

# **PHILIPPINE BIDDING DOCUMENTS**

(As Harmonized with Development Partners)



**Philippine Economic Zone  
Authority**

## **CONSTRUCTION OF BCEZ MULTI-PURPOSE CENTER (PR21-10-064)**

**Sixth Edition  
October 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.





# Philippine Economic Zone Authority

## Baguio City Economic Zone

### Section I.

## Invitation to Bid for *Construction of BCEZ Multi-Purpose Center (PR21-10-064)*

1. The **Philippine Economic Zone Authority - Baguio City Economic Zone (PEZA - BCEZ)**, through the *Corporate Operating Budget for CY 2021* intends to apply the sum of Pesos: **Twenty-Nine Million Four Hundred Two Thousand Two Hundred Sixty-Seven Pesos and Eighty-Three Centavos (₱29,402,267.83)** being the Approved Budget for the Contract (ABC) to payments under the contract for “*Construction of BCEZ Multi-Purpose Center (PR21-10-064)*”. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **Philippine Economic Zone Authority - Baguio City Economic Zone** now invites bids for the above Procurement Project. Completion of the Works is required within ***Three Hundred Sixty (360) calendar days after receipt of the Notice to Proceed***. Bidders should have completed, a contract similar to the Project costing *at least 50% of the ABC*. 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.

Bidding is restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships, or organizations with at least seventy-five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

4. Interested bidders may obtain further information from **Philippine Economic Zone Authority - Baguio City Economic Zone BAC Secretariat** and inspect the Bidding Documents at the address given below from ***Monday to Friday from 8am to 5pm***.
5. A complete set of bid documents is downloadable, *free of charge*, from the following websites: **[www.philgeps.gov.ph](http://www.philgeps.gov.ph)** and **<http://www.peza.gov.ph/index.php/bid-opportunities>**; *however*, a participating bidder is required to pay the bid documents fee in the amount of **Twenty-Five Thousand Pesos Only (₱25,000.00)**. Proof of payment shall be presented prior to submission of bids, by facsimile or through email. Payments shall be done either over the counter or online.

The options available for payment of purchase of Bidding Documents are the following:

1. Thru the BCEZ Cashier.

2. Thru courier to PEZA BCEZ and the Official Receipt shall be sent back via courier as well;
3. Pay Bidding Documents at the PEZA Head Office (Double Dragon Building, Pasay) and send copy of Official Receipt to PEZA-BCEZ
4. Online payment via Electronic Payment and Collection System (<https://epav.peza.gov.ph/PEZA/>)

***Representatives of prospective bidders must bring proper Authorization (in printed format) from their companies and competent proof of identification in all stages of the procurement process. Only those representatives who secured proper Authorization shall be entertained.***

6. The **Philippine Economic Zone Authority - Baguio City Economic Zone** will hold a Pre-Bid Conference on **October 22, 2021, 9:00am** at ***the 3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City and /or through videoconferencing/ webcasting via Microsoft Teams***, which shall be open to prospective bidders. For bidders who wish not to be physically present during the pre-bid conference, the BAC Secretariat shall email invite/meeting ID and password to those who signify their intent via email below.
7. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
8. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
9. In any case the above dates is declared a special non-working holiday, it will automatically be reset on the next working day.
10. All particulars and activities regarding the Eligibility of Bidders, Bid Security, Pre Bid Conference/s, Evaluation of Bids, Post-qualification, Award of Contract, Performance Security, procedures and other documents, shall be governed by Rep. Act No. 9184 and the 2016 Revised IRR.

<b>Activities</b>	<b>Schedule</b>	<b>Details</b>
a. Issuance of Bid Documents	Starting October 14, 2021 (From 8:00 A.M. to 1:00 P.M.)	Hard copies of documents are no longer issued for the duration of community restrictions.
b. Pre-Bid Conference	October 22, 2021, 9:00 A.M. (PST)	<b>3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City</b>
c. Deadline for Submission of Bids	November 8, 2021, 1:00 P.M. (PST)	<b><i>Manual Submission:</i></b> <b>Lobby of Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City</b> <i>Late bids shall not be accepted</i>
d. Opening of Bids	November 8, 2021, 1:30 P.M. (PST)	

e. Conduct of Site Inspection, if applicable	Starting October 14, 2021 Note: Bidders must submit the name/s of technical representative/s at least three (3) days before site inspection.	Contact Person: Engr. JC King B. Manansala Tel. No.: 447-4155 E-mail address: <b>jc.manansala@peza.gov.ph</b>
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11. The **Philippine Economic Zone Authority - Baguio City Economic Zone** 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.
12. For further information, please refer to:

*Kenneth C. Luma-ang*  
*BAC Secretariat*  
*2F Admin Bldg., Baguio City Economic Zone*  
*Loakan Road, Baguio City*  
*bcezbacsec@peza.gov.ph*  
*(074)447 3683*

*October 14, 2021*

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PAUL M. CODAMON  
 Chairperson, BCEZ BAC

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

### **1. Scope of Bid**

The Procuring Entity, **Philippine Economic Zone Authority - Baguio City Economic Zone** Invites Bids for the “*Construction of BCEZ Multi-Purpose Center*”, with Project Identification Number **PR21-10-064**.

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 *Corporate Operating Budget for CY 2021* in the amount of **Twenty-Nine Million Four Hundred Two Thousand Two Hundred Sixty-Seven Pesos and Eighty-Three Centavos Only (₱29,402,267.83)**.

2.2. The source of funding is:

- a. GOCC and GFIs, the Corporate Operating Budget.

### **3. Bidding Requirements**

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

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

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

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

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

#### **5. Eligible Bidders**

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

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

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

#### **6. Origin of Associated Goods**

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

#### **7. Subcontracts**

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than fifty percent (50%) of the Project. The Procuring Entity has prescribed that:
  - a. Subcontracting is not allowed.

#### **8. Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on ***October 22, 2021, 9:00am*** and either at its physical address at ***the 3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City and /or through***

*videoconferencing/ webcasting via Microsoft Teams* 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.

a. *Payment of the contract price shall be made in: 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 **One Hundred Twenty (120) calendar days from the date of opening of bids**. 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. **Participating bidders are requested to submit one (1) additional duplicate copy.**

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**.

**1:00pm, November 8, 2021 through manual submission**

## **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 16 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*

ITB Clause																																									
5.2	<p>Statement of the Bidder's Single Largest Completed Contract (SLCC) similar to the requirement shall be:</p> <p>1) Similar contract refers to Construction of building or any building structure with concrete and steel roofing works such as Office, Commercial, Industrial and Warehouse Building using structural steel members (at least 2 storey building).</p> <p>2) In the amount of at least 50% of the approved budget for the contract.</p>																																								
7.1	<i>Subcontracting is not allowed</i>																																								
10.3	<p>Current and Valid PCAB License and registration:            Size Range: <b><u>Small B</u></b>            License Category: <b><u>C and D</u></b>            Allowable Range of Contract <b><u>Cost: up to 30M</u></b></p>																																								
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;"><i>Key Personnel</i></th> <th style="text-align: center;"><i>No. of Personnel</i></th> <th style="text-align: center;"><i>Total Experience (years)</i></th> <th style="text-align: center;"><i>Same Position in Similar Works (years)</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><b><i>Project Manager</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;"><b><i>Project Engineer</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;"><b><i>Electrical Engineer</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;"><b><i>Geodetic Engineer</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;"><b><i>Material &amp; Quality Control Engineer (Accredited Materials Engineer I)</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;"><b><i>Construction Foreperson (Foreman)</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;"><b><i>Welder</i></b></td> <td style="text-align: center;">2</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;"><b><i>Plumber</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;"><b><i>Electrician</i></b></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> </tbody> </table>	<i>Key Personnel</i>	<i>No. of Personnel</i>	<i>Total Experience (years)</i>	<i>Same Position in Similar Works (years)</i>	<b><i>Project Manager</i></b>	1	5	5	<b><i>Project Engineer</i></b>	1	5	5	<b><i>Electrical Engineer</i></b>	1	3	3	<b><i>Geodetic Engineer</i></b>	1	3	3	<b><i>Material &amp; Quality Control Engineer (Accredited Materials Engineer I)</i></b>	1	3	3	<b><i>Construction Foreperson (Foreman)</i></b>	1	5	5	<b><i>Welder</i></b>	2	5	5	<b><i>Plumber</i></b>	1	3	3	<b><i>Electrician</i></b>	1	3	3
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<b>Steelperson (Steelman)(Pipe Bending)</b>	2	5	5
<b>Carpenter</b>	1	3	3
<b>Mason</b>	1	3	3
<b>Painter</b>	1	3	3
Safety Officer (SO) - Certified by an accredited safety organization in Construction Occupational Safety and Health as prescribed by Department of Labor and Employment (DOLE) and must have at least three (5) years' experience as a Safety Officer in the construction industry.			
<i>First Aider w/ certificate of Training issued by RED CROSS in compliance to DOLE requirements for the approval of Construction Safety &amp; Health Program (Required Upon issuance of Notice of Award) subject to D.O 98 Series of 2014 : Submission of Construction Safety and Health Program Approved by the Department of Labor and Employment (DOLE).</i>			

The key personnel should meet the following number of years' work experience.

1. The experience means total years of civil works experience (of any nature in construction and engineering consultancy services)

Note: The PE can also be designated as the PM if he/she has *at least five (5)* years of construction experience. The PM/PE shall be assigned at the site to monitor and supervise the project at all times.

Each of the contractor's Key Personnel must be supported by the following documents:

- a. Curriculum Vitae;
- b. Valid (not expired) Professional Identification Card issued by the Professional Regulation Commission for the PM and PE;

OR

If for Renewal, submit a copy of the following:

- a. Recently expired Professional Identification Card; AND
- b. Official Receipt as proof of payment for the application for renewal.
- c. Include the Tax Identification Number (TIN) of the Key Personnel.
- d. Certificate of Training on Construction Occupational Safety and Health issued by a DOLE accredited training center/agency for the SO.
- e. Compliance to D.O. 98 series of 2016: Revised Guidelines on the Accreditation of Contractors'/Consultants' Materials Engineer for ME.

Note: In case the bidder needs to change any of its proposed key personnel, the replacement must have the same or higher qualification and years of experience as the personnel being replaced, subject to PEZA-BCEZ approval.

10.5	<p>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, which must include the following equipment:</p> <table border="1" data-bbox="411 331 1374 1440"> <thead> <tr> <th data-bbox="411 331 767 416">Equipment</th> <th data-bbox="767 331 1179 416">Minimum Capacity</th> <th data-bbox="1179 331 1374 416">Number of Equipment</th> </tr> </thead> <tbody> <tr> <td data-bbox="411 416 767 501">Water Pump</td> <td data-bbox="767 416 1179 501">100mm suction, 2,667 lit./min. discharge</td> <td data-bbox="1179 416 1374 501">1</td> </tr> <tr> <td data-bbox="411 501 767 555">PPR Fusing Machine</td> <td data-bbox="767 501 1179 555">Minimum of 1 ½"</td> <td data-bbox="1179 501 1374 555">1</td> </tr> <tr> <td data-bbox="411 555 767 609">One Bagger Mixer</td> <td data-bbox="767 555 1179 609">3-4 cu.ft. / min.</td> <td data-bbox="1179 555 1374 609">1</td> </tr> <tr> <td data-bbox="411 609 767 663">Backhoe</td> <td data-bbox="767 609 1179 663">0.8 cu.m. / 1.04 cu.yd.</td> <td data-bbox="1179 609 1374 663">1</td> </tr> <tr> <td data-bbox="411 663 767 716">Backhoe with Breaker</td> <td data-bbox="767 663 1179 716">0.8 cu.m. / 1.04 cu.yd.</td> <td data-bbox="1179 663 1374 716">1</td> </tr> <tr> <td data-bbox="411 716 767 801">Cutting Outfit (Oxygen and Acetylene)</td> <td data-bbox="767 716 1179 801">6" Cutting, 1" Welding</td> <td data-bbox="1179 716 1374 801">1</td> </tr> <tr> <td data-bbox="411 801 767 855">Dump Truck</td> <td data-bbox="767 801 1179 855">9.17 cu.m.</td> <td data-bbox="1179 801 1374 855">2</td> </tr> <tr> <td data-bbox="411 855 767 931">Plate Compactor</td> <td data-bbox="767 855 1179 931">400-500 Gasoline Engine, 5HP</td> <td data-bbox="1179 855 1374 931">1</td> </tr> <tr> <td data-bbox="411 931 767 1057">Concrete Vibrator</td> <td data-bbox="767 931 1179 1057">Flexible Shaft Type, 2" Head Diam. with 5 Amperes Gasoline Drive Unit</td> <td data-bbox="1179 931 1374 1057">2</td> </tr> <tr> <td data-bbox="411 1057 767 1133">Pumpcrete - Trailer Mounted</td> <td data-bbox="767 1057 1179 1133">125 cu.m./hr.</td> <td data-bbox="1179 1057 1374 1133">1</td> </tr> <tr> <td data-bbox="411 1133 767 1218">Bar Cutter</td> <td data-bbox="767 1133 1179 1218">25mm Maximum Rebar diam. (Grade 60), Single Phase</td> <td data-bbox="1179 1133 1374 1218">1</td> </tr> <tr> <td data-bbox="411 1218 767 1303">Bar Bender</td> <td data-bbox="767 1218 1179 1303">25mm Maximum Rebar diam. (Grade 60), Single Phase</td> <td data-bbox="1179 1218 1374 1303">1</td> </tr> <tr> <td data-bbox="411 1303 767 1357">Truck Mounted Crane</td> <td data-bbox="767 1303 1179 1357">31 - 35 mt</td> <td data-bbox="1179 1303 1374 1357">1</td> </tr> <tr> <td data-bbox="411 1357 767 1440">Welding Machine</td> <td data-bbox="767 1357 1179 1440">Electric Driven/DC output, 500 Amperes</td> <td data-bbox="1179 1357 1374 1440">2</td> </tr> </tbody> </table>	Equipment	Minimum Capacity	Number of Equipment	Water Pump	100mm suction, 2,667 lit./min. discharge	1	PPR Fusing Machine	Minimum of 1 ½"	1	One Bagger Mixer	3-4 cu.ft. / min.	1	Backhoe	0.8 cu.m. / 1.04 cu.yd.	1	Backhoe with Breaker	0.8 cu.m. / 1.04 cu.yd.	1	Cutting Outfit (Oxygen and Acetylene)	6" Cutting, 1" Welding	1	Dump Truck	9.17 cu.m.	2	Plate Compactor	400-500 Gasoline Engine, 5HP	1	Concrete Vibrator	Flexible Shaft Type, 2" Head Diam. with 5 Amperes Gasoline Drive Unit	2	Pumpcrete - Trailer Mounted	125 cu.m./hr.	1	Bar Cutter	25mm Maximum Rebar diam. (Grade 60), Single Phase	1	Bar Bender	25mm Maximum Rebar diam. (Grade 60), Single Phase	1	Truck Mounted Crane	31 - 35 mt	1	Welding Machine	Electric Driven/DC output, 500 Amperes	2
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15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> <li>a. The amount of not less than ₱588,045.36, [the amount equivalent to two percent (2%) of ABC] if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>b. The amount of not less than ₱1,470,113.39 [the amount equivalent to five percent (5%) of ABC] if bid security is in Surety Bond. <ol style="list-style-type: none"> <li>i. The surety company shall not be included in the GPPB's negative list of insurers pursuant to GPPB guidelines for the establishment of</li> </ol> </li> </ol>																																													

	<p>negative list of surety and/or insurance companies [appendix 29 of the 2016 revised IRR].</p> <p>ii. Bid Security (in the form of surety bond) issued by a private insurance firm is acceptable provided that the said firm is duly authorized by the Insurance Commission (IC) to issue Surety Bonds and has not been issued a Cease or Desist Order from the IC or is currently not included in the blacklisted firms.</p>
15.2	The bid security shall be valid for ONE HUNDRED TWENTY (120) CALENDAR DAYS FROM THE DATE OF THE OPENING OF BIDS
19.2	Partial bid is <b>not allowed</b> . The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	a. Bidder with the LCB shall submit income and business tax returns filed through the Electronic Filing and Payments System (EFPS). The latest income and business tax returns are those within the last six months preceding the date of bid submission.
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as:</p> <ol style="list-style-type: none"> <li>1. Duly signed Construction Schedule and S-curve;</li> <li>2. Duly signed Manpower Schedule;</li> <li>3. Duly signed Construction Methodology in narrative form;</li> <li>4. Duly signed Equipment Utilization Schedule;</li> <li>5. Duly signed Certificate of Site Inspection;</li> <li>6. Duly signed Organizational Chart for the Project;</li> <li>7. PERT-CPM reflecting the Critical Path Method; and</li> <li>8. Construction Safety and Health Program approved by the DOLE, and other acceptable tools of project scheduling.</li> </ol>

## ***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*

GCC Clause											
2.0	Completion Period: The project shall be completed within <b>Three Hundred Sixty (360) calendar days</b> reckoned from the date stated in the Notice to Proceed to be issued by PEZA.										
4.1	Upon receipt of the Notice to Proceed, the Contractors Representative shall immediately coordinate with the PEZA-BCEZ Engineering and Maintenance Division for instruction/briefing prior to implementation.										
5	<p>The winning bidder is required, within ten (10) calendar days from receipt of the Notice of Award, to submit the following:</p> <p>A. If not submitted under envelope no. 1:</p> <ul style="list-style-type: none"> <li>I. Current and Valid Mayor's/Business Permit;</li> <li>II. Original Notarized Proof of Appointment of Bidder's Authorized Representative;</li> <li>III. Original Notarized Statement of all Ongoing Contracts; and</li> <li>IV. Original Notarized Omnibus Sworn Statement of the Bidder;</li> </ul> <p>B. Performance Security in any of the following acceptable forms:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Acceptable Forms of Performance Security</th> <th style="text-align: center;">Amount of Performance Security (not less than the required percentage of the total contract price)</th> <th style="text-align: center;">Details/Remarks</th> </tr> </thead> <tbody> <tr> <td>1. Cash or Cashiers/Manager's Check Issued by a Universal Bank (UB) or Commercial Bank (KB).</td> <td style="text-align: center;">Ten Percent (10%)</td> <td>The posted security shall be retained by PEZA-BCEZ for the duration of the contract until its completion.</td> </tr> <tr> <td>2. Bank Draft / Guarantee or Irrevocable Letter of Credit issued by a UB or KB: provided, however, that it shall be confirmed or authenticated by a UB or KB, if issued by a foreign bank (For a list of UBs/KBs, refer to <a href="http://www.bsp.gov.ph">http://www.bsp.gov.ph</a>).</td> <td style="text-align: center;">Ten Percent (10%)</td> <td>Valid from the date of issuance of Performance Security until issuance of Certificate of Final Acceptance by the end-user. <b>CONDITIONS:</b> 1. Must be valid until issuance of the Certificate of Final Acceptance by the end-user department;</td> </tr> </tbody> </table>		Acceptable Forms of Performance Security	Amount of Performance Security (not less than the required percentage of the total contract price)	Details/Remarks	1. Cash or Cashiers/Manager's Check Issued by a Universal Bank (UB) or Commercial Bank (KB).	Ten Percent (10%)	The posted security shall be retained by PEZA-BCEZ for the duration of the contract until its completion.	2. Bank Draft / Guarantee or Irrevocable Letter of Credit issued by a UB or KB: provided, however, that it shall be confirmed or authenticated by a UB or KB, if issued by a foreign bank (For a list of UBs/KBs, refer to <a href="http://www.bsp.gov.ph">http://www.bsp.gov.ph</a> ).	Ten Percent (10%)	Valid from the date of issuance of Performance Security until issuance of Certificate of Final Acceptance by the end-user. <b>CONDITIONS:</b> 1. Must be valid until issuance of the Certificate of Final Acceptance by the end-user department;
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	<p>3. Surety Bond <u>Callable Upon Demand</u> issued by a Surety or Insurance Company duly authorized by the Insurance Commission to issue such security.</p> <p>Notes:</p> <p>a. The Surety Company should be authorized by the Insurance Commissioner to grant authority to private insurance companies to act as sureties in government transactions in accordance with IC Circular no. 2014-24 dated 28 May 2014.</p> <p>b. The Surety Company shall not be included in the GPPB's negative list of insurers pursuant to GPPB guidelines for the establishment of negative list of surety and/or insurance companies [Appendix 29 of the 2016 revised IRR].</p> <p>c. The PEZA-BCEZ shall not accept surety bond with limiting conditions.</p>	<p>Thirty Percent (30%)</p>	<p>2. Must guarantee the Faithful performance under the contract in accordance with the bidding documents;</p> <p>3. Posted in favor of the Philippine Economic Zone Authority – Baguio City Economic Zone (PEZA-BCEZ); and</p> <p>4. Shall be forfeited in case of default by the contractor in any of its obligations under the contract.</p>
<p>NOTES:</p> <p>1. Performance Security (in the form of Surety Bond) issued by a private insurance firm is acceptable provided that the said firm is duly authorized by the Insurance Commission (IC) to issue Surety Bonds and has not been issued a Cease or Desist Order from the IC or is currently not included in the Blacklisted Firms/GPPB Negative List.</p> <p>2. Furthermore, Surety Bond with the following or similar condition/phrase <b>shall NOT be accepted:</b></p>			

	<p>A. “In case of default of the principal, this bond shall only answer for the difference in the bid price of the winning bidder and that of the next lowest complying bidder or that of the new winning bidder in case of rebidding plus necessary expenses incurred by the obligee in the re-bidding which liability shall in no case exceed the amount of the bond”;</p> <p>B. “That the amount of liability of the surety under this bond is limited to the actual loss or damage sustained and duly proven by the obligee”; or</p> <p>C. “It is hereby further agreed and understood that no action at law or equity shall be brought against the surety under this bond unless the same is brought before a competent court within one year from the date said written notice of any existing obligation is received by the surety, as herein stipulated.”</p> <p>3. The contract awardee undertakes that, for its own account, it shall cause the extension of the validity of the performance security when the implementation of the awarded contract has not yet been accepted.</p>
6	⇒ <i>Conduct of Site Inspection shall be coordinated with Engr. JC King B. Manansala.</i>
7.2	<p><i>The warranty against Structural Defects/Failures: Five (5) years.</i></p> <p>Form of warranty shall be in accordance with the provisions under section 62.2 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184.</p>
10	Dayworks are <b>applicable</b> 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 <i>ten (10)</i> days upon receipt of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is one percent (1%) of the Progress Billing.
13	Upon written request of the contractor, and subject to the requirements in Annex “E” of the 2016 revised IRR of RA No. 9184, advance payment in amount not exceeding fifteen percent (15%) of the total contract price shall be made in one (1) lump sum payment.
14	<p>The Contractor shall submit a request for payment for its accomplishment with satisfactory Materials Test Results as applicable.</p> <p>Materials and equipment delivered on the site but not completely put in place <b>shall not</b> be included for payment.</p>
15.1	The following documents shall submitted by the Contractor and it shall include the submission of complete and final “As-Built Drawings”:

	<ol style="list-style-type: none"> <li>1. One (1) set of original copy in 30" x 40" sheets (drawn on a <b>mylar sheets</b>) signed and sealed by appropriate professional architects and engineers;</li> <li>2. One (1) set of blue print copies in 30" x 40" sheets signed and sealed by appropriate professional architects and engineers;</li> <li>3. Complete set of electronic files in USB Thumb Drive of "AS-BUILT PLANS" in PDF and CAD format;</li> <li>4. Complete set of electronic and printed copies of colored photos in <i>jpeg-format</i> <b>with date and time</b> stamp demonstrating <b>before, during,</b> and <b>after</b> construction works;</li> <li>5. Manuals/brochures with technical specifications and Manufacturer's printed Product Installation Instructions; and</li> <li>6. Warranty Certificate of at least five (5) years against poor workmanship and one (1) year against defects traceable to materials. Refer to SCC Clause 12.5 for Warranty against Structural Defects/Failures, when applicable.</li> </ol> <p>The period, by which above-cited documents are required to be submitted, shall be <b>within ten (10) calendar days prior to the issuance of Certificate of Completion.</b></p>
15.2	<p>Release of Final Payment shall be made only upon the submission of the "As-Built Drawings" and "Maintenance Manuals" by the Contractor and issuance of Certificate of Completion as recommended by PEZA-BCEZ's authorized representative/s or End User of the project and subject to the approval of the signatory of the Contract or the Head of the Procuring Entity.</p>

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

Unless otherwise specified herein, the latest and current DPWH Standard Specifications for Public Works and Highways (“Blue Book”) shall be adopted for the implementation of the project.

In particular, Volume II of the Blue Book shall be used if the Contract pertains to Highways, Bridges and Airports. Volume III of the Blue Book shall be used if the Contract pertains to Buildings, Flood Control and Drainage, or Water Supply. The Blue Book incorporates standards of the American Association of State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), and American Concrete Institute (ACI), among others, pertaining to construction.

Other Specification for Specific Items:

### **ITEM B.3. – GRAVEL BEDDING (G-1)**

This item shall consist of the construction of gravel bedding in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

Material to be used in this construction should be Gravel size G-1”.

The Contractor shall compact the material placed in all gravel bed and the material scarified to the designated depth.

Payment will be made in accordance with the Bill of Quantities

### **ITEM C.1. – STRUCTURAL CONCRETE, (4000 psi and 3500 psi @ 28days)**

This Item shall consist of furnishing, placing and finishing concrete in buildings and related structures, flood control and drainage, ports, and water supply structures in accordance with this specification and conforming to the lines, grades, and dimension shown on the plans.

Materials to be used in this construction should be:

- Cement – Cement shall conform to the requirements of the following cited Specifications for the type specified or permitted (Type 1P).
- Gravel – **Composed of ¾” size gravel aggregates.**
- Sand – Composed of crushed sand (S1).
- Water – Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product. Water which is drinkable

may be used without test. Where the source of water is shallow, the intake shall be so enclosed as to exclude silt, mud, grass or other foreign materials.

The compaction shall be done by mechanical vibration. The concrete shall be vibrated internally unless special authorization of other methods is given by the Engineer or is provided herein. Vibrators shall be of a type, design, and frequency approved by the Engineer. The intensity of vibration shall be such as to visibly affect a mass of concrete with a 3 cm slump over a radius of at least 50 cm. A sufficient number of vibrator shall be provided to properly compact each batch immediately after it is placed in the forms. Vibrators shall be manipulated so as to thoroughly work the concrete around the reinforcement and embedded fixtures and into the corners and angles of the forms and shall be applied at the point of placing and in the area of freely placed concrete. The vibrators shall be inserted into and withdrawn from the concrete slowly. The vibration shall be of sufficient duration and intensity to compact the concrete thoroughly but shall not be continued so as to cause segregation and at any one point to the extent that localized areas of grout are formed. Application of vibrators shall be at points uniformly spaced, and not farther apart than twice the radius over which the vibration is visibly effective. Vibration shall not be applied directly or thru the reinforcement to sections or layers of concrete that have hardened to the degree that the concrete ceases to be plastic under vibration. It shall not be used to make concrete flow in the forms over distances so great as to cause segregation, and vibrators shall not be used to transport concrete in the forms of troughs or chutes.

After forms for concrete shall remain in place undisturbed for not less than twenty-four (24) hours after concrete pouring. In the removal of forms, crowbars should be used in pulling out nails and pins. Care should be taken so as not to break the edges of the structure. In case portions of the concrete are spalled, they shall be immediately repaired with fresh mortar mixed in the proportion of one part of Cement and two parts fine aggregates. Major honeycomb areas will be considered as defective work and shall be removed and replaced at the expense of the Contractor.

Payment will be made in accordance with the Bill of Quantities

### **ITEM C.5. – ITEM C.12. METAL STRUCTURES**

This work shall consist of steel structures and the steel structure portions of composite structures, constructed in reasonably close conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

The work will include the furnishing, fabricating, hauling, erecting, welding and painting of structural metals called for in the Special Provision or shown on the Plans. Structural metals will include structural steel, rivet, welding, special and alloy steels, steel forgings and castings and iron castings. This work will also include any incidental metal construction not otherwise

provided for, all in accordance with these Specifications, Plans and Special Provisions.

Material to be used in this items shall be:

**Structural Steel Roof Truss** – Use Galvanized Iron Schedule 40 Pipes in all diameters.

**Structural Steel Purlins** – Use Purlin sizes shall be 125mm x 50mm x 20mm x 2.3mm C-Purlins. 100mm x 50mm x 6mm Unequal Angle Bar for the additional support for the Purlins.

**Metal Structure Accessories for U-Bolts** – Use U-Bolts shall be 25mm diam. (Grade 60).

**Metal Structure Accessories for Sagrods** – Use 12mm Plain Bar Sagrods (Grade 40).

**Metal Structure Accessories for Turnbuckle** – Use 16mm Turnbuckle (1.2t or higher Capacity).

**Metal Structure Accessories for Cross bracing** – Use 16 mm Standard Cross Bracing.

**Metal Structure Accessories for Steel Plates** – Use 15mm thick Steel Plates.

**Metal Structure Accessories for Railings (Stairs and Bench)** – Use Galvanized Iron 1 ½" Schedule 40 Pipes.

**Metal Structure Accessories for Lifeline** – Use 16mm Plain Bar with ¾" Steel Wire Rope.

**Metal Structure Accessories for Soffit Frame** – Use 1.5" x 1.5" x 2mm Angle Bar and 1.5" x 2mm Flat Bar.



NOMINAL SIZE		OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT Plain Ends		MAXIMUM TEST PRESSURE	
in	mm	in	mm	in	mm	lb/ft	kg/m	psi	kPa
½	15	0.840	21.3	0.109	2.77	0.85	1.27	700	4800
¾	20	1.050	26.7	0.113	2.87	1.13	1.69	700	4800
1	25	1.315	33.4	0.133	3.38	1.68	2.50	700	4800
1 ¼	32	1.660	42.2	0.140	3.56	2.27	3.39	1300	9000
1 ½	40	1.900	48.3	0.145	3.68	2.72	4.05	1300	9000
2	50	2.375	60.3	0.154	3.91	3.66	5.44	2500	17 200
2 ¼	65	2.875	73.0	0.203	5.16	5.80	8.63	2500	17 200
3	80	3.500	88.9	0.216	5.49	7.58	11.29	2500	17 200
4	100	4.500	114.3	0.237	6.02	10.80	16.07	2210	15 200
5	125	5.563	141.3	0.258	6.55	14.63	21.77	1950	13 400
6	150	6.625	168.3	0.280	7.11	18.99	28.26	1780	12 300
8	200	8.625	219.1	0.322	8.18	28.58	42.55	1570	10 800
10	250	10.750	273.0	0.365	9.27	40.52	60.29	1430	9900
12	300	12.750	323.8	0.406	10.31	53.57	79.70	1340	9200
14	350	14.000	355.6	0.438	11.13	63.50	94.55	1310	9000
16	400	16.000	406.4	0.500	12.70	82.85	123.30	1310	9000
18	450	18.000	457	0.562	14.27	104.76	155.87	1310	9000
20	500	20.000	508	0.594	15.09	123.23	183.42	1250	8600
24	600	24.000	610	0.688	17.48	171.45	255.24	1200	8300

Mechanical Properties (Schedule 40)	Dimension Tolerance
Yield Point: $\geq 240$ MPa (35 000 psi)	Weight: +10%, -3.5%
Tensile Point: $\geq 415$ MPa (60 000 psi)	Outside Diameter
Elongation : 17%-30%	40mm and Below : $\pm 0.40$ mm
	50mm and Above : $\pm 1\%$
	Wall Thickness : $\pm 12.50\%$

All threaded portion of the pipe shall be cut or removed before installation. All connected joints of the metal structures shall be welded full using welding rod **N-7018**.

Welding shall be carried out only by fully qualified welders as tested & approved by the Engineer. When welding is carried out on open air, steps shall be taken to protect the place of welding against wind or rain, the welding electrodes and parts being welded shall be dry. Before beginning the welding

operation, each jointing shall be checked to ensure the parts to be welded or clean and root gaps provided as IS: 823. The re-welding of the root is mandatory but only the metal deposits of the root have been cleaned by back gauging or chipping. The welding joints shall be left to cool slowly. The contractor shall not be allowed to cool the welds quickly by any other methods. For multilayer welding, before welding the following layer, the formerly welded layer shall be cleaned metal bright by light chipping & wire brushing. Packing strips shall not be allowed i.e. All slag shall be removed.

## **Fabrication**

These Specifications apply to riveted, bolted and welded construction. The Contractor may, however, with approval of the Engineer, substitute high tensile strength steel bolts equivalent to the rivets in any connection.

Workmanship and finish shall be in accordance with the best general practice in modern bridge shops. Portions of the work exposed to view shall be finished neatly. Shearing, flame cutting, and chipping shall be done carefully and accurately.

Structural material, either plain or fabricated, shall be stored above the ground upon platforms, skids or other supports. It shall be kept free from dirt, grease or other foreign matter, and shall be protected as far as practicable from corrosion.

Rolled material before being laid off or worked must be straight. If straightening is necessary, it shall be done by methods that will not injure the metal. Sharp kinks and bends will be cause for rejection of the material.

Preparation of material shall be in accordance with AWS (American Welding Society) D 1.1, paragraph 3.2 as modified by AASHTO Standard Specification for Welding of Structural Steel Highway Bridges.

## **Finishing and Shaping**

Finished members shall be true to line and free from twists, bends and open joints.

### **1. Edge Planing**

Sheared edges of plates more than 15.9 mm in thickness and carrying calculated stresses shall be planed to a depth of 6.3 mm. Re-entrant cuts shall be filleted before cutting.

### **2. Facing of Bearing Surfaces**

The surface finish of bearing and based plates and other bearing surfaces that are to come in contact with each other or with concrete shall meet

the American National Standards Institute surface roughness requirements as defined in ANSI B-46.1-47, Surface Roughness Waviness and Lay, Part I:

2,000	Steel Slabs	ANSI
1,000	Heavy plates in contact in shoes to be welded	ANSI
	Milled ends of compression members, stiffeners and fillers ANSI 500	
	Bridge rollers and rockers	ANSI 250
	Pins and pin holes	ANSI 125
	Sliding bearings	ANSI 125

### 3. Abutting Joints

Abutting joints in compression members and girders flanges, and in tension members where so specified on the drawings, shall be faced and brought to an even bearing. Where joints are not faced, the opening shall not exceed 6.3 mm.

### 4. End Connection Angles

Floor beams, stringers and girders having end connection angles shall be built to plan length back to back of connection angles with a permissible tolerance of 0 mm to minus 1.6 mm. If end connections are faced, the finished thickness of the angles shall not be less than that shown on the detail drawings, but in no case less than 9.5 mm.

### 5. Lacing Bars

The ends of lacing bars shall be neatly rounded unless another form is required.

### 6. Fabrication of Members

Unless otherwise shown on the Plans, steel plates for main members and splice plates for flanges and main tension members, not secondary members, shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

Fabricated members shall be true to line and free from twists, bends and open joints.

### 7. Web Plates (Riveted or Bolted)

In girders having no cover plates and not to be encased in concrete, the top edges of the web shall not extend above the backs of the flange angles and shall not be more than 3.2 mm below at any point. Any portion of the plate projection beyond the angles shall be chipped flush with the backs of the angles. Web plates of girders having cover plates may not be more than 12.7 mm less in width than the distance back to back of flange angles.

Splices in webs of girders without cover plates shall be sealed on top with red lead paste prior to painting.

At web splices, the clearance between the ends of the plates shall not exceed 9.5 mm. The clearance at the top and bottom ends of the web splice plates shall not exceed 6.3 mm.

## 8. Bent Plates

Cold-bent load-carrying rolled-steel plates shall conform to the following:

a. They shall be so taken from the stock plates that the bendline will be at right angles to the direction of rolling, except that cold-bent ribs for orthotropic deck bridges may be bent in the direction of rolling if permitted by the Engineer.

b. The radius of bends shall be such that no cracking of the plate occurs. Minimum bend radii, measured to the concave face of the metal, are shown in the DPWH Blue Book table (page 172 of Volume 2).

It is recommended that steel in this thickness range be bent hot. Hot bending however, may result in a slight decrease in the as-rolled mechanical properties.

The mechanical properties of ASTM A 514 steel results from a quench-andtemper-operation. Hot bending may adversely affect these mechanical properties. If necessary to hotbend, fabricator should discuss procedure with steel supplier.

c. Before bending, the corners of the plate be rounded to a radius of 1.6 mm throughout that portion of the plate where the bending is to occur.

## 9. Fit of Stiffeners

End stiffeners of girders and stiffeners intended as supports for concentrated loads shall have full bearing (either milled, ground or on weldable steel in compression areas of flanges, welded as shown on the Plans or specified) on the flanges to which they transmit load or from which they receive load. Stiffeners not intended to support concentrated loads shall, unless shown or specified otherwise, fit sufficiently tight to exclude water after being painted, except that for welded flexural members, the ends of stiffeners adjacent to the tension flanges shall be cut back as shown on the Plans. Fillers under stiffeners shall fit within 6.3 mm at each end.

Welding will be permitted in lieu of milling or grinding if noted on the Plans or in the Special Provisions. Brackets, clips, gussets, stiffeners, and other detail material shall not be welded to members or parts subjected to tensile stress unless approved by the Engineer.

## 10. Eyebars

Pin holes may be flame cut at least 50.8 mm smaller in diameter than the finished pin diameter. All eyebars that are to be placed side by side in the structure shall be securely fastened together in the order that they will be placed on the pin and bored at both ends while so clamped. Eyebars shall be packed and matchmarked for shipment and erection. All identifying marks shall be stamped with steel stencils on the edge of one head of each member after fabrication is completed so as to be visible when the bars are nested in place on the structure. The eyebars shall be straight and free from twists and the pin holes shall be accurately located on the centerline of the

bar. The inclination of any bar to the plane of the truss shall not exceed 1.6 mm to 305 mm.

The edges of eyebars that lie between the transverse centerline of their pin holes shall be cut simultaneously with two mechanically operated torches abreast of each other, guided by a substantial template, in such a manner as to prevent distortion of the plates.

#### 11. Annealing and Stress Relieving

Structural members which are indicated in the Contract to be annealed or normalized shall have finished machining, boring and straightening done subsequent to heat treatment. Normalizing and annealing (full annealing) shall be in accordance with ASTM E 44. The temperatures shall be maintained uniformly throughout the furnace during heating and cooling so that the temperature at no two points on the member will differ by more than 37.80C at any one time.

Members of A514/A517 steels shall not be annealed or normalized and shall be stress relieved only with the approval of the Engineer.

A record of each furnace charge shall identify the pieces in the charge and show the temperatures and schedule actually used. Proper instruments including recording pyrometers, shall be provided for determining at any time the temperatures of members in the furnace. The records of the treatment operation shall be available to and meet the approval of the Engineer.

Members, such as bridge shoes, pedestals, or others which are built up by welding sections of plate together shall be stress relieved in accordance with the **provisions in "Welding" when required by the Plans, Specifications or Special Provisions** governing the Contract.

#### 12. Tests

When full size tests of fabricated structural members or eyebars are required by the Contract, the Plans or Specifications will state the number and nature of the tests, the results to be attained and the measurements of strength, deformation or other performances that are to be made. The Contractor will provide suitable facilities, material, supervision and labor necessary for making and recording the tests. The members tested in accordance with the Contract will be paid for in accordance with **"Pins and Rollers"**. The cost of testing, including equipment handling, supervision labor and incidentals for making the test shall be included in the contract price for the fabrication or fabrication and erection of structural steel, whichever is the applicable item in the Contract, unless otherwise specified.

#### **Fastener Holes (Rivets and Bolts)**

All holes for rivets or bolts shall be either punched or drilled. Material forming parts or a member composed of not more than five thickness of metal may be punched 1.6 mm larger than the nominal diameter of the rivets or bolts whenever the thickness of the material is not greater than 19 mm for structural steel, 15.9 mm for high-strength steel or 12.7 mm for quenched and tempered alloy steel, unless subpunching and reaming is required for field connections.

When there are more than five thicknesses or when any of the main material is thicker than 19 mm for structural steel, 15.9 mm for high-strength steel, or 12.7 mm for quenched and tempered alloy steel, all holes shall either be subdrilled or drilled full size.

When required for field connections, all holes shall either be subpunched or subdrilled (subdrilled if thickness limitation governs) 4.8 mm smaller and, after

assembling, reamed 1.6 mm larger or drilled full size 1.6 mm larger than the nominal diameter of the rivets or bolts.

When permitted by design criteria, enlarged or slotted holes are allowed with high-strength bolts. For punched holes, the diameter of the die shall not exceed the diameter of the punch by more than 1.6 mm. If any holes must be enlarged to admit the fasteners, they shall be reamed. Holes shall be clean cut, without torn or ragged edges. Poor matching of holes will be cause for rejection.

Reamed holes shall be cylindrical, perpendicular to the member, and not more than 1.6 mm larger than the nominal diameter of the fasteners. Where practicable, reamers shall be directed by mechanical means. Drilled holes shall be 1.6 mm larger than the nominal diameter of the fasteners. Burrs on the outside surfaces shall be removed. Poor matching of holes will be cause for rejection. Reaming and drilling shall be done with twist drills. If required by the Engineer, assembled parts shall be taken apart for removal of burrs caused by drilling. Connecting parts requiring reamed or drilled holes shall be assembled and securely held while being reamed or drilled and shall be matchmarked before disassembling.

Unless otherwise specified, holes for all field connections and field splices of main truss or arch members, continuous beams, towers (each face), bents, plate girders and rigid frames shall be subpunched (or subdrilled if subdrilling is required) and subsequently reamed while assembled in the shop in accordance with Subsection 403.3.7.

All holes for floor-beam and stringer field end connections shall be subpunched and reamed to a steel template reamed while being assembled.

Reaming or drilling full size of field connection through templates shall be done after templates have been located with the utmost care as to position and angle and firmly bolted in place. Templates used for the reaming of matching members, or of the opposite faces of one member, shall be exact duplicated. Templates for connections which duplicate shall be so accurately located that like members are duplicates and require no matchmarking.

If additional subpunching and reaming is required, it will be specified in the Special Provisions or on the Plans.

Alternately, for any field connection or splice designated above in lieu of sub-sized holes and reaming while assembled, or drilling holes full-size while assembled, the Contractor shall have the option to drill bolt holes full-size in unassembled pieces and/or connections including templates for use with matching sub-sized and reamed holes means of suitable numerically-controlled (N/C) drilling equipment subject to the specific provisions contained in this Subsection.

If N/C drilling equipment is used, the Engineer, unless otherwise stated in the Special Provisions or on the Plans, may require the Contractor, by means of check assemblies to demonstrate that this drilling procedure consistently produces holes and connections meeting the requirements of conventional procedures.

The Contractor shall submit to the Engineer for approval a detailed outline of the procedures that he proposes to follow in accomplishing the work from initial drilling through check assembly, if required, to include the specific members of the structure that may be N/C drilled, the sizes of the holes, the location of common index and other reference points, composition of check assemblies and all other pertinent information.

Holes drilled by N/C drilling equipment shall be drilled to appropriate size either through individual pieces, or any combination of pieces held tightly together.

All holes punched full size, subpunched or subdrilled shall be so accurately punched that after assembling (before any reaming is done), a cylindrical pin 3.2 mm

smaller in diameter than the nominal size of the punched hole may be entered perpendicular to the face of the member, without drifting, in at least 75 percent of the contiguous holes in the same plane. If the requirement is not fulfilled, the badly punched pieces will be rejected. If any hole will not pass a pin 4.8 mm smaller in diameter than the nominal size of the punched holes, this will cause for rejection.

When holes are reamed or drilled, 85 percent of the holes in any continuous group shall, after reaming or drilling, show no offset greater than 0.8 mm between adjacent thickness of metal.

All steel templates shall have hardened steel bushings in holes accurately dimensioned from the center lines if the connections as inscribed on the template. The center lines shall be used in locating accurately the template from the milled or scribed ends of the members.

Payment will be made in accordance with the Bill of Quantities

### **ITEM C.13. – ITEM C.15. – PRE-PAINTED ROOFING SHEETS AND ACCESSORIES**

Pre-painted roofing sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability. It shall conform to the material requirements defined in PNS 67: 1985. Profile section in identifying the architectural moulded rib to be used are as follows: Regular corrugated, Quad-rib, Tri-wave, Rib-wide, twin-rib, etc. Desired color shall be subject to the approval of the Architect/Engineer.

Materials to be used in this Items shall be:

**Prepainted Metal Sheet** – Use 0.500 mm thk., Rib type, Long Span.

**Fabricated Metal Roofing Accessory (Metal Fascia)** – Use 185mm x 35mm x 0.5mm thk.

**Fabricated Metal Roofing Accessory (Spandrel)** – Use 6" wide x 0.500mm thk. Perforated Metal Spandrel.

**Fabricated Metal Roofing Accessory (Gutter)** – Use Prepainted 24" Spanish Gutter 0.500mm thk.

**Fabricated Metal Roofing Accessory (Downspout)** – Use 3" PVC Pipe (S1000).

### **Construction Requirements**

Before any installation work is commenced, the Contractor shall ascertain that the top faces of the purlins are in proper alignment. Correct the alignment as necessary in order to have the top faces of the purlins on an even plane.

### **Handling/Lifting/Positioning of Sheets**

Sheets shall be handled carefully to prevent damage to the paint coating. Lift all sheets or sheet packs on to the roof frame with the overlapping downturned edge facing towards the side of the roof where installation will commence, otherwise sheets will have to be turned end-to-end during installation.

### **Installation Procedure**

Start roofing installation by placing the first sheet in position with the downturned edge in line with other building elements and fastened to supports as recommended.

Place the downturned edge of the next sheet over the edge of the first sheet, to provide side lap and hold the side lap firmly in place. Continue the same procedure for subsequent sheets until the whole roofing area is covered and/or (Adopt installation procedure provided in the instruction manual for each type of Architectural molded rib profile section).

For walling applications follow the procedure for roofing. Allow a **minimum end lap of 100 mm (4") for vertical walling.**

### **Gutters, Valleys, Flashing ridge and Hip rolls**

Gutters, valleys, flashing ridge and hip rolls shall be fastened where indicated on the Plans by self-tapping screws or galvanized iron straps and rivets.

### **End Laps**

In case handling or transport consideration requires to use two or more end lapped sheets to provide full length coverage for the roof run, install each line of sheets from bottom to top or from eave line to apex of roof framing. Provide 150 mm minimum end lap.

### **Anchorage/Fastening**

Pre-painted steel roofing sheets shall be fastened to the wood purlins with standard length G.I. straps and rivets.

For steel frame up to 4.5 mm thick use self-drilling screw No. 12 by 35 mm long hexagonal head with neoprene washer.

For steel support up to 5 mm thick or more use thread cutting screw No. 12 by 40 mm long hexagonal head with neoprene washer.

Side lap fastener use self-drilling screw NO.10 by 16 mm long hexagonal head with neoprene washer.



Valley fastened to lumber and for walling use self-drilling wood screw No. 12 by 25 mm long hexagonal head with neoprene washer.

Valleys fastened to steel supports use self-drilling screws, hexagonal head with neoprene washer. Drill size is 5 mm diameter.

