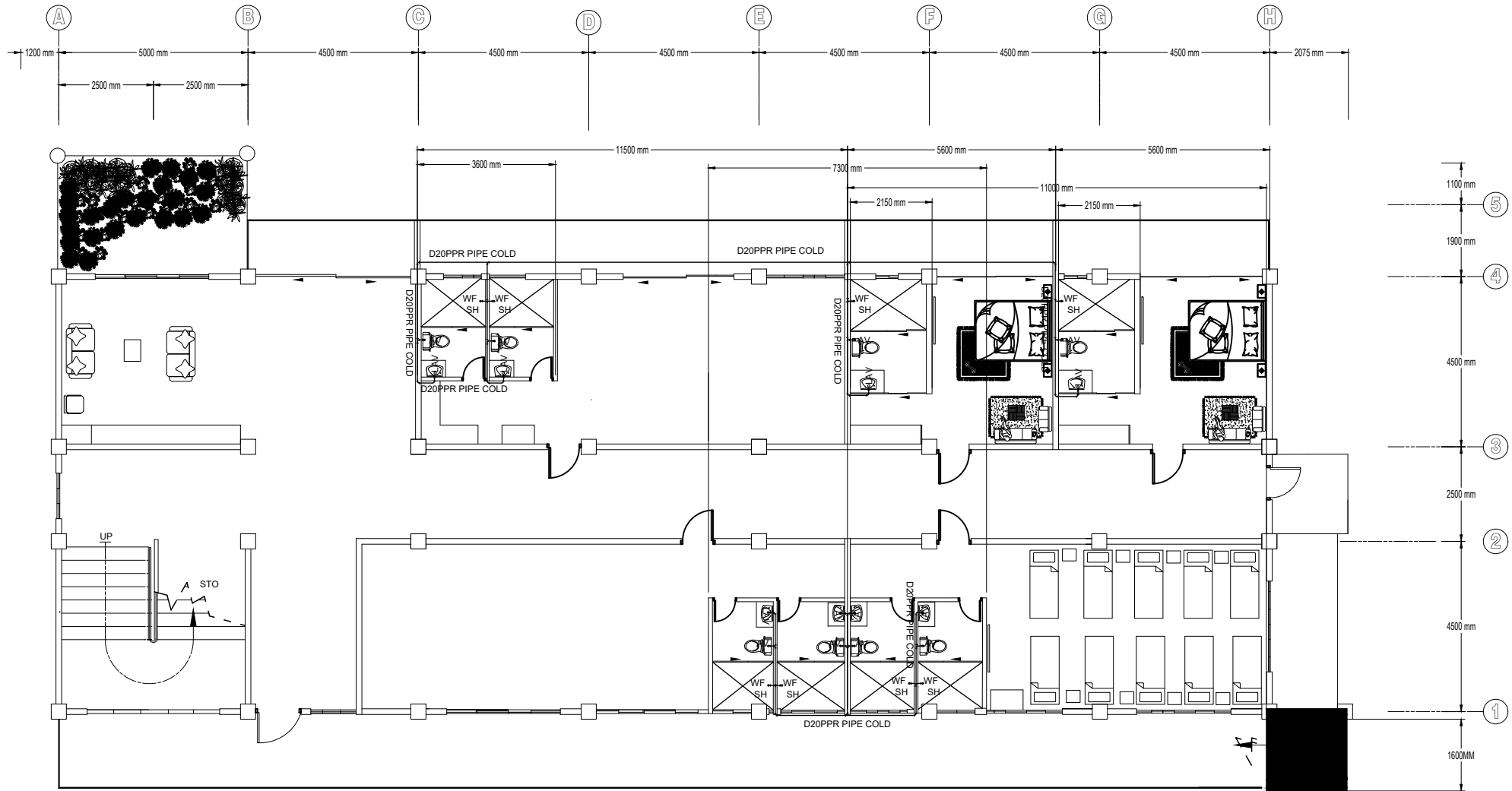
**2** RAMP DETAIL RS  
S 11 SCALE 1:30 M



