

PHILIPPINE BIDDING DOCUMENTS



PHILIPPINE MERCHANT MARINE ACADEMY

CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS

ABC – P25,000,000.00

**LOT A – CONSTRUCTION OF MIDSHIPMAN'S DORMITORY
QUARTERS(PID NO. 2021-011A) – P20,000,000.00**

**LOT B – OFFICE EQUIPMENT AND OTHER OFFICE
FURNITURE(PID NO. 2021-011B) – P5,000,000.00**

June, 2021

TABLE OF CONTENTS

GLOSSARY OF TERMS, ABBREVIATIONS, AND ACRONYMS.....	3
SECTION I. INVITATION TO BID	6
SECTION II. INSTRUCTIONS TO BIDDERS	9
1. Scope of Bid	10
2. Funding Information	10
3. Bidding Requirements.....	10
4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices	10
5. Eligible Bidders	11
6. Origin of Associated Goods	11
7. Subcontracts	11
8. Pre-Bid Conference.....	12
9. Clarification and Amendment of Bidding Documents	12
10. Documents Comprising the Bid: Eligibility and Technical Components	12
11. Documents Comprising the Bid: Financial Component	13
12. Alternative Bids	13
13. Bid Prices	13
14. Bid and Payment Currencies	13
15. Bid Security	14
16. Sealing and Marking of Bids.....	14
17. Deadline for Submission of Bids.....	14
18. Opening and Preliminary Examination of Bids.....	14
19. Detailed Evaluation and Comparison of Bids	15
20. Post Qualification	15
21. Signing of the Contract	15
SECTION III. BID DATA SHEET	16
SECTION IV. GENERAL CONDITIONS OF CONTRACT	18
1. Scope of Contract.....	19
2. Sectional Completion of Works	19
3. Possession of Site.....	19
4. The Contractor’s Obligations	19
5. Performance Security.....	20
6. Site Investigation Reports	20

7.	Warranty.....	20
8.	Liability of the Contractor.....	20
9.	Termination for Other Causes	20
10.	Dayworks.....	21
11.	Program of Work	21
12.	Instructions, Inspections and Audits	21
13.	Advance Payment	21
14.	Progress Payments	21
15.	Operating and Maintenance Manuals	22
SECTION V. SPECIAL CONDITIONS OF CONTRACT		23
SECTION VI. SPECIFICATIONS		25
SECTION VII. DRAWINGS		64
SECTION VIII. BILL OF QUANTITIES.....		94
SECTION IX. CHECKLIST OF TECHNICAL AND FINANCIAL DOCUMENTS.....		98

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippines
Philippine Merchant Marine Academy
San Narciso, Zambales



PMMA - Main Office
PMMA Complex,
Brgy. Natividad,
San Narciso, Zambales,
2200 Philippines
Tel: (047) 822-2796

PMMA - Department
Of Education Quality
Improvement
Office - Division Office
Zambales Building,
Palayaya (Old) Building,
San Narciso, Zambales,
2200 Philippines

Tel: (047) 716-1314
San Narciso Center

Tel: (047) 721-2221
Training Center,
Lambaca (Old) Bldg.

OEQI - ZAMBALTES
DIVISION OFFICE

San Narciso (Old)