### **Cutting of Sheets**

In cutting pre painted steel roofing sheets and accessories to place the exposed color side down. Cutting shall be carried out on the ground and not over the top of other painted roofing product.

Power cutting or drilling to be done or carried out on pre-painted products already installed or laid in position, the area around holes or cuts shall be masked to shield the paint from hot fillings.

### **Storage and Protection**

Pre-painted steel roofing, walling products and accessories should be delivered to the jobsite in strapped bundles. Sheets and/or bundles shall be neatly stacked in the ground and if left in the open it shall be protected by covering the stack materials with loose tarpaulin.

Payment will be made in accordance with the Bill of Quantities

### **ITEM C.16. – THERMAL INSULATION WITH WIRE MESH**

This item shall consist of the installation of thermal insulation with wire mesh in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Insulation Foam – 10mm 2 sided insulation foam installed in the roof.
- Wire Mesh – **Hot dipped galvanized welded wire mesh 1" x 1" (Gauge #19).**

### **ITEM D.11. – CARPENTRY (Cubicle/Partition of Water Closet/Urinals)**

This item shall consist of the installation of bathroom partition/cubicle walls in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- **3/4" x 4' x 8' Phenolic Board**
- **3" x 3" x 2mm Ball Bearing Stainless Steel Hinge**

- Stainless Steel Bathroom Toilet Privacy Bolt Door Lock with Vacant Engaged Indicator
- Stainless Steel Bathroom Partition Board Support Feet
- 65mm x 65mm Stainless Steel L Shaped Angle Bracket
- **1/2" Security Screws, Tamper Proof Fasteners and Bits**

**ITEM D.12. – OPERABLE WALL WITH SOUND PROOFING SYSTEM**

This item shall consist of the installation of Operable Wall with Sound Proofing System in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 60mm thick panels
- Extruded Aluminum Powder Coated
- Quick setting type retractable top and bottom sealing
- 3mm thick steel rail track with 4WR or Glider wheel assembly suspension system
- Manually operated
- Melamine Finish
- 28-32 STC Sound Abatement
- High density fiber glass insulation using 2 PCF x 50mm thk.

**ITEM D.19. – DOORS (Aluminum Glass Door – Sliding and Swing Type)**

This item shall consist of the installation of Aluminum Glass Doors in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Aluminum – Powder Coated Finish
- Glass – 8mm Tempered Glass

**ITEM D.20. and ITEM D.22. – (uPVC Glass Door and Windows – Sliding and Swing Type)**

This item shall consist of the installation of uPVC Glass Doors and Windows in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- PVC – uPVC Finish (White)
- Glass – 8mm Tempered Glass

**ITEM D.21. – DOORS (Fire Rated Fire Exit Steel Door)**

This item shall consist of the installation of Fire Rated Doors in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Fire Rated Fire Exit Steel Door (90 x 210) (gauge 18 – 44mm thk.)
- **2" x 4" Door Jamb (gauge 16 – 1.5hrs Fire Rate)**
- With Panic Device
- Single Lever Lock
- Hinges and Fire Rated Filler

**ITEM D.24. – BLEACHERS**

This item shall consist of the construction of Bleachers in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 500mm wide x 50mm thick Wood Tanguile Plank
- Paint finish with varnish

**ITEM D.25. – FOLDABLE DIAPER CHANGING STATION (Wall Mounted)**

This item shall consist of the installation of Foldable Diaper Changing Station in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 50lbs. Weight Capacity
- Built-in Shelf and Liner, Mounting Kit Included
- Meets Global Safety Standards
- Easy-reach Hooks for Bags and Purse

## **ITEM E.2. – WATERLINE FIXTURES (with 2-Water Heater)**

This item shall consist of the installation of Waterline Fixtures in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Faucets (for mop sink) – Stainless 2 in 1 Head Washing Machine Faucet (2 Revolving Knob for 2-way Water out)
- Shower Water Heater – 3.5kW, Wattage Control, Single Water Filter Mesh, Built-in ELCB, Thermal Cut-out Flow Sensor, Flow Sensor, Splash-proof

## **ITEM E.4. – WATER CLOSET (with Complete Fittings and Accessories)**

This item shall consist of the installation of Waterline Fixtures in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Water Closet – L700 x W370 x H707 mm, Rough-in: 305mm, Water Consumption: 3/6 LPF, Siphon Jet Flushing System
- Bidet – Stainless Steel Bidet Spray, 1/2" **Standard Inlet, High Pressure, heat Resistant**

## **ITEM E.5. – URINAL (with Complete Fittings and Accessories)**

This item shall consist of the installation of Waterline Fixtures in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 335mm x 290mm x 480mm, Top Inlet, Wall hung, Vitreous China - Grade A

## **ITEM E.6. – COUNTERTOP LAVATORY (with Complete Fittings and Accessories)**

This item shall consist of the installation of Waterline Fixtures in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Lavatory – 506mm x 300mm x 180mm, 28mm Faucet Hole, Vitreous China - Grade A
- Faucet – Stainless Steel Basin Single Cold Water Faucet, High Pressure Resistant, Explosion Proof

### **ITEM E.7. – FLOOR DRAIN (with Complete Fittings and Accessories)**

This item shall consist of the installation of Waterline Fixtures in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- **4" x 4" Stainless Steel Deodorant and Anti-Blocking Floor Drain** (Insect/Mice Proof, Blocks Foul Smells)

### **ITEM F.2. – GYM LIGHTS**

This item shall consist of the installation of Gym Lights in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Flood Lamp
- Electrodeless Fluorescent Lamp
- 300W
- AC 100-300V
- 60Hz
- PF: >0.95
- Luminance: 24000lm
- IP65
- 6500K
- CRI: >80
- Net wt.: 8.91kg
- Principal Frequency: 230kHz
- Long-time use will not cause eye fatigue or injury

#### **ITEM F.4. – GENSET 60kVA (with complete accessories)**

This item shall consist of the installation of Genset in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 60kVA Brand New Genset
- Standby
- Silent Type
- Class Rating: Continuous
- Voltage: 220V
- Exciting Method: Brushless (with A.V.R.)
- Engine: 4B3.9-G2
- Phase 3
- Type: 4 cycle
- 4-cylinder diesel
- Fuel Tank Capacity: 400L
- Consumption: 75% Load-10.5 L/h
- PF: 0.8
- Sound Power Level in Decibels: 89dB
- With 1 set of ATS, 42AEB-N5, 160A, 4P, 220Vac

#### **ITEM G.1. – SOUND SYSTEM**

This item shall consist of the installation of Sound System in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 600 watts Variable Dispersion Line Array speaker with adjustable angle to 60, 45, 30 and 15 degrees
- LA4 Line Array, 300 watts unpowered speaker, mounts on a speaker stand, Subwoofer, 700W 18" Powered Subwoofer, LF Driver Size:1 x 18" EVS-18K subwoofer, Total Power:700W Class D, Inputs:1 x XLR-1/4" combo, Outputs:1 x XLR, Frequency Response:42Hz-100Hz (-3 dB), 32Hz-130Hz (-10 dB), Crossover Frequency:100Hz, Maximum Peak SPL:134 dB SPL, Mounting Options: Floor, Power Source: Standard IEC AC cable, Enclosure Material:9-ply 15mm plywood with textured paint and 18 gauge steel grille, Height:26", Width:19.9", Depth:22.6", Weight:69 lbs.

- Professional 750W stereo power amplifier, - a stereo power amplifier which is capable of delivering 200W into 8 Ohm loads, or 400W into 4 Ohm loads. In bridged-mono mode, it can reach an output power of 750W. The amplifier features Behringer's ATR technology, which is designed to preserve a quick, tight transient response even at high volume levels, - 2 x 200W into 8 Ohms, - 750 Watts into 8 Ohms (bridged mono mode), - ATR (Accelerated Transient Response) technology for punch and clarity, - Switchable limiters offer maximum output level with reliable overload protection, - Power, signal and clip LEDs to monitor performance, - XLR, 1/4" TRS, and RCA input connectors, - Professional speaker connectors and touch-proof binding posts, - Independent DC and short circuit protection on each channel automatically protects amplifier and speakers, - High-current toroidal transformer for high transient response, - Active cooling on heatsink, - Impact-resistant, all-steel 2U rackmount chassis
- 24-Channel Analog Mixing Console with DSP Effects, - 16 D-Pre Mic Preamps with Phantom Power, - 24 Line Inputs, 6 AUX, & 2 FX Sends, - iPhone/iPod Control & Connectivity, - Record to USB Storage as WAV or MP3, - The 24-Channel Analog Mixing Console with DSP Effects is a 24-track analog mixer with digital control and features 16 D-Pre microphone preamps, 24 line inputs, 6 auxiliary inputs, and 2 effects sends. It is designed for use in live sound environments

### **ITEM H.1. – BASKETBALL ACCESSORIES (Basketball Hoops)**

This item shall consist of the installation of Sports Accessories in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Movable, 3.5' x 6' x 12mm Tempered Glass Board (FIBA Standard), Frame of Board Aluminum Tubular Frame, Post made of 4" G.I. Pipe and/or 4" x 4" Tubular, 2" Black Board Linings, Base Made of 3x3 Angular Steel, 4 Caster Wheel with Lock, 18" Heavy Duty Snapback Ring with Net, with 3" Foam Cushion Around

### **ITEM H.2. – VOLLEYBALL ACCESSORIES**

This item shall consist of the installation of Sports Accessories in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Floor Sleeve (For Volleyball Pole) – **3" diam. X 10" Deep (Brass Material)**
- Volleyball Net – Official Volleyball Net with Ropes (9.5m x 1m – Polyethylene Material)

### **ITEM H.3. – BADMINTON ACCESSORIES**

This item shall consist of the installation of Sports Accessories in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Badminton Net – Official Badminton Net with Ropes (6.1m x 0.76m – Cotton, Polypropylene, Nylon, Nylon Rope)

### **ITEM H.4. – COURT COVER (Tarpaulin "Trapal" Lona)**

This item shall consist of the installation of Sports Accessories in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Court Cover – **614sq.m. Tarpaulin "Trapal" Lona (S200 – 0.6mm)**

### **ITEM H.5. – SCORE BOARD (with complete accessories)**

This item shall consist of the installation of Sports Accessories in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Main Score Board - 4' x 8' x 3", 2 units Shot Clock - 24" x 28" (wireless Connection to main display), 1-unit Wireless/Wired Control Keyboard, 1-unit Automatic Air Horn System
- Displays (Main) 1-unit: Team Name, Game Clock (mins., sec.), Team Scores, Periods/Quarters, Fouls, Time Outs, Ball Possession
- Displays (Shot Clock) 2-unit: Game Clock (mins., sec.), Shot Clock



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

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



PEZA

Republic of the Philippines  
Philippine Economic Zone Authority  
**Baguio City Economic Zone**  
LOAKAN ROAD, BAGUIO CITY

CY 2021 PROJECT

**Proposed BCEZ Multi - Purpose Center**

LOAKAN ROAD, BAGUIO CITY

PREPARED BY:

\_\_\_\_\_  
ANJEE ANNE D. MONTERO

ESO II / Architect

date:

\_\_\_\_\_  
JC KING B. MANANSALA

ESO II / Civil Engineer

date:

\_\_\_\_\_  
HENCIO G. BALINGGAN

ENGINEER III / Electrical Engineer

date:

\_\_\_\_\_  
MARVIN L. CASEO

ESO II / Electronics Engineer

date:

CHECKED BY:

\_\_\_\_\_  
JOSEPH C. GALONG

OIC - DIVISION CHIEF,  
ENGINEERING AND MAINTENANCE DIVISION

date:

RECOMMENDING APPROVAL:

\_\_\_\_\_  
PAUL M. CODAMON

OIC - DEPARTMENT MANAGER, OPERATIONS

date:

APPROVED BY :

\_\_\_\_\_  
ATTY. ROSS VINCENT S. SY

OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

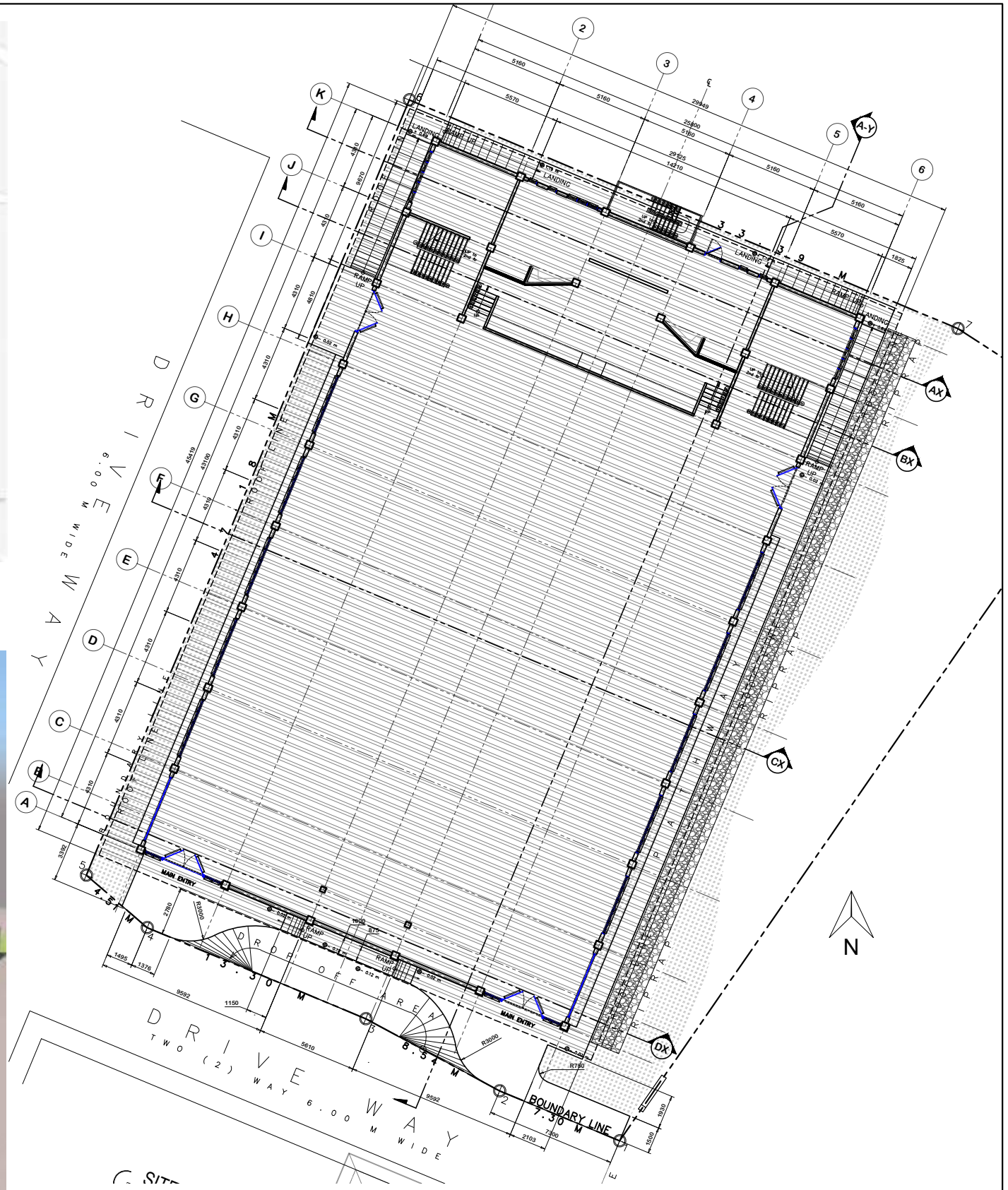
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VICINITY MAP  
SCALE NTS



PERSPECTIVE  
SCALE NTS



SITE DEVELOPMENT PLAN  
SCALE 1:30 M



PROJECT TITLE:	PROPOSED BCEZ MULTI-PURPOSE CENTER
LOCATION:	LOAKAN, BAGUIO CITY

PREPARED BY:	ANJEE ANNE MONTERO ESO II / Architect
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CHECKED BY:	JOSEPH C. GALONG DIVISION CHIEF, EMD
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RECOMMENDING APPROVAL BY:	PAUL M. CODAMON OIC - DEPARTMENT MANAGER, OPERATIONS
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APPROVED BY:	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ
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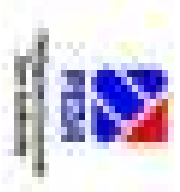
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**LOAKAN, BAGUIO CITY**

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**ANJEE ANNE MONTERO**  
ESD II / Architect

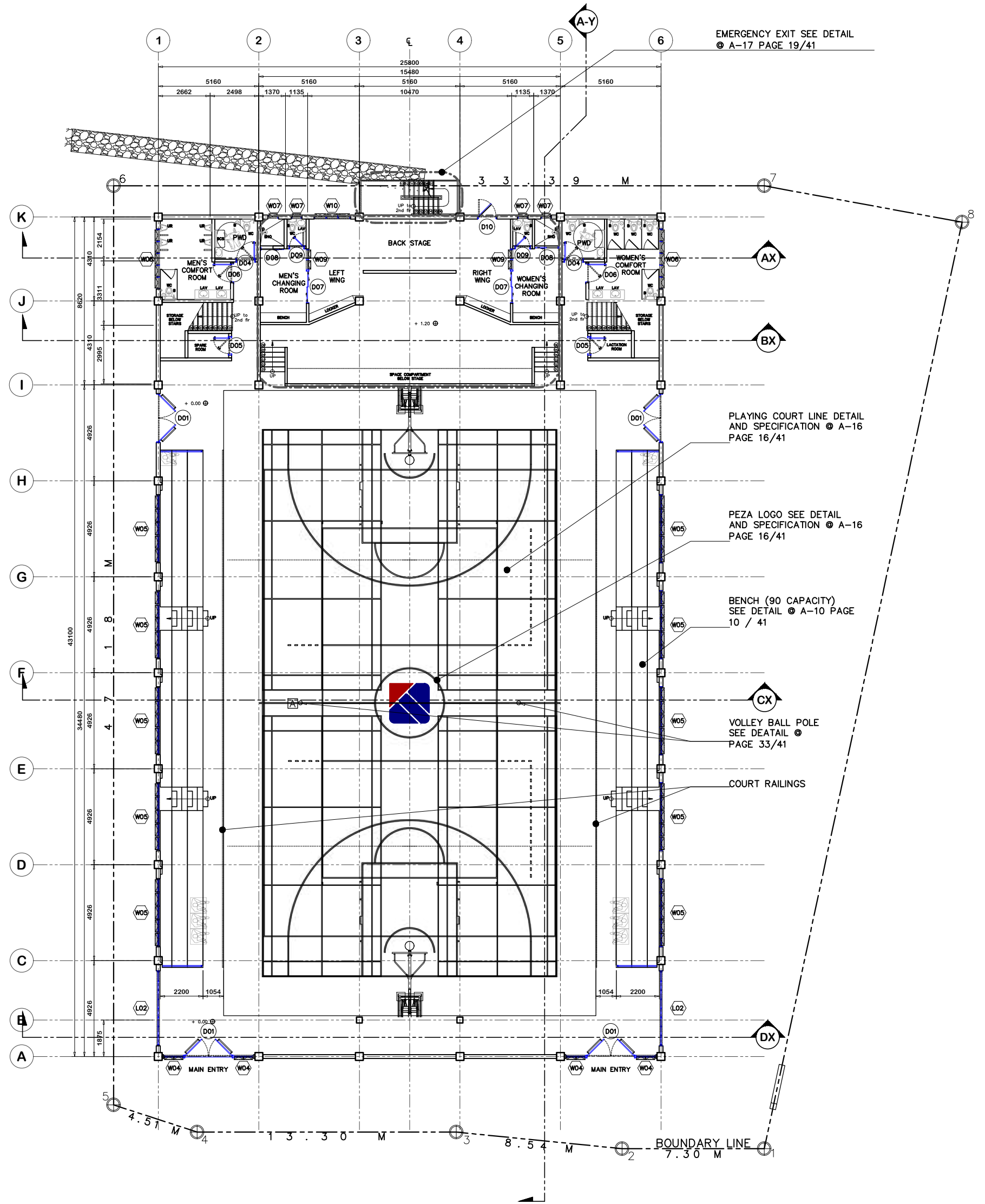
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DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY:  
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DEPARTMENT MANAGER, OPERATIONS

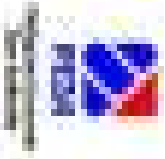
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**ATTY. ROSS VINCENT S. SY**  
OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

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**41**  
**03 08-31-2021**



**GROUND FLOOR PLAN**  
SCALE 1:200 M



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**ANJEE ANNE MONTERO**  
ESD II / Architect

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DIVISION CHIEF, EMD

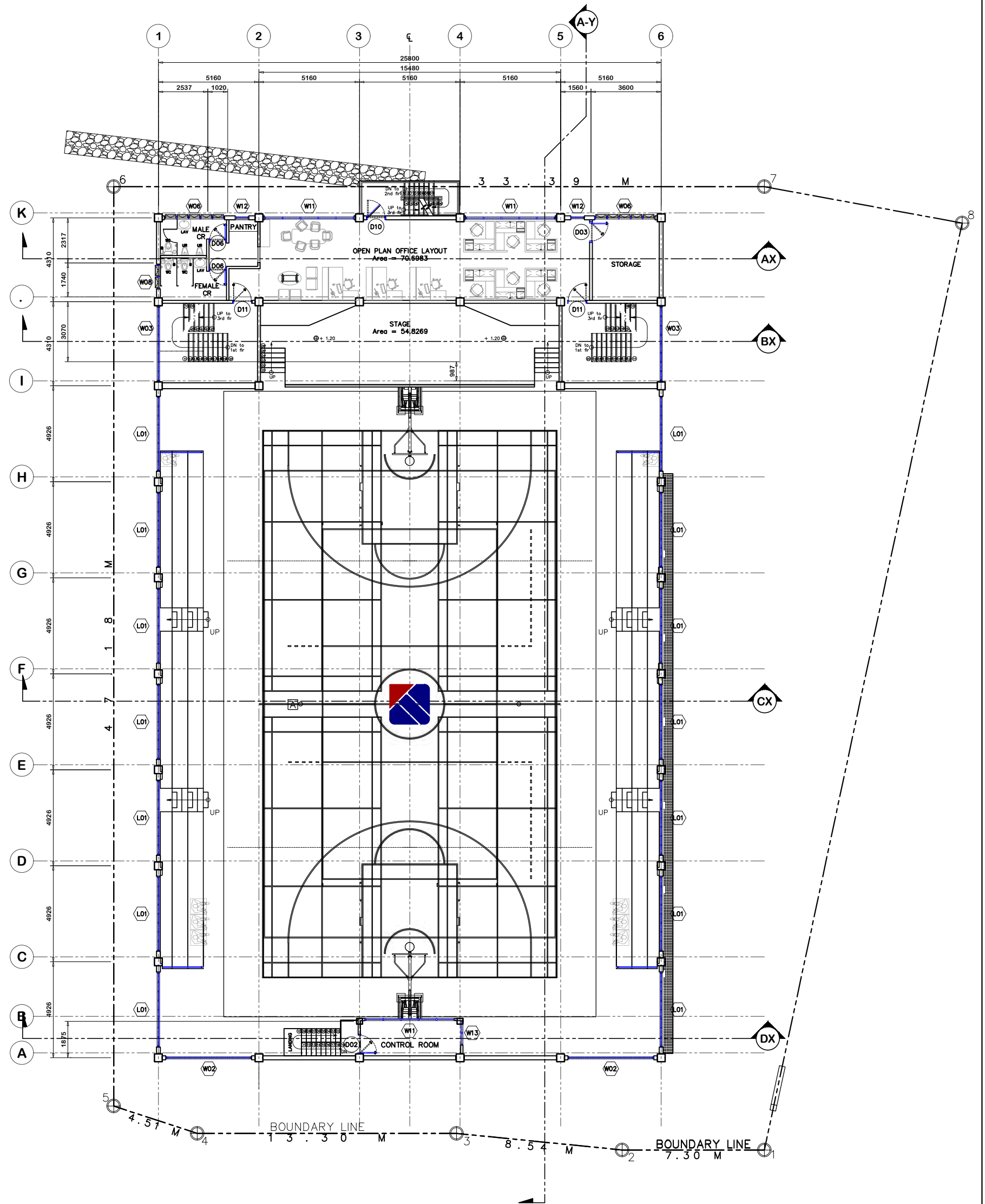
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DEPARTMENT MANAGER, OPERATIONS

APPROVED BY:  
**ATTY. ROSS VINCENT S. SY**  
OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

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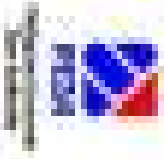
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**03/08-31-2021**



**SECOND FLOOR PLAN**  
SCALE 1:200M





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ESD II / Architect

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DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY:  
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DEPARTMENT MANAGER, OPERATIONS

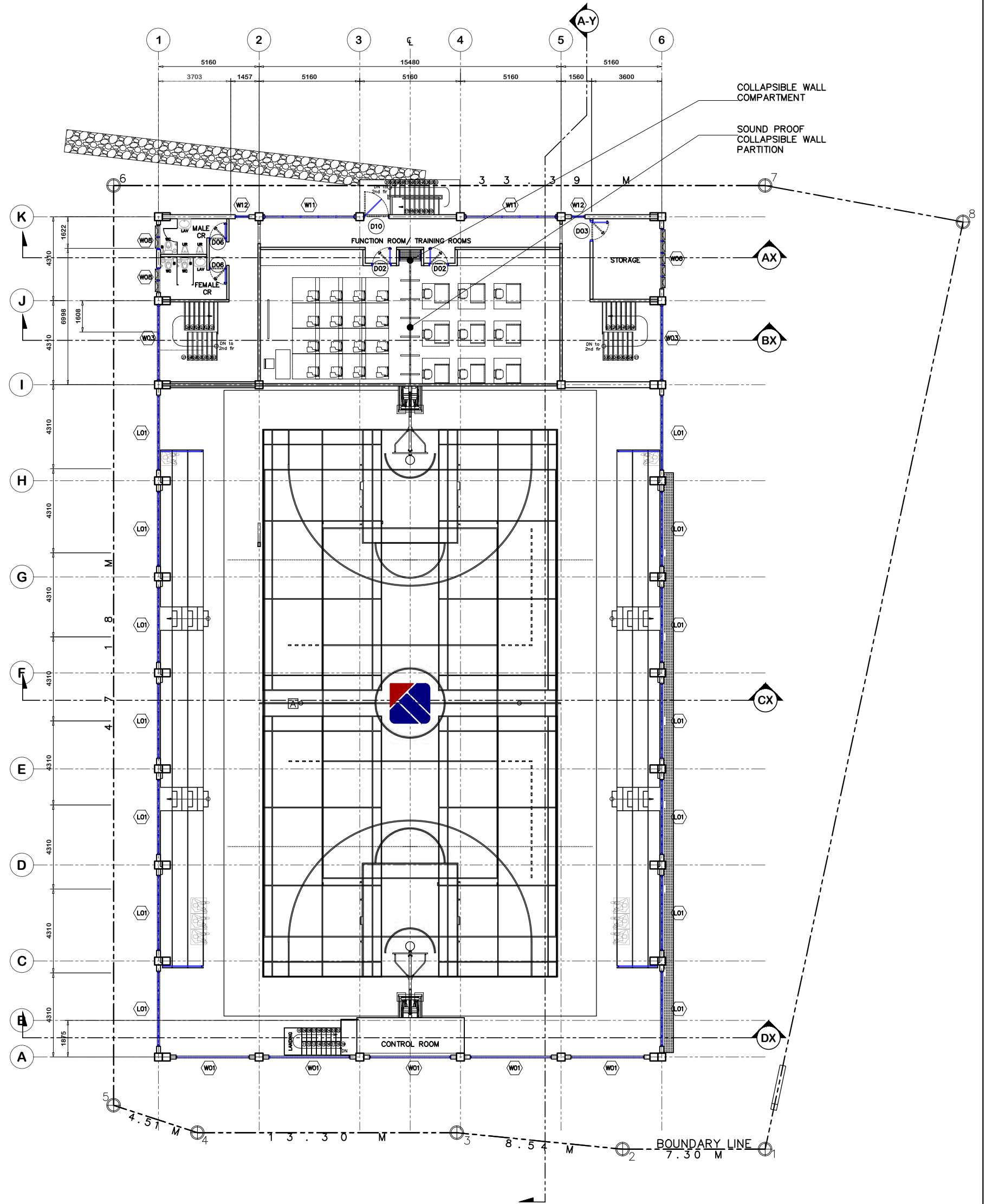
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**ATTY. ROSS VINCENT S. SY**  
OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

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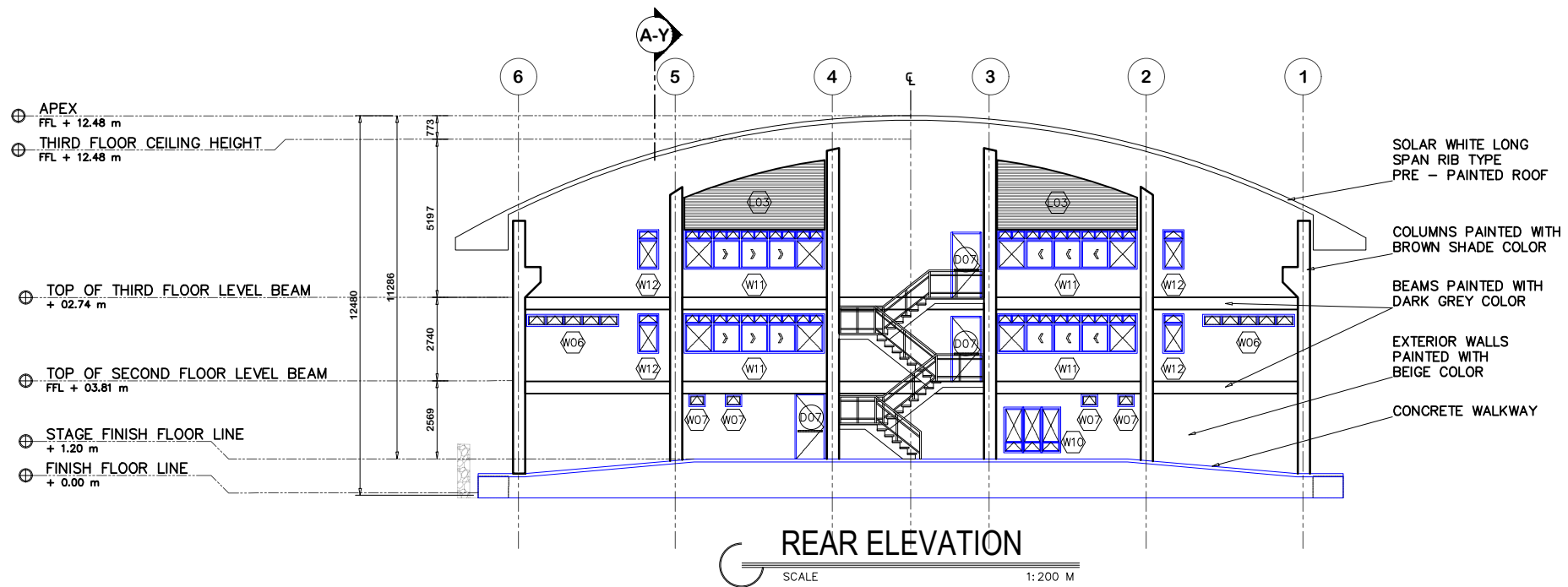
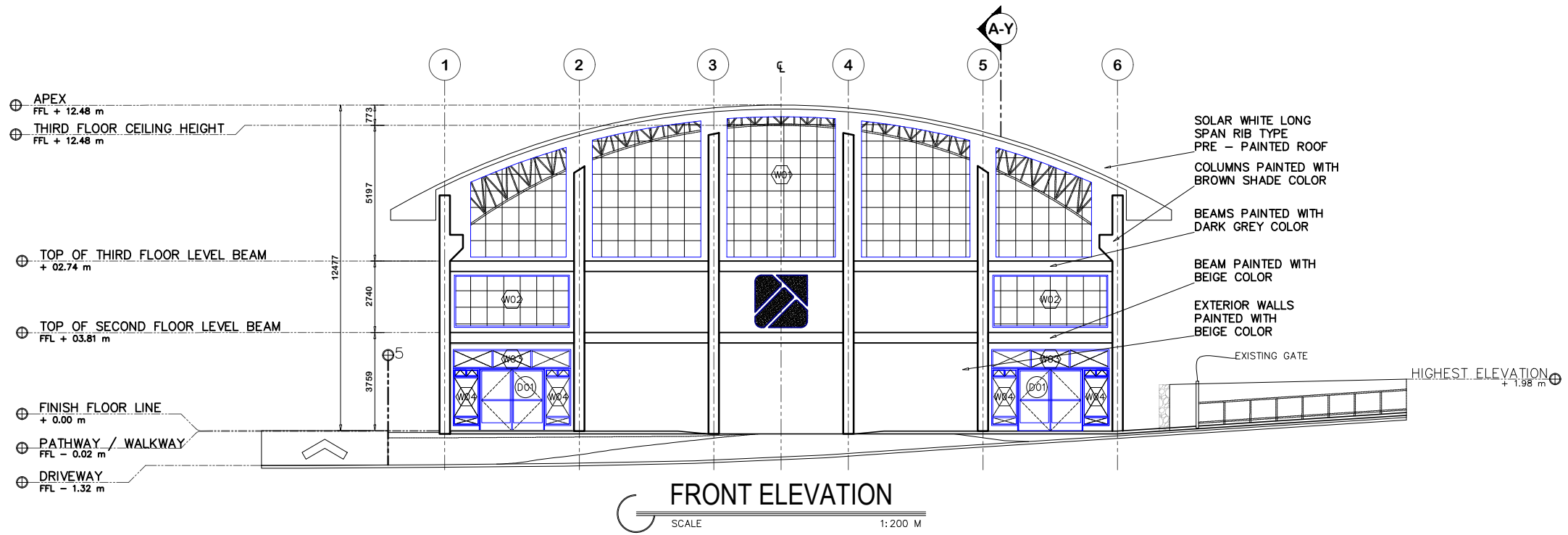
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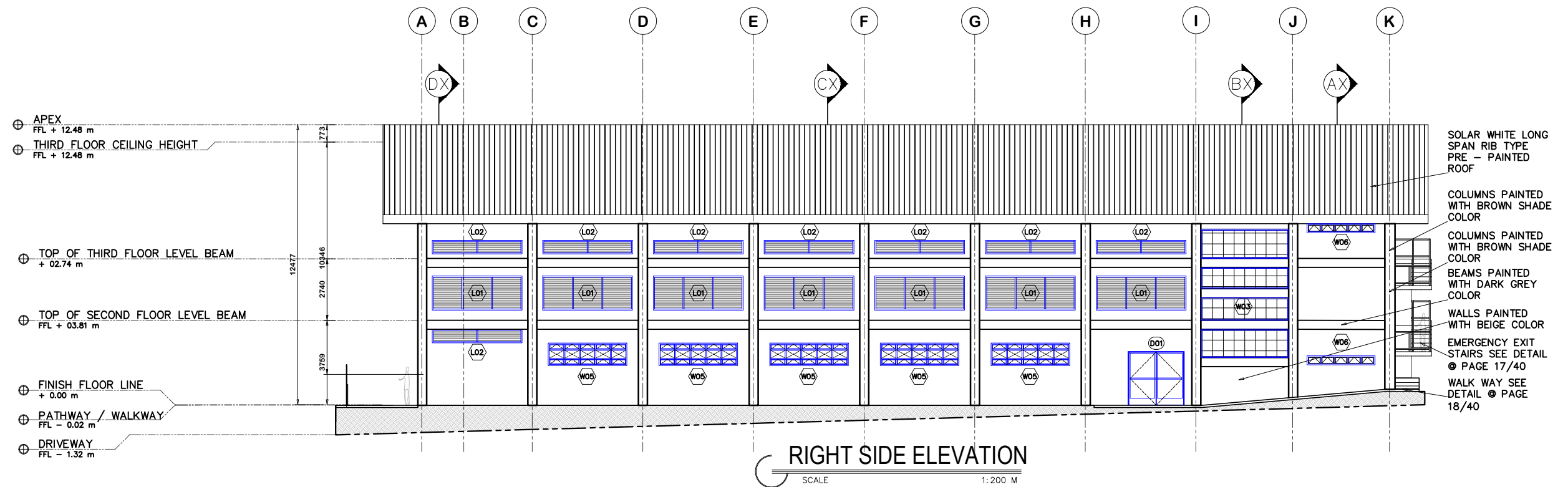
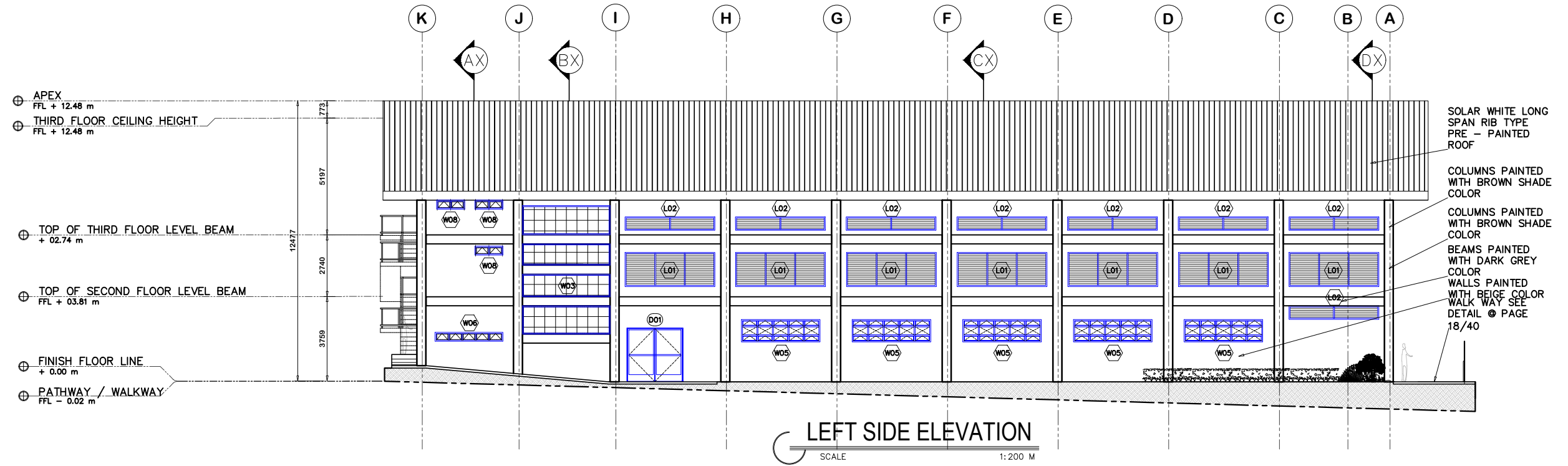
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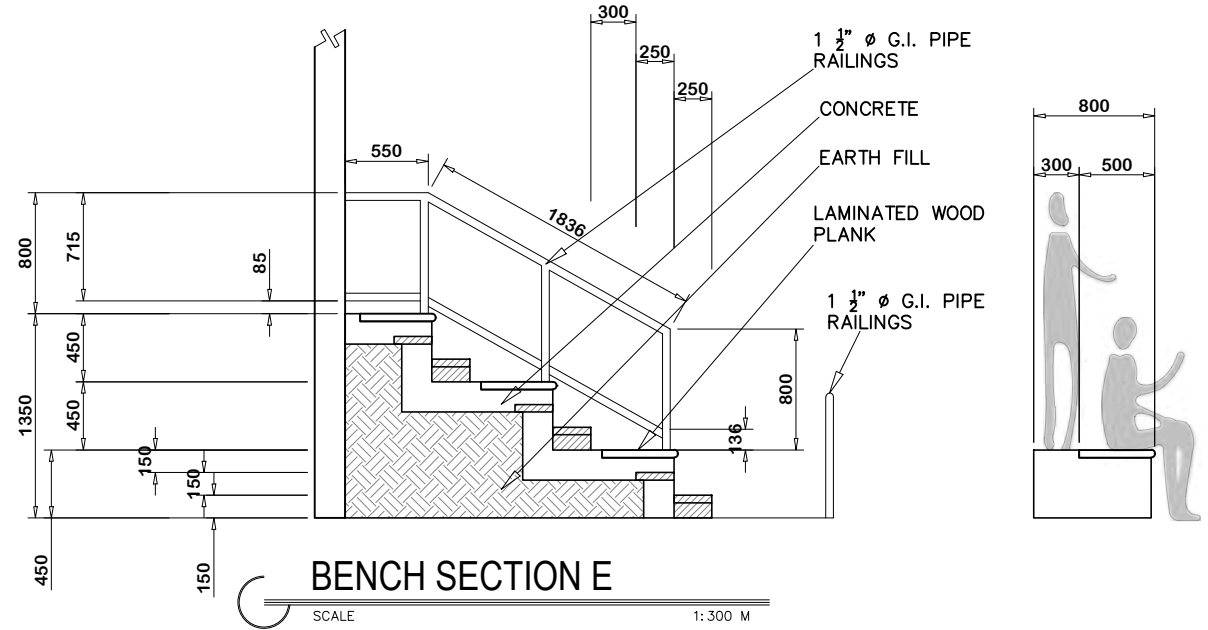
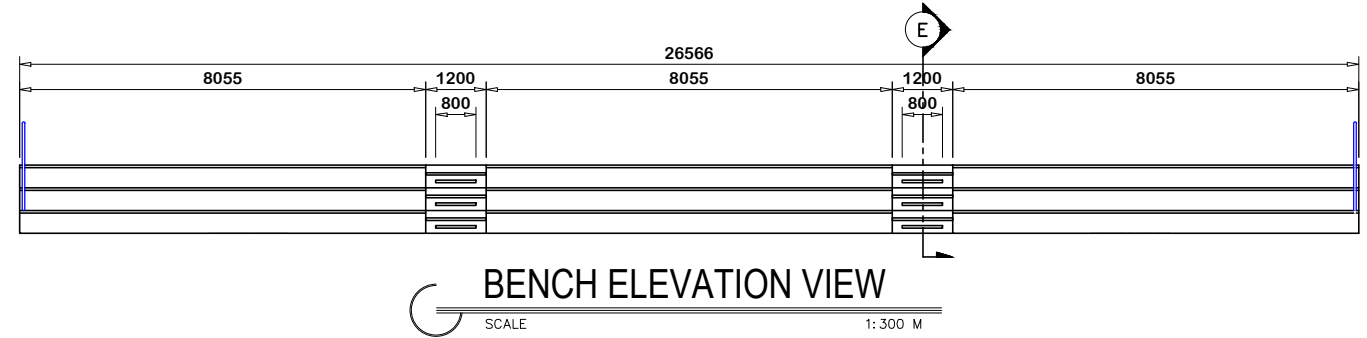
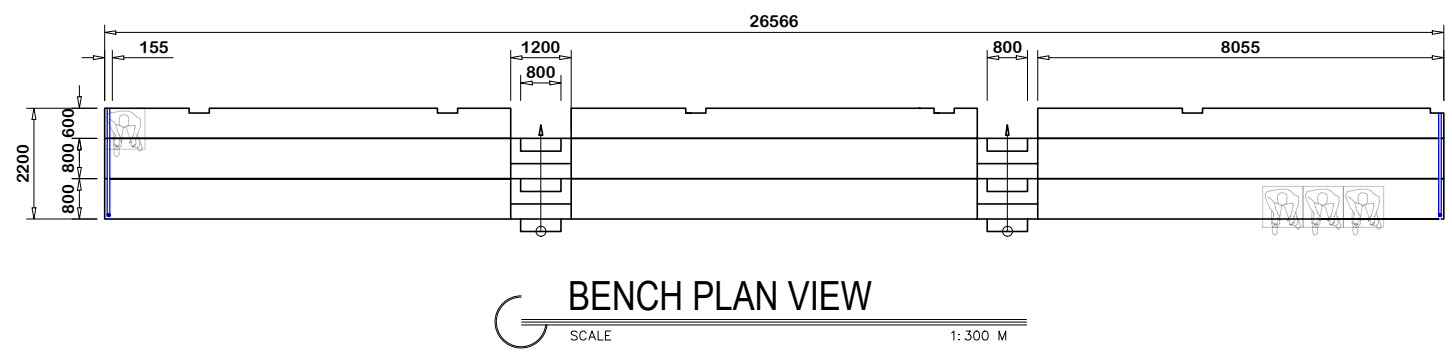
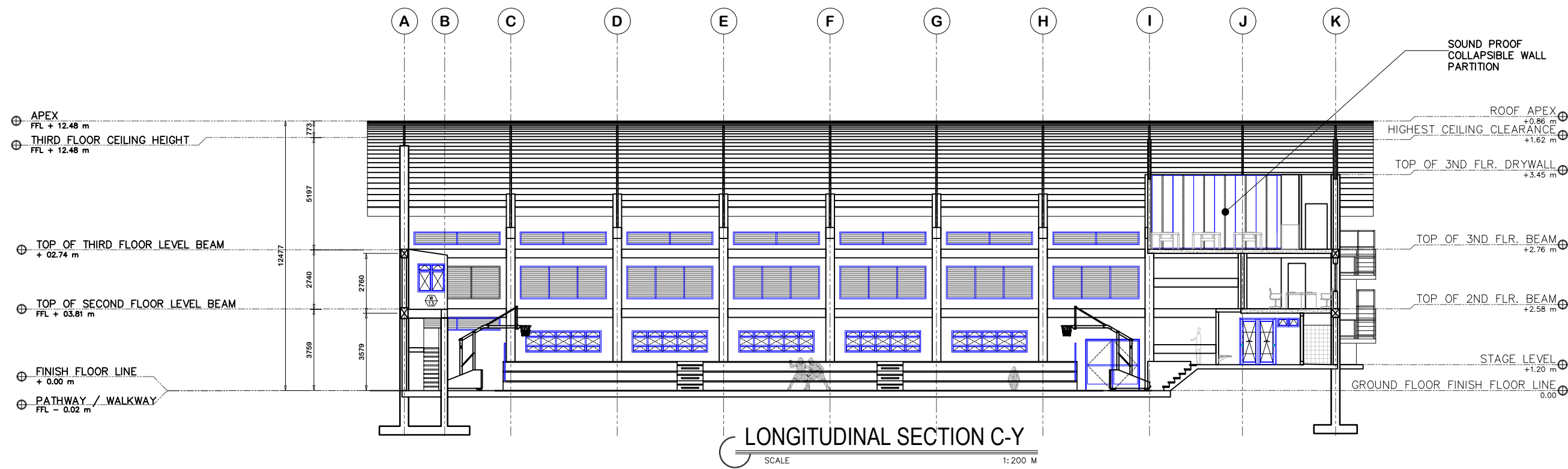
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	PROPOSED BCEZ MULTI-PURPOSE CENTER	ANJEE ANNE MONTERO ESO II/ Architect	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LEFT SIDE ELEVATION RIGHT SIDE ELEVATION	<table border="1"> <tr> <td>A</td> <td>09</td> </tr> <tr> <td>09</td> <td>41</td> </tr> </table>	A	09	09	41
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PREPARED BY:	ANJEE ANNE MONTERO ESO II/ Architect
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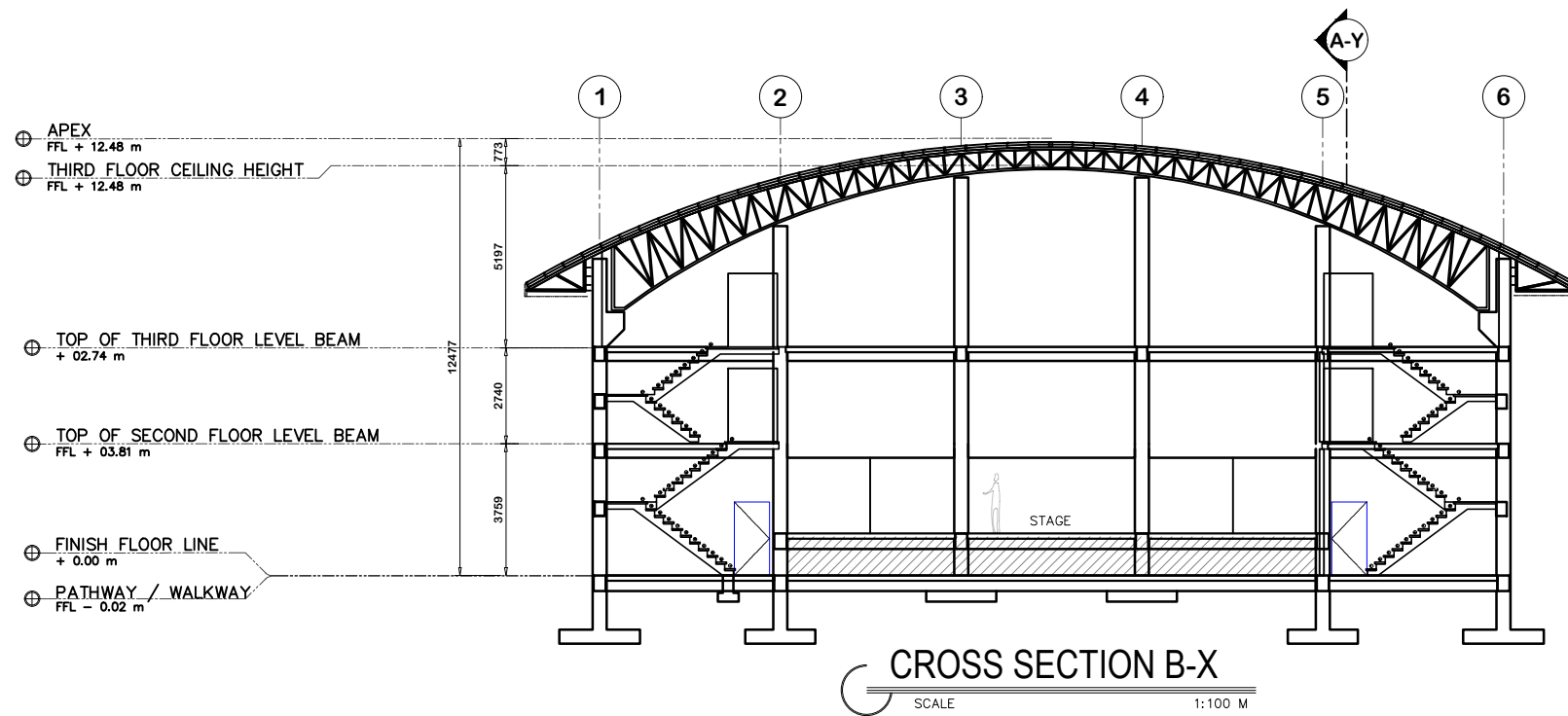
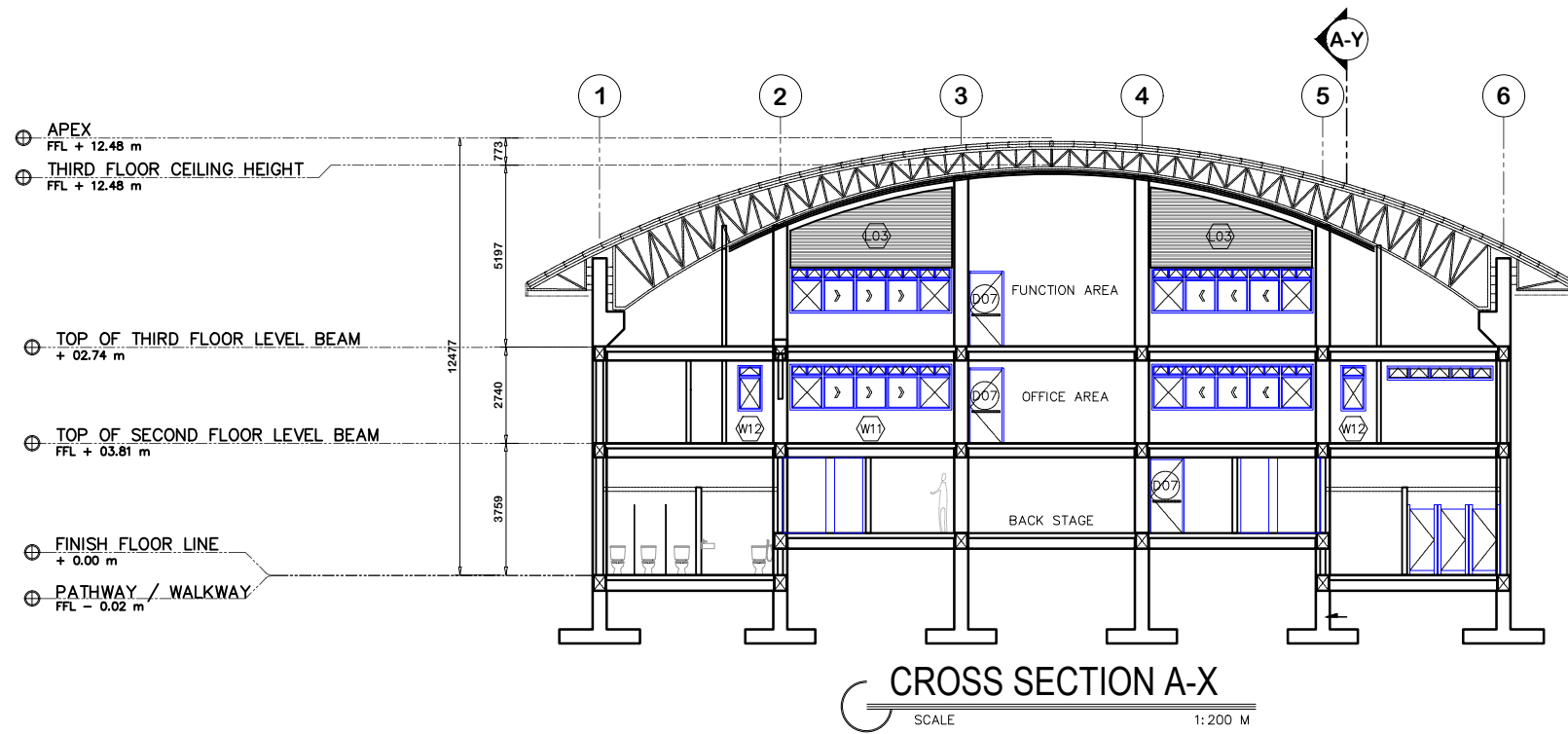
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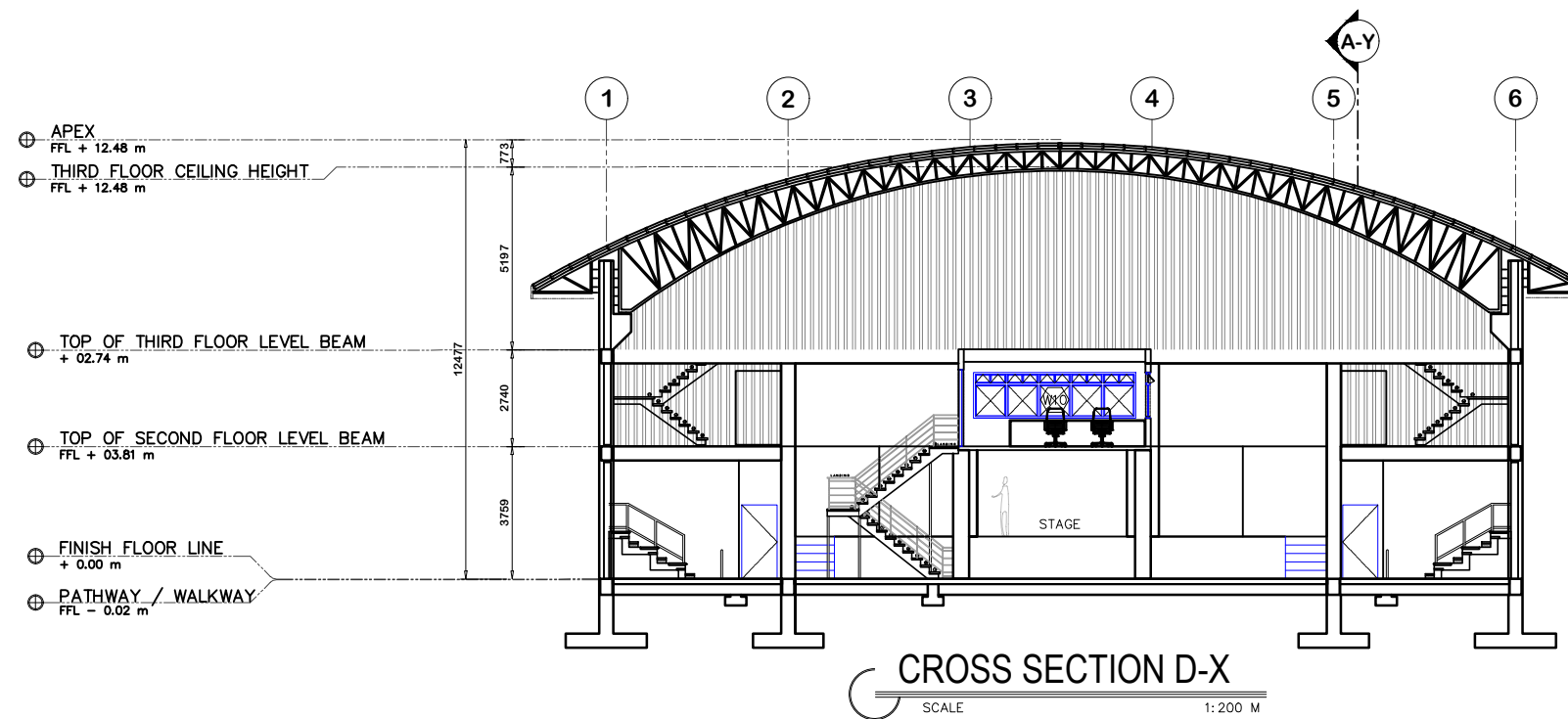
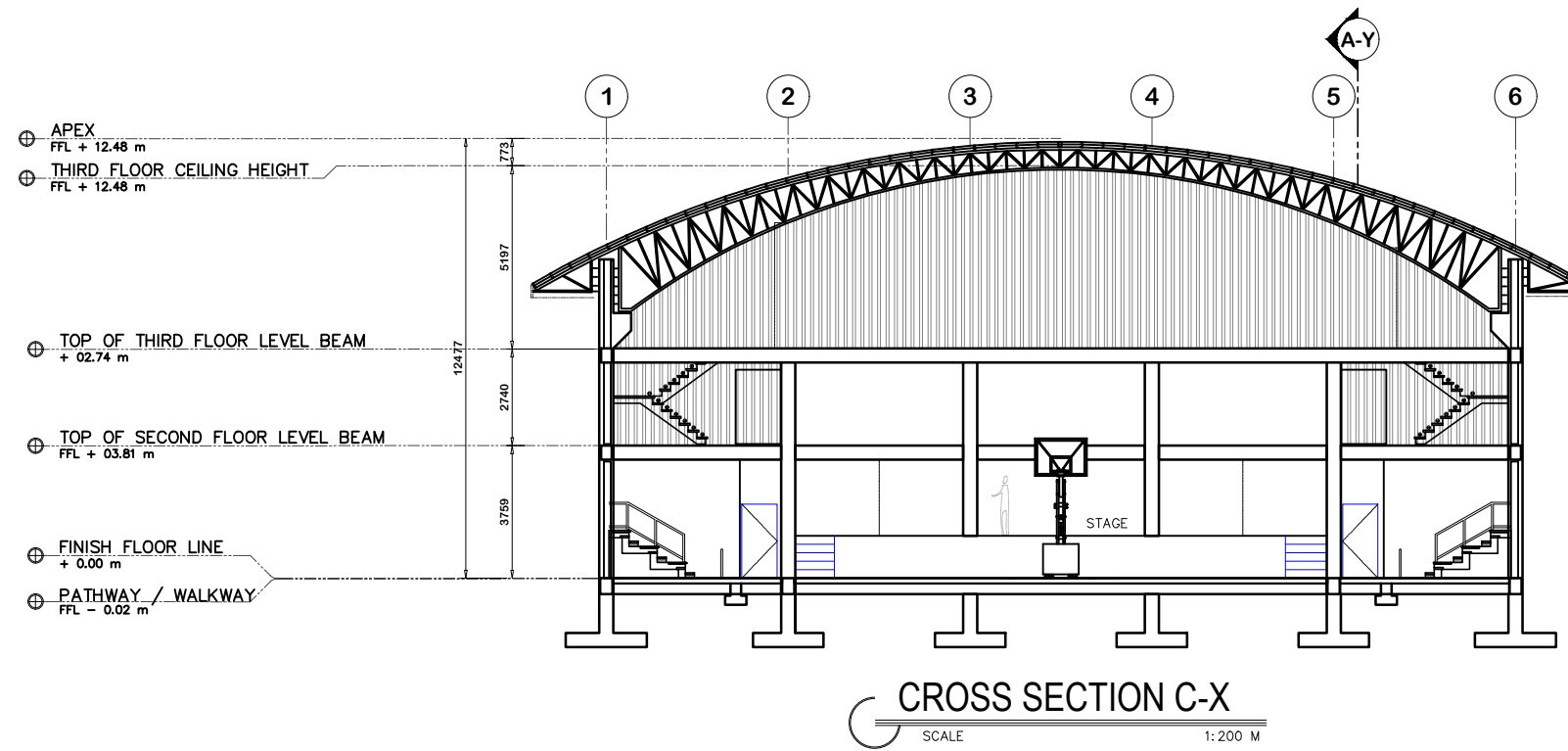
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	PROPOSED BCEZ MULTI-PURPOSE CENTER	ANJEE ANNE MONTERO ESO II/ Architect	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	CROSS SECTION A-X CROSS SECTION B-X	<table border="1"> <tr> <td>A</td> <td>11</td> </tr> <tr> <td>11</td> <td>41</td> </tr> </table>	A	11	11	41
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 ESO II/ Architect