**2** RAMP PLAN DETAIL LEFT SIDE AND REAR AREA  
S 11 SCALE



1  
P 1
**FIRST FLOOR PLUMBING LAYOUT**  
 SCALE 1 : 100 M



1  
P 2
**SECOND FLOOR PLUMBING LAYOUT**  
 SCALE 1 : 100 M

PREPARED BY:  
**KEMERY G. RIZALDO**  
 ENGINEER I

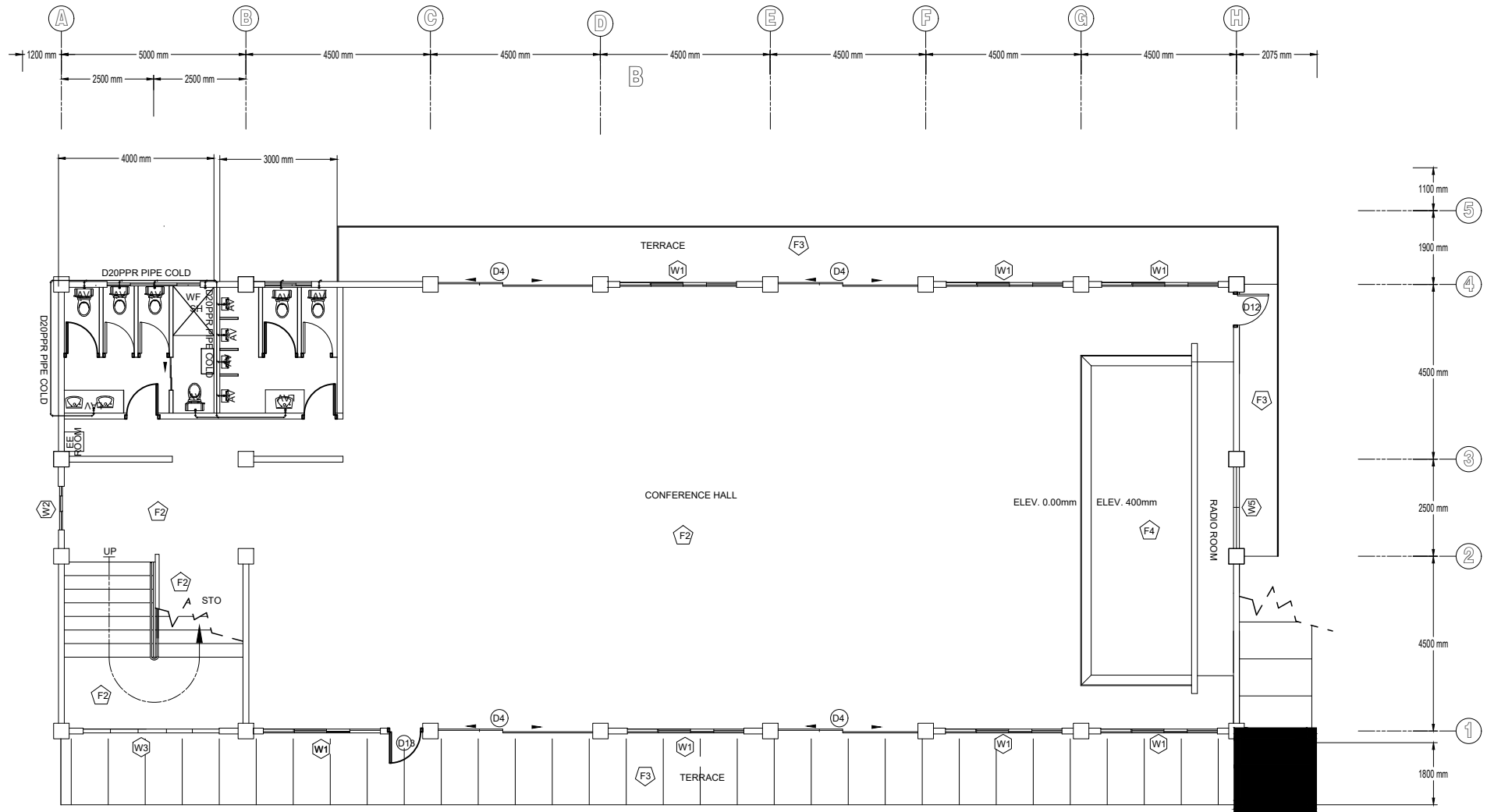
CHECKED BY:  
**CHRISTOPHER B. HADSN**  
 REGIONAL ENGINEER

RECOMMENDING APPROVAL:  
**EDGAR H. MADLAING**  
 CHIEF, ESSD

APPROVED BY:  
**ESTELA P. LEON-CARIÑO EdD, CESO III**  
 REGIONAL DIRECTOR/DIRECTOR IV

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING**  
 LOCATION: WANGAL, LA TRINIDAD, BENGUET

OWNER:  
 DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE  
 SHEET CONTENT:  
 AS SHOWN

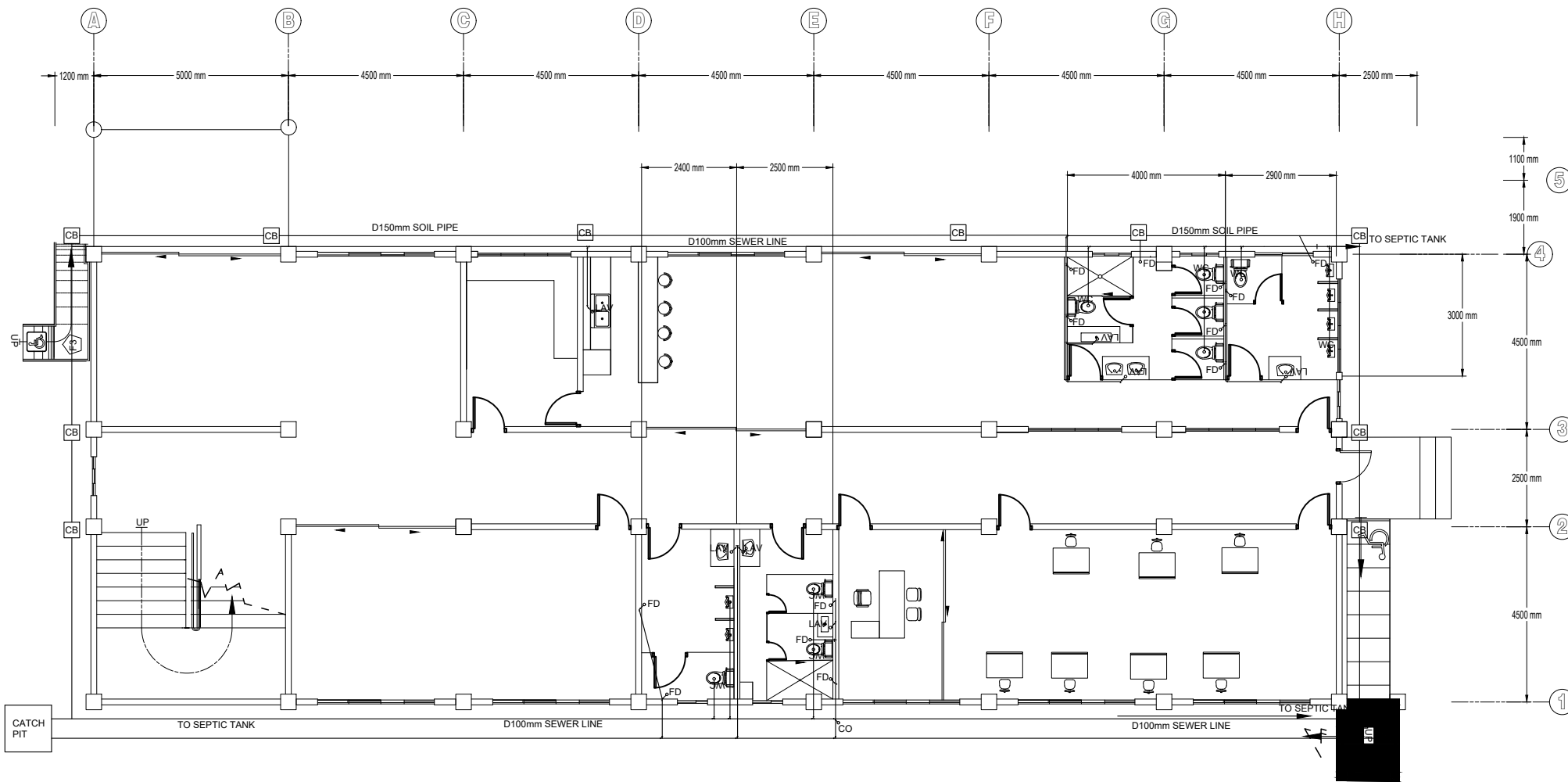


- F1 — GRANITE SLAB, 19mm THICK
- F2 — GRANITE TILES, 60X120 CM (POLISHED)
- F3 — GRANITE TILES 60 X 60CM (NON-SKID)
- F4 — WOOD GRAIN VINYL TILES