Page 2 of 2

July 2021

INVITATION TO BID CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS

1. The PHILIPPINE MERCHANT MARINE ACADEMY, through Fund 101, FY 2021, intends to apply the sum of **TWENTY FIVE MILLION PESOS PESOS (Php 25,000,000.00) TOTAL AMOUNT** [for **LOT A (Construction of Midshipman's Dormitory Quarters) = Php 20,000,000.00**; **LOT B (Office Equipment and Other Office Furnitures) = Php 5,000,000.00**], being the Approved Budget for the Contract (ABC) to payments under the contract for **CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The PMMA now invites bids for the Project "CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS". Completion of Works is required 210 Days upon receipt of Notice to Proceed.
3. Bidders should have completed within ten (10) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instruction to Bidders).
4. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
5. Prospective bidders may obtain further information from PHILIPPINE MERCHANT MARINE ACADEMY and inspect the Bidding Documents at the address given below 8:00 a.m. to 5:00 p.m. (Mondays- Thursday) and 8a.m. to 3p.m. during Fridays.
6. A complete set of Bidding Documents may be acquired by interested Bidders on June 18, 2021 from the PMMA Complex, Brgy. Natividad, San Narciso, Zambales and at PMMA website (www.pmma.edu.ph) and upon payment of the applicable fee for the Bidding Documents. Pursuant to the latest Guidelines issued by the GPPB, in the amount of **P25,000 for LOT A (Construction of Dormitory)** and **P5,000 for Lot B (Office Equipment and Other Furnitures)**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person or through electronic means. It may also be downloaded free of charge from the websites of the PhilGEPs and the PMMA, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.
7. The PMMA will hold a **Pre-Bid Conference on June 25, 2021, 01:30 PM**, which shall be open to prospective bidders via Google meet <https://meet.google.com/zmx-zdgd-zap>
8. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before July 8, 2021, 01:30 P.M.. Late bids shall not be accepted.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 16.



Republic of the Philippines
Philippine Merchant Marine Academy
San Narciso, Zambales



10. Bid opening shall be on July 8, 2021, 01:30 P.M., at the Sandagat Hall, PMMA Complex, San Narciso Zambales, and/or via Google Meet: <https://meet.google.com/zmxc-zdgd-zap>. Bids will be opened in the presence of the bidder's representatives who choose to attend the activity and/or via Google Meet.

11. The PMMA reserves the right to reject any and all bids, declare a failure of bidding, or not to award the contract at any time prior to contract award in accordance with Section 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

BAC Secretariat
PMMA Complex, San Narciso, Zambales
Email Address: pmmabac@gmail.com
PMMA Website : www.pmma.edu.ph
Contact No. (047) 913 4386 .

Date of Issue: June 18, 2021

PMMA - Main Site
PMMAC Complex
Brgy. Sandagat
San Narciso Zambales
3202, Philippines
Tel: (047) 913 4386

PMMA - Government
Contract Training Center
Government School
PMMAC Complex
Brgy. Sandagat
San Narciso Zambales
3202, Philippines
Tel: (047) 913 4386

Tel: (047) 913 4386
Government Contract

Tel: (047) 913 4386
Government Contract


CE EDMUND E. SALMON
BAC CHAIRPERSON

2021-06-18 10:58:58
COMMITTEE

2021-06-18 10:58:58

Page 4 of 2

2021-06-18

Section II. Instructions to Bidders

1. **Scope of Bid**

The Procuring Entity, *PHILIPPINE MERCHANT MARINE ACADEMY* invites Bids for the **CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTER**, with Project Identification Number **PID NO. 2021-011A to 011B**.

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 **FY 2021** in the amount of **Php25,000,000.00**.

2.2. The source of funding is:

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

3. **Bidding Requirements**

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

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

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

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

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

5. Eligible Bidders

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

A contract is considered to be "similar" to the contract to be bid if it has the major categories of work stated in the **BDS**.
- 5.3. For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

- a. Subcontracting is not allowed.
- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
 - 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the implementation of this Contract. Subcontractors must

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

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

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **June 25, 2021, 01:30 P.M.** through Google meet <https://meet.google.com/zmx-zdgd-zap>, as indicated in paragraph 7 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

- a. Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until *November 4, 2021*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

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

17. Deadline for Submission of Bids

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 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