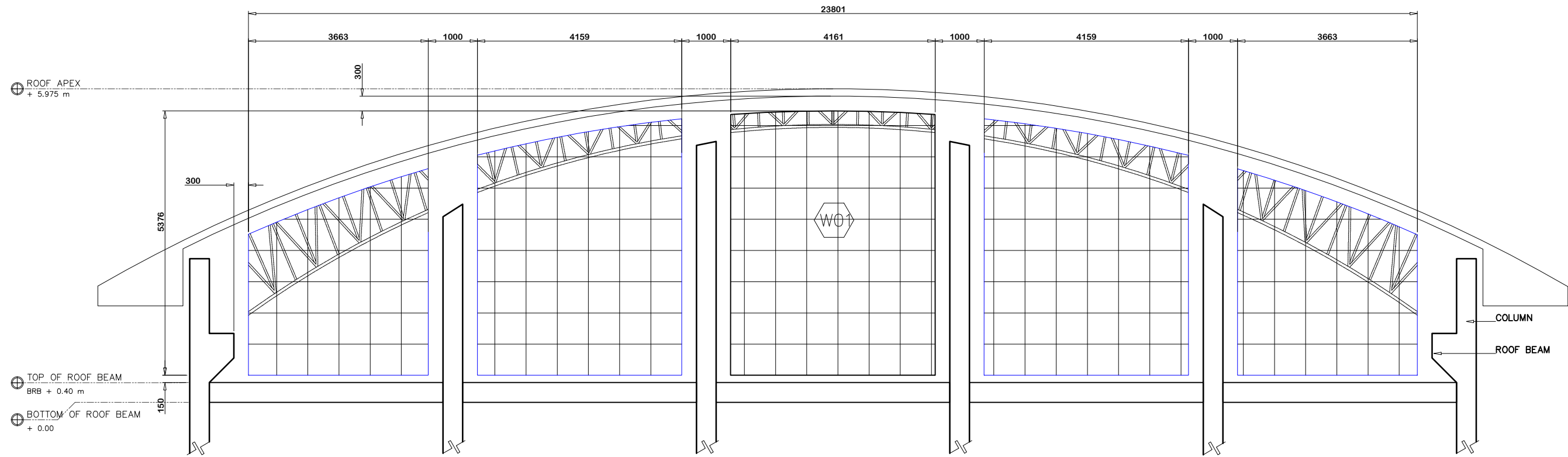
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**JOSEPH C. GALONG**  
 DIVISION CHIEF, EMD

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 DEPARTMENT MANAGER, OPERATIONS

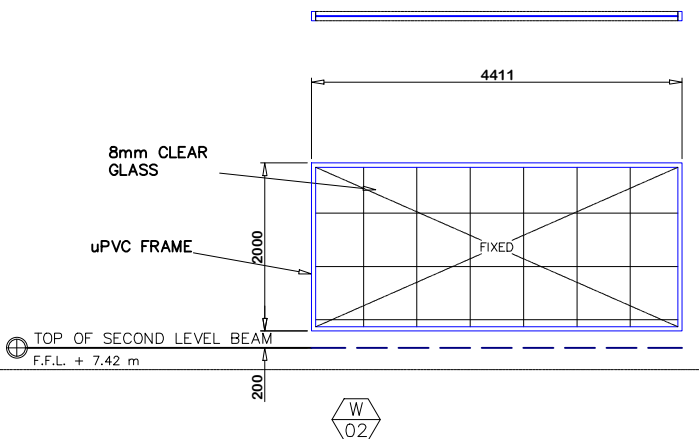
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**ATTY. ROSS VINCENT S. SY**  
 OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

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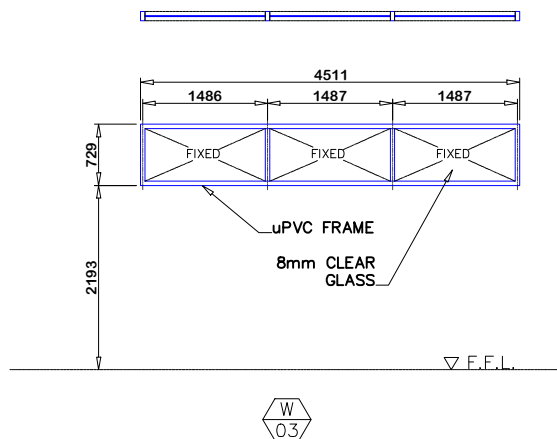
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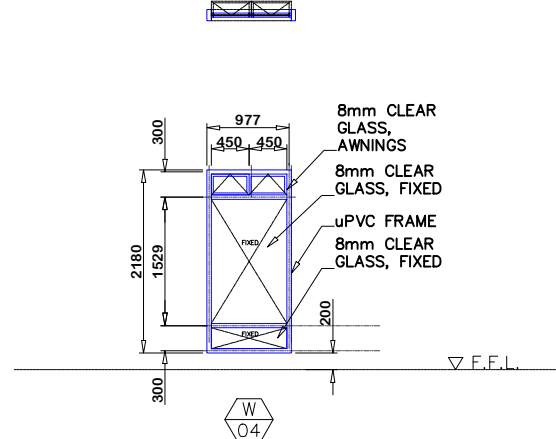
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 COAT: AUTOMOTIVE PAINT  
 LOCATION: FRONT - ABOVE ROOF BEAM



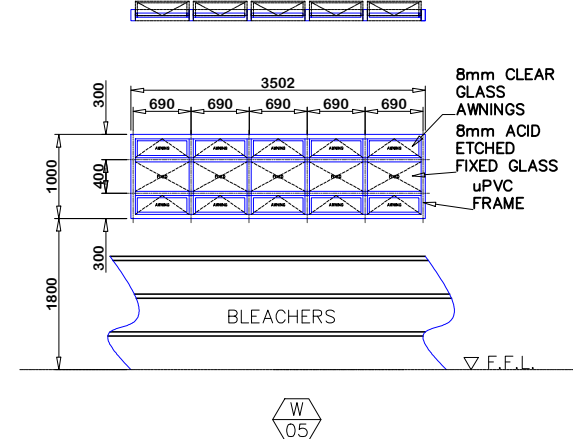
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REQUIRED: 2 SET  
 TYPE: UPVC TRANSOM WINDOW ACID ETCHED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: ABOVE EACH TWO (2) MAIN ENTRY DOORS IN FRONT



REQUIRED: 2 SET  
 TYPE: UPVC WINDOW ACID ETCHED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: BESIDE EACH TWO (2) MAIN ENTRY DOORS IN FRONT



REQUIRED: 10 SET  
 TYPE: UPVC TRANSOM WINDOW ORDINARY CLEAR GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: LEFT AND RIGHT SIDES OF COURT



PROJECT TITLE:  
**PROPOSED BCEZ MULTI-PURPOSE CENTER**

LOCATION:  
**LOAKAN, BAGUIO CITY**

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 ESO II/ Architect

CHECKED BY:  
**JOSEPH C. GALONG**  
 DIVISION CHIEF, EMD

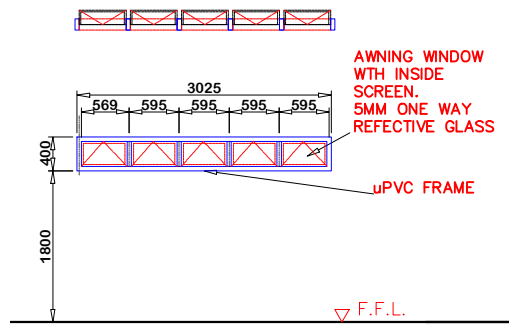
RECOMMENDING APPROVAL BY:  
**PAUL M. CODAMON**  
 DEPARTMENT MANAGER, OPERATIONS

APPROVED BY:  
**ATTY. ROSS VINCENT S. SY**  
 OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

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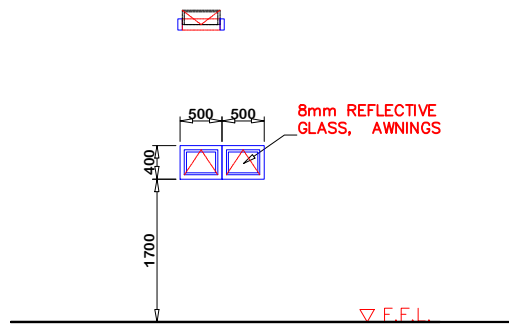
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03 01-05-2021	



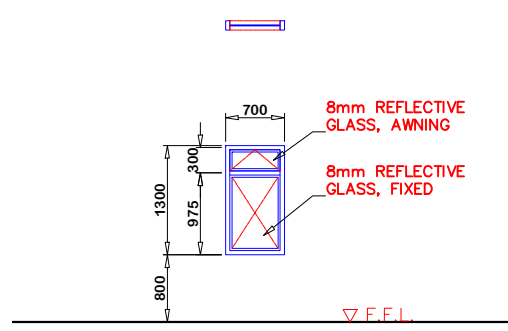
W06

REQUIRED: 6 SET  
 TYPE: UPVC AWNING WINDOW WITH MOSQUITO SCREEN BROWN TINTED GLASS (8 MM)  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: SIDES OF BOTH MEN & WOMENS' PUBLIC COMFORT ROOM AT GROUND FLOOR AND SECOND FLOOR



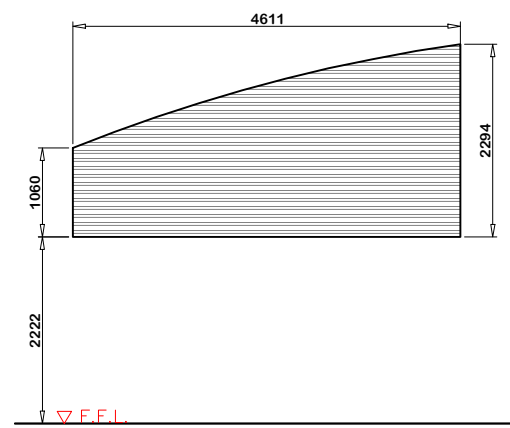
W09

REQUIRED: 2 SET  
 TYPE: UPVC AWNING WINDOW WITH MOSQUITO SCREEN CLEAR GLASS (8 MM)  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: MEN & WOMENS' LOCKER ROOM



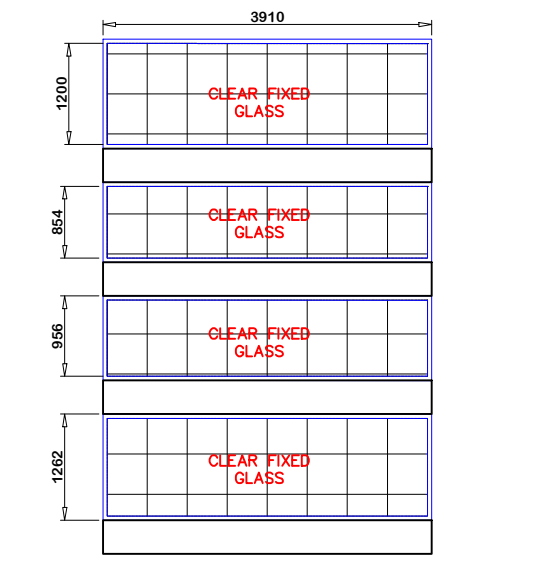
W12

REQUIRED: 4 SET  
 TYPE: UPVC WINDOW 8MM CLEAR TEMPERED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: SECOND AND THIRD FLOOR HALLWAY



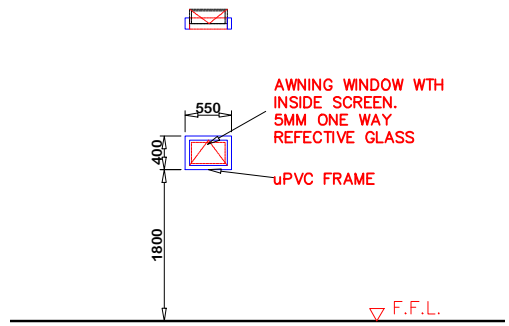
L03

REQUIRED: 2 SET  
 TYPE: HORIZONTAL METAL LOUVERS  
 COAT: PAINT  
 LOCATION: REAR SIDE OF BUILDING



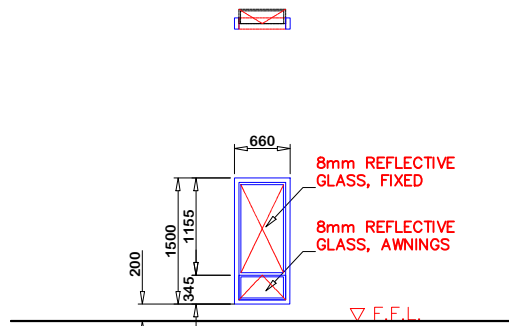
W13

REQUIRED: 2 SET  
 TYPE: UPVC WINDOW 8MM CLEAR TEMPERED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: STAIRS



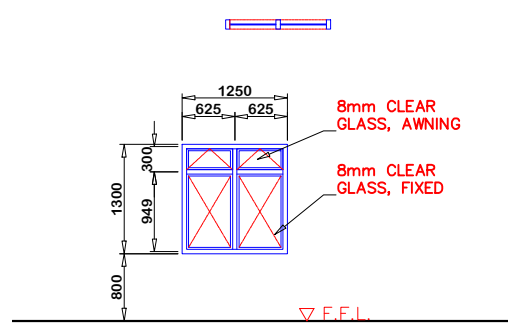
W07

REQUIRED: 4 SET  
 TYPE: UPVC AWNING WINDOW WITH MOSQUITO SCREEN BROWN TINTED GLASS (8 MM)  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: AT BOTH MEN & WOMENS' LOCKER ROOM'S SHOWER AND TOILET.



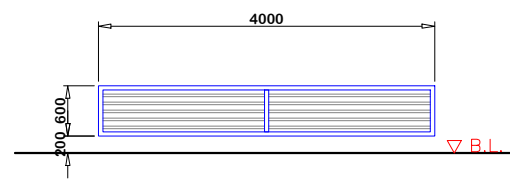
W10

REQUIRED: 3 SET  
 TYPE: UPVC AWNING-FIXED WINDOW WITH MOSQUITO SCREEN BROWN TINTED GLASS (8MM)  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: BACKSTAGE



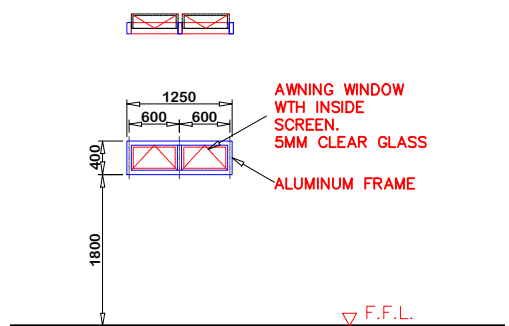
W13

REQUIRED: 1 SET  
 TYPE: UPVC WINDOW 8MM CLEAR TEMPERED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: CONTROL ROOM



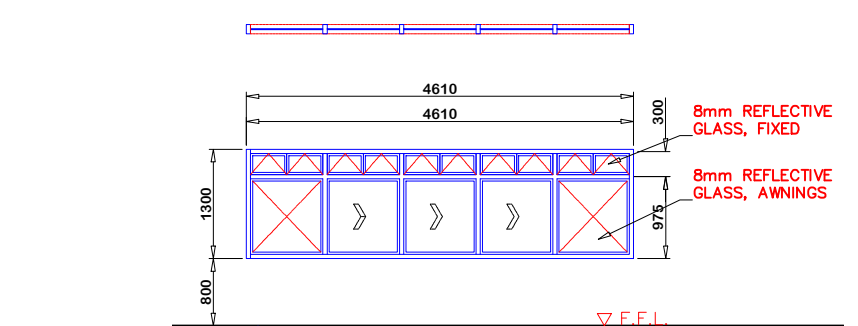
L02

REQUIRED: 16 SET  
 TYPE: HORIZONTAL METAL LOUVERS  
 COAT: PAINT  
 LOCATION: LEFT AND RIGHT SIDES OF COURT ABOVE THIRD LEVEL BEAM



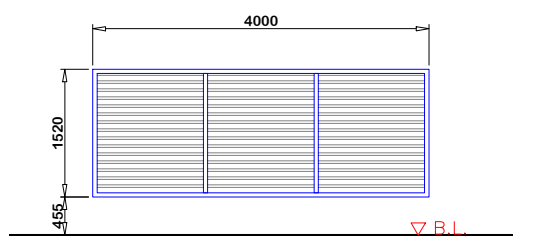
W08

REQUIRED: 2 SET  
 TYPE: ALUMINUM AWNING WINDOW WITH MOSQUITO SCREEN BROWN TINTED GLASS (8 MM)  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: BOTH MEN & WOMENS' COMFORT ROOM AT SECOND FLOOR



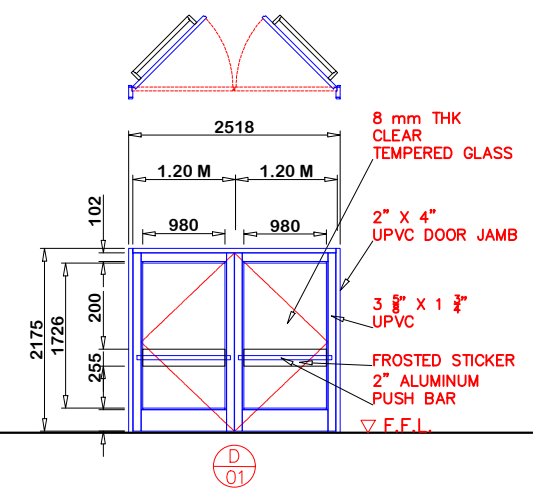
W11

REQUIRED: 5 SET  
 TYPE: UPVC WINDOW 8MM CLEAR TEMPERED GLASS  
 COAT: AUTOMOTIVE PAINT  
 LOCATION: CONTROL ROOM, SECOND FLOOR OFFICE AND THIRD FLOOR FUNCTION ROOM



L01

REQUIRED: 14 SET  
 TYPE: HORIZONTAL METAL LOUVERS  
 COAT: PAINT  
 LOCATION: LEFT AND RIGHT SIDES OF COURT ABOVE SECOND LEVEL BEAM

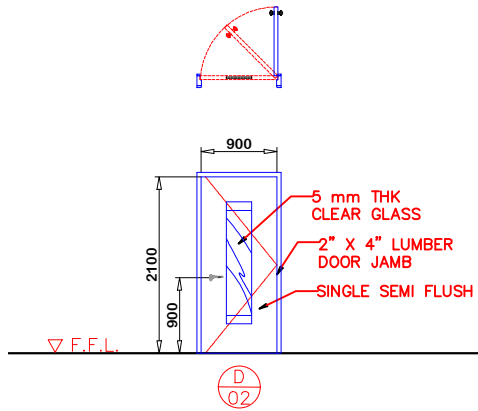


D01

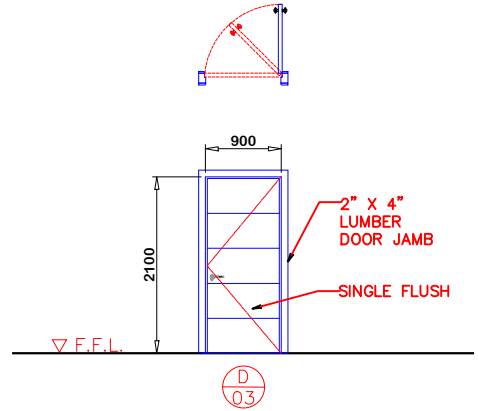
REQUIRED: 4 SET  
 TYPE: UPVC DOUBLE SWING DOOR  
 LOCKSET: RIM / MORTISE LOCK  
 HARDWARE:  
 JAMB: 2" X 4" UPVC DOOR JAMB  
 FINISH: WHITE POWDER COATED  
 LOCATION: 2 FRONT ENTRANCE DOOR, 2 SIDE ENTRANCE DOORS

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	PROPOSED BCEZ MULTI-PURPOSE CENTER	ANJEE ANNE MONTERO ESO II/ Architect	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	DOOR AND WINDOW SCHEDULE	A 14 / 14 41
	LOCATION: LOAKAN, BAGUIO CITY						REV. NO. / DATE 03 01-05-2021

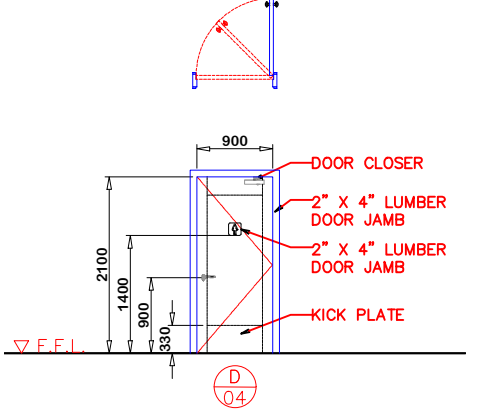




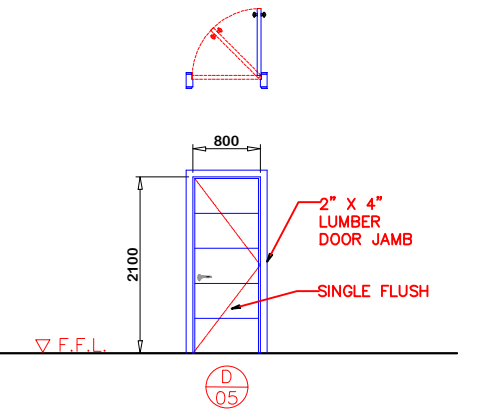
REQUIRED: 3 SET  
 TYPE: SEMI-FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB  
 STAINLESS STEEL CONSTRUCTION BRASS  
 CYLINDER WITH BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS  
 STEEL HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: VARNISH FINISH  
 LOCATION: CONTROL ROOM, TRAINING RM



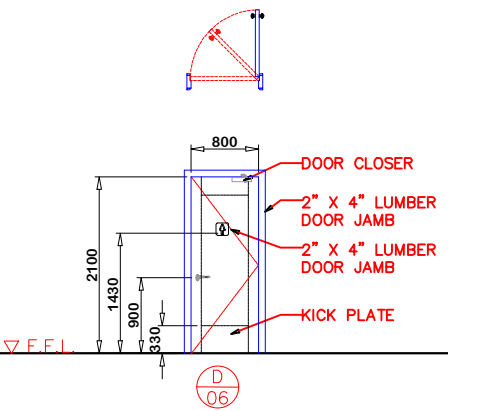
REQUIRED: 2 SET  
 TYPE: FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB  
 STAINLESS STEEL CONSTRUCTION BRASS  
 CYLINDER WITH BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS  
 STEEL HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: VARNISH FINISH  
 LOCATION: THIRD FLR AND SECOND FLR  
 STORAGE



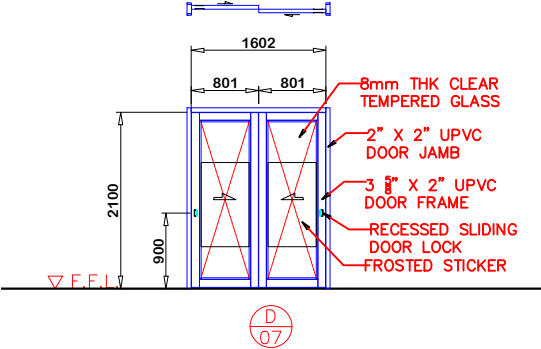
REQUIRED: 2 SET  
 TYPE: FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB  
 STAINLESS STEEL CONSTRUCTION BRASS  
 CYLINDER WITH BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS STEEL  
 HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: PLAIN WITH MOULDINGS FLUSH DOOR  
 LOCATION: HANDICAPPED CR



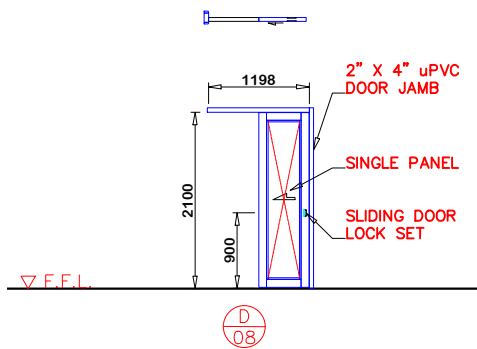
REQUIRED: 2 SET  
 TYPE: FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB  
 STAINLESS STEEL CONSTRUCTION BRASS  
 CYLINDER WITH BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS  
 STEEL HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: VARNISH FINISH  
 LOCATION: LACTATION RM, SPARE ROOM,



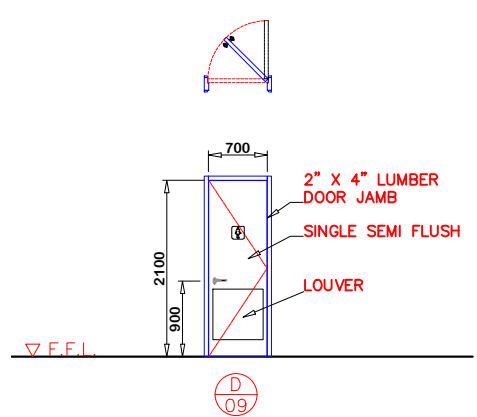
REQUIRED: 6 SET  
 TYPE: FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB  
 STAINLESS STEEL CONSTRUCTION BRASS  
 CYLINDER WITH BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS  
 STEEL HEAVY DUTY HINGE (3" X 3" X  
 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: PLAIN WITH MOULDINGS FLUSH DOOR  
 LOCATION: COMFORT ROOMS (1ST, 2ND  
 AND 3RD FLR.)