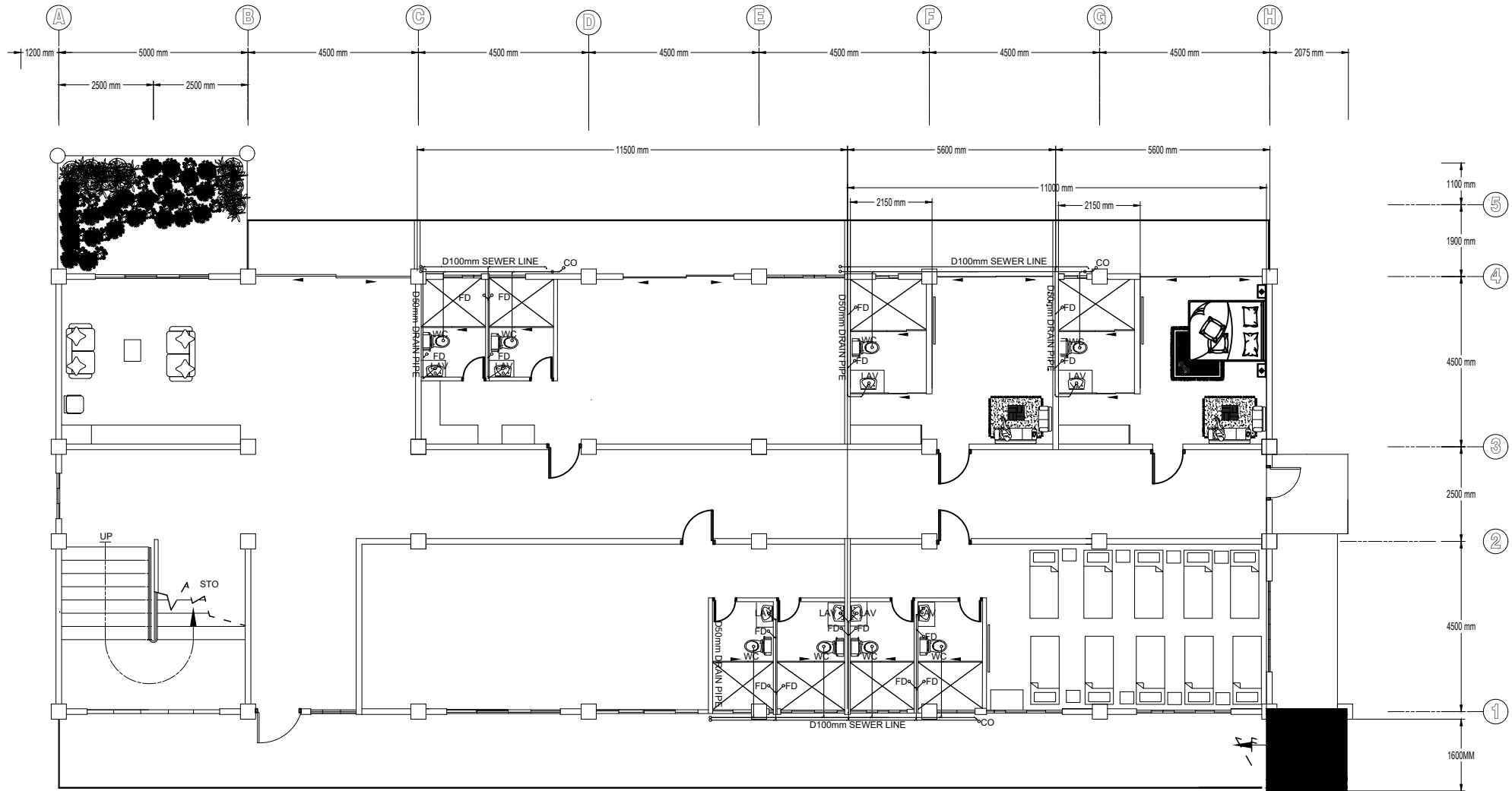
1  
P 3
**THIRD FLOOR PLUMBING LAYOUT**  
 SCALE 1 : 100 M

NOTE: TILE HEIGHT FOR COMFORT ROOMS AND BATH IS 3000mm

|  |  |  |   |   |   |  |   |
|--|--|--|---|---|---|--|---|
| REPUBLIC OF THE PHILIPPINES<br><b>DepED</b><br>DEPARTMENT OF EDUCATION<br>EDUCATION FACILITIES SECTION<br>WANGAL, LA TRINIDAD, BENGUET | PREPARED BY:                                   | CHECKED BY:  | RECOMMENDING APPROVAL:                          | APPROVED BY:  | PROJECT TITLE:  | OWNER:   | SHEET NO.:  |
|  | KEMERY G. RIZALDO<br><small>ENGINEER I</small> | CHRISTOPHER B. HADSN<br><small>REGIONAL ENGINEER</small> | EDGAR H. MADLAING<br><small>CHIEF, ESSD</small> | ESTELA P. LEON-CARIÑO EdD, CESO III<br><small>REGIONAL DIRECTOR/DIRECTOR IV</small> | PROPOSED CONSTRUCTION OF FOUR STOREY<br>NATIONAL EDUCATORS ACADEMY OF THE<br>PHILIPPINES BUILDING | DEPARTMENT OF EDUCATION - CAR<br>REGIONAL OFFICE | <div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">           P 3<br/>           30         </div> |
|  |  |  |   |   |   | LOCATION: WANGAL, LA TRINIDAD, BENGUET           |   |