Bid Data Sheet

ITB Clause																			
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: a. Construction/Renovation of buildings and/or Highways/Roads, and/or b. Supplied/Delivered Office Equipment and Office Furniture completed within five (5) years prior to the deadline for the submission and receipt of bids.																		
7.1	<i>Subcontracting is not allowed</i>																		
10.3	<i>No further instructions.</i>																		
10.4	The key personnel must meet the required minimum years of experience set below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Key Personnel</u></th> <th style="text-align: center;"><u>General Experience</u></th> <th style="text-align: center;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>															
<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>																	
10.5	The minimum major equipment requirements are the following: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Equipment</u></th> <th style="text-align: center;"><u>Capacity</u></th> <th style="text-align: center;"><u>Number of Units</u></th> </tr> </thead> <tbody> <tr> <td style="height: 20px;"> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>															
<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>																	
12	<i>No further instructions.</i>																		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">LOT</th> <th style="text-align: center;">2% of</th> <th style="text-align: center;">AMOUNT</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">LOT A- Construction of Midshipman's Dormitory Quarters</td> <td style="text-align: center;">P20,000,000.00</td> <td style="text-align: center;">P400,000.00</td> </tr> <tr> <td style="text-align: center;">LOT B- Office Equipment and Other Office Furniture</td> <td style="text-align: center;">P5,000,000.00</td> <td style="text-align: center;">P100,000.00</td> </tr> </tbody> </table> <p style="margin-left: 40px;">if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> b. The amount of not less than <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">LOT</th> <th style="text-align: center;">5% of</th> <th style="text-align: center;">AMOUNT</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">LOT A- Construction of Midshipman's Dormitory Quarters</td> <td style="text-align: center;">P20,000,000.00</td> <td style="text-align: center;">P1,000,000.00</td> </tr> <tr> <td style="text-align: center;">LOT B- Office Equipment and Other Office Furniture</td> <td style="text-align: center;">P5,000,000.00</td> <td style="text-align: center;">P250,000.00</td> </tr> </tbody> </table> <p style="margin-left: 40px;">if bid security is in Surety Bond.</p>	LOT	2% of	AMOUNT	LOT A- Construction of Midshipman's Dormitory Quarters	P20,000,000.00	P400,000.00	LOT B- Office Equipment and Other Office Furniture	P5,000,000.00	P100,000.00	LOT	5% of	AMOUNT	LOT A- Construction of Midshipman's Dormitory Quarters	P20,000,000.00	P1,000,000.00	LOT B- Office Equipment and Other Office Furniture	P5,000,000.00	P250,000.00
LOT	2% of	AMOUNT																	
LOT A- Construction of Midshipman's Dormitory Quarters	P20,000,000.00	P400,000.00																	
LOT B- Office Equipment and Other Office Furniture	P5,000,000.00	P100,000.00																	
LOT	5% of	AMOUNT																	
LOT A- Construction of Midshipman's Dormitory Quarters	P20,000,000.00	P1,000,000.00																	
LOT B- Office Equipment and Other Office Furniture	P5,000,000.00	P250,000.00																	
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.																		
20	<i>Latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS)</i>																		
21	Construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the Department of Labor and Employment, and PERT/CPM or other acceptable tools of project scheduling.																		

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

4.1. 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.

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.

11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

- 15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the SCC.
- 15.2. If the Contractor does not provide the Drawings and/or manuals by the dates stated above, or they do not receive the Procuring Entity’s Representative’s approval, the Procuring Entity’s Representative may withhold the amount stated in the SCC from payments due to the Contractor.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	<i>No further instructions.</i>
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor <i>from receipt of Notice to Proceed</i>
6	Site Inspection Certificate.
7.2	<i>Fifteen (15) Years</i>
10	a. Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>ten (10) days</i> of delivery of the Notice of Award.
11.2	No further instructions.
13	The amount of the advance payment is <i>not more than 15 percent (15%) of the Contract Price.</i>
14	Materials and equipment delivered on the site but not completely put in place shall be included for payment.
15.1	The date by which operating and maintenance manuals are required is <i>[date]</i> . The date by which "as built" drawings are required is <i>[date]</i> .
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is <i>[amount in local currency]</i> .