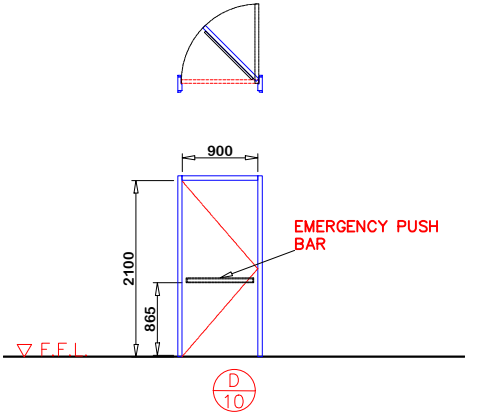
REQUIRED: 2 SET  
 TYPE: UPVC DOUBLE PANEL SLIDING DOOR  
 LOCKSET: RECESSED SLIDING DOOR LOCK  
 MORTISE HOOK PUSH/PULL DOOR LOCK  
 HARDWARE:  
 JAMB: 2" X 2" ALUMINUM  
 FINISH: WHITE POWDER COATED  
 LOCATION: MEN & WOMEN'S DRESSING RM



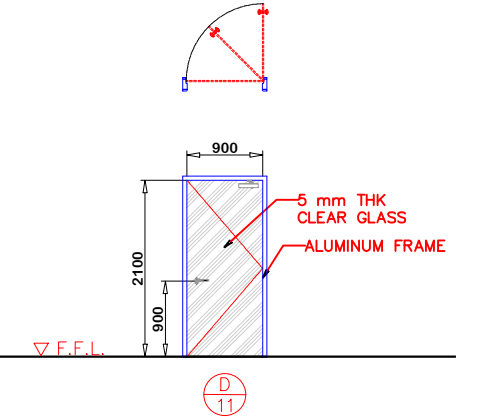
REQUIRED: 2 SET  
 TYPE: UPVC SINGLE PANEL SLIDING DOOR  
 LOCKSET: ALUMINUM SLIDING HANDLE  
 HARDWARE:  
 JAMB: 2" X 4" UPVC  
 FINISH: WHITE UPVC  
 LOCATION: MEN & WOMEN'S DRESSING ROOM  
 SHOWER



REQUIRED: 2 SET  
 TYPE: SEMI-FLUSH DOOR WITH DOOR JAMB  
 LOCKSET: HEAVY DUTY DOOR KNOB STAINLESS  
 STEEL CONSTRUCTION BRASS CYLINDER WITH  
 BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS STEEL  
 HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: 2" X 4" LUMBER  
 FINISH: PLAIN WITH MOULDINGS FLUSH DOOR  
 LOCATION: LOCKER ROOMS CR



REQUIRED: 3 SET  
 TYPE: FIRE RATED FIRE EXIT STEEL DOOR  
 LOCKSET: PANIC DEVICE, SINGLE LEVER LOCK  
 HARDWARE: 1.5 HRS FIRE RATED HINGES  
 JAMB: 2" X 4" DOOR JAMB GAUGE 16  
 FINISH:  
 LOCATION: BACKDOOR/ EMERGENCY EXITS



REQUIRED: 2 SET  
 TYPE: ALUMINUM GLASS DOOR  
 LOCKSET: HEAVY DUTY DOOR KNOB STAINLESS  
 STEEL CONSTRUCTION BRASS CYLINDER WITH  
 BRASS KEYS  
 HARDWARE: BALL BEARING STAINLESS STEEL  
 HEAVY DUTY HINGE (3" X 3" X 2MM)  
 JAMB: ALUMINUM BROWN COATED  
 FINISH:  
 LOCATION: OFFICE ROOM



PROJECT TITLE:  
**PROPOSED BCEZ MULTI-PURPOSE CENTER**  
 LOCATION:  
**LOAKAN, BAGUIO CITY**

PREPARED BY:  
**ANJEE ANNE MONTERO**  
 ESO II/ Architect

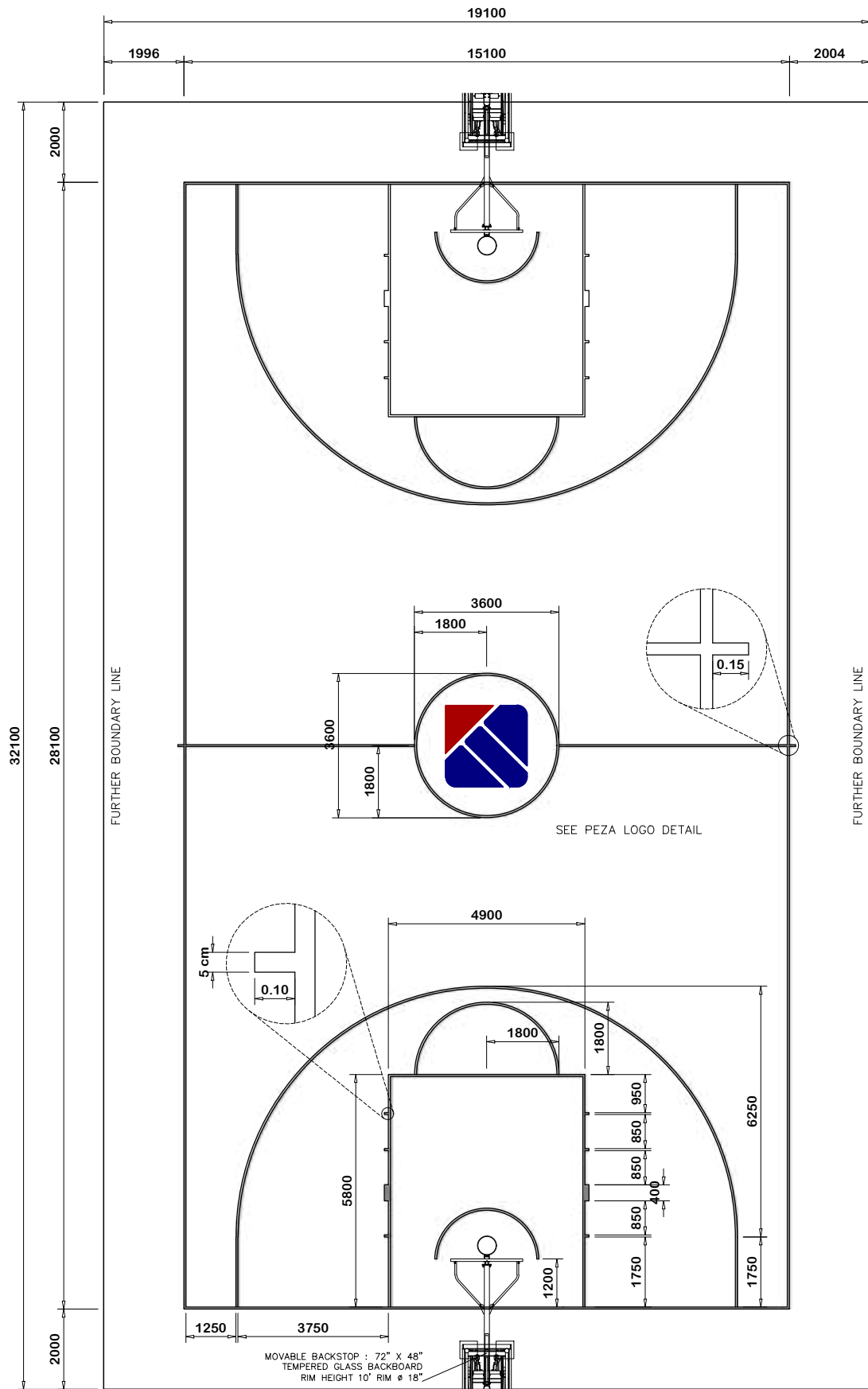
CHECKED BY:  
**JOSEPH C. GALONG**  
 DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY:  
**PAUL M. CODAMON**  
 DEPARTMENT MANAGER, OPERATIONS

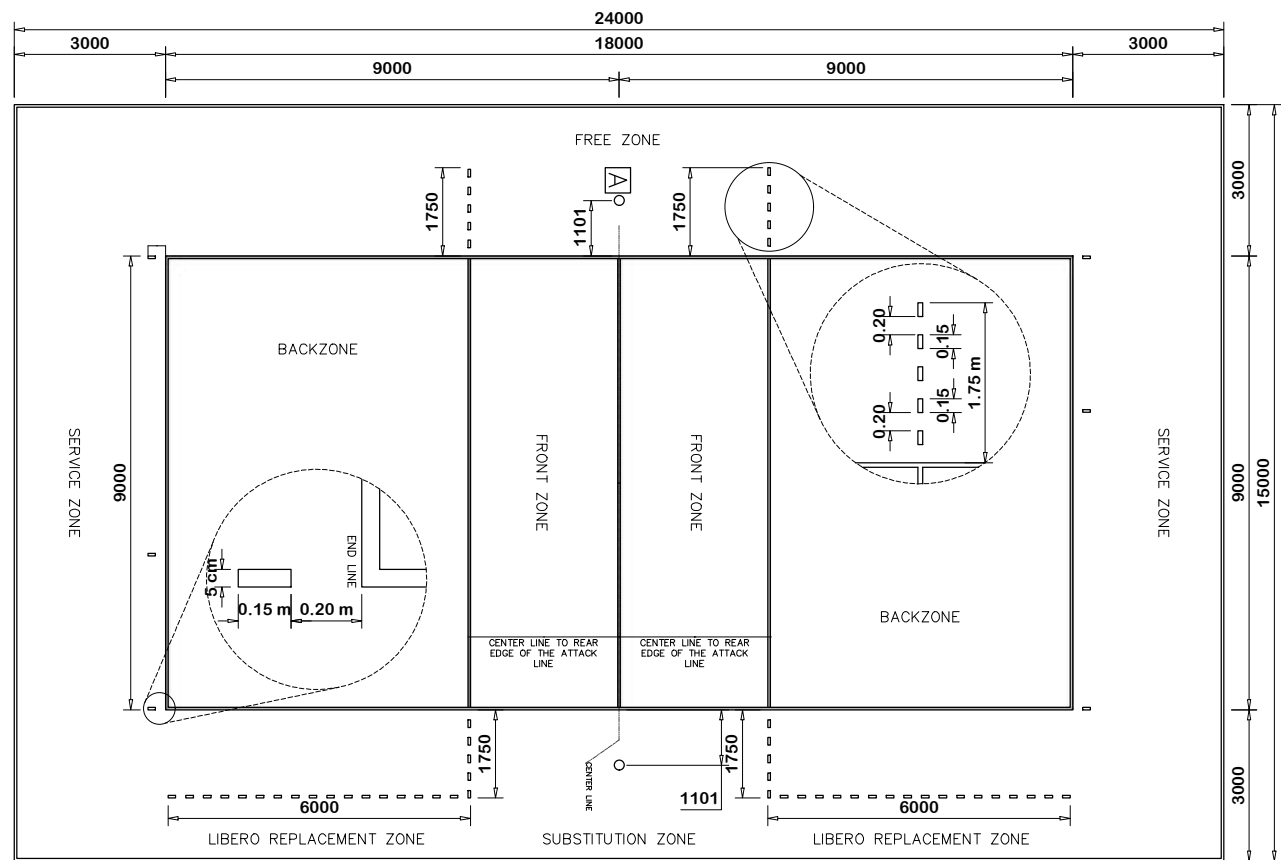
APPROVED BY:  
**ATTY. ROSS VINCENT S. SY**  
 OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

SHEET CONTENT:  
**DOOR SCHEDULE**

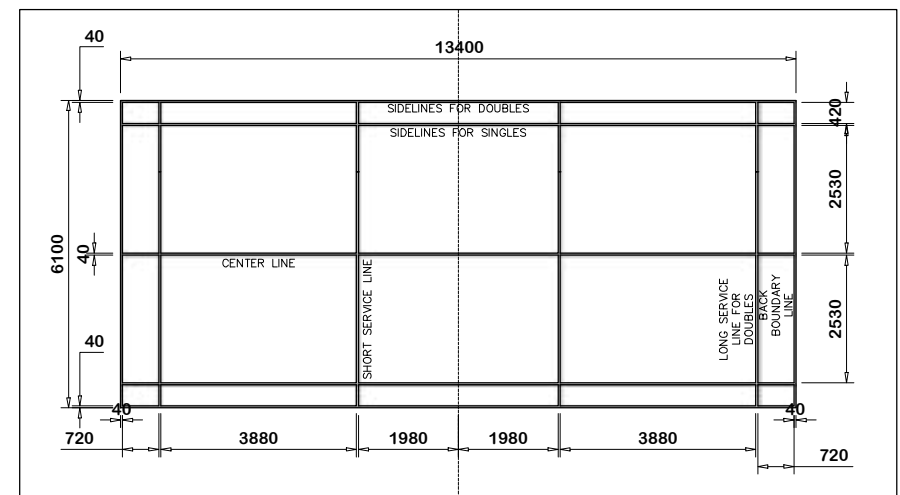
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**A 15**  
**15 41**  
 REV. NO./DATE  
**03 01-05-2021**



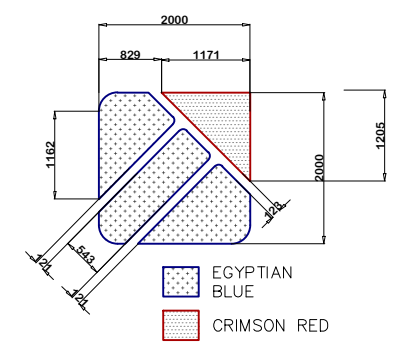
**BASKETBALL COURT LINES**



**VOLLEYBALL COURT LINES**

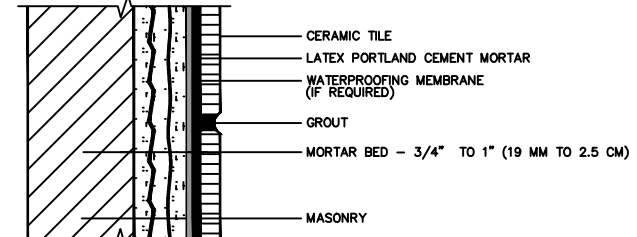


**BADMINTON COURT LINES**

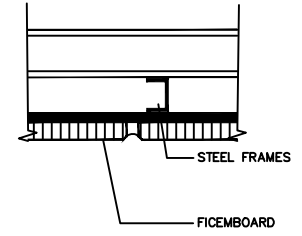


**PEZA LOGO DETAILS**

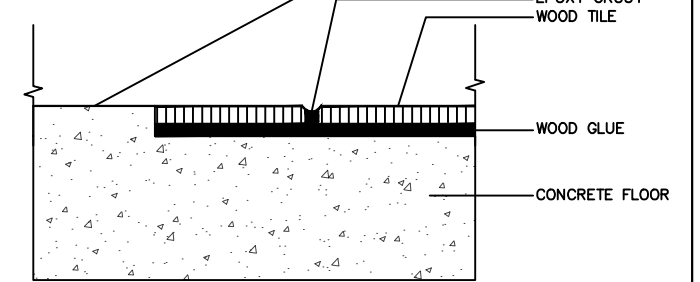
**WALLS, EXTERIOR & INTERIOR**  
Masonry  
Cement Mortar



**CEILING, SOFFITS**  
General



**FLOORS, INTERIOR**  
Wood Finish



PROJECT TITLE:	PROPOSED BCEZ MULTI-PURPOSE CENTER
LOCATION:	LOAKAN, BAGUIO CITY

PREPARED BY:	ANJEE ANNE MONTERO ESO II/ Architect
--------------	-----------------------------------------

CHECKED BY:	JOSEPH C. GALONG DIVISION CHIEF, EMD
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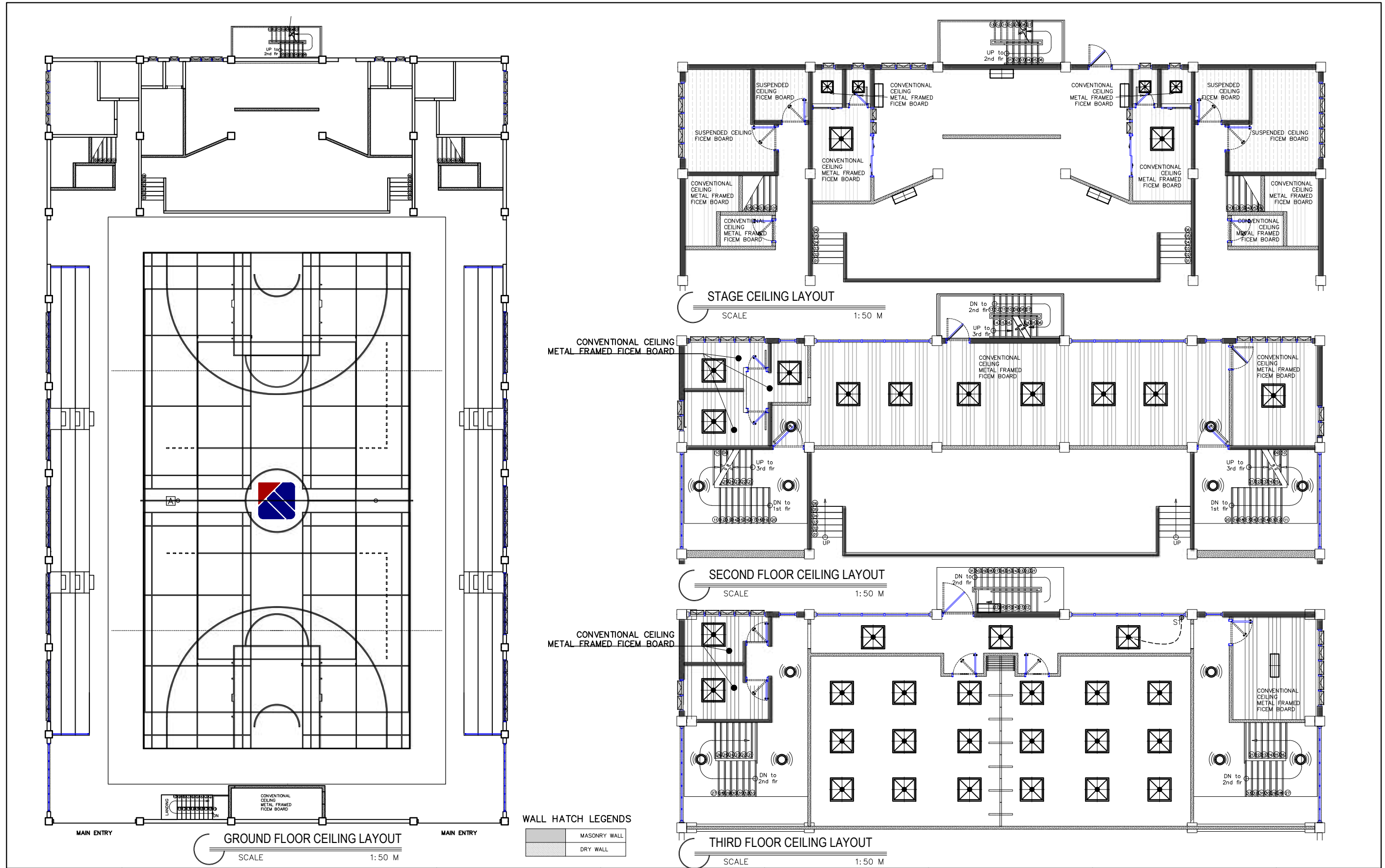
RECOMMENDING APPROVAL BY:	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS
---------------------------	---------------------------------------------------

APPROVED BY:	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ
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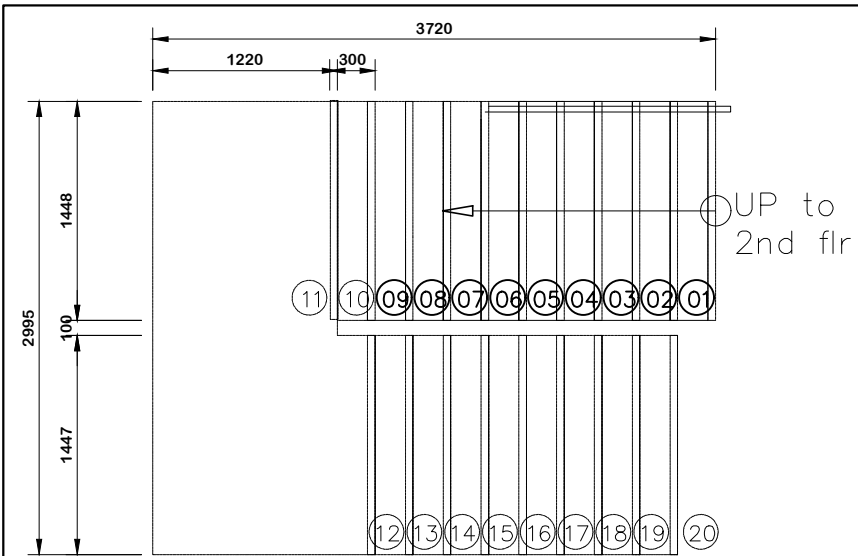
SHEET CONTENT:	- PLAYING COURT LINES - PEZA LOGO DETAILS - TYPICAL WALL AND FLOOR SECTION
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SHEET NUMBER	A 16 16 41
REV. NO./DATE	03 01-05-2021

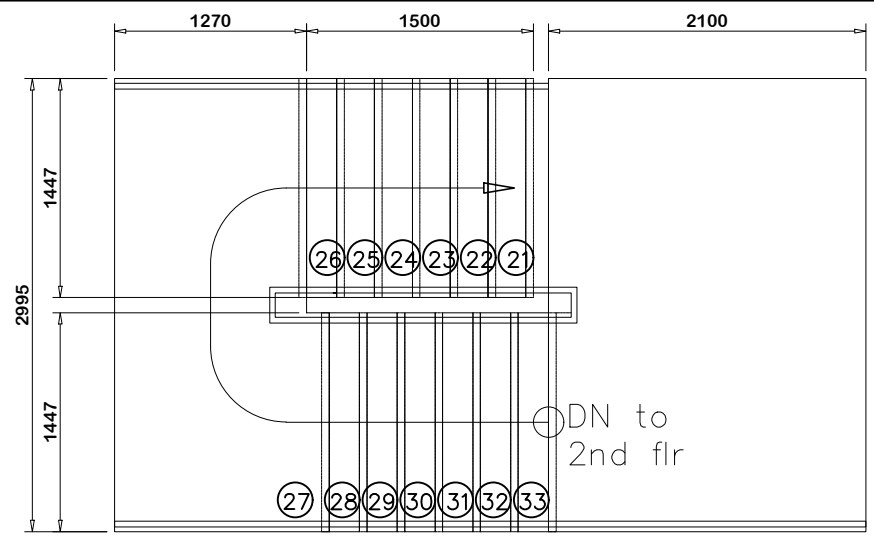




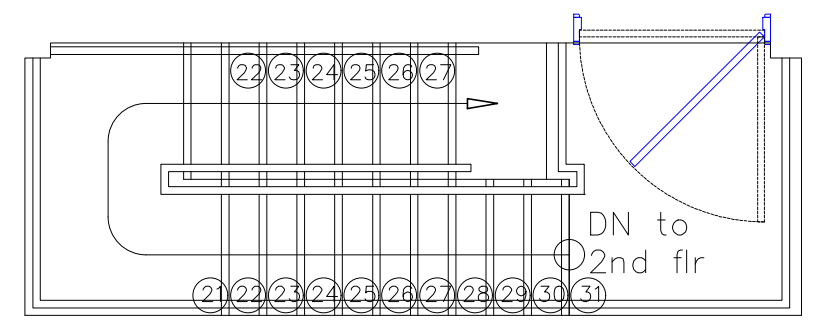
	<b>PROJECT TITLE:</b> PROPOSED BCEZ MULTI-PURPOSE CENTER	<b>PREPARED BY:</b> ANJEE ANNE MONTERO ESO I/ Architect	<b>CHECKED BY:</b> JOSEPH C. GALONG DIVISION CHIEF, EMD	<b>RECOMMENDING APPROVAL BY:</b> PAUL M. CODAMON OIC - DEPARTMENT MANAGER, OPERATIONS	<b>APPROVED BY:</b> ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	<b>SHEET CONTENT:</b> REFLECTED CEILING PLAN	<b>SHEET NUMBER</b>				
	<b>LOCATION:</b> LOAKAN, BAGUIO CITY						<table border="1"> <tr> <td>A</td> <td>18</td> </tr> <tr> <td>18</td> <td>41</td> </tr> </table>	A	18	18	41
	A	18									
18	41										
						REV. NO. /DATE					



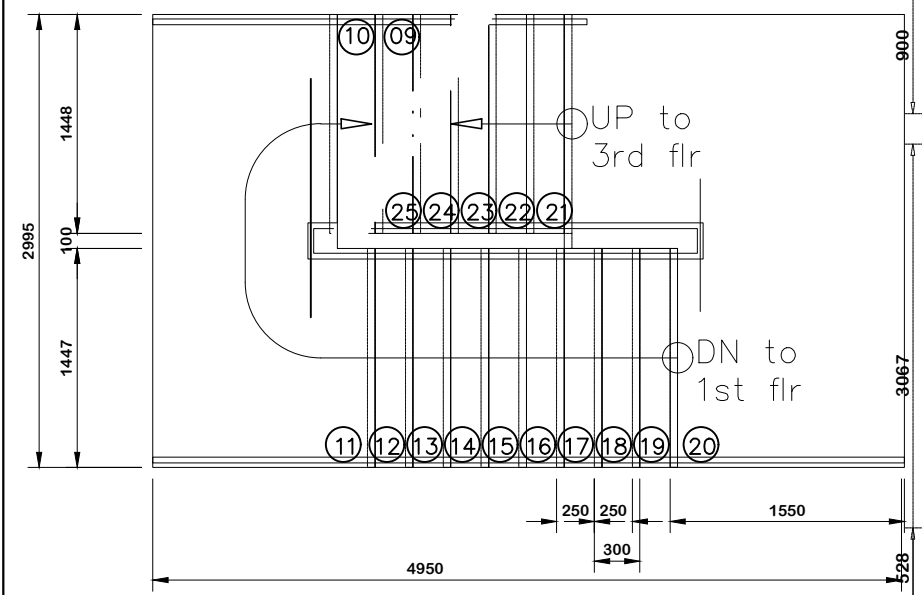
**GROUND TO SECOND FLOOR STAIR PLAN**  
SCALE 1:50 M



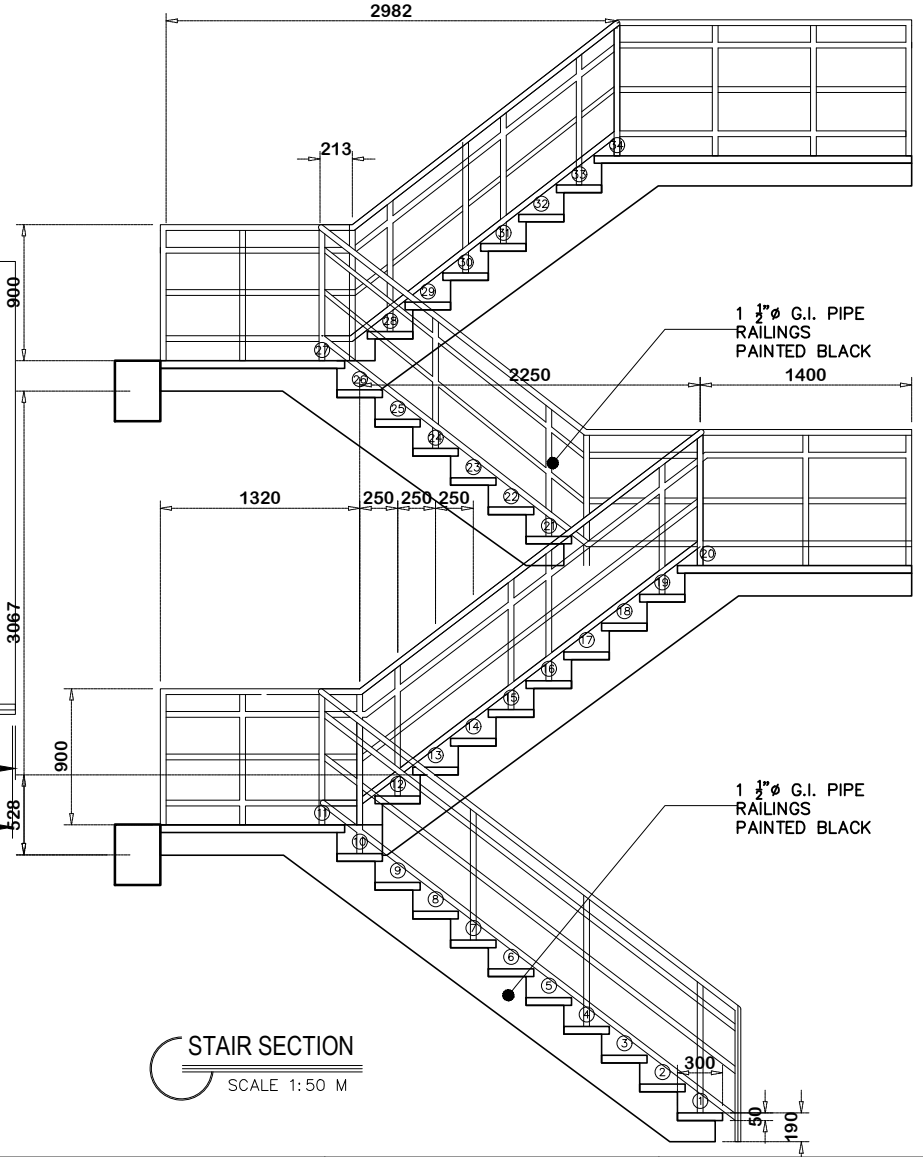
**THIRD FLR STAIR PLAN**  
SCALE 1:50 M



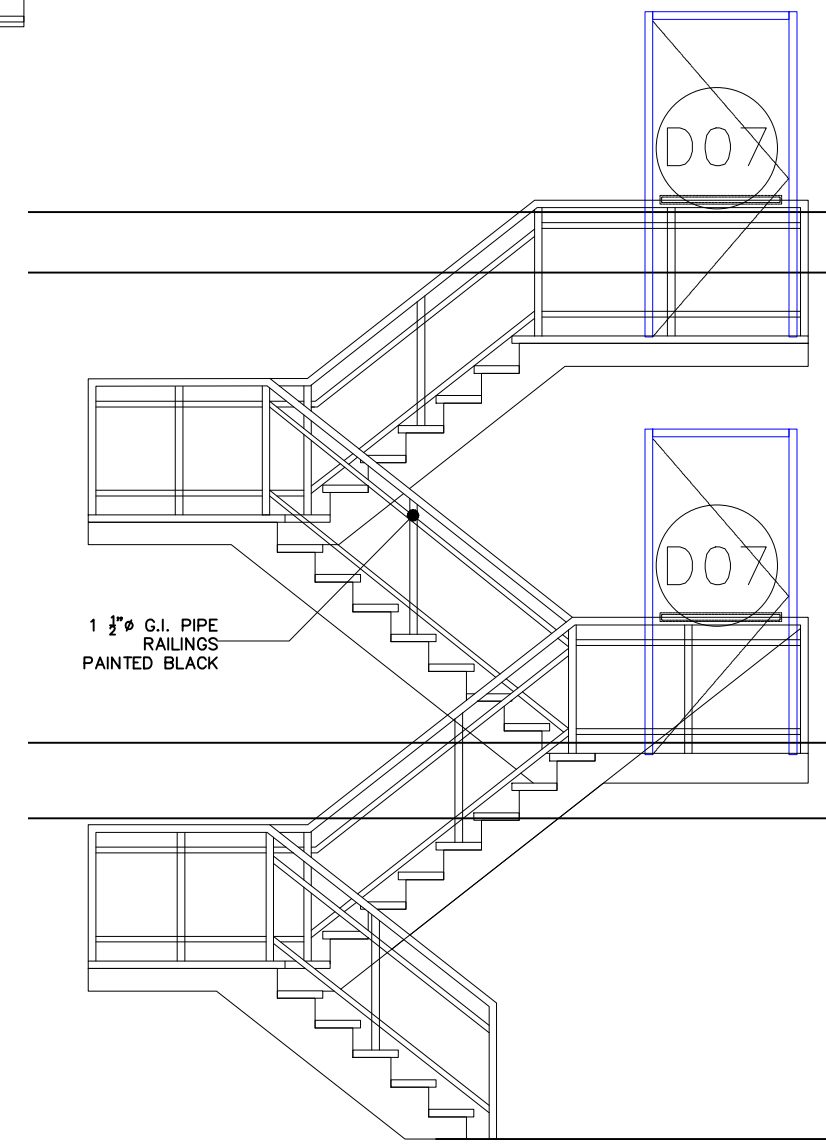
**EMERGENCY EXIT STAIRS PLAN VIEW**  
SCALE 1:50 M



**SECOND FLR TO THIRD FLR STAIR PLAN**  
SCALE 1:50 M



**STAIR SECTION**  
SCALE 1:50 M



**EMERGENCY EXIT STAIRS SECTION**  
SCALE 1:50 M



<b>PROJECT TITLE:</b>	PROPOSED BCEZ MULTI-PURPOSE CENTER
<b>LOCATION:</b>	LOAKAN, BAGUIO CITY

<b>PREPARED BY:</b>	ANJEE ANNE MONTERO ESO II/ Architect
---------------------	-----------------------------------------

<b>CHECKED BY:</b>	JOSEPH C. GALONG DIVISION CHIEF, EMD
--------------------	-----------------------------------------

<b>RECOMMENDING APPROVAL BY:</b>	PAUL M. CODAMON OIC - DEPARTMENT MANAGER, OPERATIONS
----------------------------------	---------------------------------------------------------

<b>APPROVED BY:</b>	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ
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<b>SHEET CONTENT:</b>	STAIR DETAIL
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<b>SHEET NUMBER</b>	A 19 19 41
<b>REV. NO. /DATE</b>	



**PROJECT TITLE:**  
**PROPOSED BCEZ MULTI-PURPOSE CENTER**

**LOCATION:**  
**LOAKAN, BAGUIO CITY**

**PREPARED BY:**  
**ANJEE ANNE MONTERO**  
 ESO I/ Architect

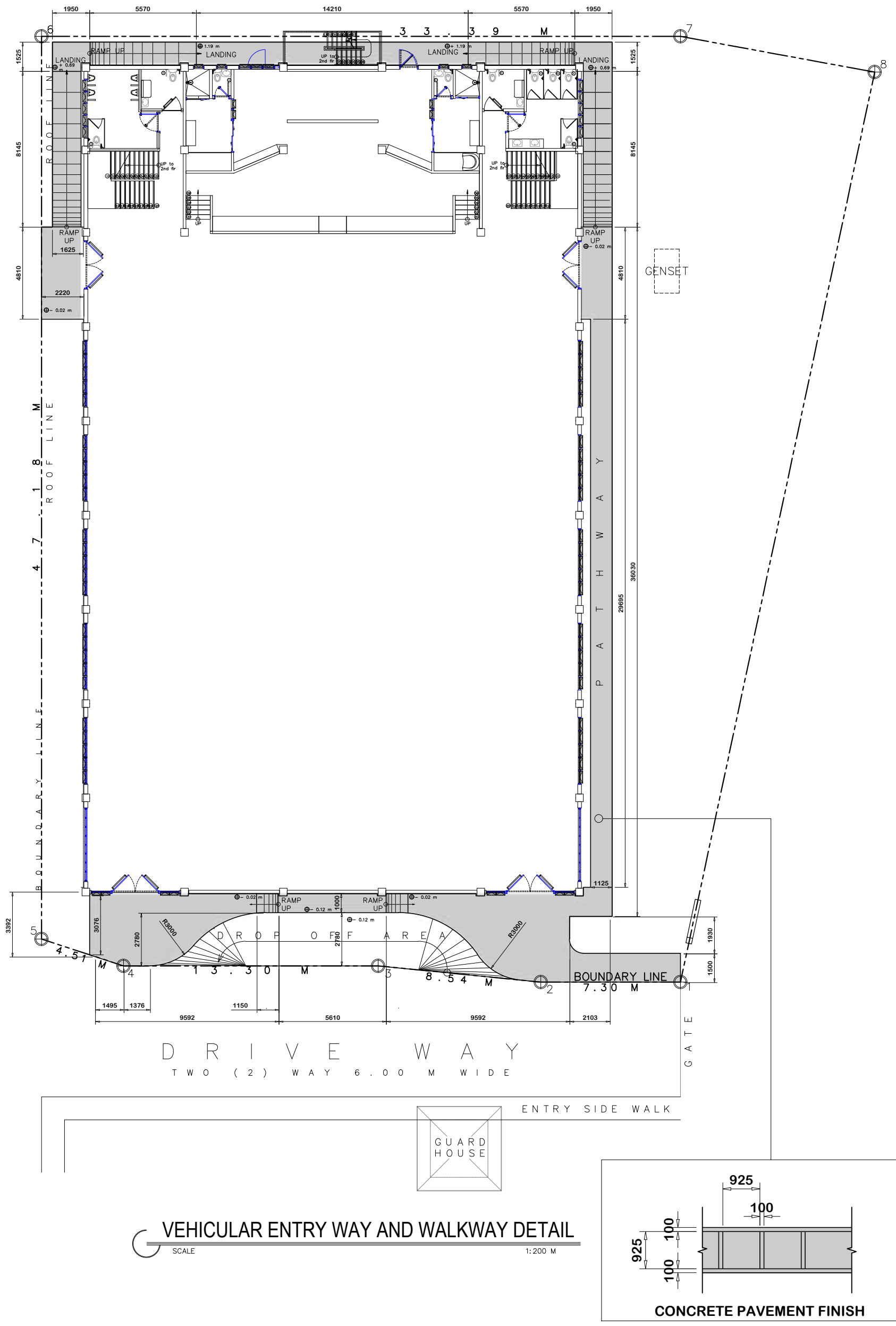
**CHECKED BY:**  
**JOSEPH C. GALONG**  
 DIVISION CHIEF, EMD

**RECOMMENDING APPROVAL BY:**  
**PAUL M. CODANON**  
 OIC - DEPARTMENT MANAGER, OPERATIONS

**APPROVED BY:**  
**ATTY. ROSS VINCENT S. SY**  
 OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

**SHEET CONTENT:**  
**VEHICULAR ENTRY WAY AND WALKWAY DETAIL**

**SHEET NUMBER**  
**A 20**  
**REV. NO. /DATE**  
**20 41**



# GENERAL CONSTRUCTION NOTES

NOTE:  
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.  
  
THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

## GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAINS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

## NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS:  

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS	4000 PSI (27.6 MPa)	20 mm	100 mm
COLUMNS	4000 PSI (27.6 MPa)	20 mm	100 mm
BEAMS, SLABS	4000 PSI (27.6 MPa)	20 mm	100 mm
SLAB ON FILL	5000 PSI (27.6 MPa)	20 mm	100 mm
- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:  

LOCATION	MIN. COVER
SUSPENDED SLAB	20 mm
SLAB ON GRADE	40 mm
WALLS ABOVE GRADE	25 mm
BEAM STIRRUPS AND COLUMN TIES	40 mm
WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH	50 mm
CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.	75 mm
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HANDLING OR PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS IS EXTREMELY DIFFICULT TO ACCOMPLISH.
- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:  

FOUNDATION	24 HRS.
SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED	8 DAYS
WALL	21 DAYS
BEAMS	14 DAYS
COLUMNS	21 DAYS
- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORING UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

## NOTES ON FOOTING

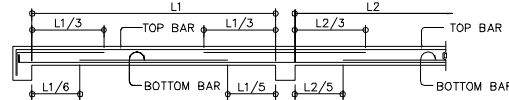
- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 150 KPa (3132.82 psf). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

## NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:  
 A. FOOTINGS, FOOTING BEAMS AND GIRDERS  $f_y = 414 \text{ MPa}$  (60,000 psi)  
 B. COLUMNS AND SHEAR WALLS  $f_y = 414 \text{ MPa}$  (60,000 psi)  
 C. BEAMS AND GIRDER  $f_y = 414 \text{ MPa}$  (60,000 psi)  
 D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK.  $f_y = 275 \text{ MPa}$  (40,000 psi)
- ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. ABRSS SMALLER THAN 10mm MAY BE PLAIN.
- SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPLICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS, SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

## NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

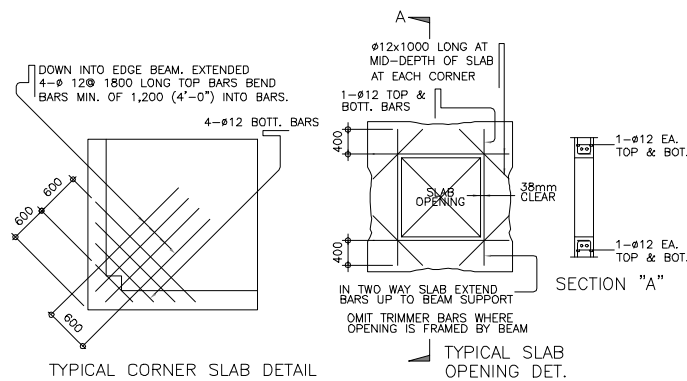


## TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

- IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN 0.0025 x GROSS CROSS-SECTIONAL AREA (A<sub>g</sub>) OF THE SLAB (SEE SCHEDULE BELOW)

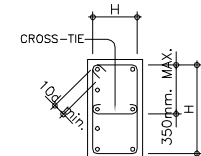
THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm $\phi$ @ 250mm EACH WAY
125 mm	10 mm $\phi$ @ 225mm EACH WAY
150 mm	10 mm $\phi$ @ 185mm EACH WAY
175 mm	10 mm $\phi$ @ 150mm EACH WAY
200 mm	10 mm $\phi$ @ 140mm EACH WAY

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm  $\phi$  AT 250mm O.C. EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm  $\phi$  STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS



## NOTES ON COLUMNS

- PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 HE CLEAR HEIGHT OF COLUMN OR 450 mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF THE COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS, WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.

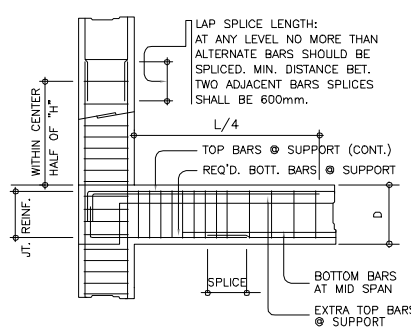


JOINT HOOP SPACE @ "2sh" WHEN THERE ARE BEAMS HAVING WIDTH OF AT LEAST ONE-HALF THE COLUMN WIDTH & DEPTHS NOT LESS THAN THREE QUARTERS OF THE DEEPEST BEAM THAT FRAME INTO FOUR SIDES OF THE COLUMN. ALL OTHER CONDITIONS USE HOOPS @ "sh" CENTERS.

FOR COL. BAR SPLICES SEE TABLE OF MIN. LAP SPLICE LENGTH OF COLUMN REINFORCEMENT (SPACING OF TIES ALONG THIS REGION SHALL NOT BE LESS THAN 100mm)

NOTE:  
ALL CONCRETE REINF. DETAIL SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF ACI DETAILING MANUAL

## TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



## TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECTION.

## NOTES ON BEAMS AND GIRDERS

- UNLESS, OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6mm  $\phi$  FOR EVERY 4.50M OF SPAN, EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

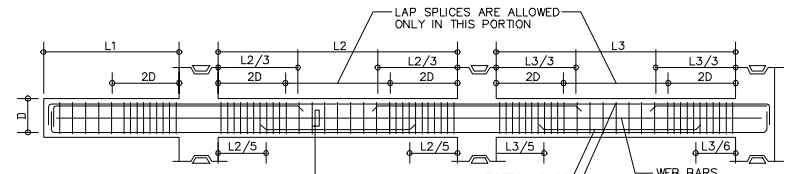


FIG. B-1

TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICES IN MILLIMETERS				
BAR SIZE (DEFORMED)	$f_c = 20.7 \text{ MPa}$ (3000 psi)		$f_c = 27.6 \text{ MPa}$ (4000 psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm $\phi$	300	300	300	300
12mm $\phi$	300	300	300	300
16mm $\phi$	300	400	300	300
20mm $\phi$	400	550	350	500
25mm $\phi$	600	800	550	750
28mm $\phi$	750	1000	650	850
32mm $\phi$	950	1300	850	1100

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2

TABLE 'B' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICES IN MILLIMETERS				
BAR SIZE (DEFORMED)	$f_c = 20.7 \text{ MPa}$ (3000 psi)		$f_c = 27.6 \text{ MPa}$ (4000 psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
10mm $\phi$	225	300	200	300
12mm $\phi$	275	300	250	300
16mm $\phi$	350	400	325	400
20mm $\phi$	400	500	475	500
25mm $\phi$	550	625	550	625
28mm $\phi$	625	675	625	675
32mm $\phi$	700	775	700	775

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2  
VALUES GIVEN ABOVE ALSO BE USED FOR COLUMNS

- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mm  $\phi$  BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.

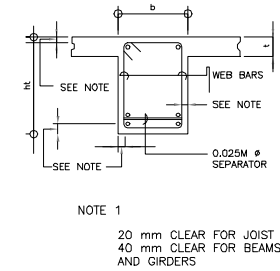


FIG. B-2

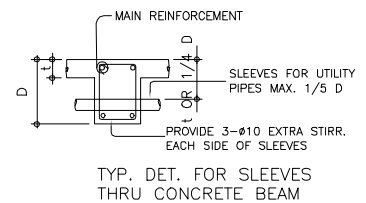


FIG. B-3

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS. BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT LINE WHENEVER POSSIBLE.
- GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B' WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	GENERAL CONSTRUCTION NOTES	S 21 01 41
LOCATION: LOAKAN, BAGUIO CITY						REV. NO./DATE 03 08-31-2021

# GENERAL CONSTRUCTION NOTES

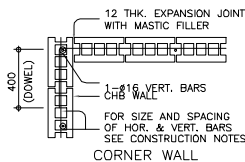
## NOTES ON CONCRETE HOLLOW BLOCK WALLS

- UNLESS, OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm X 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mm TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0 LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

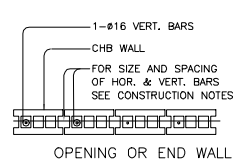
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
10mm #	10mm # 600mm O.C.	10mm # 600mm O.C.	A. MINIMUM LAPS AT SPlice = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENT SHALL BE PROVIDED
125mm #	10mm # 600mm O.C.	10mm # 600mm O.C.	
150mm #	10mm # 600mm O.C.	10mm # 600mm O.C.	
200mm #	12mm # 600mm O.C.	12mm # 600mm O.C.	

## REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

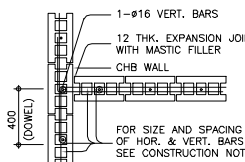
CLEAR SPAN LENGTH ('L') (L+0.40M)	TOTAL SPAN LENGTH ('L') (L+0.40M)	MIN. HEIGHT OF LINTEL (MM)	HEIGHT OF LINTEL (MM)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20M	1.60M	200	200	1-#10	1-#10	#6mm @ 200mm
1.20M	1.90M	200	200	1-#10	1-#10	#6mm @ 200mm
1.80M	2.20M	140	200	1-#12	1-#12	#6mm @ 200mm
2.10M	2.50M	170	250	1-#12	1-#10	#6mm @ 200mm
2.40M	2.90M	170	250	1-#12	1-#10	#6mm @ 200mm
2.70M	3.10M	250	250	1-#16	1-#12	#10mm @ 200mm
3.00	3.40M	300	300	1-#16	1-#12	#10mm @ 200mm
3.30	3.70M	300	300	1-#16	1-#12	#10mm @ 200mm
3.60	4.00M	300	300	1-#20	1-#12	#10mm @ 200mm



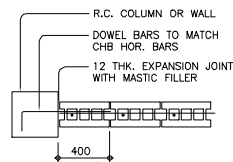
CORNER WALL



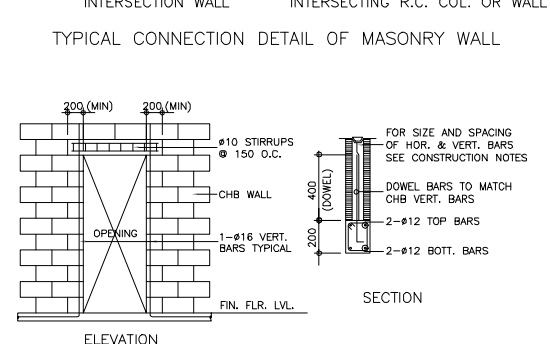
OPENING OR END WALL



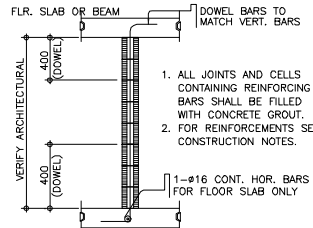
INTERSECTION WALL



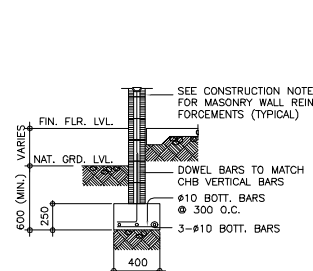
INTERSECTING R.C. COL. OR WALL



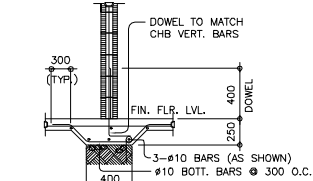
TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



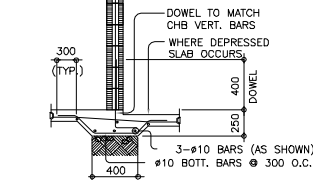
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS



TYPICAL CHB FOOTING DETAILS ( WHERE APPLICABLE )



TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT

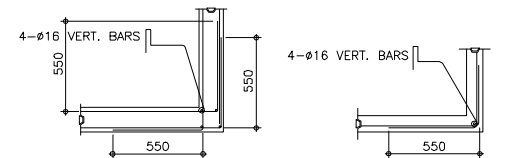
## NOTES ON CONCRETE WALLS

- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100mm	#10mm @ 250mm O.C.	#10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL	
125mm	#10mm @ 200mm O.C.	#10mm @ 250mm O.C.	BARS STAGGERED OUT	
150mm	#12mm @ 250mm O.C.	#12mm @ 300mm O.C.		

REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.

- CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M.O.C.
- UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm# BARS FOR 225mm, 200mm, 175mm, 150mm, USE 2-16mm# FOR 125mm AND 100mm WALLS, USE 2-12mm# BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.11)



TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

## NOTES ON WELDS

- USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

## NOTES ON STRUCTURAL STEEL

- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A 307 . BOLTS.

## NOTES ON EMBEDDED PIPES

- ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN COLUMNS.

## DESIGN CRITERIA

- LOADINGS
  - DEAD LOAD
 

CONCRETE	-24.00 kN/m <sup>3</sup>
STEEL	-77.00 kN/m <sup>3</sup>
150mm THK. CHB WALL	-3.10 kPa
100mm THK. CHB WALL	-3.00 kPa
  - LIVE ROAD ROOF -1.00 kPa
  - WIND LOAD (NSCP 2015)
 

BASIC WIND VELOCITY, V = 300 KPH  
 P = qh [(Ccpf)-(ccpi)] (DESIGN WIND PRESSURE)  
 WHERE: qh = VELOCITY PRESSURE, kPa  
 Ccpf = EXTERNAL PRESSURE COEFFICIENT  
 ccpi = INTERNAL PRESSURE COEFFICIENT
  - SEISMIC LOAD (NSCP 2015)
 

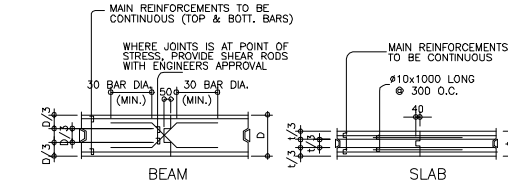
$v = \frac{C_v}{R} W$  (DESIGN BASE SHEAR)  
 $V_{max} = \frac{2.50 C_d W}{R}$   $V_{min} = 0.11 C_d W$   
 $V_{min} = 0.80 Z N W$  (ZONE 4)  
 WHERE: W = TOTAL DEAD LOAD  
 T = NATURAL PERIOD =  $G (h_s)^{0.7}$   
 WHERE: C = NUMERICAL COEFFICIENT  
 h = BUILDING HEIGHT  
 I = IMPORTANCE FACTOR = 1.50  
 R = NUMERICAL FACTOR = 8.50  
 SEISMIC COEFFICIENT  $C_v = 0.768$   
 $C_d = 0.44$   
 NEAR SOURCE FACTOR (10km)  $N_v = 1.2$   
 Z = SEISMIC ZONE = 0.40 (ZONE 4)  
 S = SOIL TYPE = D

NOTE: PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF RA 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.  
 THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

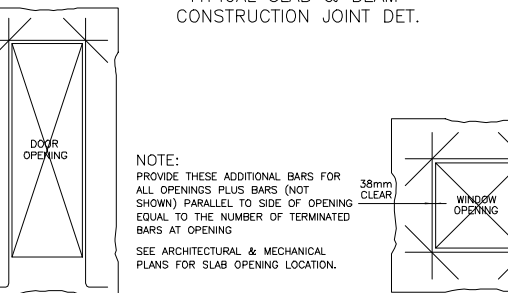
- DESIGN STRESSES
  - CONCRETE
    - COMPRESSIVE STRENGTH @ 28 DAYS  $f_c' = 27.58 \text{ MPa (4,000 psi)}$
    - REINFORCING BARS
      - FOR BARS 13mm # AND GREATER  $f_y = 414 \text{ MPa (60,000 psi)}$
      - FOR BARS LESS THAN 13mm #  $f_y = 274 \text{ MPa (40,000 psi)}$
  - STRUCTURAL STEEL, ASTM-A36 FOR TRUSSES, BRACINGS & STRUTS  $f_y = 248 \text{ MPa (36,000 psi)}$
  - PURLINS  $f_y = 248 \text{ MPa (36,000 psi)}$
  - COLD FORMED LIGHT GAUGE SHAPES WITH ENGINEERS APPROVAL  $f_y = 248 \text{ MPa (36,000 psi)}$
  - MASONRY UNIT (CHB)  $f_m' = 3.45 \text{ MPa (500 psi)}$
  - NON-LOAD BEARING CHB WALLS  $f_m' = 3.45 \text{ MPa (500 psi)}$
  - WELDS-USED E-60xx ELECTRODE
  - STRUCTURAL BOLTS, ASTM-A307
    - $F_t = 96.60 \text{ MPa (14,000 psi)}$
    - $F_v = 69 \text{ MPa (10,000 psi)}$

## NOTES ON CONSTRUCTION JOINTS IN CONCRETE

- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



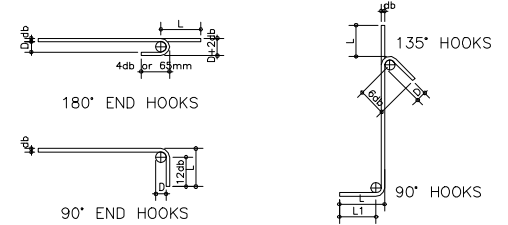
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.