1  
P 4
**FIRST FLOOR SANITATION LAYOUT**  
 SCALE 1 : 100 M



1
P 5
**SECOND FLOOR SANITATION LAYOUT**  
 SCALE 1 : 100 M

PREPARED BY:  
**KEMERY G. RIZALDO**  
 ENGINEER I

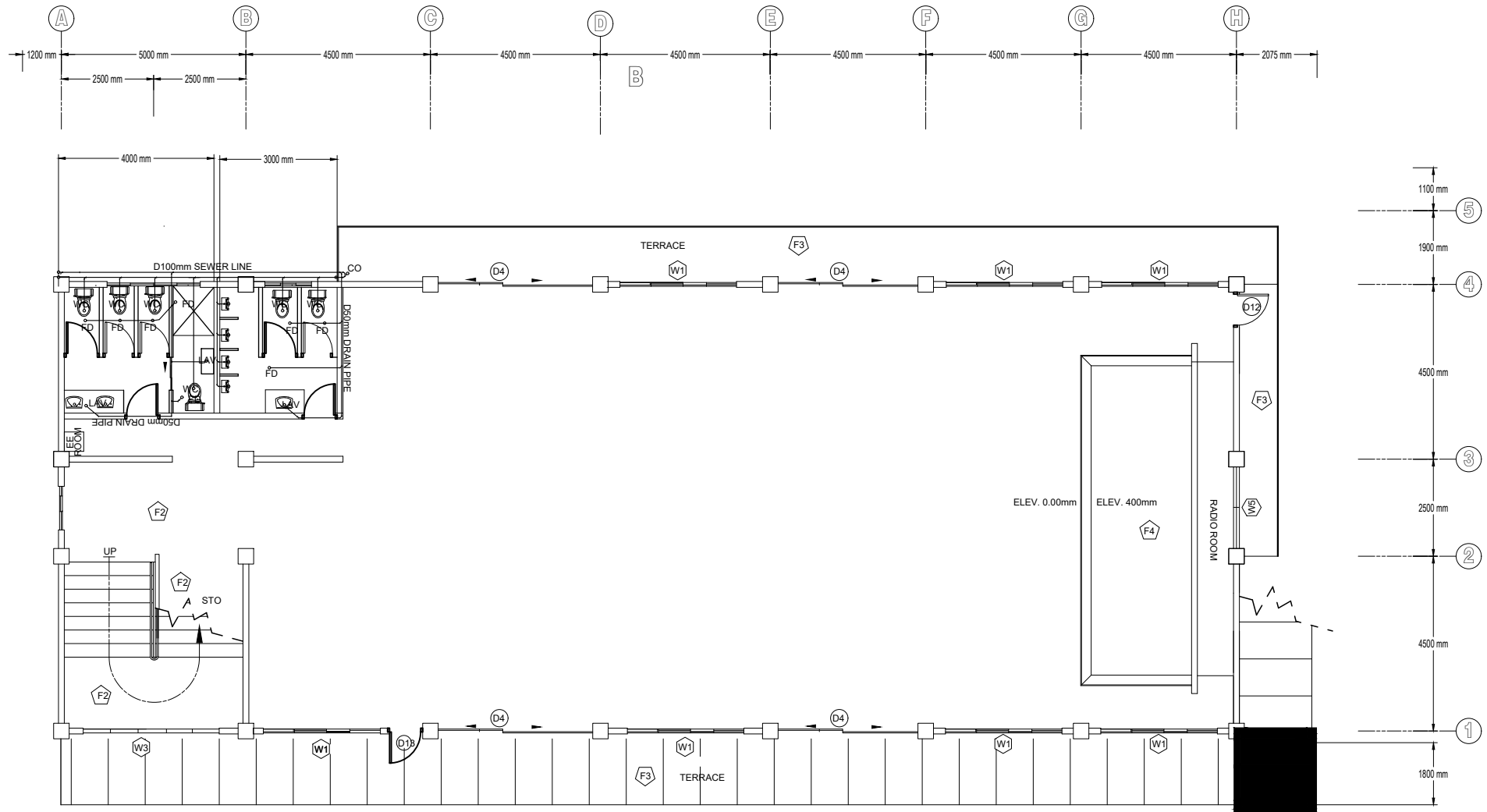
CHECKED BY:  
**CHRISTOPHER B. HADSAN**  
 REGIONAL ENGINEER

RECOMMENDING APPROVAL:  
**EDGAR H. MADLAING**  
 CHIEF, ESSD

APPROVED BY:  
**ESTELA P. LEON-CARIÑO EdD, CESO III**  
 REGIONAL DIRECTOR/DIRECTOR IV

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING**  
 LOCATION: WANGAL, LA TRINIDAD, BENGUET

OWNER:  
 DEPARTMENT OF EDUCATION - CAR REGIONAL OFFICE  
 SHEET CONTENT:  
 AS SHOWN



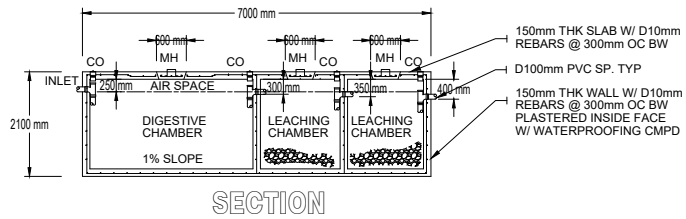
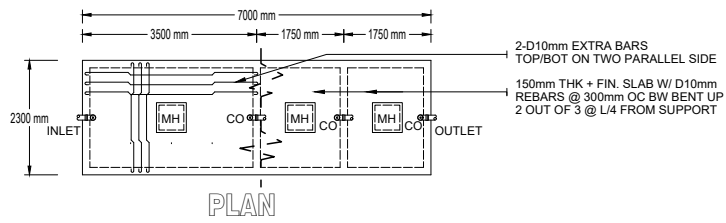
- F1 — GRANITE SLAB, 19mm THICK
- F2 — GRANITE TILES, 60X120 CM (POLISHED)
- F3 — GRANITE TILES 60 X 60CM (NON-SKID)
- F4 — WOOD GRAIN VINYL TILES

1  
P 6
**THIRD FLOOR SANITATION LAYOUT**  
 SCALE 1 : 100 M

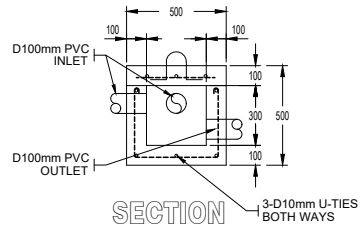
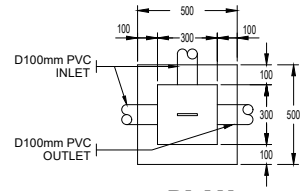
NOTE: TILE HEIGHT FOR COMFORT ROOMS AND BATH IS 3000mm

|  |   |  |  |  |   |  |  |
|--|---|--|--|--|---|--|--|
| REPUBLIC OF THE PHILIPPINES<br><b>DepED</b><br>DEPARTMENT OF EDUCATION<br>EDUCATION FACILITIES SECTION<br>WANGAL, LA TRINIDAD, BENGUET | PREPARED BY:  | CHECKED BY:  | RECOMMENDING APPROVAL:                                 | APPROVED BY:   | PROJECT TITLE:  | OWNER:   | SHEET NO.:   |
|  | <u>KEMERY G. RIZALDO</u><br><small>ENGINEER I</small> | <u>CHRISTOPHER B. HADSAN</u><br><small>REGIONAL ENGINEER</small> | <u>EDGAR H. MADLAING</u><br><small>CHIEF, ESSD</small> | <u>ESTELA P. LEON-CARIÑO EdD, CESO III</u><br><small>REGIONAL DIRECTOR/DIRECTOR IV</small> | <b>PROPOSED CONSTRUCTION OF FOUR STOREY NATIONAL EDUCATORS ACADEMY OF THE PHILIPPINES BUILDING</b><br><small>LOCATION: WANGAL, LA TRINIDAD, BENGUET</small> | DEPARTMENT OF EDUCATION - CAR<br>REGIONAL OFFICE<br><hr/> SHEET CONTENT:<br><hr/> AS SHOWN | <div style="border: 1px solid black; border-radius: 50%; padding: 10px; width: 40px; margin: 0 auto;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center; margin-bottom: 5px;">P 6</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center;">33</div> </div> |

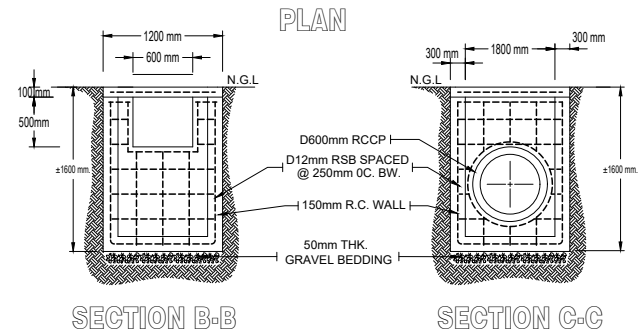
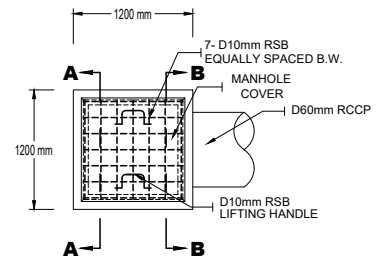




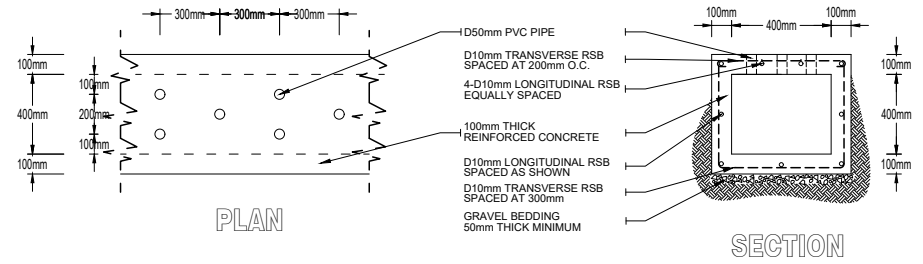
**1 SEPTIC TANK DETAIL**  
SCALE 1:100 M