Section VI. Specifications



Project : **CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS – LOT A**
Location : **PMMA Complex, San Narciso, Zambales**
Owner : **PHILIPPINE MERCHANT MARINE ACADEMY**

TECHNICAL SPECIFICATIONS

GENERAL REQUIREMENTS

This material Specification shall be used with the Drawings, and general specification which will all form part of the contract documents. In case of discrepancy between this specification and the drawings, this specification shall govern. Submit samples to PROJECT ENGINEER for approval prior to implementation.

- Contract shall be Labor and Materials.
- The Procuring Entity shall coordinate with the Contractor to ensure the smooth flow of construction work.

I. SITE WORK

A. WORK INCLUDED

1. Staking out of building, establishment of lines, grades and benchmarks.
2. All excavation work including all necessary shoring, bracing, and drainage of storm water from site.
3. All backfilling, filling and grading, removal of excess material from site.
4. Protection of Property, work and structures, workmen, and other people from damage and injury.

B. LINES, GRADES AND BENCHMARKS

1. Stake out accurately the lines of the building and of the other structures included in the contract, and establish grades therefore, after which secure approval by Architects before any excavation work is commenced.
2. Erect basic batter boards and basic reference marks, at such places where they will not be disturbed during the construction of the foundations.

C. EXCAVATION

1. Structural Excavation - Excavation shall be the depths indicated bearing values. Excavations for footings and foundation carried below require depths shall be filled with concrete, and bottom of such shall be level. All structural excavations shall extend a sufficient distance from the walls and footings to allow for proper erection and dismantling of forms, for installation of service and for inspection. All excavation shall be inspected and approved before pouring any concrete, laying underground services for placing select fill materials.

The contractor shall control the grading in the vicinity of all excavated areas to prevent surface drainage running into excavations. Water which accumulates in excavated areas shall be removed by pumping before fill or concrete is placed therein.

D. FILLING AND BACKFILLING

1. After forms have been removed from footings, piers, foundations, walls, etc. and when concrete work is hard enough to resist pressure resulting from fill, backfilling may then be done. Materials excavated maybe used

for backfilling. All filling shall be placed in layers not exceeding six (6) inches in thickness, each layer being thoroughly compacted and rammed by wetting, tamping, & rolling.

E. PLACING AND COMPACTING FILL

1. Common Fill - shall be approved site - excavated materials free from roots, stumps and other perishable or objectionable matter.
2. Select Fill - shall be placed where indicated and shall consist of crushed gravel, crushed rock, or a combination thereof. The materials shall be free from adobe, vegetable matters and shall be thoroughly tamped after placing.
3. Before placing fill materials, the surface upon which it will be placed shall be cleared of all brush roots, vegetable matter and debris, cleaned and thoroughly wetted to insure good bonding between the ground.

F. DISPOSAL OF SURPLUS MATERIALS

1. Any excess material remaining after completion of the earthwork shall be disposed of by hauling and spreading in nearby spoil areas shall be graded to a uniform surface.

G. DEMOLITION OF BUILDING ELEMENTS

1. Demolition of chb wall;

The demolition, total or in part, of chb wall, by whatever means, including rendered work, of any form, thickness, height or depth of wall, including scaffolding, necessary reinforcing for the consolidation of the structure or surrounding buildings; the reparation of damages caused to third parties for breakage and normal repair in the course of work to service supplies both public and private (drainage, water, light), with the relocation of material within the worksheet, and including the provision of all requirements not specified for the satisfactory completion of the work.

The demolition by whatever means, total or in part of brickwork or pre- cast terracotta, included rendered work or tiled work, of any form, thickness height or depth of wall, including scaffolding, necessary reinforcing for the consolidation of the structure or surrounding buildings; the reparation of damages caused to third parties for breakage and normal repair in the course of work to service supplies both public and private (drainage, water, light, etc.), without allowing for salvage and cleaning of material re-use, but with the relocation of material within the worksite, and including the provision of all requirements not specified for the satisfactory completion of the work.