TYP. EXTERIOR WINDOW & DOOR OPENING

## NOTES OF STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.



BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK	
		D+2db	L	D+2db	L
10mm #	60	75	125	150	150
12mm #	75	100	150	200	115
16mm #	95	125	175	250	150
20mm #	115	150	200	300	300
25mm #	150	200	230	450	450
28mm #	240	300	350	550	550
32mm #	300	335	450	600	600

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK	
		D+2db	L	D+2db	L
10mm #	40	125	85	100	100
12mm #	50	165	115	115	115
16mm #	65	200	140	150	150
20mm #	115	250	165	300	300
25mm #	150	365	230	405	405



PROJECT TITLE: PROPOSED BCEZ MULTI-PURPOSE CENTER  
 LOCATION: LOAKAN, BAGUIO CITY

PREPARED BY: JC KING B. MANASALA  
 ESO II / Civil Engineer

CHECKED BY: JOSEPH C. GALONG  
 DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY: PAUL M. CODAMON  
 DEPARTMENT MANAGER, OPERATIONS

APPROVED BY: ATTY. ROSS VINCENT S. SY  
 OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

SHEET CONTENT: GENERAL CONSTRUCTION NOTES

SHEET NUMBER: S 02 / 22 41  
 REV. NO. / DATE: 03 08-31-2021



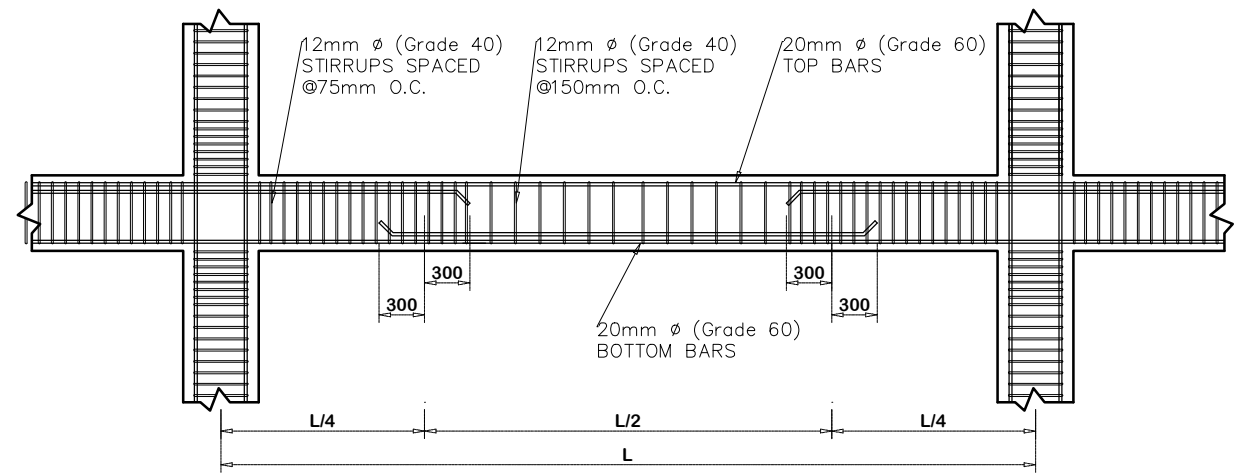
DESIGNATION	SECTION @ SUPPORT	SECTION @ MIDSPAN
TB	<p>4 - 20mm <math>\phi</math> (Grade 60) TOP BARS 12mm <math>\phi</math> (Grade 40) STIRRUPS SPACED @150mm O.C. 3 - 20mm <math>\phi</math> (Grade 60) BOTTOM BARS</p> <p>Note: Concrete Strength (<math>f_c'</math>) is 28Mpa = 4,000Psi</p>	<p>4 - 20mm <math>\phi</math> (Grade 60) TOP BARS 12mm <math>\phi</math> (Grade 40) STIRRUPS SPACED @150mm O.C. 3 - 20mm <math>\phi</math> (Grade 60) BOTTOM BARS</p>
B1	<p>6 - 20mm <math>\phi</math> (Grade 60) TOP BARS 12mm <math>\phi</math> (Grade 40) STIRRUPS SPACED @150mm O.C. 3 - 20mm <math>\phi</math> (Grade 60) BOTTOM BARS</p> <p>Note: Concrete Strength (<math>f_c'</math>) is 28Mpa = 4,000Psi</p>	<p>3 - 20mm <math>\phi</math> (Grade 60) TOP BARS 12mm <math>\phi</math> (Grade 40) STIRRUPS SPACED @150mm O.C. 3 - 20mm <math>\phi</math> (Grade 60) BOTTOM BARS</p>

**BEAM SCHEDULE**

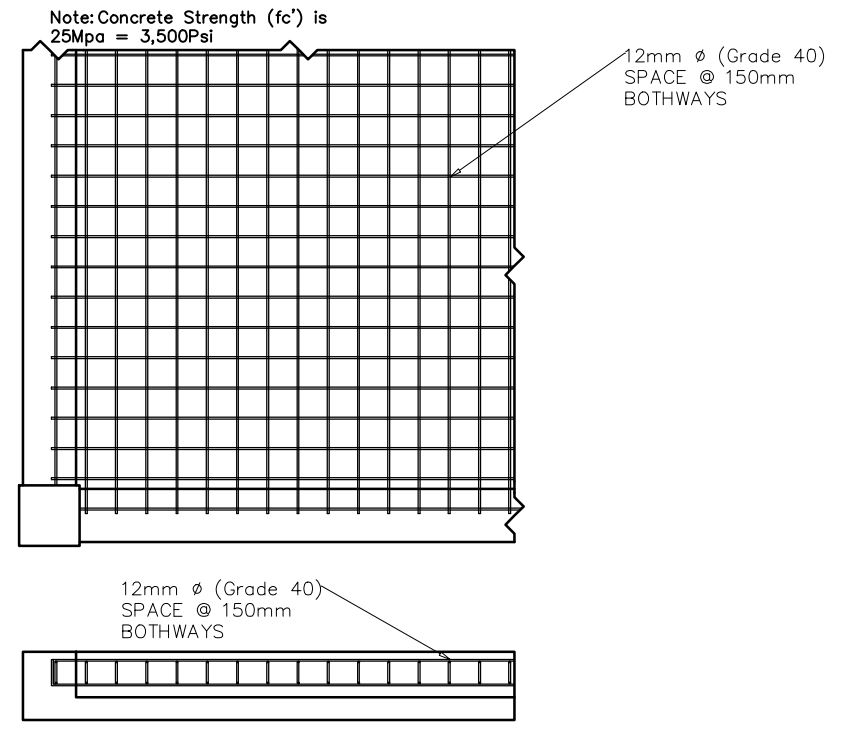


DESIGNATION	DIMENSION and Number of RSB	COLUMN TIES / STIRRUPS / RINGS
C1	<p>12 - 20MM <math>\phi</math> (GRADE 60) VERTICAL BARS</p> <p>Note: Concrete Strength (<math>f_c'</math>) is 28Mpa = 4,000Psi</p>	<p>TIES SPACING 12mm <math>\phi</math> (Grade 40) SPACE AT 8 @ 50mm, 8 @ 75mm, 6 @ 100mm, 6 @ 150mm, REST 200mm</p>
C2	<p>12 - 20mm <math>\phi</math> (Grade 60) VERTICAL BARS</p> <p>Note: Concrete Strength (<math>f_c'</math>) is 28Mpa = 4,000Psi</p>	<p>TIES SPACING 12mm <math>\phi</math> (Grade 40) SPACE AT 8 @ 50mm, 8 @ 75mm, 6 @ 100mm, 6 @ 150mm, REST 200mm</p>

**COLUMN SCHEDULE AND DETAILS**



**BEAM SECTION**



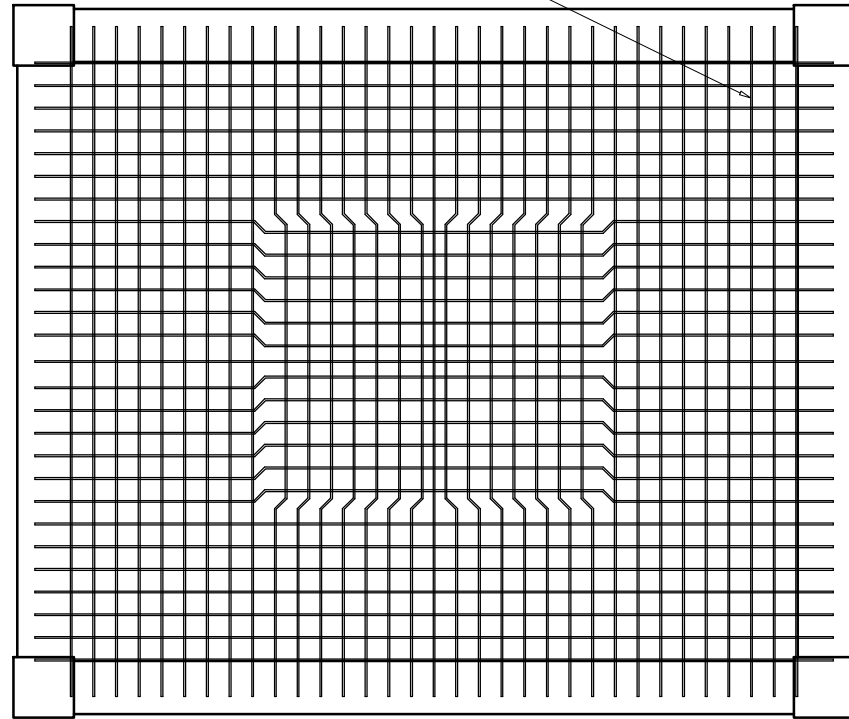
**SLAB ON GRADE DETAIL (SG)**



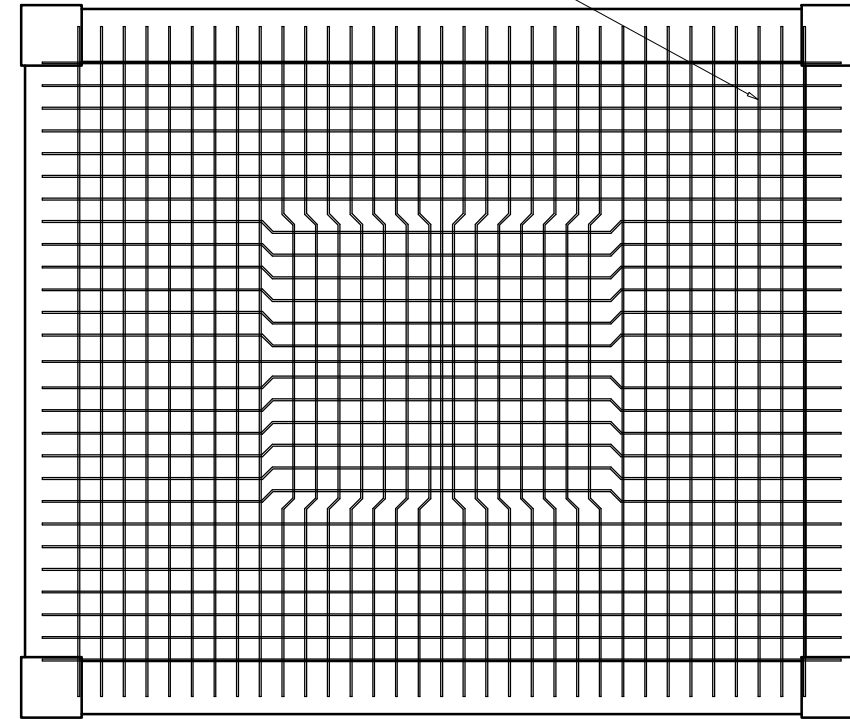
BEAM MARK	BEAM DIMENSIONS		REINFORCING STEEL BARS			
	Width (mm)	Depth (mm)	At Support (Top)	At Support (Bottom)	At Midspan (Top)	At Midspan (Bottom)
TB	350	450	4-20mm $\phi$ (Grade 60) spaced equally O.C.	3-20mm $\phi$ (Grade 60) spaced equally O.C.	4-20mm $\phi$ (Grade 60) spaced equally O.C.	3-20mm $\phi$ (Grade 60) spaced equally O.C.
B1	300	400	6-20mm $\phi$ (Grade 60) spaced equally O.C.	3-20mm $\phi$ (Grade 60) spaced equally O.C.	3-20mm $\phi$ (Grade 60) spaced equally O.C.	3-20mm $\phi$ (Grade 60) spaced equally O.C.

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT: STRUCTURAL SCHEDULES: • BEAM SCHEDULE • COLUMN SCHEDULE AND DETAILS SLAB SCHEDULE: • SLAB ON GRADE DETAIL (SG)	SHEET NUMBER	
	PROPOSED BCEZ MULTI-PURPOSE CENTER		JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS		ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	
	LOCATION: LOAKAN, BAGUIO CITY						REV. NO./DATE 03 08-31-2021	

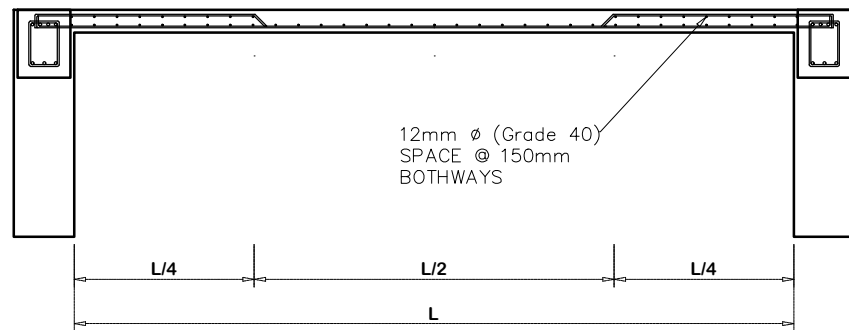
12mm  $\phi$  (Grade 40)  
SPACE @ 150mm  
BOTHWAYS



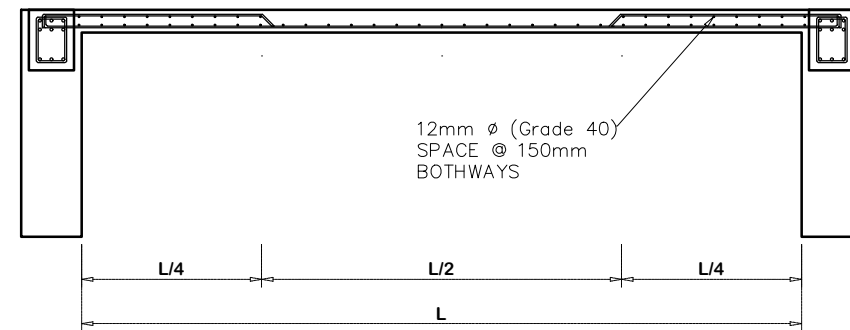
12mm  $\phi$  (Grade 40)  
SPACE @ 150mm  
BOTHWAYS



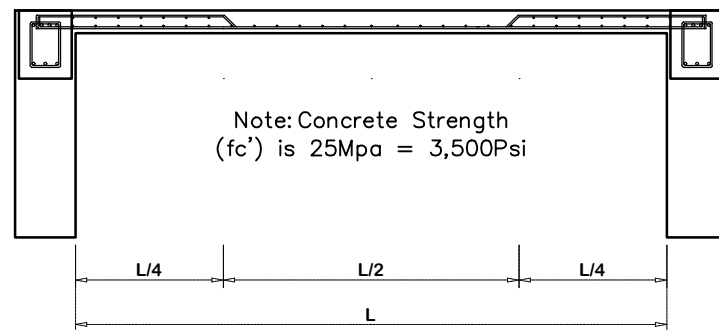
12mm  $\phi$  (Grade 40)  
SPACE @ 150mm  
BOTHWAYS



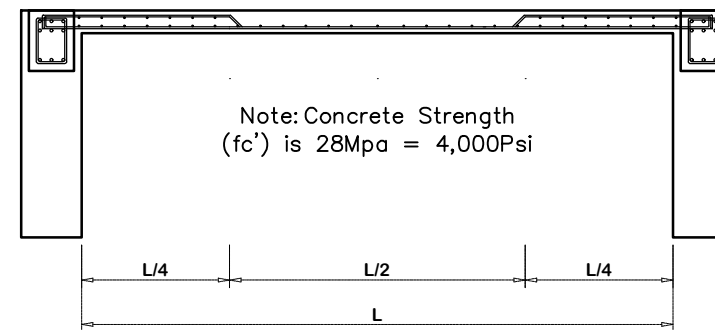
12mm  $\phi$  (Grade 40)  
SPACE @ 150mm  
BOTHWAYS



Note: Concrete Strength  
( $f_c'$ ) is 25Mpa = 3,500Psi



Note: Concrete Strength  
( $f_c'$ ) is 28Mpa = 4,000Psi



### SLAB 01 DETAIL (SG1)

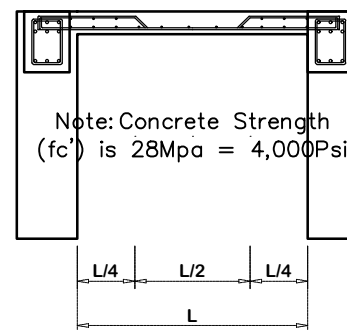
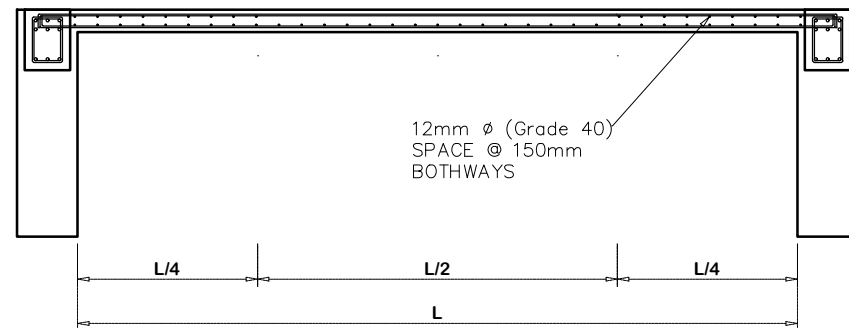
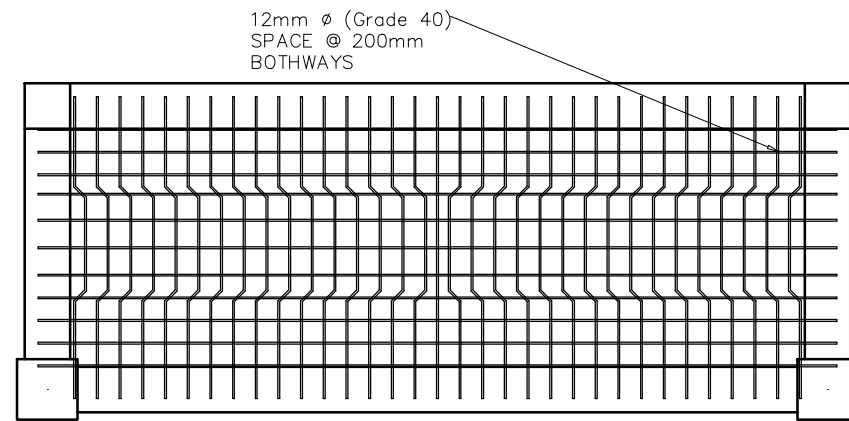
SCALE 1:50 M

### SLAB 02 DETAIL (S2)

SCALE 1:50 M



PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	SLAB SCHEDULE: • SLAB 01 DETAIL (S1) • SLAB 01 DETAIL (S2)	S 24 04 41
LOCATION: LOAKAN, BAGUIO CITY						REV. NO./DATE 03 08-31-2021



### SLAB 01 DETAIL (S1)

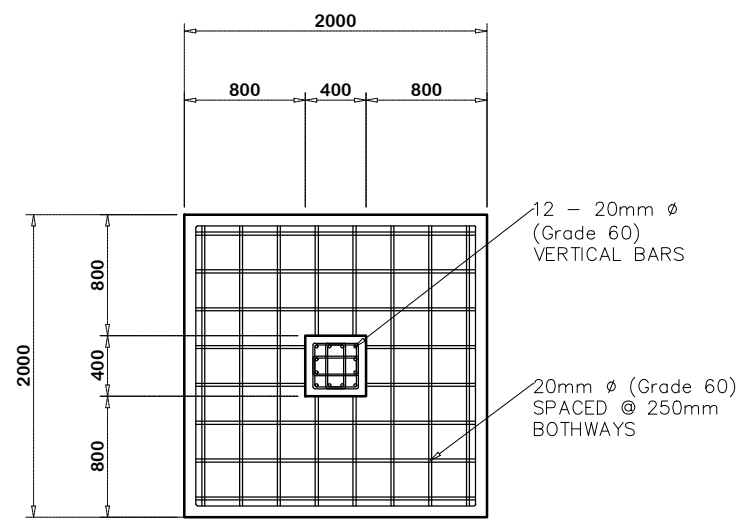
SCALE 1:50 M

FOOTING MARK	FOOTING DIMENSIONS				REINFORCING STEEL BARS	
	Lx (mm)	Ly (mm)	Thk. (mm)	Depth (mm)	Asx	Asy
F1	2000	2000	400	1950	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.
F2	2300	2300	400	1950	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.
F3	2300	4200	400	1950	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.
F4	1500	1500	400	1500	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.	20mm $\phi$ (Grade 60) spaced @ 250mm O.C.
STF	600	1750	250	750	3-16mm $\phi$ (Grade 60) spaced equally O.C.	9-16mm $\phi$ (Grade 60) spaced equally O.C.

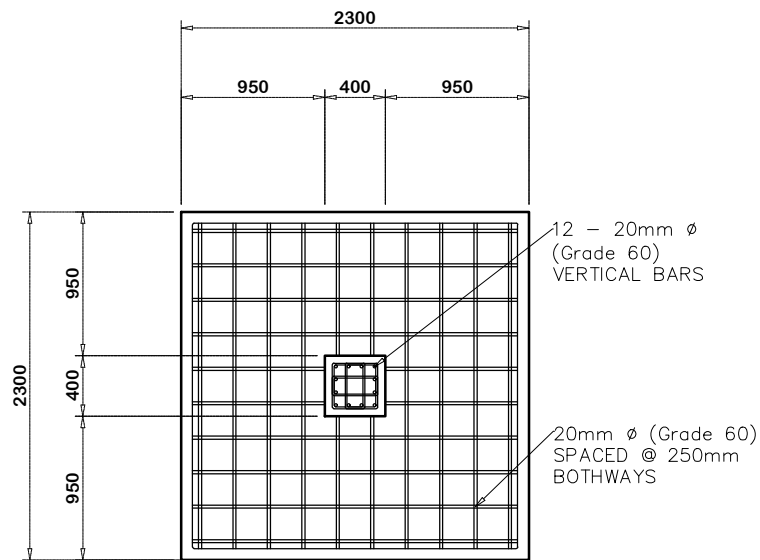
COLUMN MARK	COLUMN DIMENSIONS		REINFORCING STEEL BARS	
	Lx (mm)	Ly (mm)	Asx	Lateral Ties
C1	400	400	12-20mm $\phi$ (Grade 60) spaced equally D.C.	TIES SPACING 12mm $\phi$ (Grade 40) SPACE AT 8 @ 50mm, 8 @ 75mm, 6 @ 100mm, 6 @ 150mm, REST 200mm (3 sets)
C2	300	300	8-20mm $\phi$ (Grade 60) spaced equally O.C.	TIES SPACING 12mm $\phi$ (Grade 40) SPACE AT 8 @ 50mm, 8 @ 75mm, 6 @ 100mm, 6 @ 150mm, REST 200mm (2 sets)
STC	300	1450	16-16mm $\phi$ (Grade 60) spaced equally O.C.	TIES SPACING 12mm $\phi$ (Grade 40) SPACE AT 8 @ 50mm, 8 @ 75mm

SLAB MARK	DESCRIPTION	DESIGN	REINFORCING STEEL BARS		THICKNESS (mm)
			Continuous Bars	Cut Bars	
SG	Slab-on-grade	Cage Type	12mm $\phi$ (Grade 40) Top and Bottom Bars spaced @ 200mm O.C. bothways		300
SG1	Slab-on-grade	Two-way Slab	12mm $\phi$ (Grade 40) Top and Bottom Temperature Bars spaced @ 150mm O.C. bothways		150
S1	Suspended Slab	One-way Slab	12mm $\phi$ (Grade 40) Top and Bottom Temperature Bars spaced @ 150mm O.C. bothways		150
S1	Suspended Slab	Two-way Slab	12mm $\phi$ (Grade 40) Top and Bottom Temperature Bars spaced @ 150mm O.C. bothways		150
STS	Stairs	One-way Slab	12mm $\phi$ (Grade 40) Top and Bottom Temperature Bars spaced @ 150mm, 190mm respectively O.C. bothways / Main Bars 16mm $\phi$ (Grade 60) Top and Bottom Bars spaced @ 190mm O.C.		150

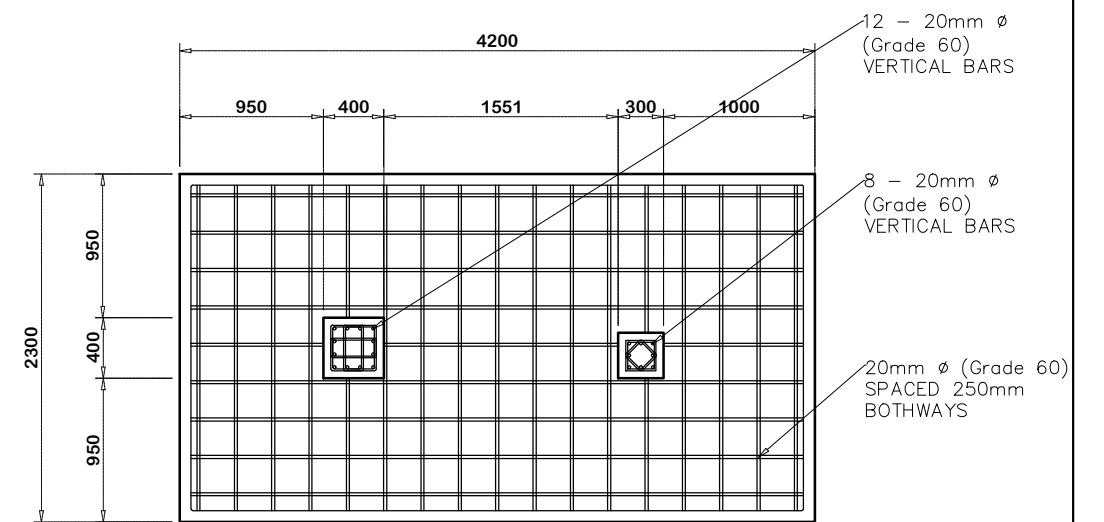
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	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	SLAB 01 DETAIL (S1) STRUCTURAL SCHEDULES: - FOOTING SCHEDULE - COLUMN SCHEDULE - SLAB SCHEDULE	<table border="1"> <tr> <td>S</td> <td>25</td> </tr> <tr> <td>05</td> <td>41</td> </tr> </table>	S	25	05	41
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05	41										
LOCATION: LOAKAN, BAGUIO CITY						REV. NO./DATE 03 08-31-2021					



PLAN VIEW

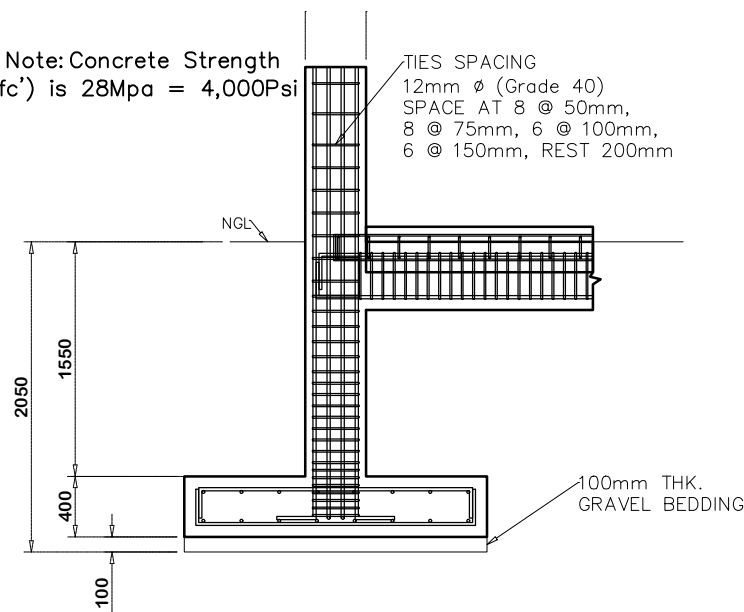


PLAN VIEW



PLAN VIEW

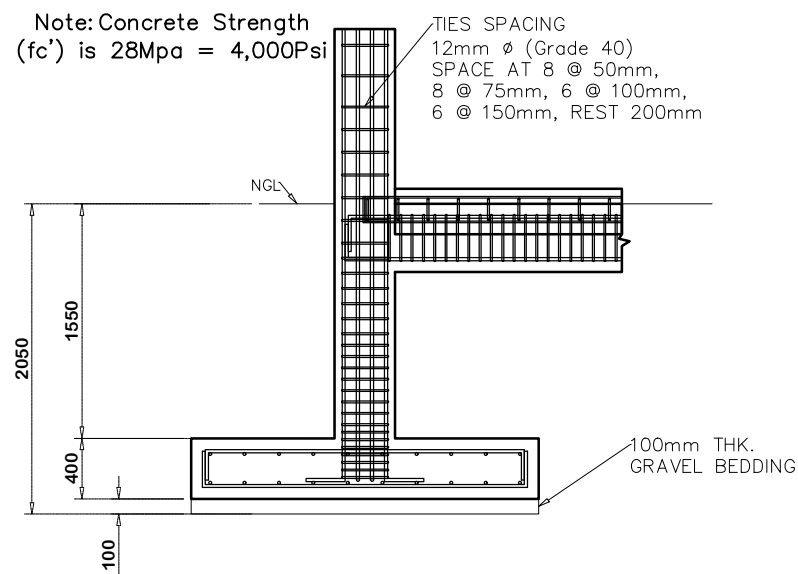
Note: Concrete Strength (fc') is 28Mpa = 4,000Psi



SECTIONAL VIEW  
F1-C1 DETAIL

SCALE 1:50 M

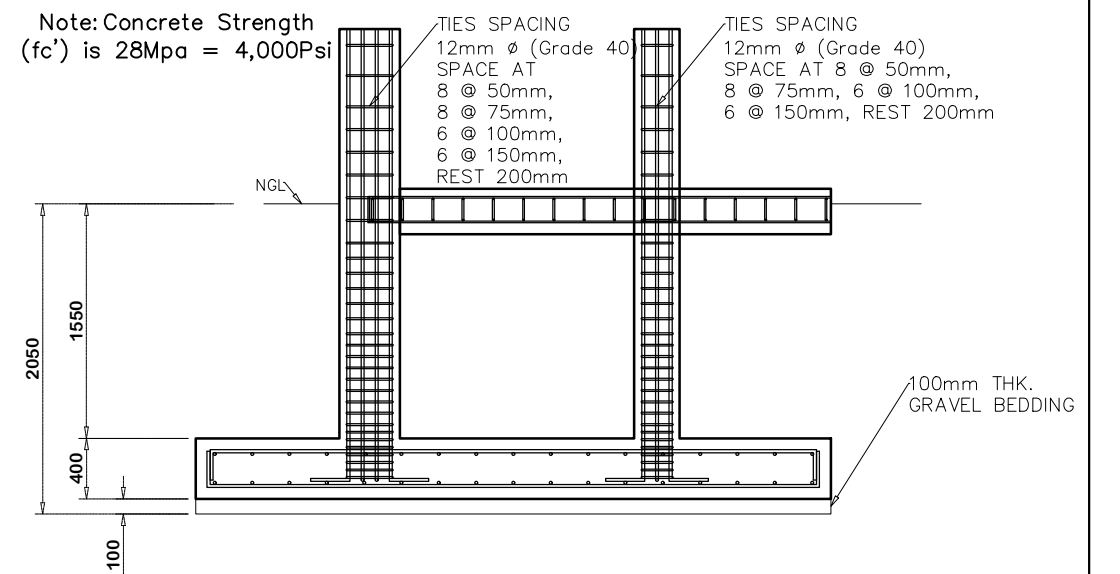
Note: Concrete Strength (fc') is 28Mpa = 4,000Psi



SECTIONAL VIEW  
F2-C1 DETAIL


SCALE 1:50 M

Note: Concrete Strength (fc') is 28Mpa = 4,000Psi

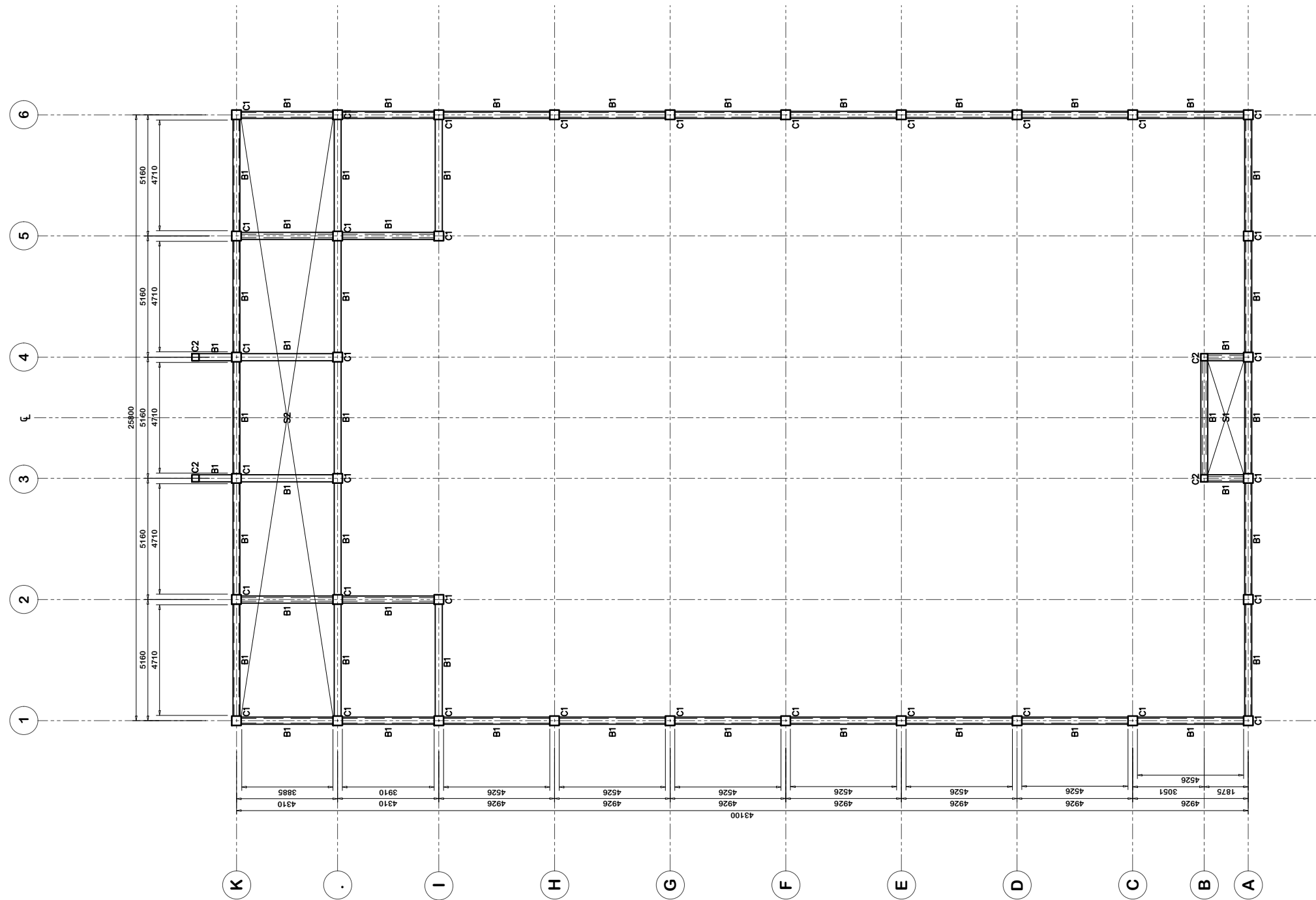


SECTIONAL VIEW  
F3-C1 DETAIL


SCALE 1:50 M

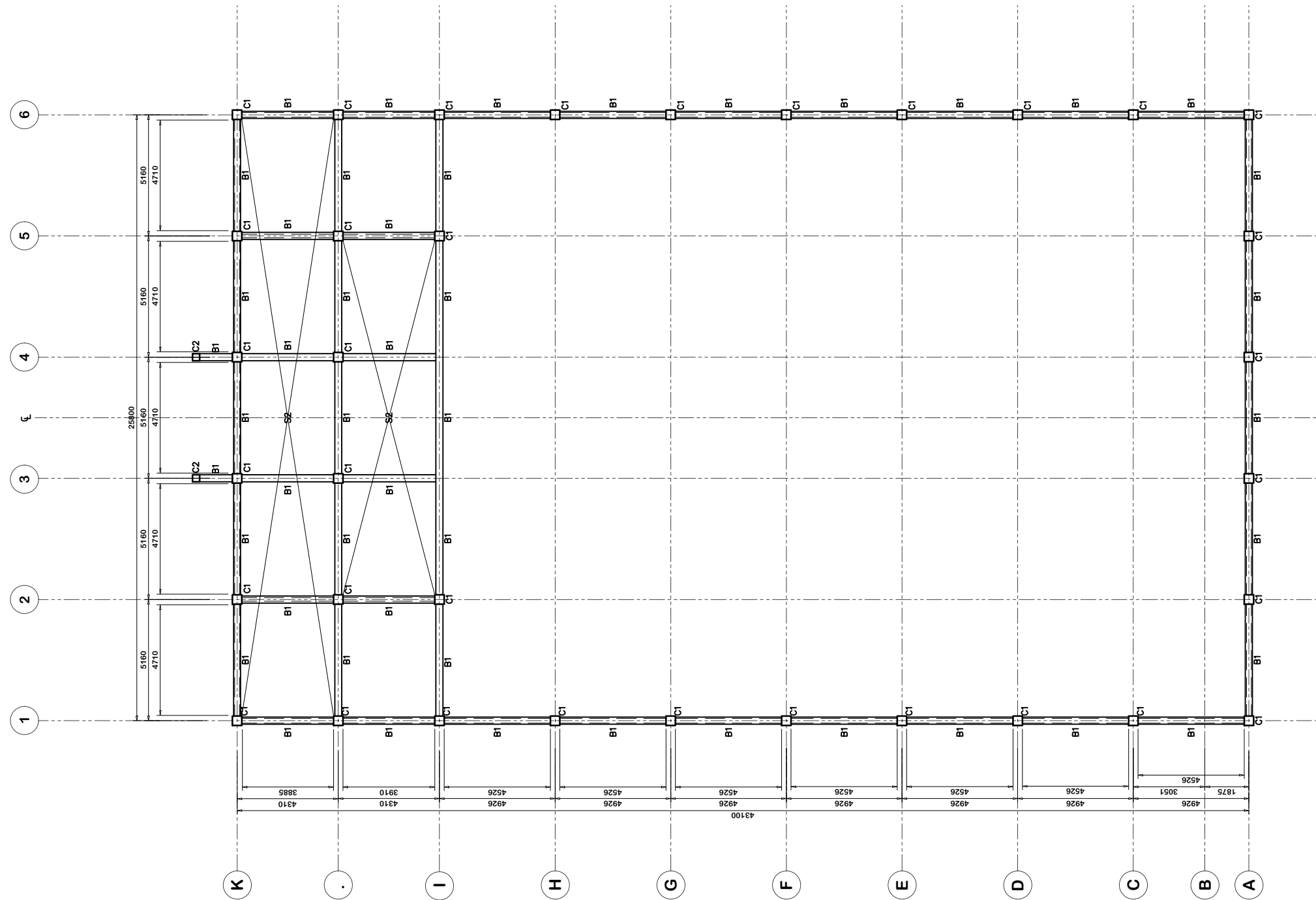
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	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	FOUNDATION SCHEDULE AND SECTION	<table border="1"> <tr> <td>S</td> <td>26</td> </tr> <tr> <td>06</td> <td>41</td> </tr> </table>	S	26	06	41
	S	26									
	06	41									
LOCATION:							REV. NO./DATE				
LOAKAN, BAGUIO CITY							03 08-31-2021				






SECOND FLOOR FRAMING PLAN  
 SCALE 1:50 M

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER				
	PROPOSED BCEZ MULTI-PURPOSE CENTER	<u>JC KING B. MANASALA</u> ESO II/ Civil Engineer	<u>JOSEPH C. GALONG</u> DIVISION CHIEF, EMD	<u>PAUL M. CODAMON</u> DEPARTMENT MANAGER , OPERATIONS	<u>ATTY. ROSS VINCENT S. SY</u> OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	• SECOND FLOOR FRAMING PLAN	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">S</td> <td style="text-align: center;">28</td> </tr> <tr> <td style="text-align: center;">08</td> <td style="text-align: center;">41</td> </tr> </table>	S	28	08	41
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LOCATION:	LOAKAN, BAGUIO CITY						REV. NO./DATE				
							03 08-31-2021				



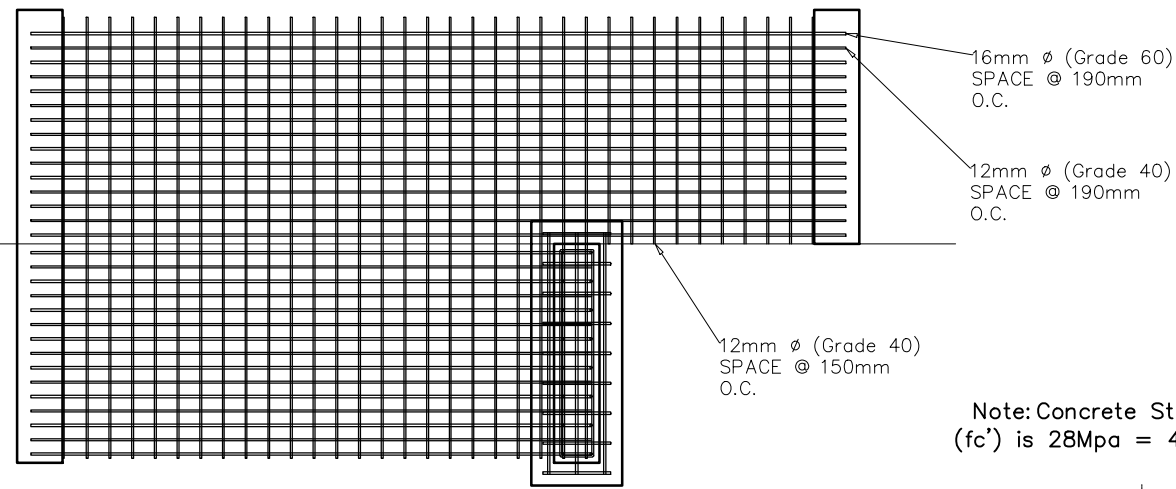
**THIRD FLOOR FRAMING PLAN**  
 SCALE 1:50 M

	<b>PROJECT TITLE:</b>	<b>PREPARED BY:</b>	<b>CHECKED BY:</b>	<b>RECOMMENDING APPROVAL BY:</b>	<b>APPROVED BY:</b>	<b>SHEET CONTENT:</b>	<b>SHEET NUMBER</b>						
	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER , OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	• THIRD FLOOR FRAMING PLAN	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 50%;">S 09</td> <td style="text-align: center; width: 50%;">29 41</td> </tr> <tr> <td colspan="2" style="text-align: center; font-size: small;">REV. NO. /DATE</td> </tr> <tr> <td colspan="2" style="text-align: center;">03 08-31-2021</td> </tr> </table>	S 09	29 41	REV. NO. /DATE		03 08-31-2021	
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<b>LOCATION:</b>	LOAKAN, BAGUIO CITY												