**3 CATCH BASIN DETAIL**  
SCALE 1:25 M



**2 CATCH PIT DETAIL**  
SCALE 1:50 M



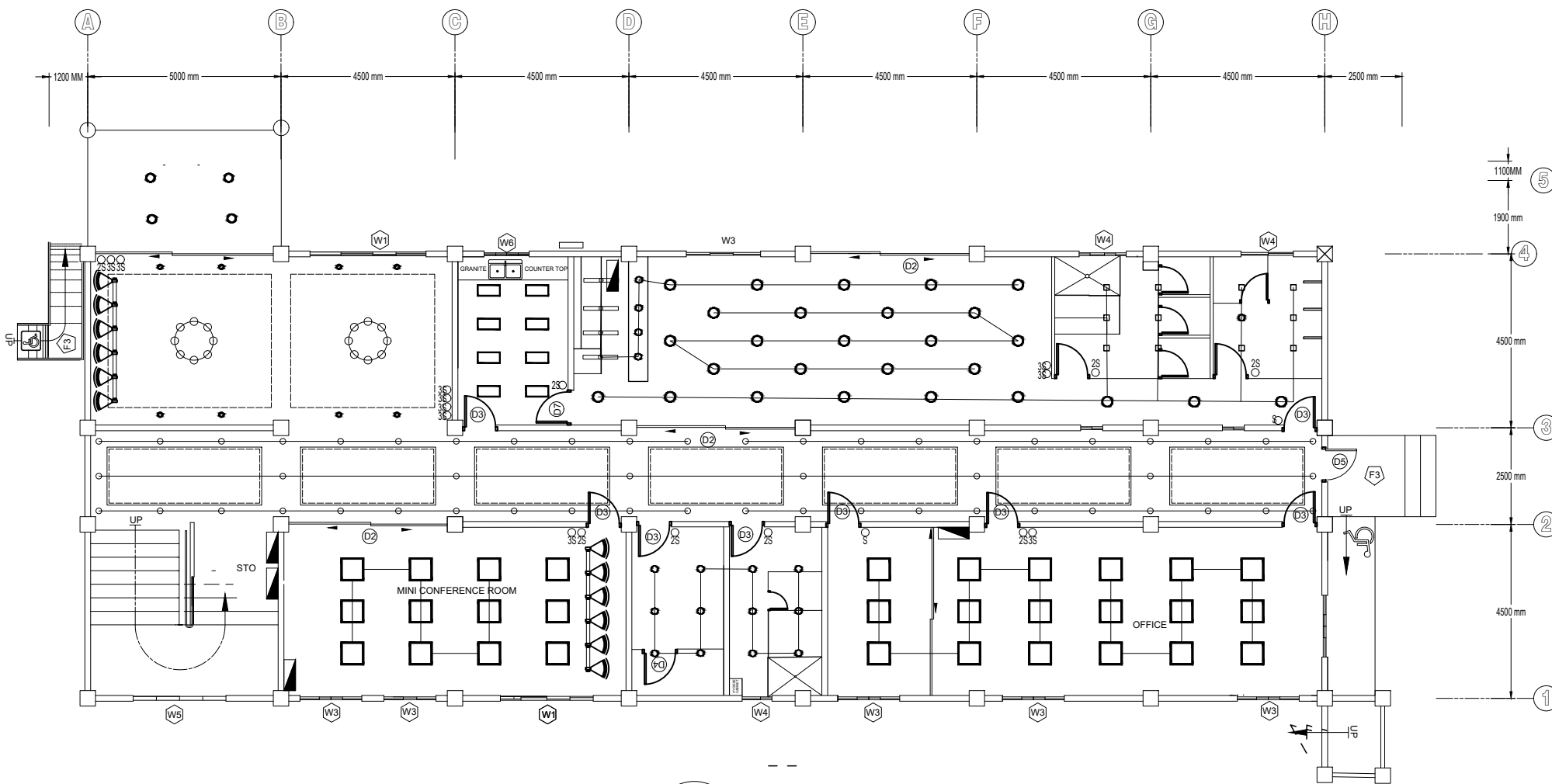
**4 BOX CULVERT DETAIL**  
SCALE 1:25 M

**PLUMBING NOTES**

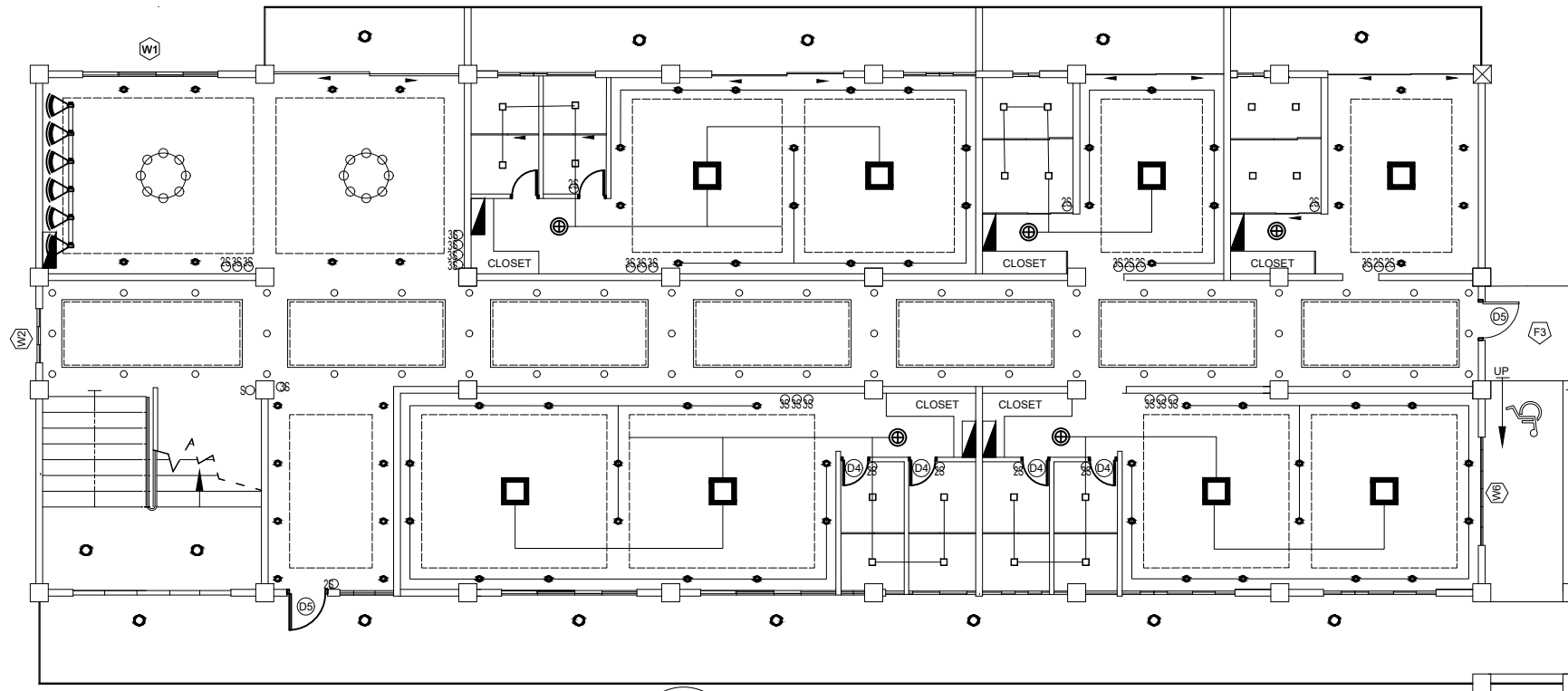
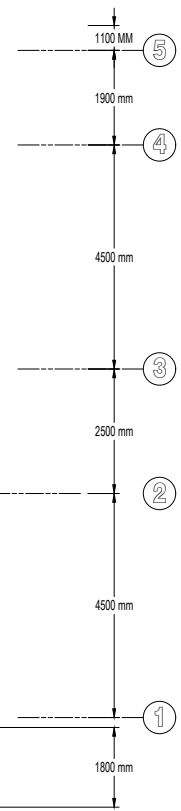
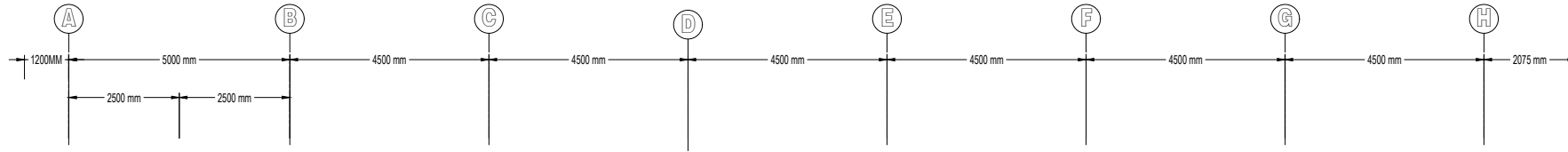
1. ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, LOCAL REQUIREMENTS AND SUBDIVISION REGULATIONS.
2. THE PLUMBING LAYOUT IS ONLY DIAGRAMATIC. PIPES, CLEANOUTS AND CHECK VALVES SHALL BE CONCEALED AS MUCH AS POSSIBLE.
3. PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL MEMBERS UNLESS OTHERWISE SPECIFIED. AS MUCH AS POSSIBLE.
4. MINIMUM SLOPE FOR SEWER LINES SHALL BE 2% AND DRAIN PIPES OF 1%. ALL GROUND CLEANOUT (GCO) ON UNPAVED GROUND.
5. GROUNDS SHALL BE PROVIDED WITH CONCRETE 'COLLAR BLOCKS'.
6. ALL UNDERGROUND G.I. PIPES IN DIRECT CONTACT WITH SHALL BE PROVIDED WITH POLISHED COVER CAPS AND WITH TWO COATS OF PROTECTIVE JUTE CLOTH THOROUGHLY SOAKED IN TAR AND ASPHALT.
7. ALL PVC PIPES SHALL BE OF APPROVED QUALITY AND G.I. PIPES FOR WATER LINE DISTRIBUTION.
8. ALL PLUMBING WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED SANITARY ENGINEER OR A REGISTERED MASTER PLUMBER.