2. Removal of flooring;

The removal of flooring of whatever type, including the removal of bedding mortar and the location of resulting material within the worksite.

3. Removal of wall tiling;

Removal of wall tiles of whatever type, including the removal of bedding mortar, the cleaning, washing with water under pressure and the location of resulting material within the worksite, and including all requirements to prepare the surface for re-tiling.

4. Removal of windows and doors;

The removal of windows and doors of whatever type, including architrave's, beadings etc, with the storage of materials within the worksite including the eventual selection (to be decided by the Supervisor of Works) and stacking within the worksite in the specified location for re-use.

5. Removal of metal grating/catch basin;

Removal of metal grating/catch basin of whatever type and the relocation within the worksite, including eventual selection (to be decided by the Supervisor of Works) and stacking within work site of said gratings and connections secured free of clogs or debris.

II. PLAIN AND REINFORCED CONCRETE

A. GENERAL

1. Unless otherwise specified herein, concrete work shall conform to the requirements of the ACI Building Code. Full cooperation shall be given other trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, or steel erection embedded items shall have been inspected and tested for concrete aggregates or pedestal anchor bolts and other materials shall have been done.

B. MATERIALS

1. Cement for the concrete shall conform to the requirements of specifications for Portland Cement (ASTM C - 150)

2. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
3. Fine Aggregates shall consist of hard, tough, durable, uncoated particles. The shape of the particles shall be generally rounded or cubicle and reasonably free from flat or elongated particles. The stipulated percentages of fines in the sand shall be obtained either by the processing of natural sand or by the production of a suitably graded manufactured sand.
4. Coarse Aggregate shall consist of gravel, crushed gravel or rock, or a combination of gravel and rock, coarse aggregates shall consist of hard, tough, durable, clean and uncoated particles. The sizes of coarse aggregates to be used in the various parts of the work shall be in accordance with the following:

Size - ¾" for all concreting work.
5. Reinforcing Bars shall conform to the requirements of ASTM standard specifications for Billet Steel Bars for concrete reinforcement (A 615) and to Specification for minimum requirements for the deformed steel bars for concrete reinforcement.

All secondary ties such as stirrups, spirals and inserts shall be of a standard deformed bars. The main reinforcing bars shall be as follows:

fy - 40,000psi for 16mm and below

No. 4 (1/2") 12mm

No. 3 (3/8") 10mm

No. 5 (5/8") 16mm

No. 5 (5/8") 20mm

Respective instructions in accordance to these technical conditions.

Class	Cement	Sand	Gravel
Class "A"	1	2	4
Class "B"	1	3	6
Mortar Mix	1	3	
Plaster Mix	1	2	

6. Class of Concrete - Concrete shall have a 28-day cylinder strength of 3,000 psi, for all concrete work, unless otherwise indicated in the plans.
7. Mixing-concrete - shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates. In the absence of the concrete mixer, manual mixing is allowed provided that water will not be allowed to spill over. It should be done in a contained area preferably a Mixing Board.

D. FORMS

1. General - Forms shall be used wherever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials carving from adjacent, excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss of mortar from the concrete. Forms for exposed surfaces against which backfill is not be placed shall be lined with a form grade Plywood.
2. Cleaning and oiling of Forms - Before placing the concrete, the contact surfaces of the forms shall be cleansed of encrustation of mortar, the grout or other foreign material, and shall be coated with a commercial form of oil that will effectively prevent sticking and will not stain the concrete surfaces.
3. Removal of Forms - Forms shall be removed in a manner which will prevent damage to be concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be performed at once and airing shall be as soon as the surface is sufficiently hard to permit it without further damage. See general and specification for the schedule of removal.

E. PLACING REINFORCEMENT

1. General - Steel reinforcement shall be provided as indicated, together with all necessary wires ties, chairs, spacers, supported and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete.

Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be of sufficient strength to maintain the operation. The supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

F. CONVEYING AND PLACING CONCRETE:

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

G. CURING

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

H. FINISHING

1. Concrete surfaces - shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and present or finished appearance except for minor defects which can be easily be repaired with patching with cement mortar, or can be grounded to a smooth surface to remove all joint marks of the form work.
2. Concrete slabs on Fill - The concrete slabs on fill shall be laid on a prepared foundation consisting of sub-grade and granular fill with thickness equal to the thickness of overlaying slabs as indicated otherwise.

III. MASONRY WORKS

A. MATERIALS

1. Concrete Hollow Blocks shall have a minimum face thickness of 1" (.025). Nominal size shall be 6" x 8" x 16" and 4" x 8" x 16" minimum compressive strength shall be as follows:

Class A - 900 psi

Class B - 750 psi

All units shall be stored for a period of not less than 28 days (including curing period) and shall not be delivered to the job site prior to that time unless the strength equal or exceed those mentioned in these specifications.

2. Wall Reinforcement shall be No. 3 (3/8) or 10mm steel bars.
3. Sand shall be river sand, well screened, clean, hard, sharp, siliceous, free from loam, silt or other impurities, composed of grains or varying sizes within the following limits:

<u>Sieve No.</u>		<u>Percent</u>
9	Passing	100
16	Retained	5
100 97	Retained	

4. Cement shall be standard Portland cement, ASTM C - 150-68 type 1
5. Mortar - Mix Mortar from 3 to 5 minutes in such quantities as needed for immediate use. Retempering will not be permitted if mortar stiffens because of premature setting. Discard such materials as well as those which have not been used within one hour after mixing.

Proportioning: Cement mortar shall be one (1) part Portland cement and two (2) parts sand by volume but not more than one (1) part Portland cement and three (3) parts sand volume.

B. ERECTION

1. All masonry shall be laid plumb, true to line, with level and accurately spaced courses, and with each course breaking joint with the source below. Bond shall be kept plumb throughout; corners and reveals shall be plumb true. Units with greater than 12 percent absorption shall be wet before laying. Work required to be built in with masonry, including anchors, wall plugs and accessories, shall be built in as the erection progresses.
2. Masonry Units - each course shall be solidly bedded in Portland cement mortar. All units shall be damp when laid units shall be showed into place not laid, in a full bed of unfrowned mortar. All horizontal and vertical points shall be completely filled with mortar when and as laid. Each course shall be bonded at corners and intersections. No cell shall be left open in face surfaces. All cells shall filled up with mortar for exterior walls. Units terminating against beam or slab soffits shall be wedge tight with mortar. Do not lay cracked, broken or defaced block.
3. Lintels - shall be of concrete and shall be enforced as shown on the drawings. Lintels shall have a minimum depth of 0.20 (8") and shall extend at least 0.20 (8") on each side of opening.

C. WORKMANSHIP AND INSTALLATION

1. Plastering - Clean and evenly wet surfaces. Apply scratch coat with sufficient force to form good keys. Cross scratch coat upon attaining its initial set; keep damp. Apply brown coat after scratch coat has set at least 24 hours after scratch coat application. Lightly scratch brown coat; keep moist for 2 days. Just before applying coat, wet brown coat again. Float finish coat to true even surface; trowel in manner that will force sand particles down into plaster, with final troweling, leave surfaces barnished smooth, free from rough areas, trowel marks, checks, other blemishes. Keep finish coat moist for at least 2 days; thereafter protect against rapid drying until properly, thoroughly cured.

D. SCAFFOLDING

Provide all scaffolding required for masonry work, including cleaning down on completion and removal.