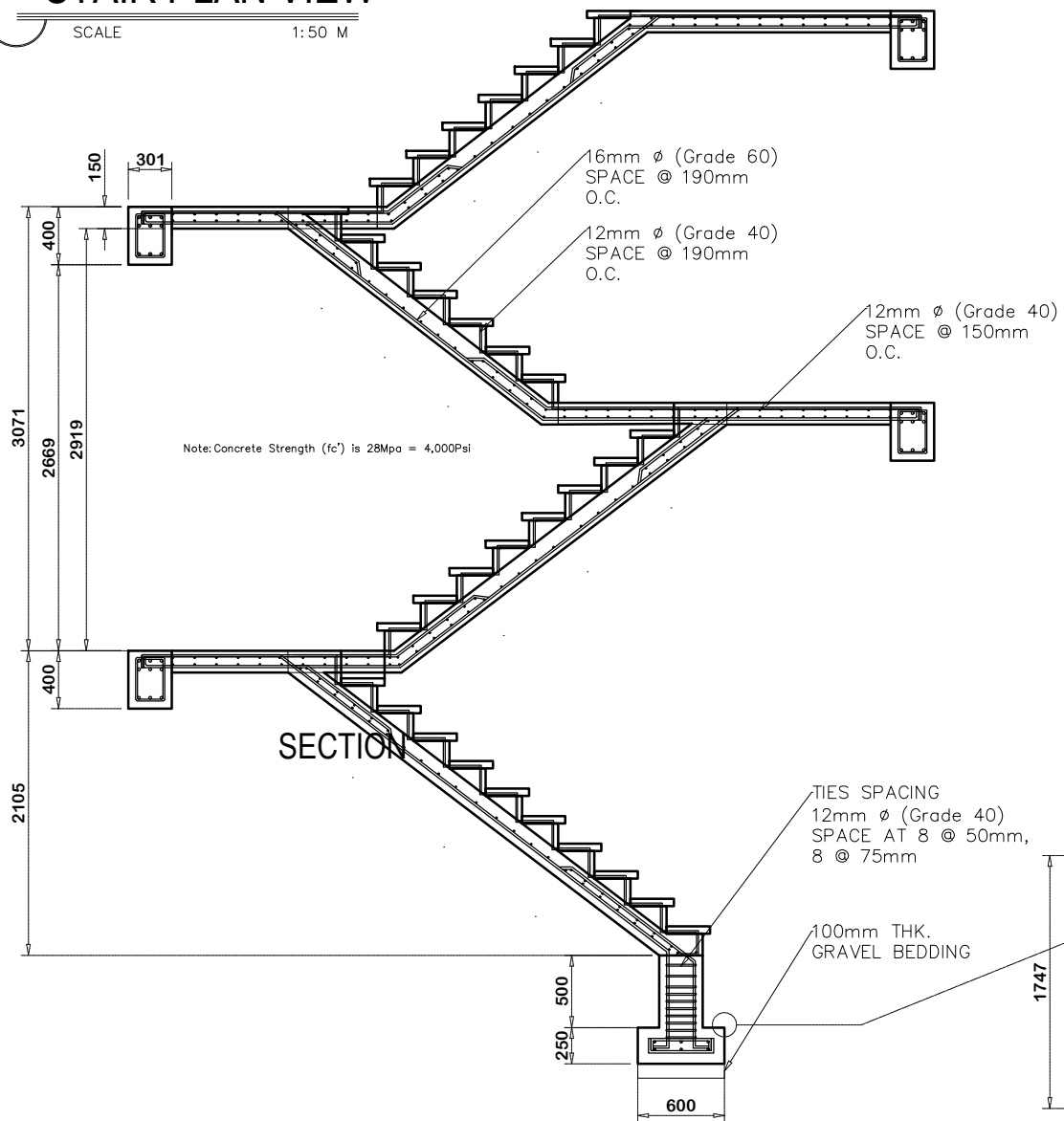




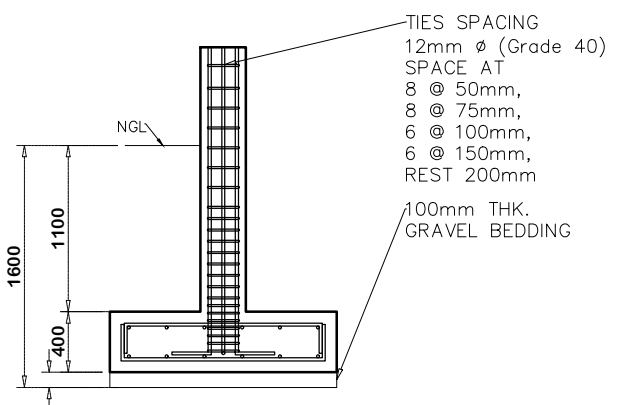
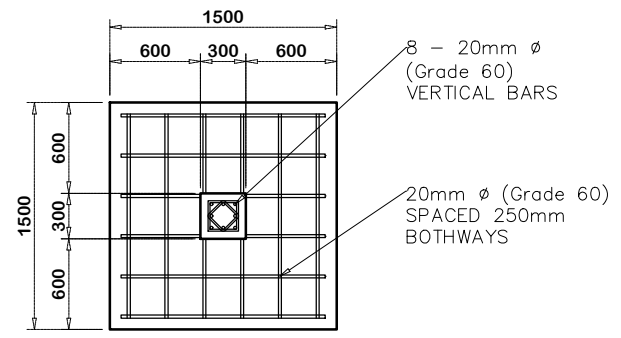
Note: Concrete Strength  
( $f_c'$ ) is 28Mpa = 4,000Psi

### STAIR PLAN VIEW

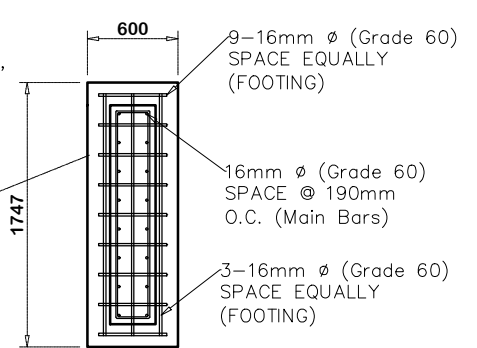
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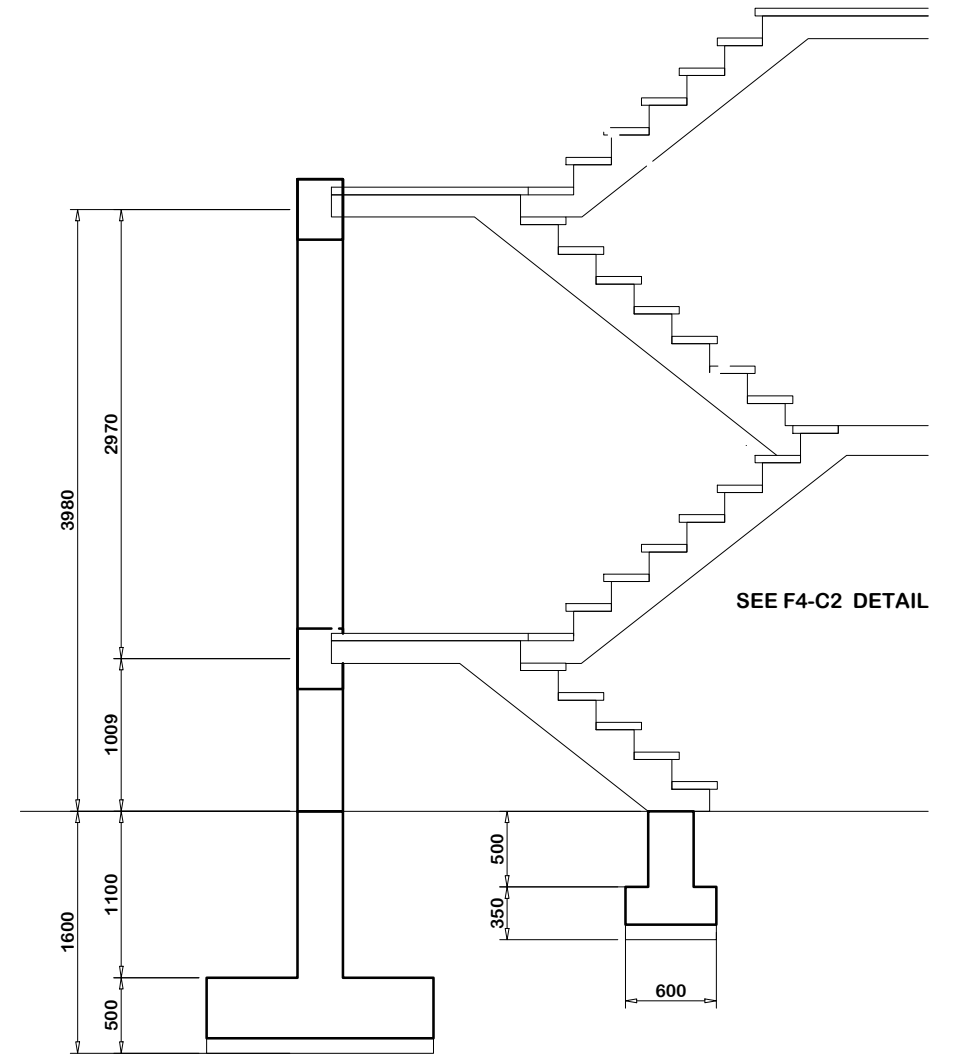
### SECTION



### F4-C2



### STAIR FOOTING PLAN VIEW

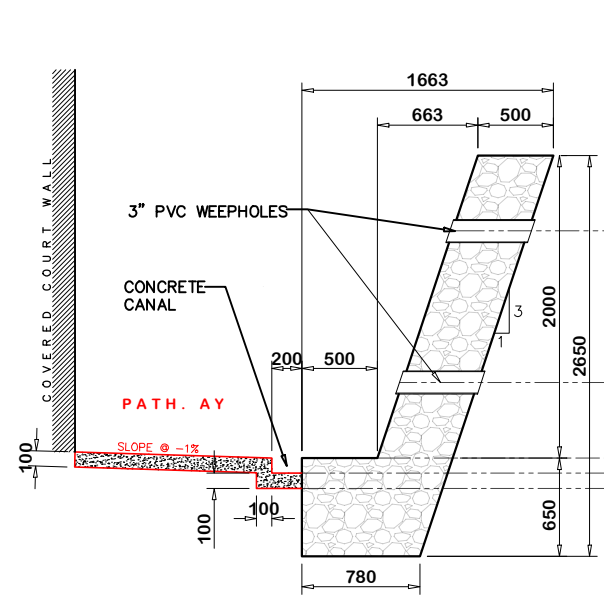


### EMERGENCY EXIT STAIR STRUCTURAL DETAIL

### STAIR SECTION

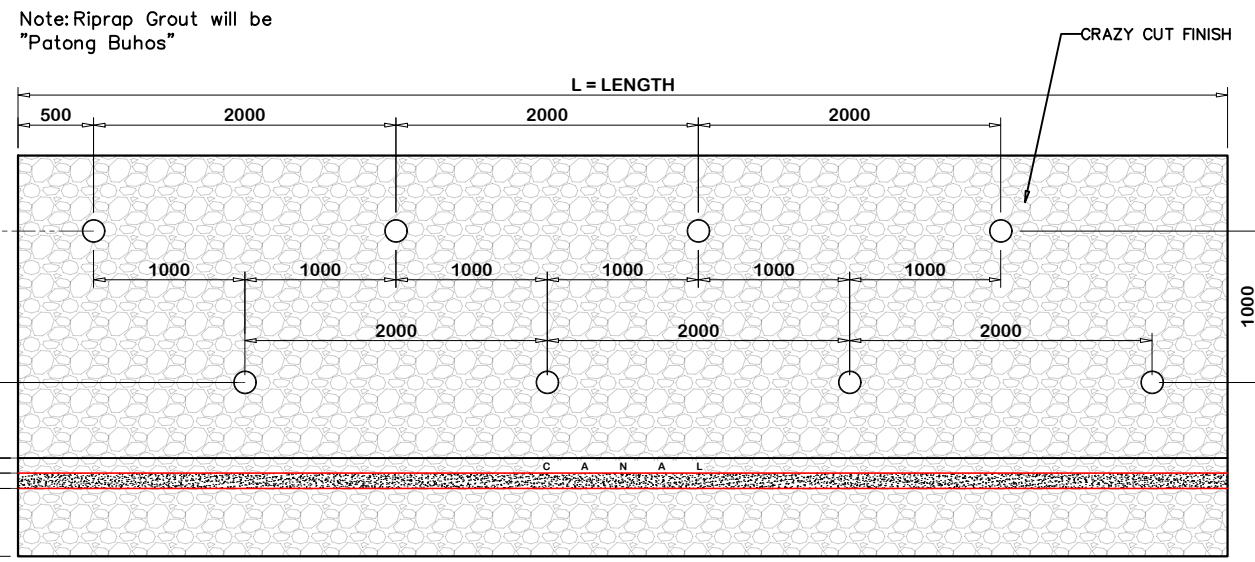
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	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER	
	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANASALA ESO II/ Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	STAIR STRUCTURAL DETAILS	S 12 32 41	
	LOCATION:							REV. NO./DATE
	LOAKAN, BAGUIO CITY							03 08-31-2021



**RIPRAP FRONT SECTION**

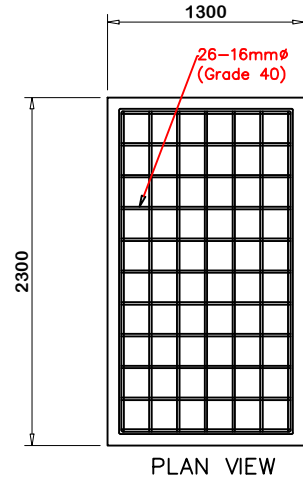
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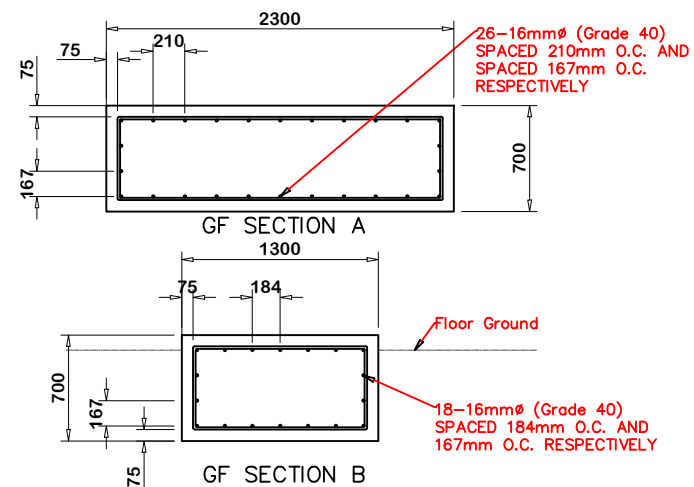
**RIPRAP FRONT ELEVATION**

SCALE 1:200 M

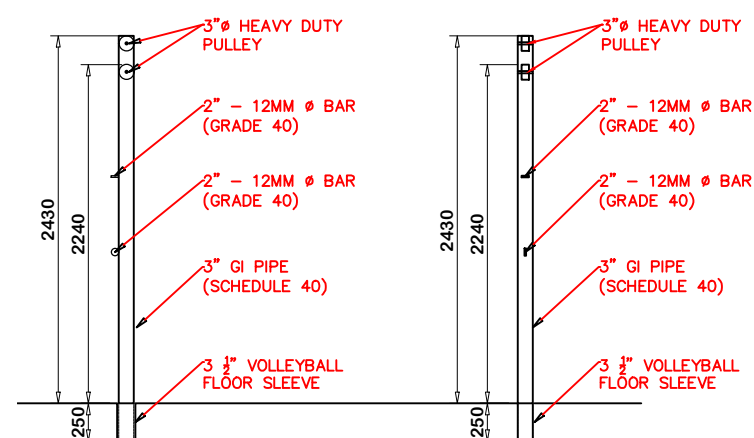
Note: Concrete Strength (fc') is 25Mpa = 3,500Psi



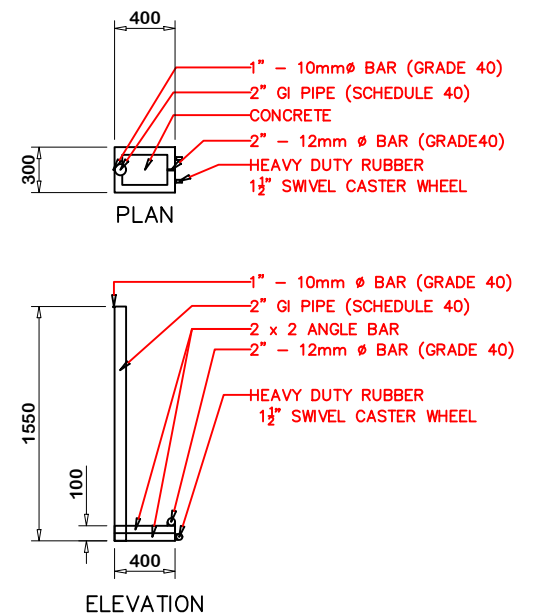
PLAN VIEW



GF SECTION B

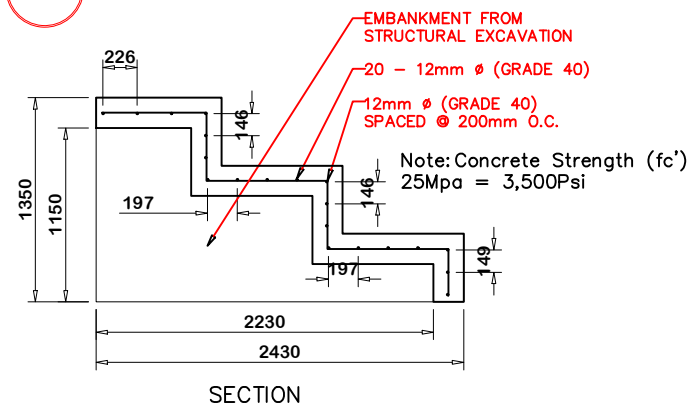


**VOLLEYBALL POLE**

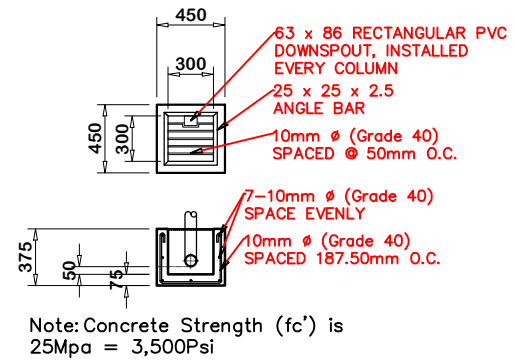


**BADMINTON POLE**

**GENSET FOUNDATION DETAILS**



**BENCH SECTION**



**CATCH BASIN DETAIL**

Note: Concrete Strength (fc') is 25Mpa = 3,500Psi



PROJECT TITLE:	PROPOSED BCEZ MULTI-PURPOSE CENTER	PREPARED BY:	JC KING B. MANASALA ESO II/ Civil Engineer	CHECKED BY:	JOSEPH C. GALONG DIVISION CHIEF, EMD	RECOMMENDING APPROVAL BY:	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	APPROVED BY:	ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	SHEET CONTENT:	<ul style="list-style-type: none"> <li>RIPRAP DETAIL</li> <li>GENSET FOUNDATION DETAIL</li> <li>BENCH SECTION DETAIL</li> <li>VOLLEYBALL POLE DETAIL</li> <li>BADMINTON POLE DETAIL</li> <li>CATCH BASIN DETAIL</li> </ul>	SHEET NUMBER:	<table border="1"> <tr> <td>S</td> <td>33</td> </tr> <tr> <td>13</td> <td>41</td> </tr> <tr> <td colspan="2">REV. NO./DATE</td> </tr> <tr> <td colspan="2">03 08-31-2021</td> </tr> </table>	S	33	13	41	REV. NO./DATE		03 08-31-2021	
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13	41																				
REV. NO./DATE																					
03 08-31-2021																					

### GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2-WIRE, 230V AC, 60HZ.
- WIRING METHOD SHALL BE AS FOLLOWS:  
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUNS SHALL BE 3.5mm<sup>2</sup> AND INSULATED FOR 600VOLTS. LIKE WISE, ALL CONDUCTORS SHALL BE COLOR-CODED. SMALLEST RACEWAY SHALL BE 15mmØ. (NOMINAL)
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR PARTICULAR LOCATION AND PURPOSE OF USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
  - LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR
  - CONVENIENCE OUTLET - 0.3M ABOVE FINISH FLOOR
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

**E** GENERAL ELECTRICAL NOTES  
11 NOT DRAWN TO SCALE

### ELECTRICAL LEGENDS & SYMBOLS

	CIRCUIT RUN
	PANEL BOARD 01
	PANEL BOARD 02
	PANEL BOARD 03
	MAIN DISTRIBUTION PANEL
	RECESSED DL, 24W
	RECESSED DL, 12W
	WALL TYPE LED, 18W
	300W EFL
	MOTION SENSOR BULBS
	CONVENIENCE OUTLET
	WIRING IN CONDUIT CONCEALED IN FLOOR
	WIRING IN CONDUIT CONCEALED IN CEILING
	1 GANG SWITCH
	2 GANG SWITCH
	3 GANG SWITCH
	GROUNDING ROD
	POWER ENTRANCE CAP

### MAIN PANEL BOARD

CKT. NO.	LOAD DESCRIPTION	VA	VOLTS	CKT BREAKER			SIZE OF WIRE	SIZE OF CONDUITS
				A.T.	A.F.	POLE KAIC		
1	PANEL BOARD 1 - AT CONTROL ROOM	6,760	220	50		3	2-8.0 mm <sup>2</sup> THHN STRANDED WIRE	30 mm Ø RSC
2	PANEL BOARD 2 - AT CONTROL ROOM	6,760	220	50		2	2-8.0 mm <sup>2</sup> THHN STRANDED WIRE	30 mm Ø RSC
3	PANEL BOARD 3 - AT STAGE	7,960	220	40		2	2-8.0 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
4	PROVISION FOR GATE 1 (G1)		220	50			2-8.0 mm <sup>2</sup> THHN STRANDED WIRE	20 mm Ø RSC
TOTAL CONNECTED LOAD		3,000 VA	MAIN : 100AT, 100AF, 2P, 220V, 18 KAIC					
USE: 3-30mm <sup>2</sup> THHN WIRE STRANDED 30mmØ RSC								

### SUB-PANEL BOARD 01

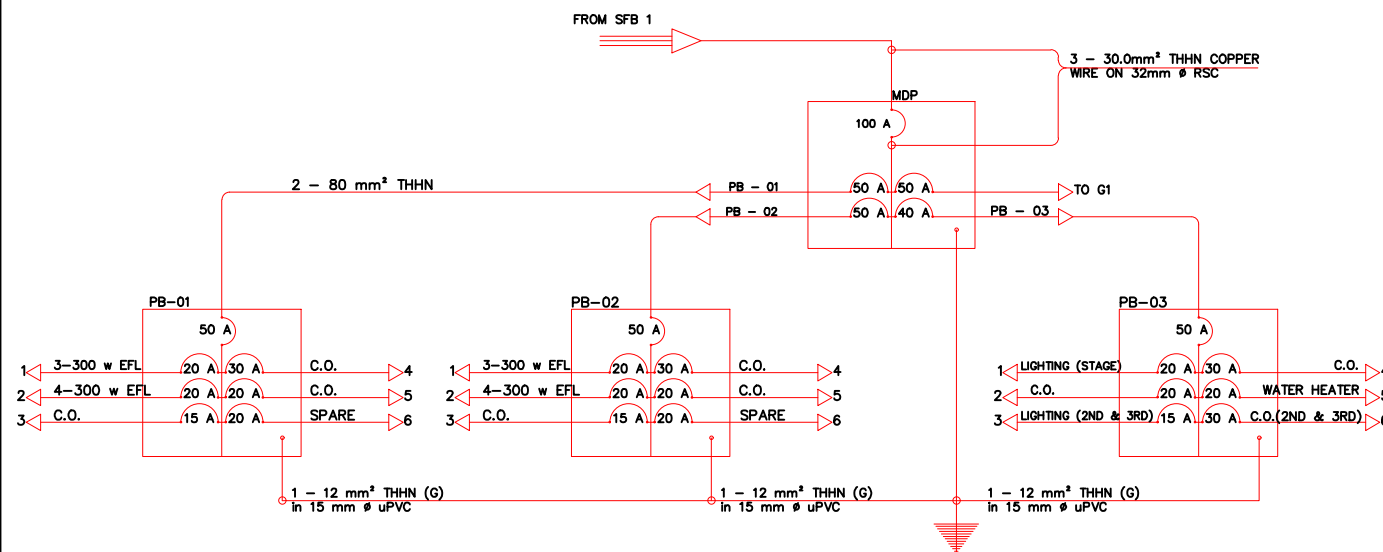
CKT. NO.	LOAD DESCRIPTION	VA	VOLTS	CKT BREAKER			SIZE OF WIRE	SIZE OF CONDUITS
				A.T.	A.F.	POLE KAIC		
1	LIGHTING (3-300 w EFL)	900	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
2	LIGHTING (3-300 w EFL)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
3	LIGHTING (bench, control room)	260	220	15		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
4	CONVENIENCE OUTLET (bench, stage)	3,200	220	30		2	2-5.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
5	CONVENIENCE OUTLET (Control room)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
6	SPARE		220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
TOTAL CONNECTED LOAD		6,760 VA	MAIN : 50 AT, 50 AF, 2P, 220V, 18 KAIC					
USE: 2-8.0mm <sup>2</sup> THHN WIRE STRANDED 20mmØ RSC								

### SUB-PANEL BOARD 02

CKT. NO.	LOAD DESCRIPTION	VA	VOLTS	CKT BREAKER			SIZE OF WIRE	SIZE OF CONDUITS
				A.T.	A.F.	POLE KAIC		
1	LIGHTING (3-300 w EFL)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
2	LIGHTING (3-300 w EFL)	900	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
3	CONVENIENCE OUTLET (Perimeter, bench, control room)	260	220	15		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
4	CONVENIENCE OUTLET (Bench, stage)	3,200	220	30		2	2-5.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
5	CONVENIENCE OUTLET (Control room)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
6	SPARE		220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
TOTAL CONNECTED LOAD		6,760 VA	MAIN : 50 AT, 50 AF, 2P, 220V, 18 KAIC					
USE: 2-8.0mm <sup>2</sup> THHN WIRE STRANDED 20mmØ RSC								

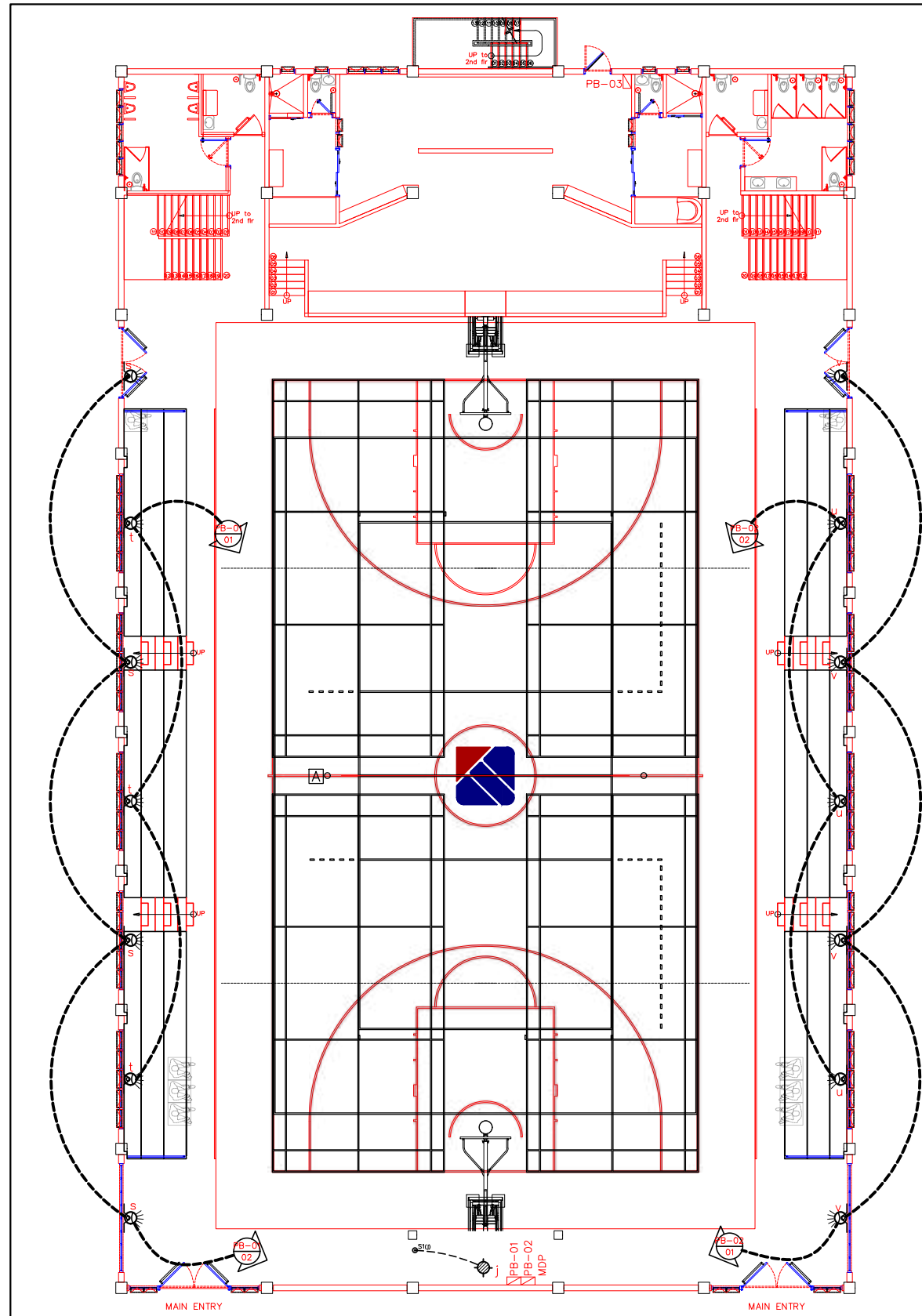
### SUB-PANEL BOARD 03

CKT. NO.	LOAD DESCRIPTION	VA	VOLTS	CKT BREAKER			SIZE OF WIRE	SIZE OF CONDUITS
				A.T.	A.F.	POLE KAIC		
1	LIGHTING (Ground floor)	900	220				2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
2	CONVENIENCE OUTLET (Ground Floor)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
3	CONVENIENCE OUTLET (Ground Floor)	260	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
4	WATER HEATER	3,200	220	20		2	2-5.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
5	LIGHTING (Second Floor)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
6	CONVENIENCE OUTLET (Second flr & Third flr)	1,200	220	20		2	2-3.5 mm <sup>2</sup> THHN STRANDED WIRE	15 mm Ø RSC
TOTAL CONNECTED LOAD		7,960 VA	MAIN : 50 AT, 50 AF, 2P, 220V, 18 KAIC					
USE: 2-8.0mm <sup>2</sup> THHN WIRE STRANDED 20mmØ RSC								

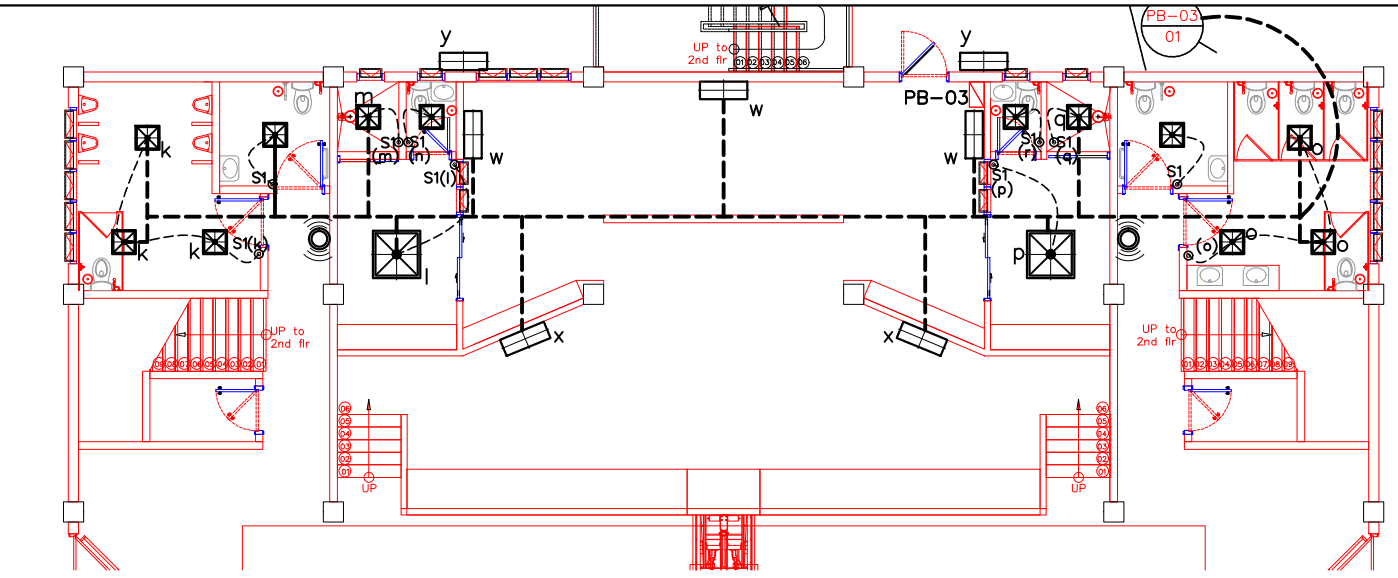


**E** RISER DIAGRAM  
12 NOT DRAWN TO SCALE

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	PROPOSED BCEZ MULTI-PURPOSE CENTER	HENCIO G. BALINGGAN ENGINEER III / Electrical Engr.	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON OIC - OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE	<ul style="list-style-type: none"> <li>GENERAL ELECTRICAL NOTES</li> <li>ELECTRICAL LEGENDS &amp; SYMBOLS</li> <li>RISER DIAGRAM</li> <li>SCHEDULE OF LOAD AND COMPUTATION</li> </ul>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">E 01</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">34 41</div> </div>
	LOCATION: LOAKAN, BAGUIO CITY						REV. NO. / DATE 03   08-31-2021

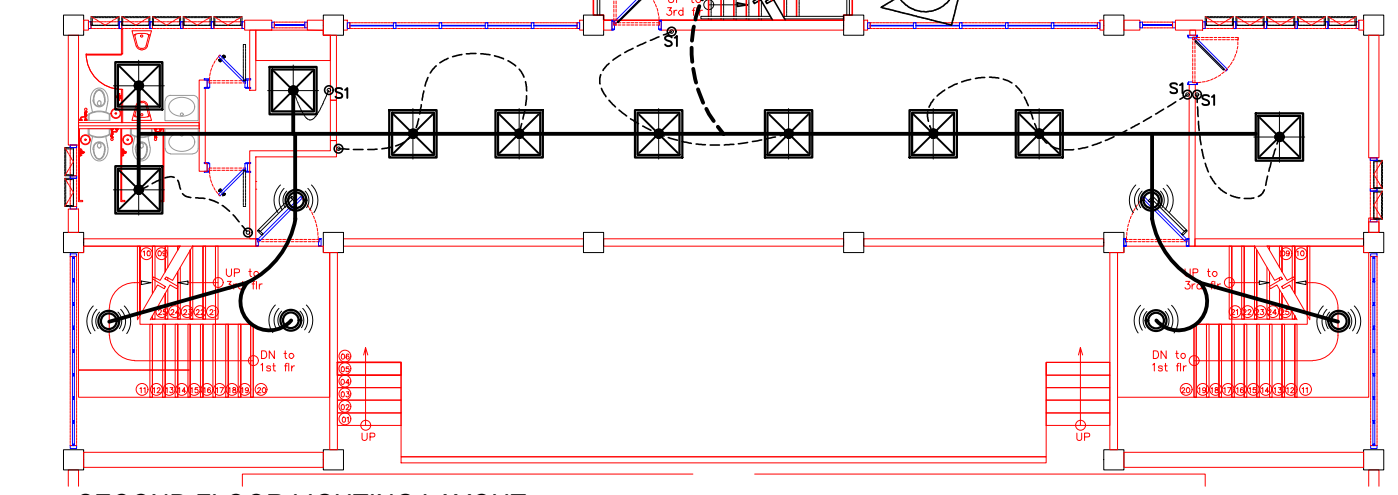


COURT/ PLAYING AREA LIGHTING LAYOUT



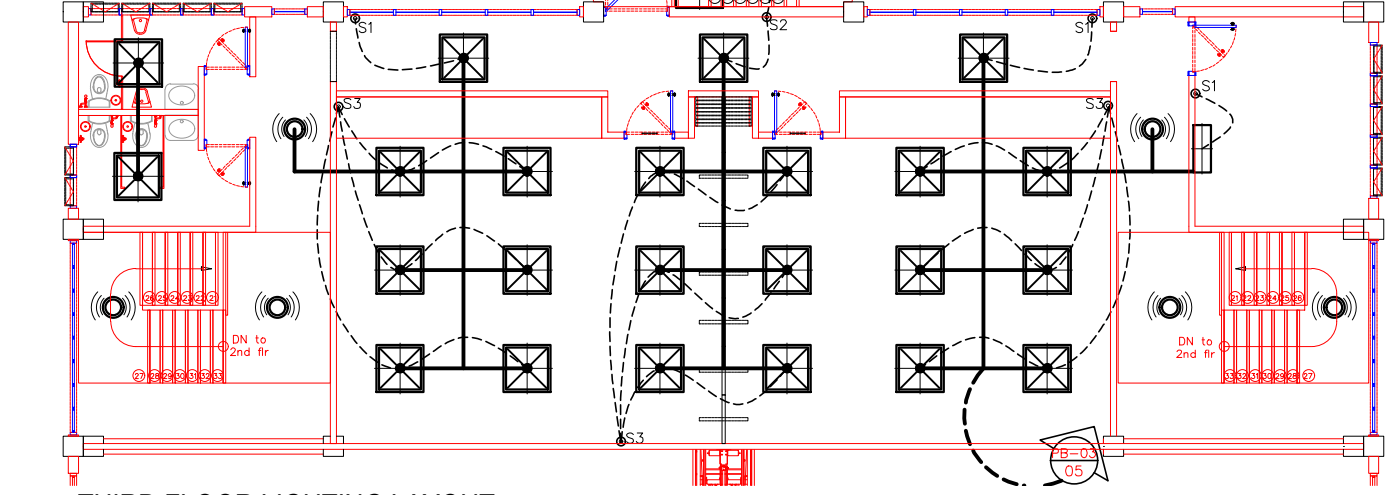
GROUND FLOOR LIGHTING LAYOUT

SCALE 1:200 M



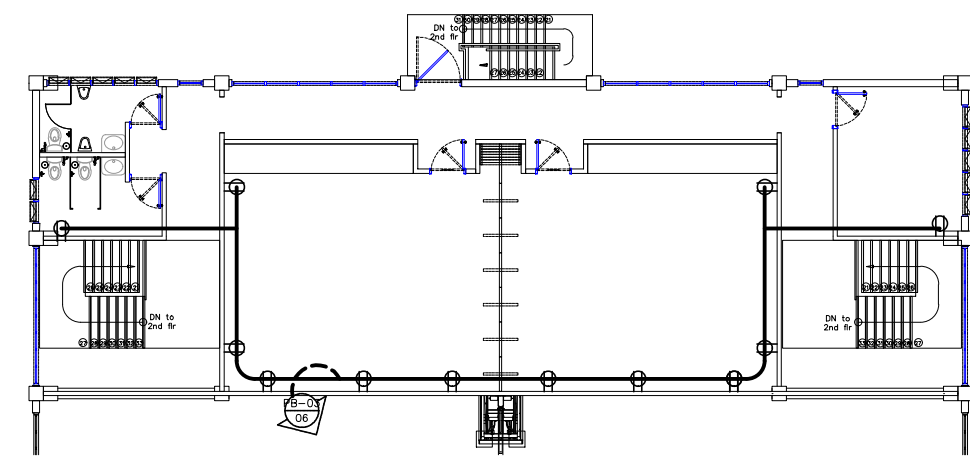
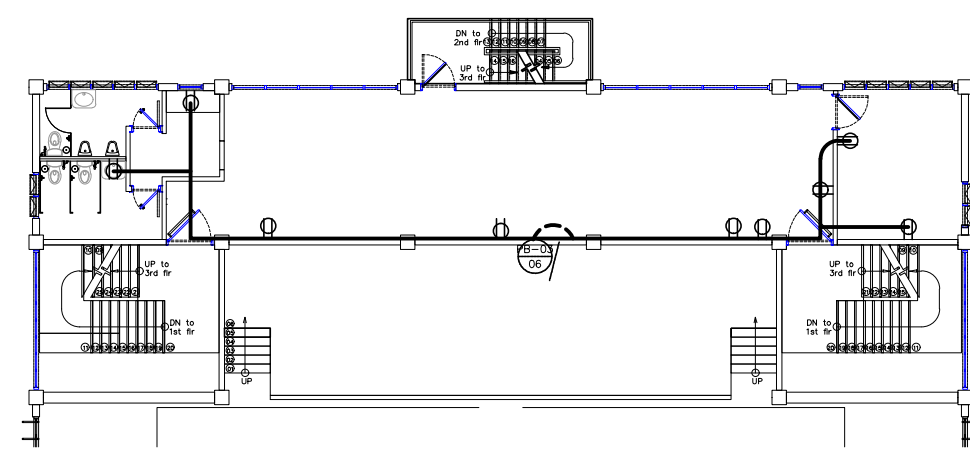
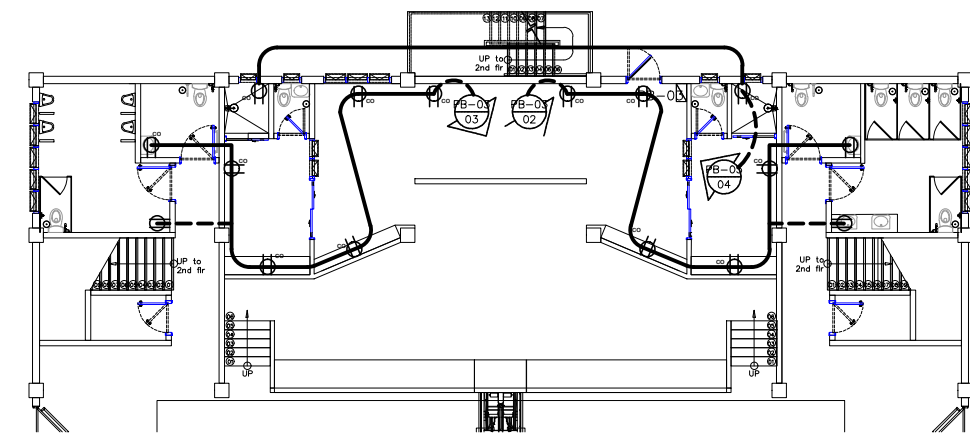
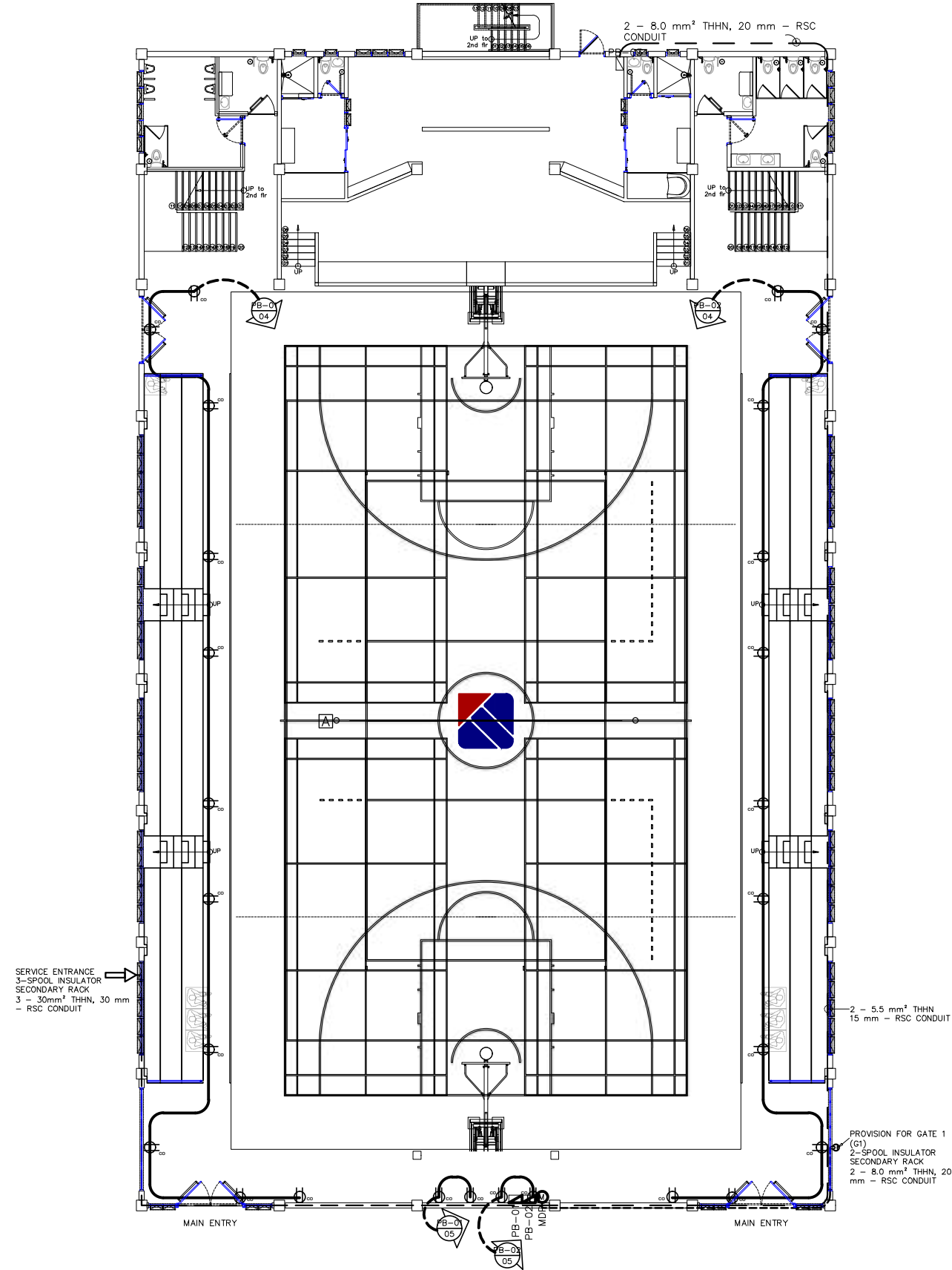
SECOND FLOOR LIGHTING LAYOUT

SCALE 1:200 M



THIRD FLOOR LIGHTING LAYOUT

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER				
	PROPOSED BCEZ MULTI-PURPOSE CENTER	HENCIO G. BALINGGAN ENGINEER III / Electrical Engr.	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON OIC - OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE	• LIGHTING LAYOUT	<table border="1"> <tr> <td>E</td> <td>35</td> </tr> <tr> <td>02</td> <td>41</td> </tr> </table>	E	35	02	41
	E	35									
02	41										
LOCATION: LOAKAN, BAGUIO CITY						REV. NO. / DATE	03 08-31-2021				



<b>PROJECT TITLE:</b>	PROPOSED BCEZ MULTI-PURPOSE CENTER
<b>LOCATION:</b>	LOAKAN, BAGUIO CITY

<b>PREPARED BY:</b>	HENCIO G. BALINGGAN ENGINEER III / Electrical Engr.
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<b>CHECKED BY:</b>	JOSEPH C. GALONG DIVISION CHIEF, EMD
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<b>RECOMMENDING APPROVAL BY:</b>	PAUL M. CODAMON OIC - OPERATIONS
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<b>APPROVED BY:</b>	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE
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<b>SHEET CONTENT:</b>	• POWER LAYOUT
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<b>SHEET NUMBER</b>	
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<b>REV. NO. / DATE</b>	
03 08-31-2021	

## GENERAL NOTES

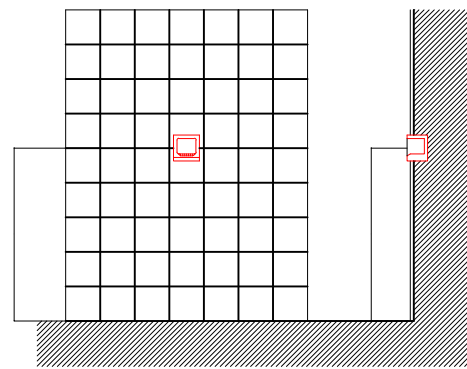
1. ALL WORKS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL PLUMBING AND LOCAL CODE REQUIREMENTS.
2. THE PLUMBING LAYOUT IS ONLY DIAGRAMMATIC. PIPES, CLEANOUTS AND CHECK VALVES SHALL BE CONCEALED.
3. PIPES SHALL BE EMBEDDED IN STRUCTURAL MEMBERS UNLESS OTHERWISE SPECIFIED.
4. RUN ALL HORIZONTAL PIPINGS IN DIRECT ALIGNMENT AT ONE UNIFORM GRADE OF NOT LESS THAN TWO PERCENT (2%).
5. ALL FLOOR DRAIN SHALL BE VENTED INDIVIDUALLY.
6. ALL CLEANOUTS SHALL BE FLUSHED MOUNTED TO WALL. DO NOT INSTALL FLOOR CLEANOUT EXCEPT AT LINES ON GRADE AND SERVICE AREAS NOT SUBJECTED TO TRAFFIC.
7. ALL UNDERGROUND GALVANIZED IRON (G.I.) INDIRECT CONTACT WITH SOIL SHALL BE PROVIDED WITH TWO(2) COATS OF TAR COVERING IN WRAPPED WITH JUTE CLOTH.
8. ALL PVC PIPE SHALL BE OF APPROVED QUALITY AND GALVANIZED IRON PIPES FOR WATER DISTRIBUTION SHALL BE SCHEDULE 40 U.S. STANDARD WEIGHT.
9. PROVIDE VENT PIPE THROUGH ROOF OF PVC PIPE AS REQUIRED.
10. PROVIDE GATE VALVE ON ALL WATER SUPPLY LINES TO FIXTURES.
11. ALL PLUMBING WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF ALL DULY LICENSED SANITARY ENGINEER OR A MASTER PLUMBER.