**ABBREVIATIONS**

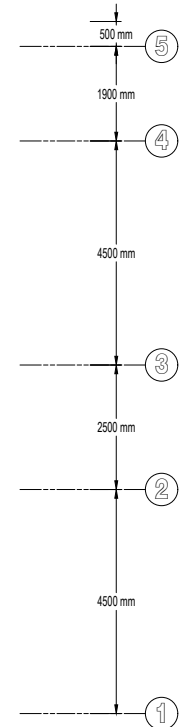
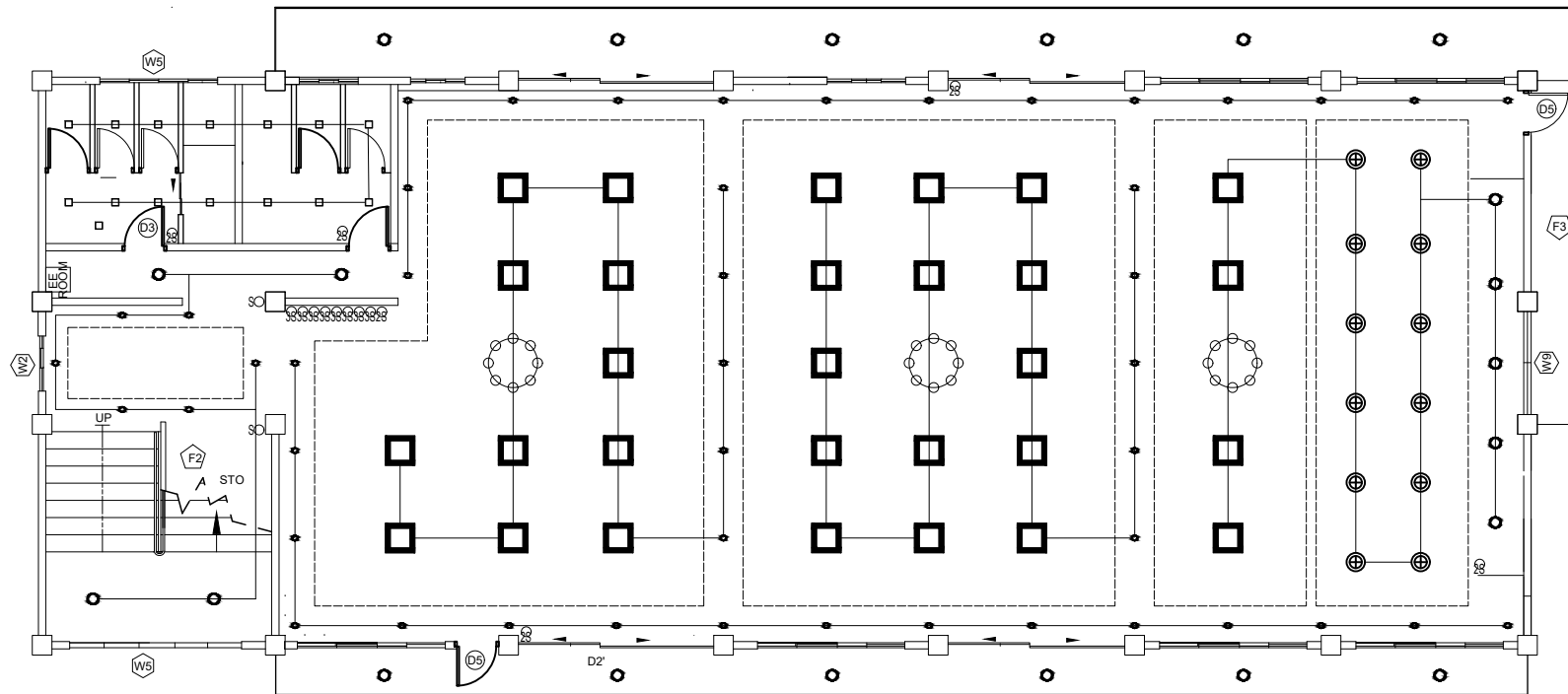
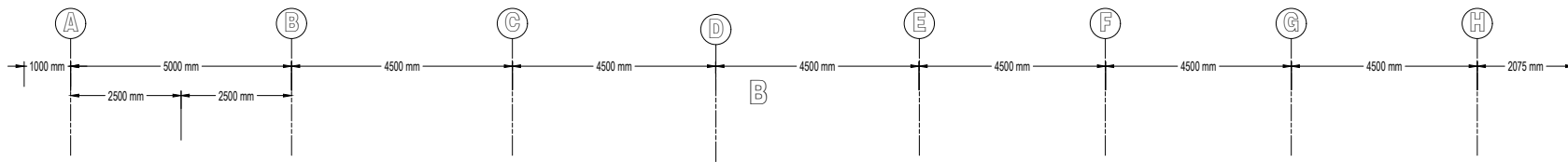
- |                       |                                |
|-----------------------|--------------------------------|
| WC - WATER CLOSET     | DS - DOWNSPOUT                 |
| FD - FLOOR DRAIN      | SS - SOIL STACK                |
| KS - KITCHEN SINK     | PVC - POLY VINYL CHLORIDE PIPE |
| LAV - LAVATORY        | VTR - VENT THRU ROOF           |
| CO - CLEANOUT         | SH - SHOWER HEAD               |
| GCO - GROUND CLEANOUT | WF - WALL FAUCET               |
| FCO - FLOOR CLEANOUT  | CWL - COLD WATER LINE          |
| WP - WASTE PIPE       | WM - WATER METER               |
| CB - CATCH BASIN      | GV - GATE VALVE                |
| UR - URINAL           | CV - CHECK VALVE               |
| AV - ANGLE VALVE      |                                |



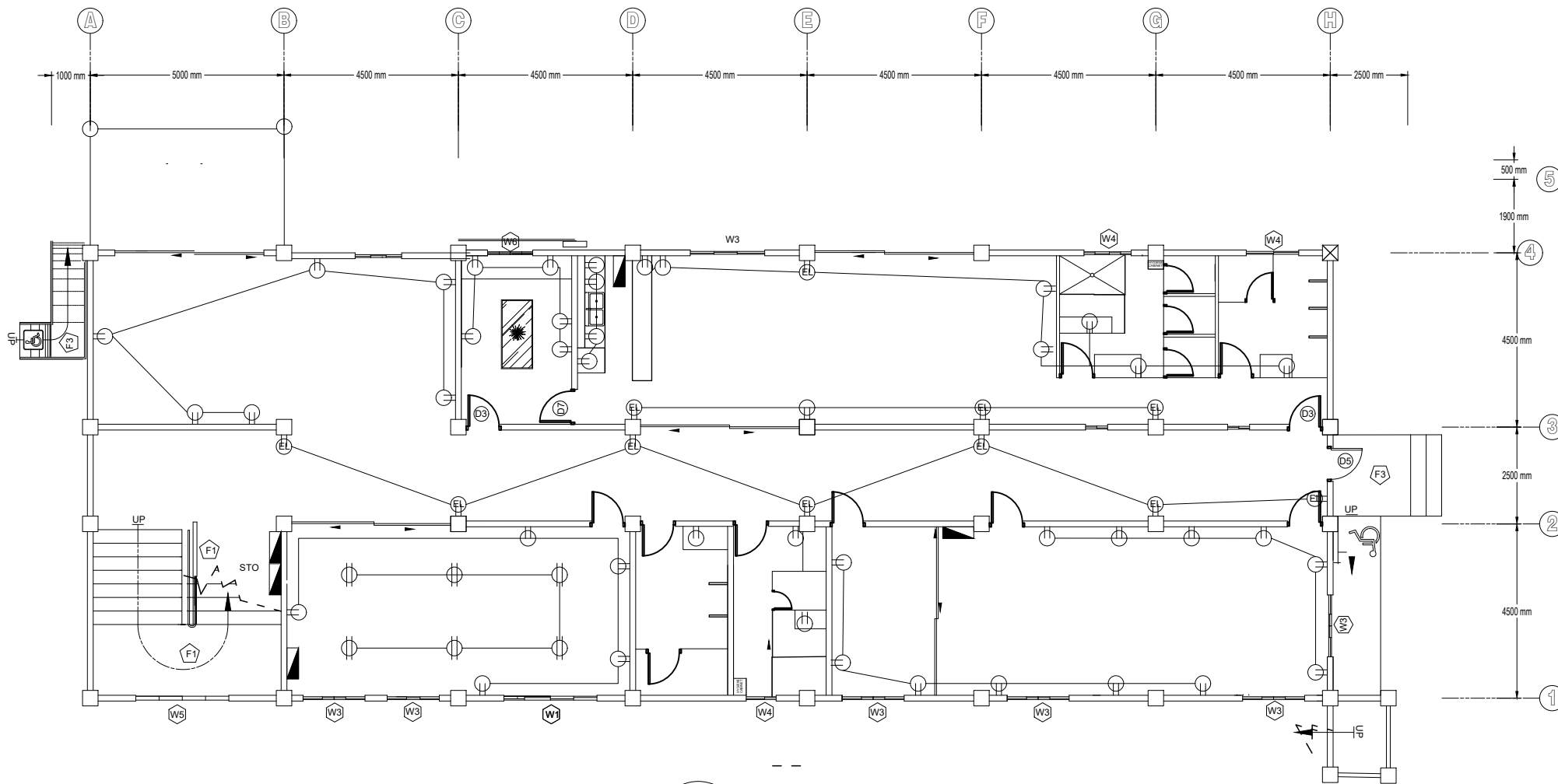
1  
E 1
**FIRST FLOOR LIGHTING LAYOUT**  
 SCALE 1 : 100 M



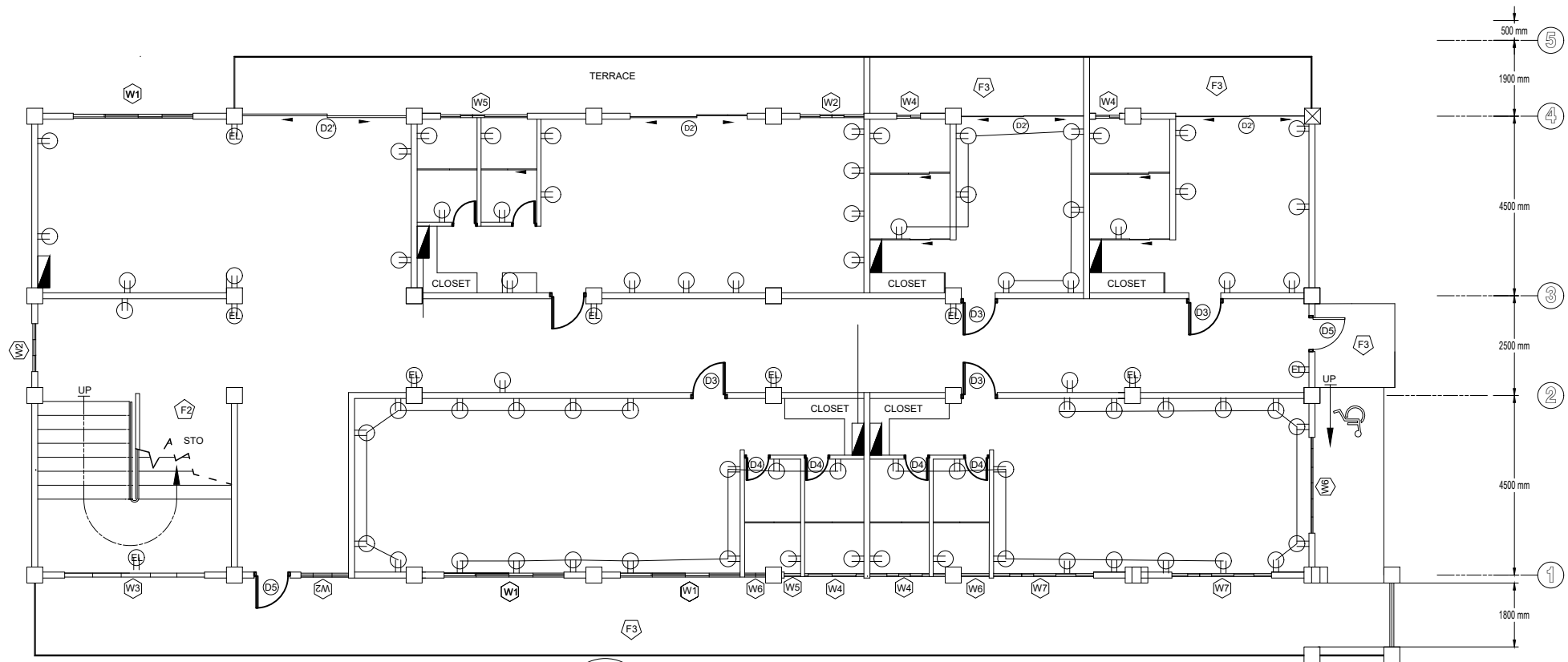
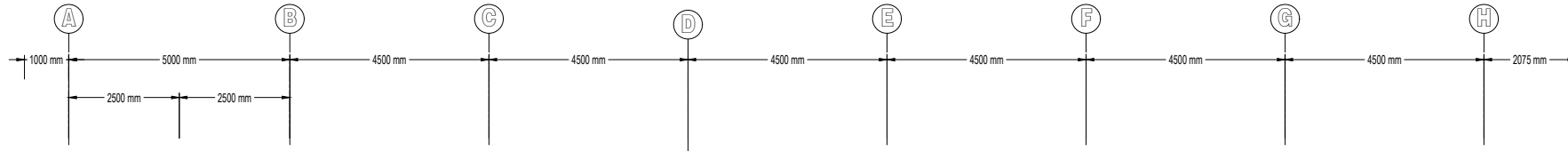
1 SECOND FLOOR LIGHTING LAYOUT  
 E 2 SCALE 1 : 100 M