## PLUMBING LEGENDS & SYMBOLS

### ABBREVIATIONS:

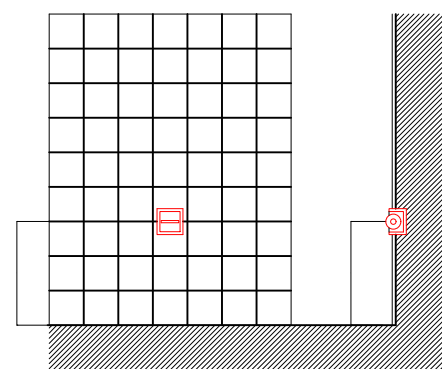
FD – FLOOR DRAIN  
 WC – WATER CLOSET  
 UR – URINAL  
 SHO – SHOWER HEAD  
 LAV – LAVATORY  
 CO – CLEAN OUT  
 SD – SHOWER DRAIN  
 KS – KITCHEN SINK

	TAPPING POINT
	SOURCE
	1/2" Ø PPR (Pu 20)
	FLOW ARROW
	3" Ø SANITARY PIPE
	CLEAN OUT



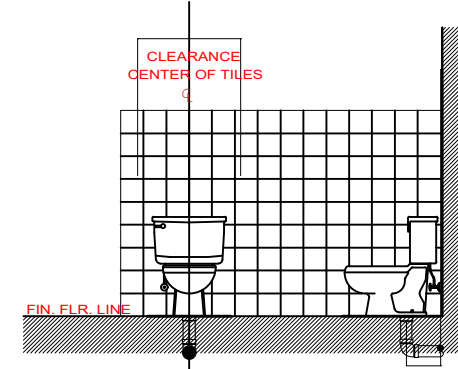
ELEVATION SECTION

SOAP HOLDER DETAIL



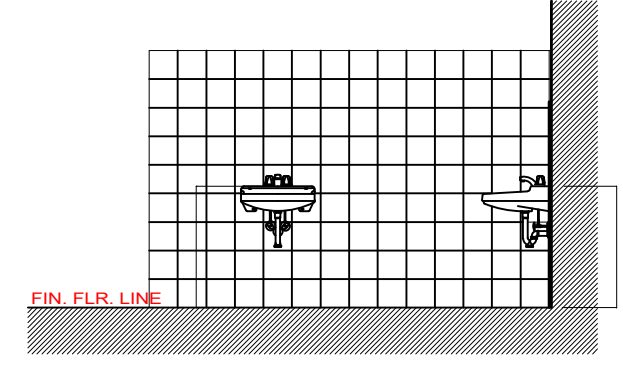
ELEVATION SECTION

PAPER HOLDER DETAIL



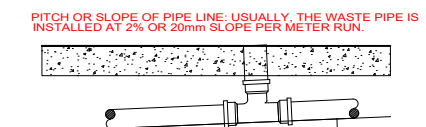
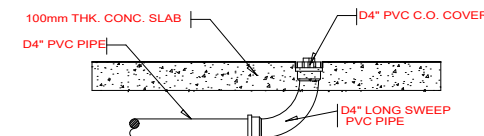
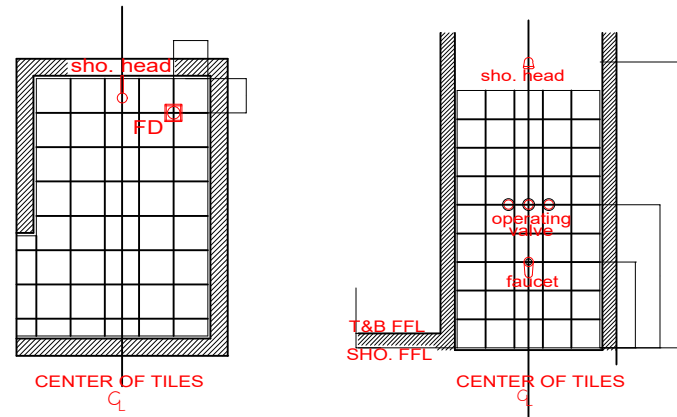
ELEVATION SECTION

WATER CLOSET DETAIL



ELEVATION SECTION

LAVATORY DETAIL



PROJECT TITLE:  
 PROPOSED BCEZ MULTI-PURPOSE CENTER

LOCATION:  
 LOAKAN, BAGUIO CITY

PREPARED BY:  
 JC KING B. MANANSALA  
 ESO II /

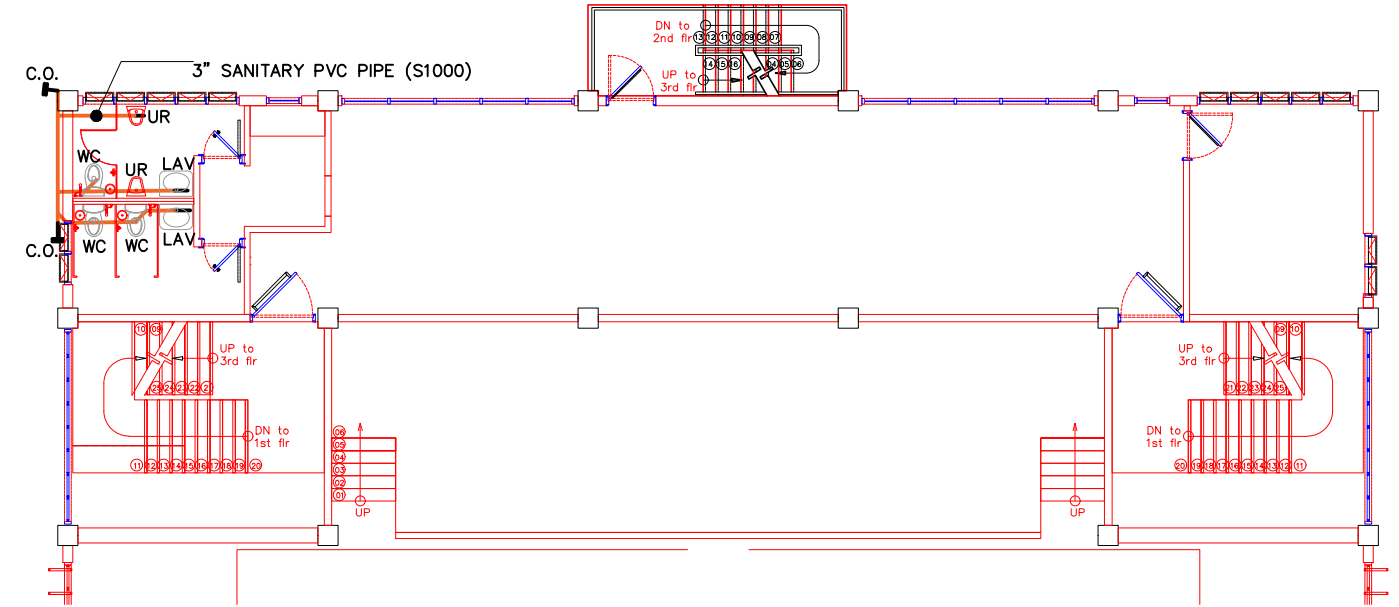
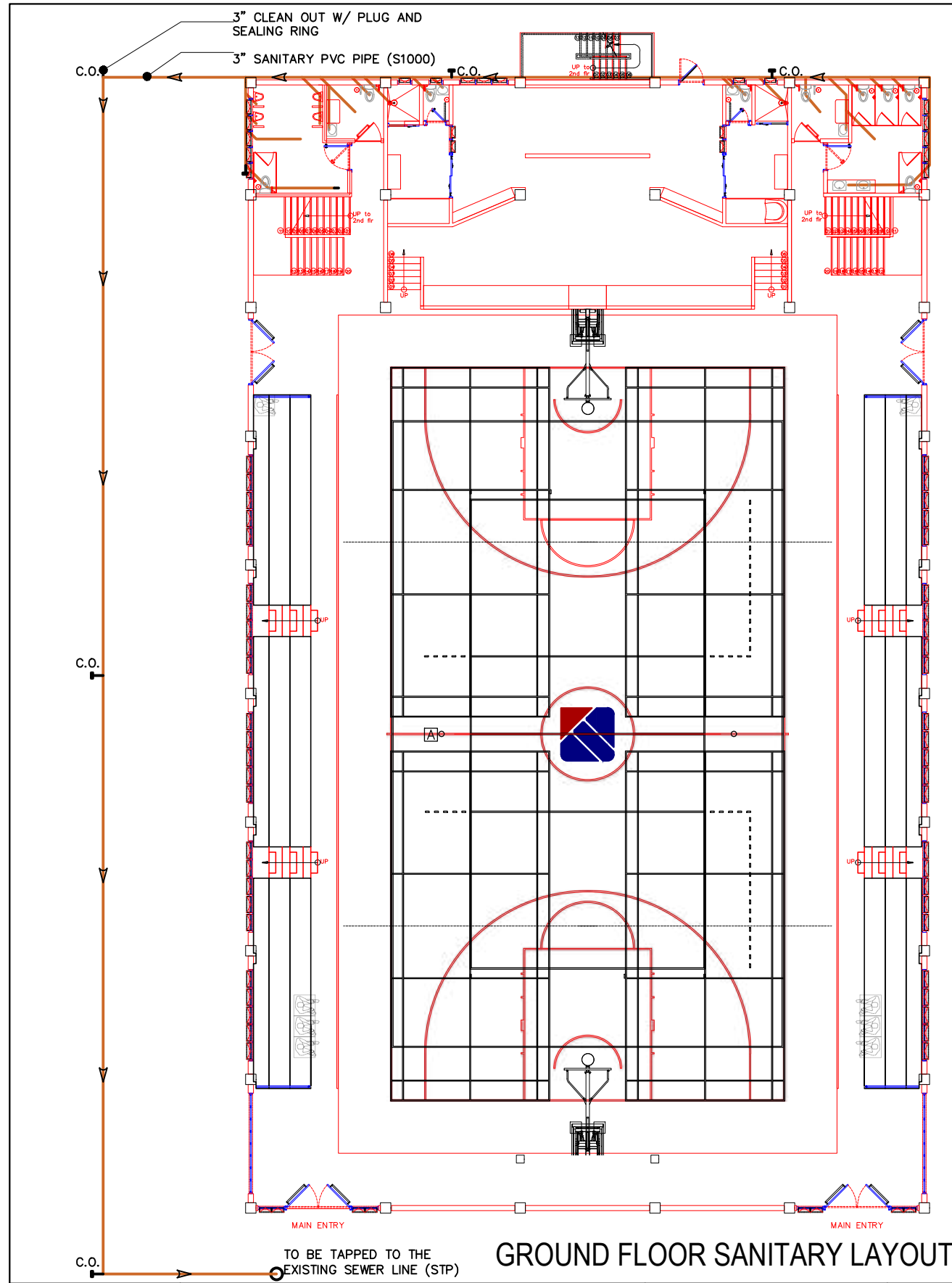
CHECKED BY:  
 JOSEPH C. GALONG  
 DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY:  
 PAUL M. CODAMON  
 OIC - OPERATIONS

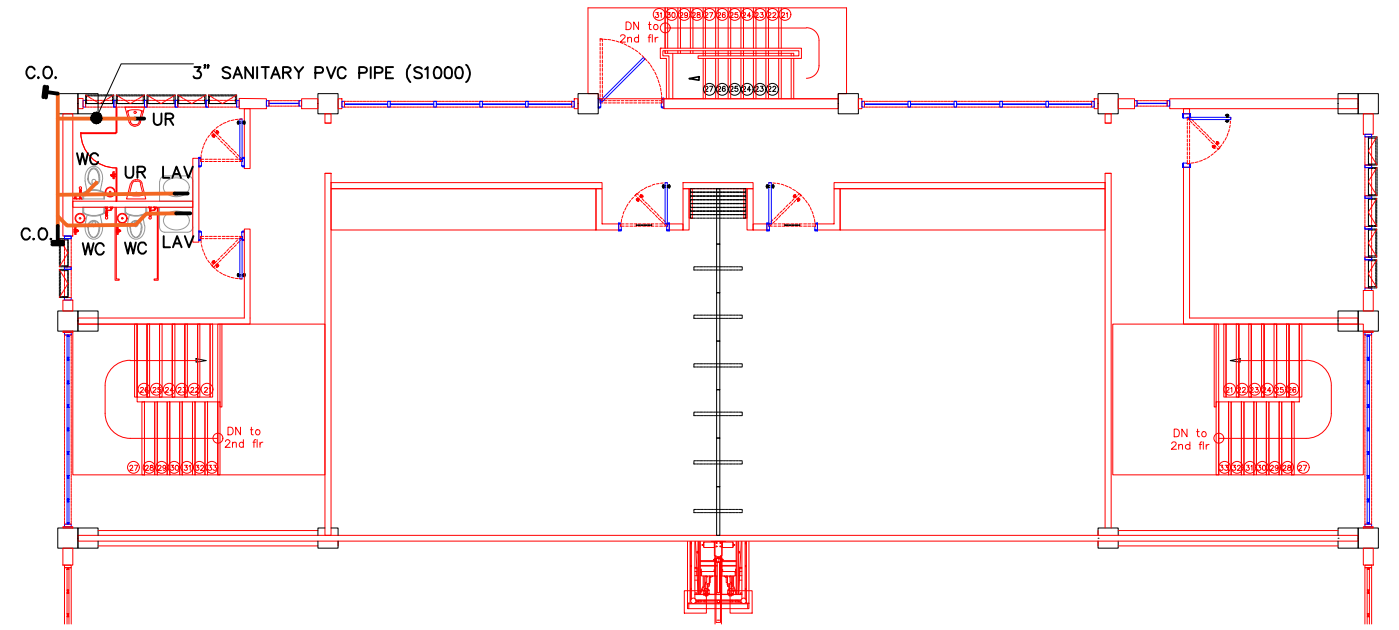
APPROVED BY:  
 ATTY. ROSS VINCENT S. SY  
 OIC - BAGUIO CITY ECONOMIC ZONE

SHEET CONTENT:  
 • GENERAL PLUMBING NOTES  
 • LEGENDS AND SYMBOLS  
 • ABBREVIATIONS  
 • TYPICAL PLUMBING DETAILS


SHEET NUMBER  
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 03 08-31-2021



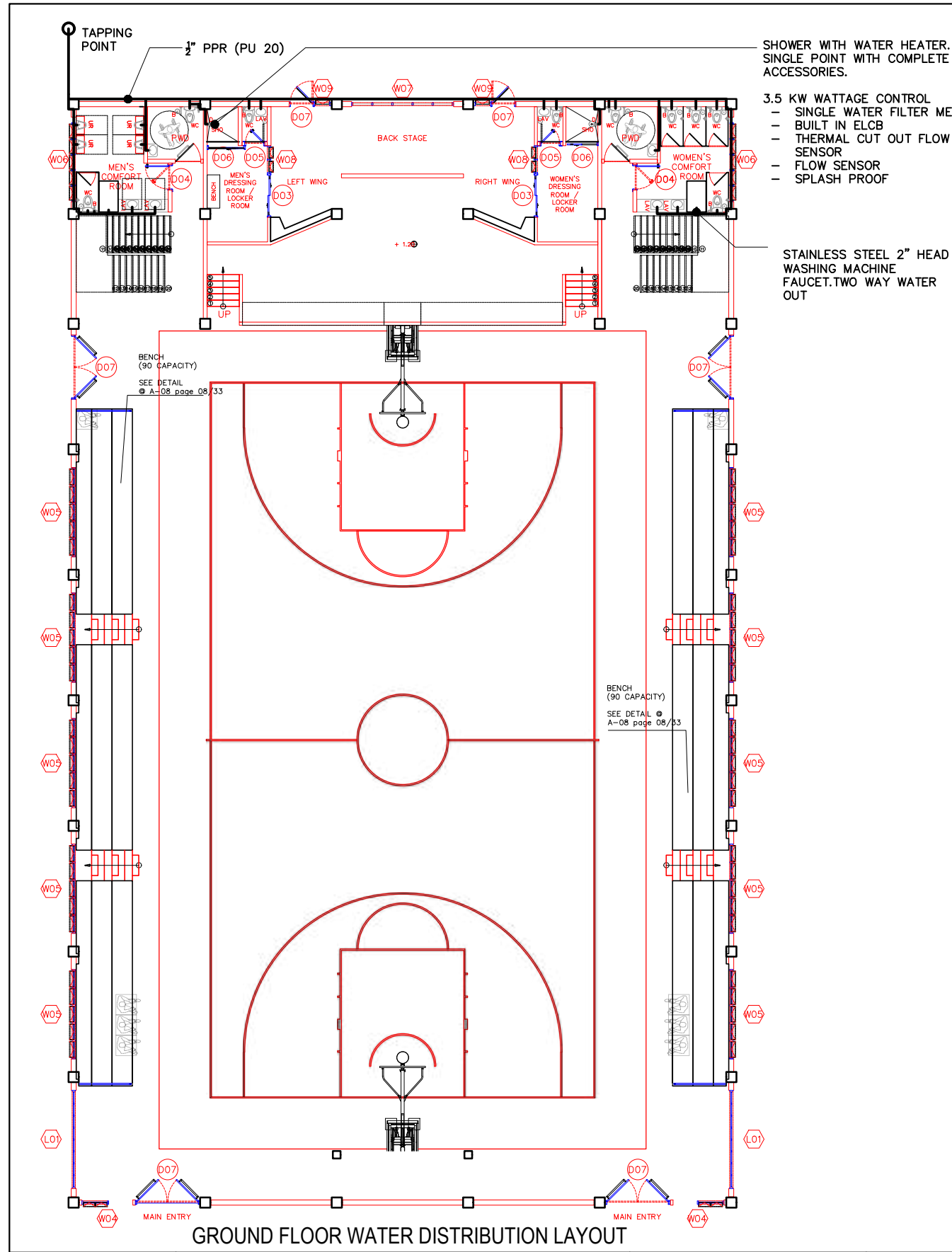
**SECOND FLOOR SANITARY LAYOUT**  
SCALE 1:200 M



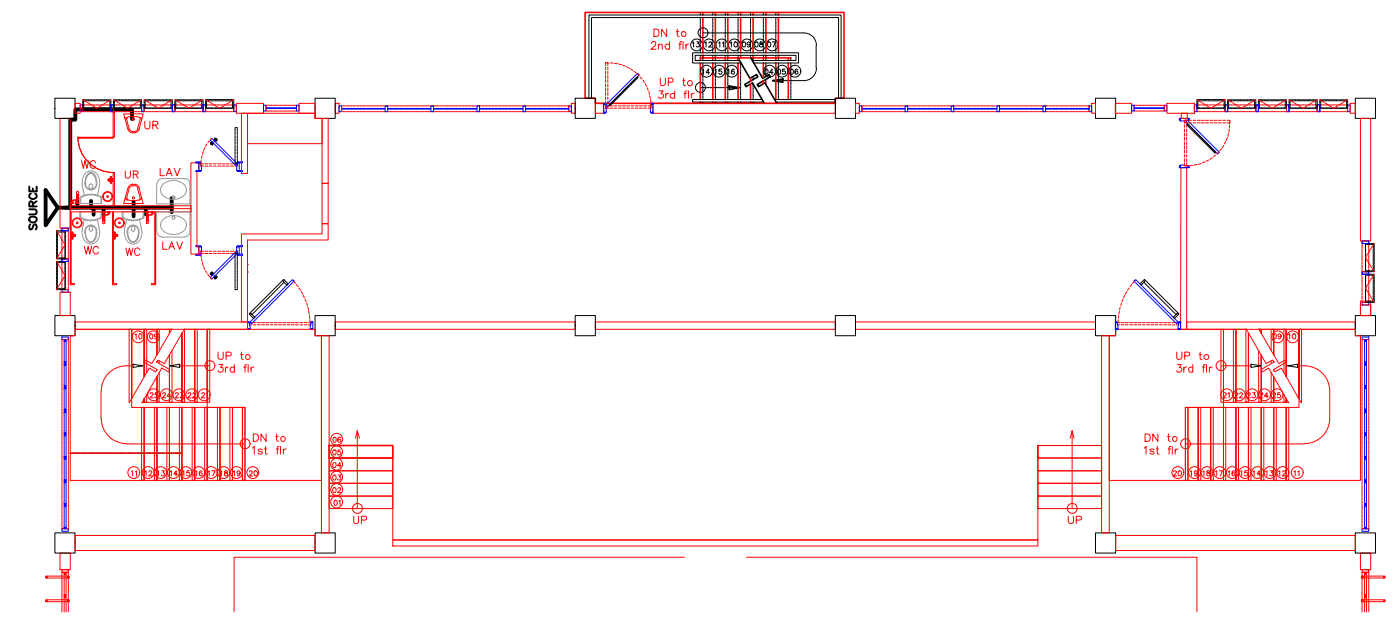
**THIRD FLOOR SANITARY LAYOUT**  
SCALE 1:200 M

	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER						
	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANANSALA ESO II /	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON OIC - OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE			<ul style="list-style-type: none"> <li>GROUND FLOOR SANITARY LAYOUT</li> <li>SECOND FLOOR SANITARY LAYOUT</li> <li>THIRD FLOOR SANITARY LAYOUT</li> </ul>	<table border="1"> <tr> <td>P</td> <td>38</td> </tr> <tr> <td>02</td> <td>41</td> </tr> </table>	P	38	02	41
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LOCATION:	LOAKAN, BAGUIO CITY		REV. NO. / DATE		03   08-31-2021								



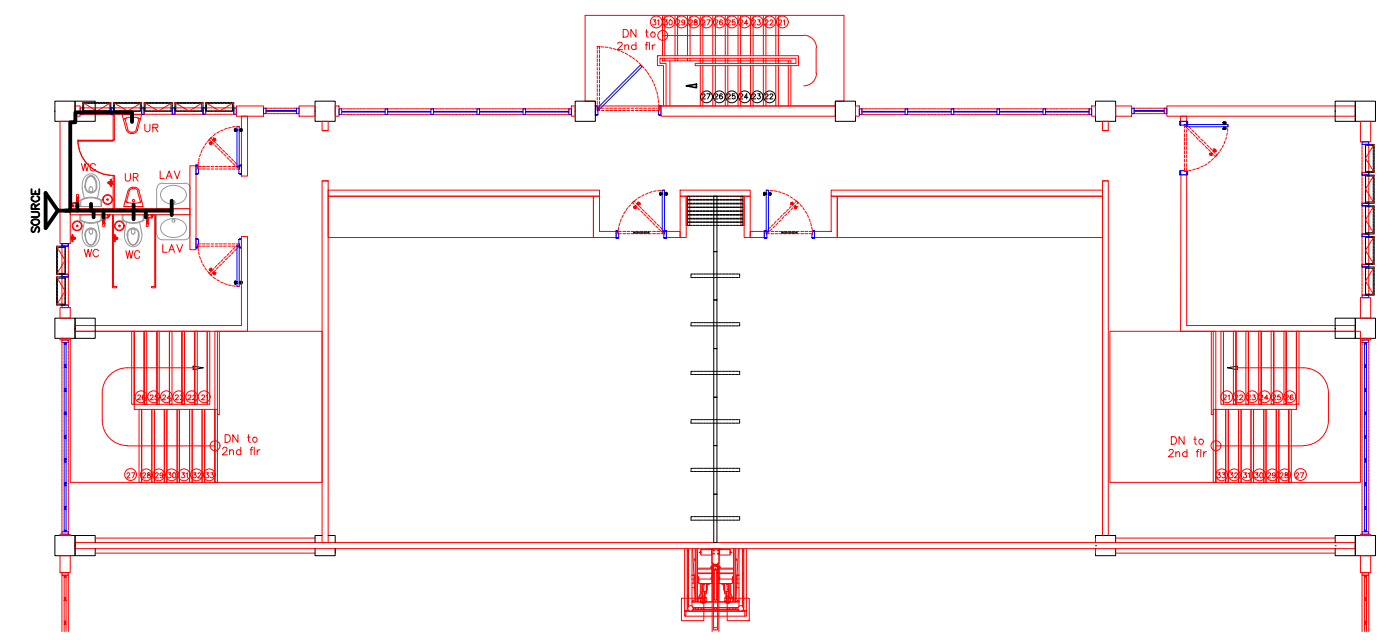


GROUND FLOOR WATER DISTRIBUTION LAYOUT



SECOND FLOOR WATER DISTRIBUTION LAYOUT

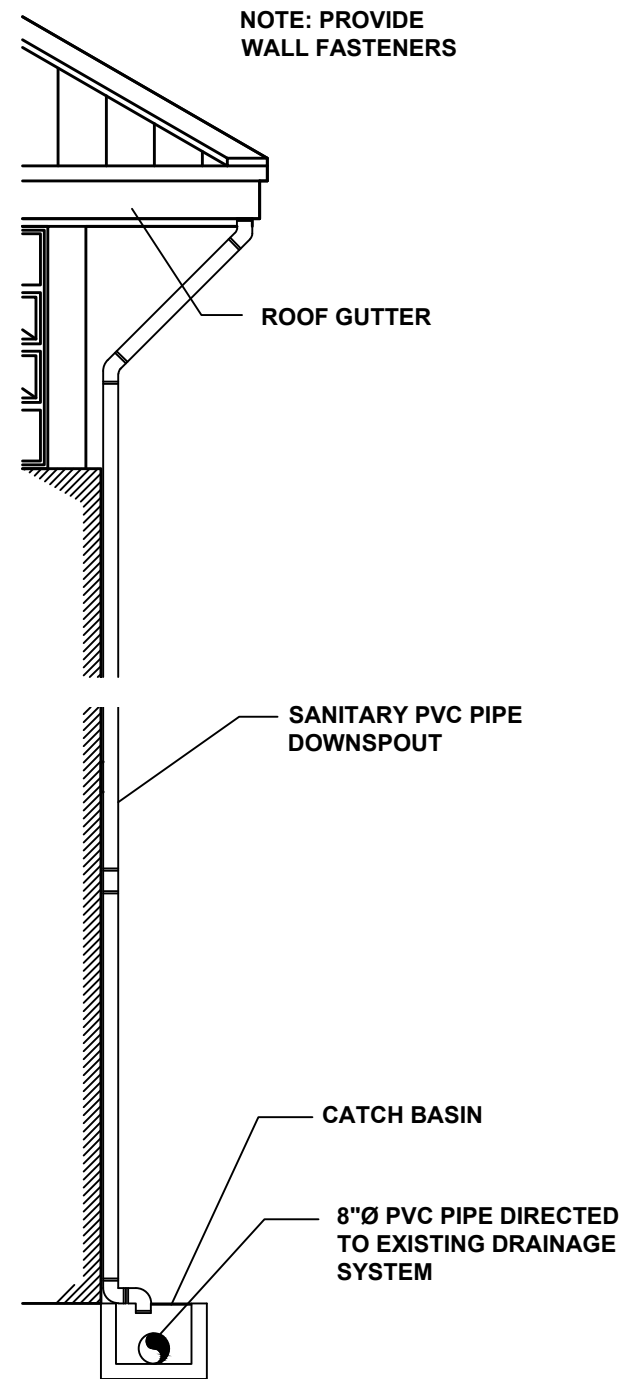
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THIRD FLOOR WATER DISTRIBUTION LAYOUT

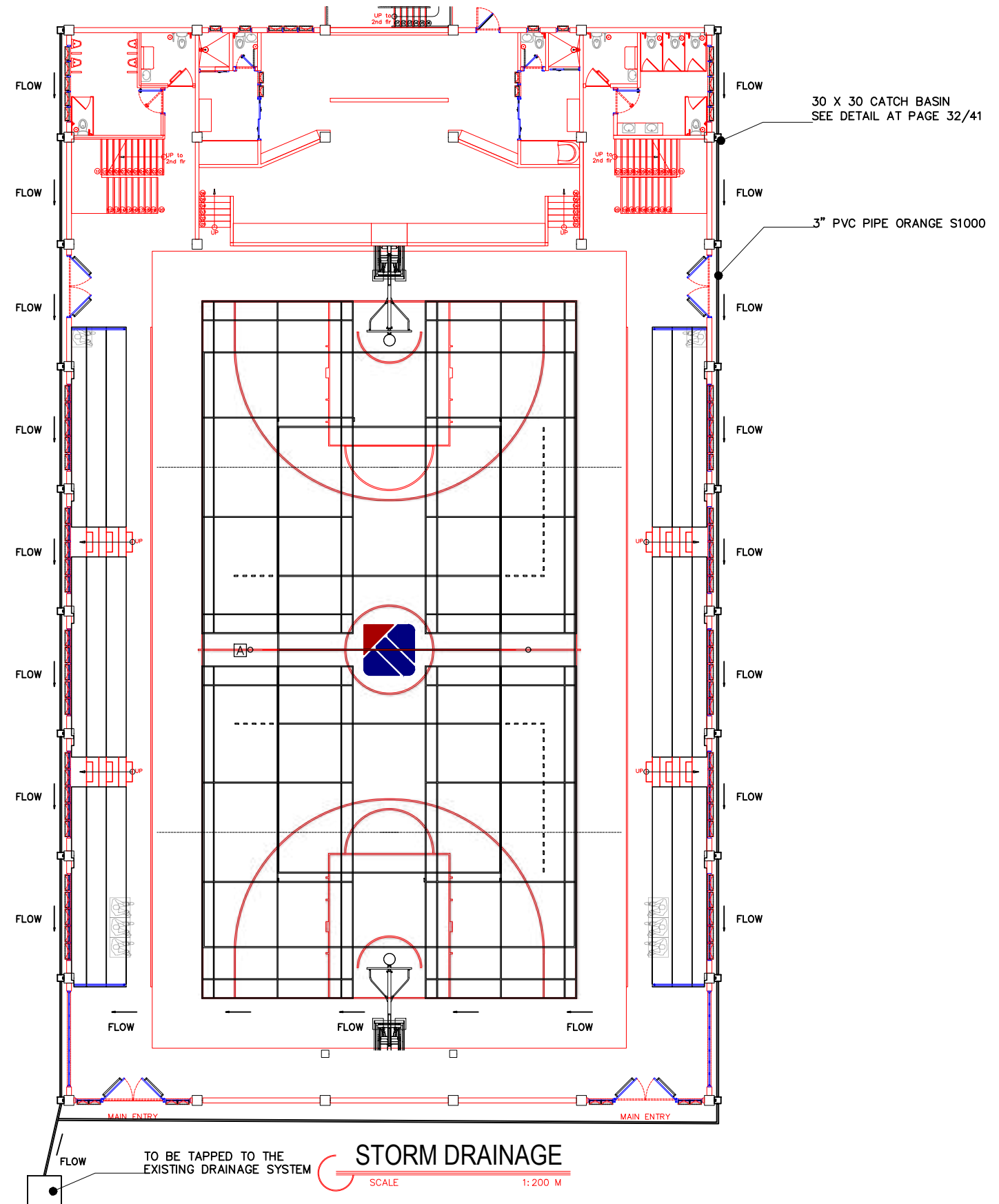
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	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER						
	PROPOSED BCEZ MULTI-PURPOSE CENTER	JC KING B. MANANSALA ESO II /	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON OIC - OPERATIONS	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE			<ul style="list-style-type: none"> <li>GROUND FLOOR WATER DISTRIBUTION LAYOUT</li> <li>SECOND FLOOR WATER DISTRIBUTION LAYOUT</li> <li>THIRD FLOOR WATER DISTRIBUTION LAYOUT</li> </ul>	<table border="1"> <tr> <td>P</td> <td>39</td> </tr> <tr> <td>03</td> <td>41</td> </tr> </table>	P	39	03	41
	P	39											
03	41												
LOCATION:	LOAKAN, BAGUIO CITY					REV. NO. / DATE	03   08-31-2021						



**DOWN SPOUT RISER DIAGRAM**

SCALE 1:200 M



<b>PROJECT TITLE:</b>	PROPOSED BCEZ MULTI-PURPOSE CENTER
<b>LOCATION:</b>	LOAKAN, BAGUIO CITY

<b>PREPARED BY:</b>	JC KING B. MANANSALA ESO II /
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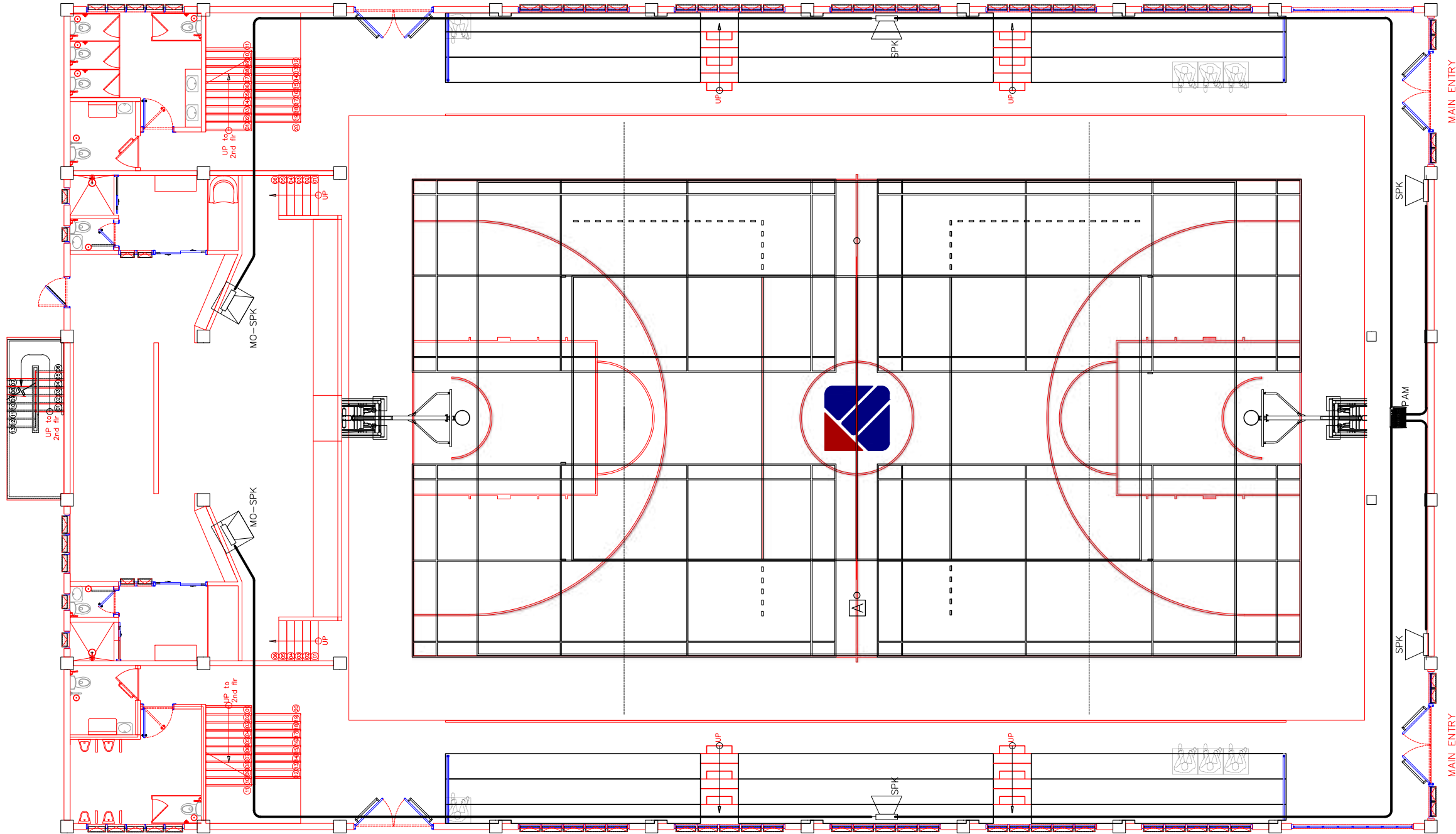
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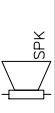
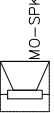
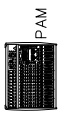
<b>RECOMMENDING APPROVAL BY:</b>	PAUL M. CODAMON OIC - OPERATIONS
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<b>APPROVED BY:</b>	ATTY. ROSS VINCENT S. SY OIC - BAGUIO CITY ECONOMIC ZONE
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<b>SHEET CONTENT:</b>	<ul style="list-style-type: none"> <li>DOWN SPOUT RISER DIAGRAM</li> <li>STORM DRAIN LINE</li> </ul>
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P	40				
04	41				
<b>REV. NO. / DATE</b>	03   08-31-2021				



ELECTRONICS LEGENDS & SYMBOLS	
	SPEAKER WITH STAND
	MOUTED OVERHEAD SPEAKER
	POWER AMPLIFIER AND MIXER

# SPEAKER & AMP-MIXER LAYOUT

SCALE 1:150 M



**PROJECT TITLE:**  
PROPOSED BCEZ MULTI-PURPOSE CENTER

**LOCATION:**  
LOAKAN, BAGUIO CITY

**PREPARED BY:**  
MARVIN L. CASEO  
ESO II / Electronics Engineer

**CHECKED BY:**  
JOSEPH C. GALONG  
DIVISION CHIEF, EMD

**RECOMMENDING APPROVAL BY:**  
PAUL M. CODAMON  
OIC - OPERATIONS

**APPROVED BY:**  
ATTY. ROSS VINCENT S. SY  
OIC - BAGUIO CITY ECONOMIC ZONE

**SHEET CONTENT:**  
SPEAKER & AMP-MIXER LAYOUT

SHEET NUMBER	
EE 01	41 41
REV. NO. /DATE	
03	08-31-2021

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

### CONSTRUCTION OF BCEZ MULTI-PURPOSE CENTER

<i>(Columns (1), (2), (3), and (4) are to be filled up by the Procuring Entity)</i>				<i>(Columns (5) and (6) are to be filled up by the Bidder)</i>	
Pay Item No.	Description	Unit	Quantity	Unit Price (Pesos)	Amount (Pesos)
(1)	(2)	(3)	(4)	(5)	(6)
<b>SITE PREPARATION</b>					
A.1	Clearing and Grubbing	sq.m.	1,650.47	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
A.2	Removal of Structures and Obstructions (Concrete Bench)	each	33.00	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
A.3	Removal of Structures and Obstructions (Steel Posts including Basketball Ring)	each	8.00	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____

A.4	Removal of Structures and Obstructions (Fence and Gates)	ln.m.	33.65	<b>In words: Pesos</b> _____ _____ _____ <b>In figures: Php</b> _____ _____	<b>In figures: Php</b> _____ _____
A.5	Removal of Structures and Obstructions (Concrete Slab)	sq.m.	720.24	<b>In words: Pesos</b> _____ _____ _____ <b>In figures: Php</b> _____ _____	<b>In figures: Php</b> _____ _____
A.6	Removal of Structures and Obstructions (Comfort Room and Septic Tank)	each	1.00	<b>In words: Pesos</b> _____ _____ _____ <b>In figures: Php</b> _____ _____	<b>In figures: Php</b> _____ _____
A.7	Removal of Structures and Obstructions (Riprap)	cu.m.	20.80	<b>In words: Pesos</b> _____ _____ _____ <b>In figures: Php</b> _____ _____	<b>In figures: Php</b> _____ _____
A.8	Removal of Structures and Obstructions (Boulders)	each	5.00	<b>In words: Pesos</b> _____ _____ _____ <b>In figures: Php</b> _____ _____	<b>In figures: Php</b> _____ _____

<b>EARTHWORKS</b>					
<b>B.1</b>	Excavation (Widening of Site) (Common Soil)	cu.m.	439.38	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
<b>B.2</b>	Structural Excavation (Common Soil)	cu.m.	565.14	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
<b>B.3</b>	Gravel Bedding	cu.m.	25.54	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
<b>B.4</b>	Embankment from Structural Excavation (Footings, Stage, and Concrete Bench)	cu.m.	435.22	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
<b>CIVIL WORKS</b>					
<b>C.1</b>	Structural Concrete Class AA (28 Mpa = 4,000 Psi @ 28 Days) (Foundations, Slabs, Stairs, Columns and Beams)	cu.m.	282.42	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____

C.2	Structural Concrete Class A (25 Mpa = 3,500 Psi @ 28 Days) (Pathway, Catch Basin, Slab on Fill, Genset Foundation and Concrete Bench)	cu.m.	318.15	In words: Pesos _____ _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
C.3.	Reinforcing Steel Bars (Grade 60)	kgs.	40,280.23	In words: Pesos _____ _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
C.4.	Reinforcing Steel Bars (Grade 40)	kgs.	61,900.86	In words: Pesos _____ _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
C.5.	Structural Steel Roof Truss	kgs.	12,129.72	In words: Pesos _____ _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
C.6.	Structural Steel Purlins	kgs.	17,354.12	In words: Pesos _____ _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____

C.7.	Metal Structure Accessories (U-Bolts)	each	80.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.8.	Metal Structure Accessories (Sagrods)	each	342.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.9.	Metal Structure Accessories (Turnbuckle)	each	72.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.10.	Metal Structure Accessories (Crossbracing)	each	36.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.11.	Metal Structure Accessories (Steel Plates)	kgs.	565.60	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>



C.12.	Metal Structure Accessories (Railings - Stairs and Bench)	kgs.	2,974.40	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.13.	Prepainted Metal Sheets with Lifeline (Rib Type, Long Span)	sq.m.	1,447.05	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.14.	Fabricated Metal Roofing Accessory (Soffit Frame, Fascia Board, and Spandrel)	ln.m.	155.14	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.15.	Fabricated Metal Roofing Accessory (Gutter with Downspout)	ln.m.	92.70	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.16.	Thermal Insulation with Wire Mesh	sq.m.	1,447.05	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

C.17.	Grouted Riprap (Class A)	cu.m.	116.02	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
C.18.	Formworks and Falseworks	sq.m.	1,795.21	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>ARCHITECTURAL WORKS</b>					
D.1.	Masonry Works (150mm CHB Load Bearing (Including Reinforcing Steel))	sq.m.	758.08	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.2.	Masonry Works (100mm CHB Load Bearing (Including Reinforcing Steel))	sq.m.	180.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.3.	Masonry Works (Cement Plastering)	sq.m.	1,876.16	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

D.4.	Unglazed Tiles	sq.m.	82.44	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.5.	Glazed Tiles (Wall Tiles)	sq.m.	239.86	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.6.	Wood Tiles (Tanguile)	sq.m.	424.31	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.7.	Plain Cement Floor Finish	sq.m.	751.89	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.8.	Waterproofing Cement Base	sq.m.	23.14	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

D.9.	Carpentry (1/4" Marine Plywood on Wood Frame Double Wall Partition)	sq.m.	323.72	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.10.	Carpentry (4.5mm Fiber Cement Board on Metal Frame Ceiling)	sq.m.	333.60	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.11.	Carpentry (Cubicle/Partition of Water Closet/Urinals)	sq.m.	36.78	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.12.	Operable Wall with Sound Proofing System	sq.m.	17.25	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.13.	Painting Works (Metal - Truss, Purlins, Sagrod, Railings, Crossbracing and Plates)	sq.m.	2,548.70	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

D.14.	Painting Works (Floor - Rubberized)	sq.m.	188.80	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/>
D.15.	Painting Works (Masonry)	sq.m.	1,756.23	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/>
D.16.	Painting Works (Wood)	sq.m.	1,054.62	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/>
D.17.	Painting Works (Court - Basketball, Volleyball and Badminton)	sq.m.	54.01	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/>
D.18.	Doors (Semi - Flush Door with Complete set of Door Jamb and accessories)	sq.m.	21.00	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/>

D.19.	Doors (Aluminum Glass Door - Sliding and Swing Type)	sq.m.	15.53	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
D.20.	Doors (uPVC Glass Door - Sliding and Swing Type)	sq.m.	21.75	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
D.21.	Doors (Fire Rated Fire Exit Steel Door with Door Jamb and Accessories)	sq.m.	6.3	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
D.22.	Windows (uPVC Glass Windows - Sliding and Awning Type)	sq.m.	204.65	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
D.23.	Windows (Fixed Louvered Steel Window)	sq.m.	140.45	<b>In words: Pesos</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<b>In figures: Php</b> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

D.24.	Bleachers (Wood chair 500mm Width x 50mm thk.)	sq.m.	24.17	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
D.25.	Foldable Diaper Changing Station (Wall Mounted)	each	2.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>SANITARY AND PLUMBING WORKS AND FIXTURES</b>					
E.1.	Sanitary and Plumbing Fixtures	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
E.2.	Water Line Fixtures (with 2 - Water Heater)	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
E.3.	Storm Drain System (Catch Basin for Down Spout with Steel Grating)	each	20.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

E.4.	Water Closet With Complete Fittings and Accessories	set	15.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
E.5.	Urinal With Complete Fittings and Accessories	set	8.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
E.6.	Countertop Lavatory With Complete Fittings and Accessories	set	12.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
E.7.	Floor Drain Plates	set	12.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>ELECTRICAL WORKS AND FIXTURES</b>					
F.1.	Electrical Fixtures and Fittings	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>



F.2.	Gym Lights	each	14.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
F.3.	Service Entrance	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
F.4.	Genset 60kVA with Complete Accessories	set	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>ELECTRONIC WORKS AND FIXTURES</b>					
G.1.	Sound System	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>SPORTS EQUIPMENT</b>					
H.1.	Basketball Accessories (Basketball Hoops)	pair	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

H.2.	Volleyball Accessories (3 - Poles , 2 - Nets)	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
H.3.	Badminton Accessories (8 - Poles, 6 - Nets)	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
H.4.	Court Cover (Tarpaulin "Trapal" Lona)	sq.m.	614.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
H.5.	Score Board with Complete Accessories	set	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>
<b>OTHER GENERAL REQUIREMENTS</b>					
I.1.	Mobilization/Demobilization	lot	1.00	<p>In words: Pesos</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>In figures: Php</p> <p>_____</p> <p>_____</p>	<p>In figures: Php</p> <p>_____</p> <p>_____</p>

I.2.	Safety and Health Provision	lot	1.00	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____
I.3.	Provision of Power and Water Supply	lot	1.00	In words: Pesos _____ _____ _____ In figures: Php _____ _____	In figures: Php _____ _____