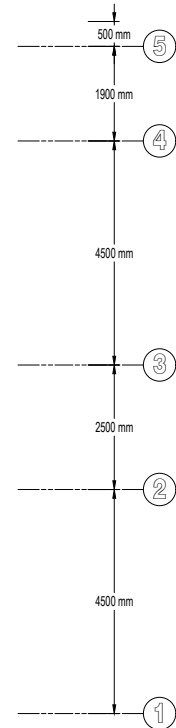
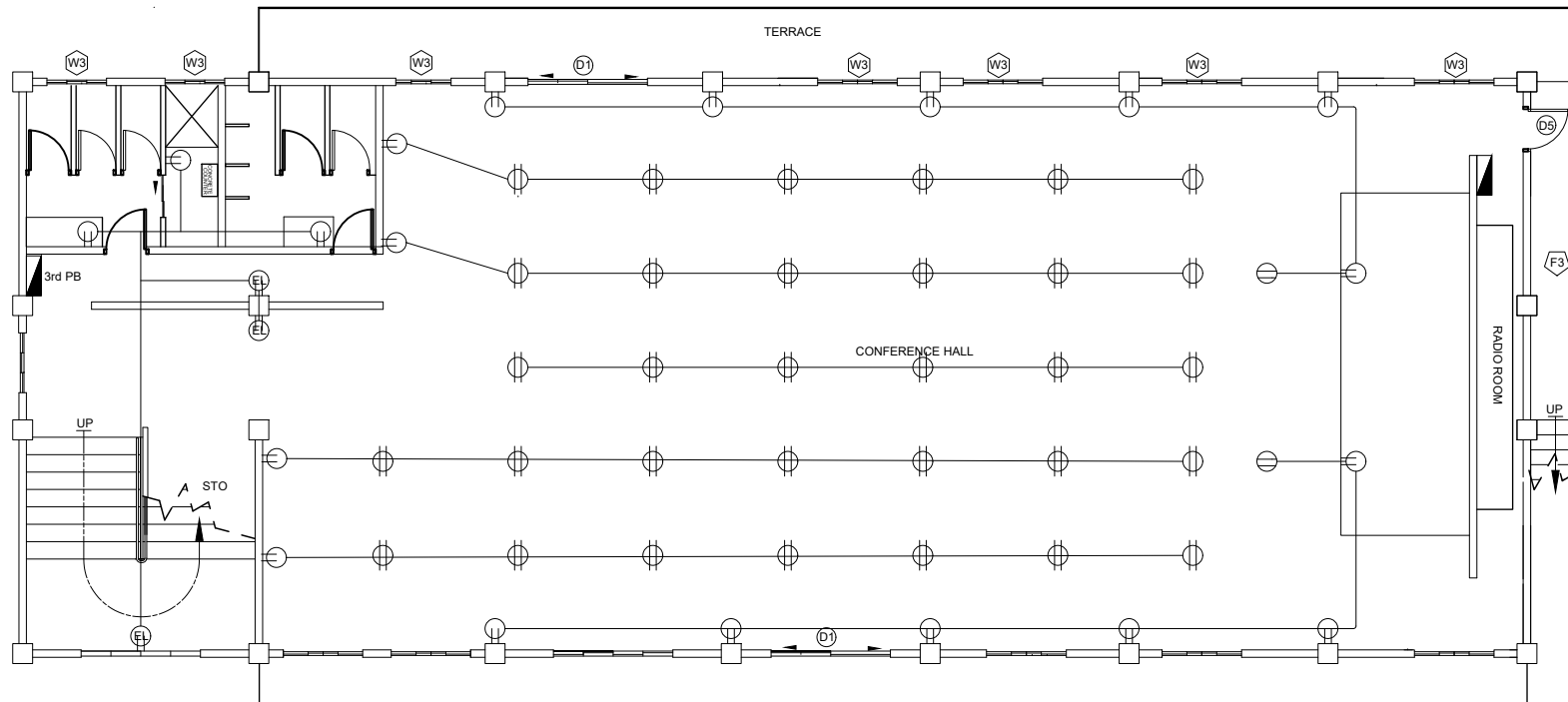
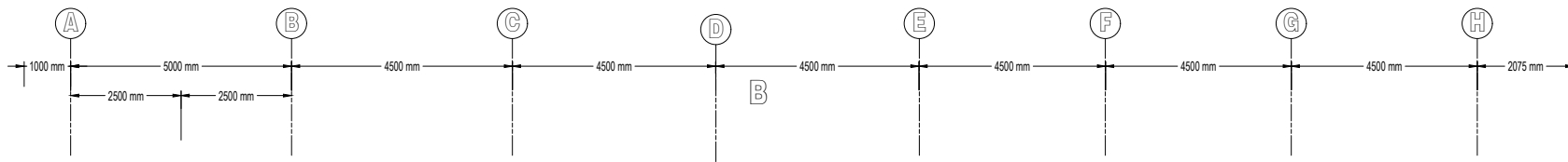
1  
E 3
**THIRD FLOOR LIGHTING LAYOUT**  
 SCALE 1 : 100 M



1  
E 4
**FIRST FLOOR POWER LAYOUT**  
 SCALE 1 : 100 M



1
E 5
**SECOND FLOOR POWER LAYOUT**  
 SCALE 1 : 100 M



1  
 E 6
 
**THIRD FLOOR POWER LAYOUT**  
 SCALE 1 : 100 M