<b>Grand Total</b>	In words: Pesos _____ _____ _____ In figures: Php _____ _____
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Submitted by:

Name and Signature of Bidder's Representative  
Position

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

Name of Bidder

**SUMMARY of BID PRICES**

<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>UNIT COST</b>	<b>TOTAL</b>
<b>PART A</b>	<b>SITE PREPARATION</b>				
Item A.1.	Clearing and Grubbing	sq.m.	1,650.47		
Item A.2.	Removal of Structures and Obstructions (Concrete Bench)	each	33.00		
Item A.3.	Removal of Structures and Obstructions (Steel Posts including Basketball Ring)	each	8.00		
Item A.4.	Removal of Structures and Obstructions (Fence and Gates)	ln.m.	33.65		
Item A.5.	Removal of Structures and Obstructions (Concrete Slab)	sq.m.	720.24		
Item A.6.	Removal of Structures and Obstructions (Comfort Room and Septic Tank)	each	1.00		
Item A.7.	Removal of Structures and Obstructions (Riprap)	cu.m.	20.80		
Item A.8.	Removal of Structures and Obstructions (Boulders)	each	5.00		
<b>PART A TOTAL</b>					

<b>PART B</b>	<b>EARTHWORKS</b>				
Item B.1.	Excavation (Widening of Site) (Common Soil)	cu.m.	439.38		
Item B.2.	Structural Excavation (Common Soil)	cu.m.	565.14		
Item B.3.	Gravel Bedding	cu.m.	25.54		
Item B.4.	Embankment from Structural Excavation (Footings, Stage, and Concrete Bench)	cu.m.	435.22		
<b>PART B TOTAL</b>					
<b>PART C</b>	<b>CIVIL WORKS</b>				
Item C.1.	Structural Concrete Class AA (28 Mpa = 4,000 Psi @ 28 Days) (Foundations, Slabs, Stairs, Columns and Beams)	cu.m.	282.42		
Item C.2.	Structural Concrete Class A (25 Mpa = 3,500 Psi @ 28 Days) (Pathway, Catch Basin, Slab on Fill, Genset Foundation and Concrete Bench)	cu.m.	318.15		
Item C.3.	Reinforcing Steel Bars (Grade 60)	kgs.	40,280.23		
Item C.4.	Reinforcing Steel Bars (Grade 40)	kgs.	61,900.86		

Item C.5.	Structural Steel Roof Truss	kgs.	12,129.72		
Item C.6.	Structural Steel Purlins	kgs.	17,354.12		
Item C.7.	Metal Structure Accessories (U-Bolts)	each	80.00		
Item C.8.	Metal Structure Accessories (Sagrods)	each	342.00		
Item C.9.	Metal Structure Accessories (Turnbuckle)	each	72.00		
Item C.10.	Metal Structure Accessories (Crossbracing)	each	36.00		
Item C.11.	Metal Structure Accessories (Steel Plates)	kgs.	565.60		
Item C.12.	Metal Structure Accessories (Railings - Stairs and Bench)	kgs.	2,974.40		
Item C.13.	Prepainted Metal Sheets with Lifeline (Rib Type, Long Span)	sq.m.	1,447.05		
Item C.14.	Fabricated Metal Roofing Accessory (Soffit Frame, Fascia Board, and Spandrel)	ln.m.	155.14		
Item C.15.	Fabricated Metal Roofing Accessory (Gutter with Downspout)	ln.m.	92.70		
Item C.16.	Thermal Insulation with Wire Mesh	sq.m.	1,447.05		
Item C.17.	Grouted Riprap (Class A)	cu.m.	116.02		

Item C.18.	Formworks and Falseworks	sq.m.	1,795.21		
<b>PART C TOTAL</b>					
<b>PART D</b>	<b>ARCHITECTURAL WORKS</b>				
Item D.1.	Masonry Works (150mm CHB Load Bearing (Including Reinforcing Steel))	sq.m.	758.08		
Item D.2.	Masonry Works (100mm CHB Load Bearing (Including Reinforcing Steel))	sq.m.	180.00		
Item D.3.	Masonry Works (Cement Plastering)	sq.m.	1,876.16		
Item D.4.	Unglazed Tiles	sq.m.	82.44		
Item D.5.	Glazed Tiles (Wall Tiles)	sq.m.	239.86		
Item D.6.	Wood Tiles (Tanguile)	sq.m.	424.31		
Item D.7.	Plain Cement Floor Finish	sq.m.	751.89		
Item D.8.	Waterproofing Cement Base	sq.m.	23.14		
Item D.9.	Carpentry (1/4" Marine Plywood on Wood Frame Double Wall Partition)	sq.m.	323.72		

Item D.10.	Carpentry (4.5mm Fiber Cement Board on Metal Frame Ceiling)	sq.m.	333.60		
Item D.11.	Carpentry (Cubicle/Partition of Water Closet/Urinals)	sq.m.	36.78		
Item D.12.	Operable Wall with Sound Proofing System	sq.m.	17.25		
Item D.13.	Painting Works (Metal - Truss, Purlins, Sagrod, Railings, Crossbracing and Plates)	sq.m.	2,548.70		
Item D.14.	Painting Works (Floor - Rubberized)	sq.m.	188.80		
Item D.15.	Painting Works (Masonry)	sq.m.	1,756.23		
Item D.16.	Painting Works (Wood)	sq.m.	1,054.62		
Item D.17.	Painting Works (Court - Basketball, Volleyball and Badminton)	sq.m.	54.01		
Item D.18.	Doors (Semi - Flush Door with Complete set of Door Jamb and accessories)	sq.m.	21.00		
Item D.19.	Doors (Aluminum Glass Door - Sliding and Swing Type)	sq.m.	15.53		
Item D.20.	Doors (uPVC Glass Door - Sliding and Swing Type)	sq.m.	21.75		
Item D.21.	Doors (Fire Rated Fire Exit Steel Door with Door Jamb and Accessories)	sq.m.	6.3		



Item D.22.	Windows (uPVC Glass Windows - Sliding and Awning Type)	sq.m.	204.65		
Item D.23.	Windows (Fixed Louvered Steel Window)	sq.m.	140.45		
Item D.24.	Bleachers (Wood chair 500mm Width x 50mm thk.)	sq.m.	24.17		
Item D.25.	Foldable Diaper Changing Station (Wall Mounted)	each	2.00		
<b>PART D TOTAL</b>					
<b>PART E</b>	<b>SANITARY AND PLUMBING WORKS AND FIXTURES</b>				
Item E.1.	Sanitary and Plumbing Fixtures	lot	1.00		
Item E.2.	Water Line Fixtures (with 2 - Water Heater)	lot	1.00		
Item E.3.	Storm Drain System (Catch Basin for Down Spout with Steel Grating)	each	20.00		
Item E.4.	Water Closet With Complete Fittings and Accessories	set	15.00		
Item E.5.	Urinal With Complete Fittings and Accessories	set	8.00		
Item E.6.	Countertop Lavatory With Complete Fittings and Accessories	set	12.00		
Item E.7.	Floor Drain Plates	set	12.00		

<b>PART E TOTAL</b>						
<b>PART F</b>	<b>ELECTRICAL WORKS AND FIXTURES</b>					
Item F.1.	Electrical Fixtures and Fittings	lot	1.00			
Item F.2.	Gym Lights	each	14.00			
Item F.3.	Service Entrance	lot	1.00			
Item F.4.	Genset 60kVA with Complete Accessories	set	1.00			
<b>PART F TOTAL</b>						
<b>PART G</b>	<b>ELECTRONIC WORKS AND FIXTURES</b>					
Item G.1.	Sound System	lot	1.00			
<b>PART G TOTAL</b>						
<b>PART H</b>	<b>SPORTS EQUIPMENT</b>					
Item H.1.	Basketball Accessories (Basketball Hoops)	pair	1.00			
Item H.2.	Volleyball Accessories (3 - Poles , 2 - Nets)	lot	1.00			

Item H.3.	Badminton Accessories (8 - Poles, 6 - Nets)	lot	1.00		
Item H.4.	Court Cover (Tarpaulin "Trapal" Lona)	sq.m.	614.00		
Item H.5.	Score Board with Complete Accessories	set	1.00		
<b>PART H TOTAL</b>					
<b>PART I</b>	<b>OTHER GENERAL REQUIREMENTS</b>				
Item I.1.	Mobilization/Demobilization	lot	1.00		
Item I.2.	Safety and Health Provision	lot	1.00		
Item I.3.	Provision of Power and Water Supply	lot	1.00		
<b>PART I TOTAL</b>					
<b>GRAND TOTAL</b>					

Name \_\_\_\_\_ in the capacity of \_\_\_\_\_

Signed \_\_\_\_\_ Date \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

\_\_\_\_\_

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

### **ELIGIBILITY AND TECHNICAL DOCUMENTS CHECKLIST**

01. All submissions of the Bidder must clearly indicate the document number. For example, photocopy of valid PhilGEPS registration papers (i.e., 5 pcs) of “Bidder Company”, Eligibility Documents should be marked “E1~1”, “E1~2”, “E1~3”, “E1~4”, “E1~5” and “E1~6”, and Technical Documents “T1~1”, “T1~2”, “T1~3”, “T1~4”, and “T1~5”.

02. On this checklist; the column “As Checked” shall be marked ...

- “**PASSED**” to indicate that said document was available; or
- “**FAILED**” when the document listed is not available in the bid proposal submitted; or
- “**NO NEED**” if the item in the checklist was not appropriate or no longer required.

03. At any stage of the procurement process, a proposal may still be declared “not eligible” or “failed” if the contents / substance of the submitted document is missing, or is found inappropriate, or does not comply with the given requirements for this transaction.

Bidding No. <b>PR21-10-064</b>		ABC: <b>₱29,402,267.83</b>			
Particulars: <b>“Construction of BCEZ Multi-Purpose Center (PR21-10-064)”</b>					
Venue of Bid Opening: <b>3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City</b>		DATE & TIME of Bid Opening: <b>November 8, 2021 (Mon) at 1:30 PM</b>			
<b>BIDDER'S INFORMATION</b>	COMPANY NAME: ?				
	COMPANY HEAD OFFICE MAILING ADDRESS: ?				
	COMPANY WEBSITE OR EMAIL ADDRESS: ?				
Representative attending the Bidding:	NAME OF THE COMPANY REPRESENTATIVE: ?				
	POSITION TITLE OF THE COMPANY REPRESENTATIVE: ?				
JV info: IS THE BIDDER INTO JOINT VENTURE AGREEMENT WITH ANOTHER ENTITY/IES?		YES		NO	

**THE ELIGIBILITY DOCUMENTS**

**PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines**

ELIGIBILITY DOCUMENTS	mark	As Checked
1) Current PhilGEPS Certificate of Registration - Platinum Membership or the following; o Registration Certificate; and o Valid Mayor's/Business Permit, or equivalent document; and o Current Tax Clearance Certificate (TCC) or equivalent document;	E1	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Statement of ALL ONGOING government and private contracts, including contracts awarded but not yet started, if any	E2	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Statement of a SINGLE LARGEST COMPLETED CONTRACT (SLCC) similar to the contract to be bid, per BDS Clause 5.2, and supported by photocopy of the following documents issued by the Owner of the project other than the contractor: <ul style="list-style-type: none"> <li>• Certificate of Completion or Final Acceptance, whichever is applicable; or</li> <li>• Any proof of documents to the Final Acceptance of the project (e.g. Official Receipt or Sales Invoice) issued by the project owner; or</li> <li>• Photocopy of final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES).</li> </ul>	E3	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) NFCC computation,	E4	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
5) Valid PCAB License and Registration with at least "Small B" (Size Range) and "C & D" (License Category) per BDS Clause 10.3	E5	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
6) If applicable, valid Joint Venture Agreement (JVA), 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, shall be included in the bid.	E6	<input type="checkbox"/> Passed <input type="checkbox"/> Failed <input type="checkbox"/> N/A

**END OF ELIGIBILITY DOCUMENTS CHECKLIST**

BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED	
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THE TECHNICAL DOCUMENTS		
PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines		
TECHNICAL DOCUMENTS	mark	As Checked
1) Bid security in the prescribed form, amount and validity period, per BDS Clause 15.1.	T1	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Certificate of Site Inspection from the bidder duly signed by its authorized Representative, per BDS Clause 21	T2	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Proposed Organizational Chart for the Project, per BDS Clause 21	T3	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) Project Work Schedule & Gantt Chart/S-Curve, per BDS Clause 21 under Technical Documents	T4	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
5) PERT-CPM reflecting the Critical Path Method with a Time Scaled Network Diagram showing the Early Start, Early Finish, Late Start, Late Finish, Total Float, and Free Float of all the activities stated on the Network Diagram, per BDS Clause 21	T5	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
6) List of Bidder's Key Personnel for the Project, in Bidder's Letterhead, as per BDS Clause 10.4	T6	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
7)Curriculum Vitae (CV) for all proposed key personnel as per BDS Clause 10.4	T7	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
8) Proposed Manpower Schedule, per BDS Clause 21	T8	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
9) Duly Notarized Omnibus Sworn Statement	T9	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
END OF TECHNICAL DOCUMENTS CHECKLIST		
BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED

## CHECKLIST No. 2: FINANCIAL DOCUMENTS

01. All submissions of the Bidder must clearly indicate the document number. For example, the financial documents F01-FINANCIAL PROPOSAL FORM (e.g, 4 pcs) should be marked “F01~1”, “F01~2”, “F01~3” and “F01~4”.

02. On this checklist; the column “As Checked” shall be marked ...

- “PASSED” to indicate that said document was available; or
- “FAILED” when the document listed is not available in the bid proposal submitted;

03. At any stage of the procurement process, a proposal may still be declared “not eligible” or “failed” if the contents / substance of the submitted document is missing, or is found inappropriate, or does not comply with the given requirements for this transaction.

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	COMPANY HEAD OFFICE MAILING ADDRESS: ?		
	COMPANY WEBSITE OR EMAIL ADDRESS: ?		
Representative attending the Bidding:	NAME OF THE COMPANY REPRESENTATIVE: ?		
	POSITION TITLE OF THE COMPANY REPRESENTATIVE: ?		
JV info: IS THE BIDDER INTO JOINT VENTURE AGREEMENT WITH ANOTHER ENTITY/IES?		YES	NO

**PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines**

FINANCIAL DOCUMENTS	mark	As Checked
1) FINANCIAL BID FORM as prescribed	F1	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Duly signed Bill-of-Quantities (BOQ) as prescribed	F2	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Detailed Unit Price Analysis (DUPA) as prescribed	F3	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) Payment Schedule as prescribed	F4	<input type="checkbox"/> Passed <input type="checkbox"/> Failed

END OF FINANCIAL PROPOSAL COMPONENT CHECKLIST

BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED	
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# ANNEXES

ANNEX	<b>GUIDELINES AND PROCEDURES</b>
1	GUIDELINES IN THE CONDUCT OF PRE-BID CONFERENCE
2	GUIDELINES IN THE SUBMISSION OF BIDS (MANUAL) AND OPENING OF BIDS
3	GENERAL SCOPE
	<b>FORMS</b>
A	Bid Form
B	Omnibus Sworn Statement
C	Bid-Securing Declaration
D	FORM OF BID SECURITY: BANK GUARANTEE
E	FORM OF BID SECURITY: IRREVOCABLE LETTER OF CREDIT
F	CONTRACTOR'S ORGANIZATIONAL CHART FOR THE CONTRACT
G	LIST OF CONTRACTOR'S KEY PERSONNEL TO BE ASSIGNED TO THE CONTRACT, WITH THEIR QUALIFICATION DATA
H	UNDERTAKING FROM THE CONTRACTOR'S KEY PERSONNEL
I	LIST OF CONTRACTOR'S MAJOR CONSTRUCTION AND LABORATORY EQUIPMENT UNITS TO BE ASSIGNED TO THE CONTRACT, SUPPORTED BY CERTIFICATIONS OF AVAILABILITY
J	CASH FLOW BY QUARTER
K	Form of Contract Agreement
L	STATEMENT FORM NO. 2 (IF COVERED BY NON-DISCLOSURE AGREEMENT) STATEMENT OF ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS



## ANNEX 1

### GUIDELINES IN THE CONDUCT OF PRE-BID CONFERENCE

1. With due observance of social distancing measures, when necessary, Pre-bid Conferences, whenever scheduled, shall refer to the conduct of face-to-face pre-bid conference, online teleconferencing or videoconferencing. The date, time and online platform shall be stated in the procurement opportunity (i.e., Invitation to Bid, etcetera) or in duly issued Bid Bulletin.
2. Prior to the scheduled pre-bid conference, prospective bidders shall signify their intention to participate in the scheduled pre-bid conference by submitting/registering their contact information and e-mails where the online invitation to participate shall be sent. Prospective bidders who fail to participate in the pre-bid conference shall not be disqualified.
3. Participating bidders are highly encouraged to download the bidding documents from the PEZA-BCEZ or PhilGEPS websites.
4. For expedient conduct of the Conference/Meeting, the bidders shall be expected to have read and sufficiently understood the issued bidding documents and requirements prior to the scheduled Conference/Meeting. Bidders may send their questions or requests for clarification in advance at least one (1) day prior to the date of Pre-bid Conference/Meeting to **bcezbacsec@peza.gov.ph**. Participating bidders may also use the online messaging facility during the meeting, which shall form part of the Minutes. The discussions will focus on the documentary requirements that need emphasis, as deemed necessary, and on the queries/clarifications received from the prospective bidders.
5. Those who were not able to participate in the pre-bid conference may still submit manual bids.
6. The minutes of the pre-bid conference shall be made available to the prospective bidders not later than five (5) calendar days after the pre-bid conference, upon written request. The same shall likewise be posted in the website of the PEZA.

### INSTRUCTIONS ON CONNECTION TO MICROSOFT TEAMS

1. The conduct of Pre-bid Conference/Pre-Eligibility/Preliminary Meeting shall be through online teleconferencing or videoconferencing using the **Microsoft Teams platform**. Please be guided by the following:

<b>Instructions to Participating Bidders</b>
Participating bidders are requested to submit their contact information and email addresses to be used for the videoconferencing to bcezbacsec@peza.gov.ph at least one (1) day before the conduct of activity for the Sending of meeting invitation.

<b>Instructions to Participating Bidders</b>	
<p>Only <b>one (1)</b> authorized representative from the participating bidder shall have access privilege in the videoconference proceedings to easily monitor and facilitate the conduct of the activity.</p> <p>A Microsoft Teams meeting invitation shall be sent by the BAC-Secretariat to the respective e-mail address of the authorized representatives for the following:</p>	
<p>For the Conference/ Meeting Proper</p>	<p>At least thirty (30) minutes before the conference/meeting proper</p>
<p>The same email address submitted by the participating bidder shall be used by the PEZA-BCEZ in sending the <b>Microsoft Teams</b> meeting invitation for the Conference/ Meeting proper.</p> <p><b>Note:</b> In case the participating bidder was not able to submit its email to the BAC-Secretariat in advance, it may still join the videoconferencing by submitting an email to the BAC-Secretariat at least thirty (30) minutes before the time of the Pre-Bid Conference. The participating bidder shall be responsible in ensuring that it has the required Microsoft Teams/capable facility/device to successfully connect to the Microsoft Teams Meeting Room.</p>	

2. Representatives of the bidders shall be prepared to log-in and are advised to be on standby **at least twenty (20) minutes** before the start of the Conference/Meeting to check if connection to Microsoft Teams is successful. Failure to join on the set date and

time shall be marked as late and shall constitute as waiver to be present for the activities that have lapsed until he/she joined the meeting.

3. Additional Reminders:

- In order to properly acknowledge the bidders participating in the Conference/Meeting for records purposes, bidders are advised at the start of the activity to turn on the Video of the laptops or mobile devices being used. After the BAC-Secretariat has completed the roll call, participants to the videoconferencing will be requested to turn off the Video to avoid possible lags in connection.
- In joining the videoconferencing, prospective bidders are requested to indicate their respective full/complete name and the company being represented.
- For orderly conduct of the conference, answering of queries/requests for clarification will be done per bidder. In case there will be follow-up queries, the same can be done after all the bidders have been called.

**GUIDELINES IN THE SUBMISSION OF BIDS (MANUAL) AND OPENING OF BIDS**

Prospective bidders have to submit their bids MANUALLY.

Manual SUBMISSION OF BIDS:

1. The address for submission of hard copy of bids is at **PEZA-BCEZ Admin Building Lobby, Loakan Road, Baguio**. Bid boxes are suited at the lobby area of BCEZ Admin Building where bids can be dropped.
2. As precautionary measure, participating bidders are strongly advised to **wrap/enclose** their respective bidding documents with **plastic, preferably clear** to facilitate disinfection/sanitation and quick evaluation on the proper sealing and marking of bid envelopes.
3. The schedule of the submission of bidding documents/eligibility documents/BAFO shall be on the date and time as indicated in the Invitation to Bid/Bid Bulletins issued. Bidders are advised to submit their documents **at least thirty (30) minutes** before the scheduled deadline of submission to allow time for possible queueing due to conduct of thermal scanning, and for sanitation of the bid envelope(s) and transit of the documents to the designated bidding room.
4. As social distancing measure, Bid Box(es) will be strategically placed at BCEZ Admin Lobby for dropping/submission of bid documents.
5. The representative of the bidder or courier service provider shall fill-up the **Bid Submission Form** available at the **lobby area** at BCEZ Admin **which shall be attached** to the bid documents submitted.
6. The procedure on the submission of bids under the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184 (2016 Revised IRR) shall continue to be observed.
7. Bidders from outside Baguio must follow the protocols implemented by Baguio City LGU. Please click the link for latest updates regarding protocols. **<https://www.facebook.com/search/top?q=public%20information%20office%20baguio>**

*Note: The BCEZ BAC will not issue Endorsement or Certification to bidders for purposes of Border Entry.*

**Note: Pursuant to Section 25.9 of the 2016 Revised IRR of RA 9184, Unsealed and/or Unmarked bids shall be rejected.**

## **OPENING OF BIDS**

### **A. ATTENDANCE AND PRELIMINARIES**

1. Bidders shall be prepared to login in the tele/videoconferencing facility of the PEZA-BCEZ at least twenty (20) minutes before the scheduled deadline and opening of bids. Failure to join on the set date and time shall be marked as the late and shall constitute a waiver to be present for the activities that have lapsed until he/she joined the meeting.
2. Only one (1) bidder's authorized representative shall have access privilege to participate in the tele/videoconference proceedings. However, depending on the nature of item being procured, additional representative may be allowed (e.g., when local and principal firms will be attending the pre-bid conference.)
3. Representative of the bidders shall be prepared to login and are advised to be on standby at least twenty (20) minutes before the scheduled deadline and opening of bid docs to check if connection to Microsoft Teams is successful. Failure to join on the said date and time shall be marked as late and shall constitute a waiver to be present for the activities that have lapsed until he/she joined the meeting. The bidder cannot question activities that were conducted in his/her absence.
4. The BAC shall proceed with the roll call to record the attendance and determine the presence of a quorum.
5. Thereafter, the BAC shall officially announce the start of the bid opening.

### **B. OPENING OF ELIGIBILITY AND TECHNICAL DOCUMENTS (Envelope No. 1)**

1. The BAC Secretariat shall announce the list of participating bidders.
2. The BAC Chairperson shall then motion to open and conduct eligibility check, examination of technical documents and recording of the manually submitted bids.
3. Thereafter, the checking of eligibility and technical documents shall be undertaken by the *Bid Opener/s* in accordance with the procedure for preliminary examination of bids under Section 30 of the IRR.

### **C. OPENING AND EVALUATION OF FINANCIAL DOCUMENTS (Envelope No. 2)**

1. The manually submitted financial proposals shall be opened.
2. The BAC Chairperson shall then motion to open and conduct preliminary evaluation and recording of the manually submitted financial proposal.

3. The BAC Secretariat shall enumerate and present the submitted financial proposals of the Bidders from the lowest to the highest bid.
4. If there are no issues involved, the BAC Chairperson shall adjourn the conduct of examination of the bids and excuse the participating bidders. The Abstract of Bids as read, and the minutes of the bid opening shall be prepared and be made available to the participating bidders and the public upon written request.
5. The BAC may proceed with the conduct of the detailed evaluation of bids on the same day as the bid opening date, or set the conduct of bid evaluation to another date and time pursuant to section 32 and 33 of the 2016 Revised IRR.

## **GENERAL SCOPE**

### **1. CONTRACTOR.S RESPONSIBILITIES**

A. The Contractor shall ensure that it has considered all site conditions of the proposed project to arrive at an estimate of the labor, materials, equipment, facilities and services necessary to carry out the work.

B. The Contractor shall be responsible for the proper execution and coordination of his work. He shall schedule and program all necessary work activities according to the specified completion period.

C. The Contractor shall observe the required standards of safety and procedures and that its contract and workers shall be properly insured against all risks. He shall provide/equip its workers with Personal Protective Equipment (PPE) during the course of construction/installation.

D. The Contractor shall be responsible for securing PEZA issued work permits and compliance with other PEZA rules and regulations related to the construction works such as Fire Precautions Guide and the approved PEZA House Rules for Contractors. All workers working at the site are required to wear company uniforms indicating their company name together with PEZA issued Zone Pass/ID.

E. The Contractor is not allowed to erect quarters for workers within the project site. Also workers are not allowed to sleep within the SFB Compound. Contractor's workers are limited to the designated working area only. Loitering around and inside the SFB Compound is not allowed.

F. The Contractor shall be responsible for clearing and cleaning of the designated project site of unused materials, left over and other debris at the site and disposal of the same outside the PEZA-BCEZ premises. A daily inspection of the work area shall be conducted by the Contractor and PEZA-BCEZ representative to ensure that the working area and storage area assigned to the Contractor is clean and in order at all times.

G. The contractor shall be responsible for the segregation of accumulated construction waste at the project site. The waste will be segregated properly and an orderly manner according to waste categories (i.e. non-hazardous and hazardous). A daily inspection of the area shall be conducted by the Contractor and PEZA-BCEZ representative/PCO to ensure compliance of the required waste segregation.

H. The Contractor shall protect adjacent areas against any damage by his employees, or by his materials, equipment and tools during the execution of the work. Any damage done by him or his employees shall be repaired and restored to its original condition at no additional cost/compensation from the PEZA.

I. The contractor shall be responsible for securing the safety of its personnel, equipment and materials at the project site. PEZA shall not be liable for any loss, injury/death arising from the Contractor's negligence.

J. Water and power used in connection with the construction work shall be supplied by the Contractor at cost to the Contractor. The Contractor has the option to tap for water and power connection to PEZA subject to existing PEZA established rates and conditions. The Contractor shall be billed the cost of water and electricity based on actual consumption.

K. All work mentioned herein must be under the full time supervision and direction of a certified registered Civil Engineer or Architect who shall be the designated Project Engineer (PE) of the Contractor. Said PE must be the one to report on a weekly/monthly basis of the status/progress of the project as agreed during the kick-off meeting and who shall be the one responsible for all coordination works with the PEZA-BCEZ representative/s.

L. The Contractor shall be required to adhere to applicable safety provisions stated in the PEZA-BCEZ House Rules and Safety Guidelines and OSH Standards at all times for the duration of the project. A full-time Safety Officer in-charge shall be required for the implementation of safety standards.

M. All other items of work not specifically mentioned but are necessary to complete the works in accordance with the plans and specifications and other related documents shall be provided by the Contractor at no additional cost to the PEZA-BCEZ.

N. The Contractor shall ensure that its deployed employees are fit to work, and not showing symptoms or infected with the COVID-19 virus. Infected personnel shall be immediately isolated in coordination with the City and Health Services Unit and not be allowed to report for work. The Contractor is also mandated to comply with the Department of Health (DOH) and other government agency protocols in the management of the health and safety of its deployed workers.

O. The Contractor shall ensure that all personnel to be deployed shall strictly observe precautionary measures implemented by the PEZA-BCEZ to keep the workplace free, and to prevent the transmission, of COVID-19, e.g. physical distancing, frequent hand washing, wearing of face masks, and temperature checks at entry points, and such other measures that will be issued by the PEZA-BCEZ.

P. The Contractor shall supply the necessary personal protective equipment (PPE) and related supplies for all its personnel, such as face masks, in connection with the performance of their duties.

Q. Any infraction committed by the personnel against such measures shall be a ground for the PEZA-BCEZ to request for replacement and/or terminate the deployment of said personnel.

## **2. CONSTRUCTION SAFETY**

A. The Contractor shall be required to adhere to applicable safety provisions stated in the PEZA-BCEZ House Rules and Safety Guidelines and Occupational Safety and Health Standards required by Department of Labor and Employment (DOLE) at all times for the duration of the project.

1. Composition of Construction and Health Committee
2. Specific safety policies of the contractor shall be observed at the area of construction which include but not limited to fall protection, chemical hazards, material handling and storage.



3. Penalties and for violation of the program.
  4. The procedures and manner of disposing waste arising from the construction.
- B. The Contractor shall be required to perform a regular daily Toolbox Meeting among workers and their respective supervisors for the purpose of instruction, discussions and proper briefing of planned works, the possibility of actual occurrence of accidents at the site and preclusions.

### 3. PENALTY CLAUSE

- A. The contractor shall adhere to the daily cleaning and clearing of the designated project site of unused materials and other construction debris and disposal of the same outside the PEZA-BCEZ premises (noted/observed uncollected debris at the start of any working day shall be considered an occurrence of violation against this provision and shall be subject to appropriate penalty as stated herein.
- B. If any of the above-mentioned clauses are not adhered, the contractor shall not be issued with the Certificate of Satisfactory Performance and corresponding penalty shall be imposed based on the penalty scheduled below.

Violation	Violation Deductible Amount
Spread of fumes/smoke/dust to adjacent area which results to complaint and partial/complete evacuation of occupants	Php 5,000.00 per instance
Absence of PE/PIC without qualified alternate	Php 5,000.00 per day
Absence of SO without qualified alternate	Php 5,000.00 per day
Non-wearing of Personal Protective Equipment (PPE.s) during work	Php 1,000.00 per person per instance and subject to cancellation of work without contract time extension
Uncollected debris and/or unclean work area/temporary facility/unsegregated construction wastes	Php 2,000.00 per day
Loitering of workers	From Php 1,000.00 per instance
Damage to PEZA-BCEZ property/structures	To be determined based on actual incident
Theft	To be determined based on actual incident

## A. Bid Form

---

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

IB N°: \_\_\_\_\_

To: *[name and address of PROCURING ENTITY]*

Address: *[insert address]*

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract *[insert name of contract]*;
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

The total price of our Bid, excluding any discounts offered below is: *[insert information]*;

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

- (c) Our Bid shall be valid for a period of *[insert number]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) 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;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: *[insert information]*;
- (f) 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;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) 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

- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) **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].**
- (k) **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: \_\_\_\_\_

In the capacity of: \_\_\_\_\_

Signed: \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of: \_\_\_\_\_

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

## B. Omnibus Sworn Statement

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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]* *[insert "as shown in the attached duly notarized Special Power of Attorney" for the authorized representative]*;

*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]*, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, 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;
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 following responsibilities as a Bidder:
  - a) Carefully examine all of the Bidding Documents;
  - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
  - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d) Inquire or secure 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.

\_\_\_\_\_  
Bidder's Representative/Authorized Signatory

**SUBSCRIBED AND SWORN** to before me this \_\_\_ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. \_\_\_\_\_ and his/her Community Tax Certificate No. \_\_\_\_\_ issued on \_\_\_ at \_\_\_\_\_.

Witness my hand and seal this \_\_\_ day of [month] [year].

**NAME OF NOTARY PUBLIC**

Serial No. of Commission \_\_\_\_\_

Notary Public for \_\_\_\_\_ until \_\_\_\_\_

Roll of Attorneys No. \_\_\_\_\_

PTR No. \_\_\_\_\_ [date issued], [place issued]

IBP No. \_\_\_\_\_ [date issued], [place issued]

Doc. No. \_\_\_\_\_

Page No. \_\_\_\_\_

Book No. \_\_\_\_\_

Series of \_\_\_\_\_

\* This form will not apply for WB funded projects.

## C. Bid-Securing Declaration

(REPUBLIC OF THE PHILIPPINES)

CITY OF \_\_\_\_\_ ) S.S.

X-----X

**Invitation to Bid** *[Insert reference 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 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 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 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;
  - c. I am/we are declared as 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'S AUTHORIZED REPRESENTATIVE]**  
**[Insert signatory's legal capacity]**

Affiant

**SUBSCRIBED AND SWORN** to before me this \_\_ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_ day of [month] [year].

**NAME OF NOTARY PUBLIC**

**Serial No. of Commission** \_\_\_\_\_  
**Notary Public for** \_\_\_\_\_ **until** \_\_\_\_\_  
**Roll of Attorneys No.** \_\_\_\_\_  
**PTR No.** \_\_, [date issued], [place issued]  
**IBP No.** \_\_, [date issued], [place issued]  
**Doc. No.** \_\_\_\_\_  
**Page No.** \_\_\_\_\_  
**Book No.** \_\_\_\_\_  
**Series of** \_\_\_\_\_.



#### D. FORM OF BID SECURITY: BANK GUARANTEE

WHEREAS,     Name of Bidder    , hereinafter called "the Bidder," has submitted its bid dated \_\_\_\_\_ for the     Contract ID and Name    , hereinafter called "the Bid."

KNOW ALL MEN by these presents that We,     Name of Bank     of     Name of Country    , having our registered office at \_\_\_\_\_, hereinafter called "the Bank," are bound unto     Name of Procuring Entity    , hereinafter called "the Entity," in the sum of     amount in words and figures     for which payment well and truly to be made to the said Entity the Bank binds itself, its successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

THE CONDITIONS of this obligation are that:

- 1) if the Bidder withdraws the Bid during the period of bid validity specified in the Form of Bid; or
- 2) if the Bidder does not accept the correction of arithmetical errors of its bid price in accordance with the Instructions to Bidder; or
- 3) if the Bidder having been notified of the acceptance of the Bid and award of contract to it by the Entity during the period of bid validity:
  - a) fails or refuses to submit the requirements for and to execute the Form of Contract in accordance with the Instructions to Bidders, if required; or
  - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Entity up to the above amount upon receipt of its first written demand, without the Entity having to substantiate its demand, provided that in its demand the Entity will note that the amount claimed by it is due to the occurrence of any one or combination of the three (3) conditions stated above.

The Guarantee will remain in force up to a period of \_\_\_\_\_ days after the opening of bids as stated in the Instructions to Bidders or as it may be extended by the Entity, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank within the said period.

Name and Signature of Bank's Authorized Signatory

Date:

\_\_\_\_\_ Position

**E. FORM OF BID SECURITY: IRREVOCABLE LETTER OF CREDIT**

Date of Issuance

Name of Head of Procuring Entity

Position

Name of Procuring Entity

Address

Irrevocable Letter of Credit No. \_\_\_\_\_

For: Contract ID and Name \_\_\_\_\_

WHEREAS, Name of Bidder, hereinafter called the "Bidder," has undertaken to submit to you a bid for the above stated Contract, and whereas you have stipulated in the Instructions to Bidders for the said Contract that the Bidder shall furnish you with an irrevocable standby Letter of Credit for a sum specified therein as Bid Security for the faithful compliance of the obligations of the Bidder:

WHEREAS, the Conditions of this obligation are that:

- 1) if the Bidder withdraws the Bid during the period of bid validity specified in the Form of Bid; or
- 2) if the Bidder does not accept the correction of arithmetical errors of its bid price in accordance with the Instructions to Bidders; or
- 3) if the Bidder having been notified of the acceptance of the Bid and award of contract to it by the Entity during the period of bid validity:
  - a) fails or refuses to submit the requirements for and to execute the Form of Contract in accordance with the Instructions to Bidders; or
  - b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Entity up to the above amount upon receipt of its first written demand, without the Entity having to substantiate its demand, provided that in its demand the Entity will note that the amount claimed by it is due to the occurrence of any one or combination of the three (3) conditions stated above.

WHEREAS, we have agreed to guarantee this obligation of the Bidder.

THEREFORE, we hereby affirm that we are guarantors and responsible to you, on behalf of the Bidder, up to the total amount of amount of guarantee and we undertake to pay you, upon first written demand declaring the Bidder to be in default under the Instructions to Bidders and without cavil or argument, any sum or sums within the limits of amount of guarantee as aforesaid, without you needing to prove or show grounds or reasons for your demand for the sum specified therein.

This irrevocable guarantee is valid until one hundred twenty (120) calendar days after the date of opening of bids for the said Contract on date.

This certification is being issued in favor of the said Bidder in connection with your requirements of the bidding for the said Contract. We are aware that any false statements issued by us make us liable to perjury.

*Name and Signature of Authorized Financing Institution*

*Official Designation*

Concurred by:

*Name and Signature of Bidder's Authorized Representative*

*Official Designation*

**F. CONTRACTOR’S ORGANIZATIONAL CHART FOR THE CONTRACT**

Submit a copy of the Organizational Chart that the Contractor intends to use to execute the Contract if awarded to it. Indicate in the chart the names of the Project Manager, Project Engineer, Structural Engineer, Materials and Quality Control Engineer, Foremen, and other Key Personnel, as required in the Instructions to Bidders (Bid Data Sheet). Include Sub Contractors, if any.

Attach the required Proposed Organizational Chart for the Contract as stated above.

Name and Signature of Bidder’s Representative

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

Position

Name of Bidder

**G. LIST OF CONTRACTOR’S KEY PERSONNEL TO BE ASSIGNED TO THE CONTRACT, WITH THEIR QUALIFICATION DATA**

Date of Issuance

Name of Head of Procuring Entity

Position

Name of Procuring Entity

Address

Dear Sir/Madame:

Supplementing our Organizational Chart for the abovestated Contract, we submit, and certify as true and correct, the following information:

1. We have engaged the services of the following key personnel to perform the duties of the positions indicated in the abovestated Contract if it is awarded to us:

Proposed Position ( <i>as applicable</i> )	Name	Years of Experience	
		Total (Similar and Related)	Similar Position
Project Manager			
Project Engineer			
Materials Engineer			
Construction Safety Officer			
Foreman			
<i>Others (specify)</i>			

2. We submit the enclosed Curriculum Vitae and Affidavits of Commitment to Work on the Contract of these key personnel.
3. We ensure that the abovementioned personnel shall employ their best care, skill, and ability in performing the duties of their respective positions in accordance with the provisions of the

Contract, including the Conditions of Contract, Specifications, and Drawings, and that they shall be personally present in the jobsite during the period of their assignment in the Contract.

4. In the event that we choose to replace any of the abovementioned key personnel, we shall submit to you in writing at least fourteen (14) days before making the replacement, for your approval, the name and biodata of the proposed replacement whose qualifications shall be equal to or better than that of the person to be replaced.
  
5. We understand that any violation of the abovestated conditions shall be a sufficient ground for us to be disqualified from this Contract and future biddings of the DPWH.

Very truly yours,

*Name and Signature of Bidder's Authorized Representative*

## H. UNDERTAKING FROM THE CONTRACTOR'S KEY PERSONNEL

I, \_\_\_\_\_ (NAME) \_\_\_\_\_, of legal age, \_\_\_\_\_ (Civil Status) \_\_\_\_\_, a resident of \_\_\_\_\_ (Address) \_\_\_\_\_, after having been sworn in accordance with law, do hereby depose and say that:

1. I am a licensed \_\_\_\_\_ (Profession) \_\_\_\_\_, with Professional License No. \_\_\_\_\_, issued on \_\_\_\_\_ (Date) \_\_\_\_\_, at \_\_\_\_\_ (Place) \_\_\_\_\_;
2. \_\_\_\_\_ (Name of Contractor) \_\_\_\_\_ has engaged my services as \_\_\_\_\_ (Designation) \_\_\_\_\_ for \_\_\_\_\_ (Project Title) \_\_\_\_\_ of the Philippine Economic Zone Authority (PEZA), if awarded the contract;
3. As \_\_\_\_\_ (Designation) \_\_\_\_\_, I have supervised/ managed with the last \_\_\_\_\_ (No. of Years) \_\_\_\_\_, the following completed project similar to the contract under bidding.

No.	Name of Project	Owner	Cost	Date Completed

4. At present, I am supervising/managing the following projects:

No.	Name of Project	Owner	Cost	Date Completed



5. In case of my separation for any reason from the above-mentioned contractor, I shall notify the PEZA at least twenty-one (21) days before the effective date of my separation;
6. As \_\_\_\_\_ (Designation)\_\_\_\_\_, I commit to stay in the job site all the times to supervise and manage the \_\_\_\_\_ (Project Title)\_\_\_\_\_ of PEZA, if awarded to \_\_\_\_\_ (Name of Contractor)\_\_\_\_\_ to the best of my ability, I am also aware that I am authorized to handle only one (1) contract at a time;
7. I shall not allow the use of my name for the purpose of enabling the above-mentioned Contractor to qualify for the Contract without any firm commitment on my part to assume the position of \_\_\_\_\_ (Designation)\_\_\_\_\_;
8. I understand that to allow the use of my name for such purposes shall be sufficient ground for my disqualification as \_\_\_\_\_ (Designation)\_\_\_\_\_ in any future PEZA projects or employment with any Contractor doing business with the PEZA.

---

**(Signature above Printed Name of Key Personnel)**

**I. LIST OF CONTRACTOR'S MAJOR CONSTRUCTION AND LABORATORY EQUIPMENT UNITS TO BE ASSIGNED TO THE CONTRACT, SUPPORTED BY CERTIFICATIONS OF AVAILABILITY**

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

\_\_\_\_\_

Business Address : \_\_\_\_\_

\_\_\_\_\_

Description	Model/Year	Capacity / Performance / Size	Plate No.	Motor No. / Body No.	Location	Condition	Proof of Ownership / Lease/Purchase
A. Owned <sup>1</sup>							
i.							
ii.							
iii.							
iv.							
v.							
B. Leased <sup>2</sup>							
i.							
ii.							
iii.							
iv.							
v.							
C. Under Purchase Agreements <sup>3</sup>							
i.							
ii.							

iii.							
iv.							
v.							

<sup>1</sup>Attached are copies of sales invoice / Registration Certificate from LTO.

<sup>2</sup>Attached are the certifications from the lessors that the equipment units under B (Leased) shall be available for this contract.

<sup>3</sup>Attached are the certifications from the vendors that the equipment units under C (Purchase Agreements) shall be available for this contract.

Minimum major construction equipment requirement as prescribed in the Bid Data Sheet:      Minimum major laboratory equipment requirements as prescribed in Bid Data Sheet:

_____	_____
_____	_____
_____	_____
_____	_____

Name and Signature of Bidder's Representative

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

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-----  
-----  
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Position

Name of Bidder

**J. CASH FLOW BY QUARTER**

PARTICULAR	TOTAL.	YEAR _____				YEAR _____			
		1st Q	2nd Q	3rd Q	4th Q	1ST Q	2ND Q	3RD Q	4TH Q
ACCOMPLISHMENT, IN %	100.0%								
CASH FLOW, IN PhP									
CUMULATIVE ACCOMPLISHMENT, IN %	100.0%								
CUMULATIVE CASH FLOW, IN PhP									

PARTICULAR	TOTAL.	YEAR _____				YEAR _____			
		1st Q	2nd Q	3rd Q	4th Q	1ST Q	2ND Q	3RD Q	4TH Q
ACCOMPLISHMENT, IN %									
CASH FLOW, IN PhP									
CUMULATIVE ACCOMPLISHMENT, IN %									
CUMULATIVE CASH FLOW, IN PhP									

Submitted by:

Name and Signature of Bidder's Representative

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

Position

Name of Bidder

## **K. Form of Contract Agreement**

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents shall be attached, deemed to form, and be read and construed as integral part of this Agreement, to wit:
  - (a) General and Special Conditions of Contract;
  - (b) Drawings/Plans;
  - (c) Specifications;
  - (d) Invitation to Bid;
  - (e) Instructions to Bidders;
  - (f) Bid Data Sheet;
  - (g) Addenda and/or Supplemental/Bid Bulletins, if any;
  - (h) Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;
  - (i) Eligibility requirements, documents and/or statements;
  - (j) Performance Security;
  - (k) Notice of Award of Contract and the Bidder’s conforme thereto;
  - (l) Other contract documents that may be required by existing laws and/or the Entity.
3. In consideration of the payments to be made by the Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Entity to

execute and complete the Works and remedy any defects therein in conformity with the provisions of this Contract in all respects.

4. The Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

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

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Entity)

Signed, sealed, delivered by \_\_\_\_\_ the \_\_\_\_\_ (for the Contractor).

Binding Signature of Procuring Entity

\_\_\_\_\_

Binding Signature of Contractor

\_\_\_\_\_

*[Addendum showing the corrections, if any, made during the Bid evaluation should be attached with this agreement]*

**STATEMENT FORM NO. 2  
(IF COVERED BY NON-DISCLOSURE AGREEMENT)**

**STATEMENT OF ALL ONGOING GOVERNMENT AND PRIVATE CONTRACTS**

I/We \_\_\_\_\_, do hereby state that:

1. I/We am/are the authorized and designated representative/s of \_\_\_\_\_ (Name of Bidder) \_\_\_\_\_ with office address at \_\_\_\_\_; and
2. I/We am/are making this Statement of All Ongoing Government and Private Contract/s as of \_\_\_\_\_ in compliance with Sections 23.1 and 24.1 of the revised IRR of R.A. 9184 and in accordance with the requirements of the PEZA-BCEZ – Bids and Awards Committee:

**ONGOING GOVERNMENT CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED**

Project Name and Description	a. Client Name b. Contact Person c. Address d. Contact Nos.	Contract References (e.g. Purchase Order/Job Order/Contract Agreement)	Date	Indicative Aggregate Contract Amount	% of Accomplishment		Indicative Aggregate Value of Outstanding Works/Undelivered Portion
					Planned	Actual	
GOVERNMENT							
					Total Cost		

**ONGOING PRIVATE CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED**

Project Name and Description	a. Client Name b. Contact Person c. Address d. Contact Nos.	Contract References (e.g. Purchase Order/Job Order/Contract Agreement)	Date	Indicative Aggregate Contract Amount	% of Accomplishment		Indicative Aggregate Value of Outstanding Works/Undelivered Portion
					Planned	Actual	
GOVERNMENT							
					Total Cost		

(Note: Please use additional sheets, if necessary)

(Signature above Printed Name of Bidder's Duly Authorized Representative)

**SUBSCRIBED AND SWORN** to me this \_\_\_\_ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [any government-issued ID, please specify]. With his/her photograph and signature appearing thereon, with no. \_\_\_\_ issued on \_\_\_\_ at \_\_\_\_\_.

Witness my hand and seal this \_\_\_\_ day of [month] [year].

Name of Notary Public  
Serial No. of Commission  
Notary Public for \_\_\_\_\_ until \_\_\_\_\_  
Roll of Attorneys No. \_\_\_\_\_  
PTR No. \_\_\_\_, [date issued], [place issued]  
IBP No. \_\_\_\_, [date issued], [place issued]

Doc. No. \_\_\_\_  
Page No. \_\_\_\_  
Book No. \_\_\_\_  
Series of \_\_\_\_.



### **Omnibus Sworn Statement**

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.