E. CERAMIC FLOOR TILE INSTALLATION

1. Do not start floor tiling occurring in space requiring both floor and wall tile setting has been completed.
2. Before spreading setting bed, establish border lines center wires in both directions to permit laying pattern with minimum of cut tiles. Lay floors without borders from center line outward. Make adjustment at walls.
3. Clean concrete sub floor and moisten it without soaking. Sprinkle dry cement over surface. Spread setting bed mortar on concrete and tamp to assure good band over the entire area then screed to smooth, level bed. Set average setting bed thickness at 3/4" but never less than 1/2".

F. WALL TILE INSTALLATION

1. Scratch coat for application as foundation coat shall be at most 1/2". While still plastic, deeply score scratch coat or scratch and cross scratch. Protect scratch coat and keep reasonably moist within seasoning period. Use mortar for scratch, float coats, within one hour after mixing. Retempering of partially hardened mortar is not permitted. Set scratch coat shall be cured for at least 2 days before starting tile setting.

2. For float coat use one part Portland cement, one part hydrated lime (optional), 3-1/2 parts sand.
3. Spot scratch coat or plumb coat when there is one with small pieces of tile mortared in place to accurately indicate plate of tile when finished.
4. Each tile shall be buttered with setting mortar, consisting of one (1) part PORTLAND cement, 1/2 to one (1) part lime putty, and 3 to 4 parts sand, tamped in place and brought to a plumb and true surface flush with spot and other tiles. The back of each tile shall be covered with mortar to make the bed full and even.
5. Total thickness of mortar between lath or subwall and tiles including scratch coat, plumb coat and setting bed shall not exceed one (1) inch, same also for setting of floor tiles.

IV. CARPENTRY AND JOINERY WORK

A. MATERIALS

1. QUALITY OF LUMBER

Lumber shall be the approved quality of the respective kinds for the various parts of the work, well-seasoned, thoroughly dry, and free from large, loose, or unsound knots, saps, shakes, and other imperfections impairing its strength, durability or appearance. All finishing lumber to be used shall be completely dried and shall not contain more than 14% moisture. All flooring, tongue and grooved shall be kiln dried.

2. TREATMENT OF THE LUMBER

- a. All concealed lumber shall be sprayed with anti-anay or buk bok liquid.
- b. Surface in contact with masonry and concrete coated with creosote or equivalent.

3. DOOR SASHES

All door sashes shall be well seasoned, flush type, semi-hollow core and solid core, tanguile plywood veneers on both sides. Exterior doors shall be of kiln dried Tanguile panel doors or equivalent.

B. WORKMANSHIP

1. Execute rough carpentry in best, substantial, workmen like manner. Erect framing true to line, levels and dimensions, squared, aligned, plumbed, well-spliced and nailed, and adequately braced, properly fitted using mortise and tenon joists.

2. Millwork - accurately milled to details, clean cut moldings profiles, lines, scrape, sand smooth; mortise, tenon, splice, join, block, nail screw, bolt together, as approved, in manner to allow free play of panels; avoid swelling, shrinkage, ensure work remaining in place without warping, splitting opening or joints. Do not install mill work and case until concrete and masonry work have been cured and will not release moisture harmful to woodwork.
3. Secure work to grounds, otherwise fasten in position to hold correct surfaces, lines and levels. Make finished work flat, plumb, true.

V. ARCHITECTURAL FINISHES SCHEDULE

A. FLOORING

1. Unless otherwise specified, the floor finishes are as follows:
 1. Ground Floor tiles shall be 600mmx600 glazed ceramic tiles color to be specified by Engineer.
 2. Toilets flooring shall be 300 x 300mm Matte finished, Mariwasa Tiles or approve equal. Wall tiles for toilets are 300 x 600mm Glazed finished.
 3. Second Floor shall be plain cement smooth finish (with red cement) color.
 4. Nonskid pebbles floor finish for PWD Ramp.

B. WALLING

1. Unless otherwise specified, all interior partitions shall be of 150mm (6") thk. CHB wall, plastered on both sides.
2. Toilet wall finish shall be of 300x600mm ceramic glazed finish tiles.
3. Exterior finish shall be plain cement textured painted finish color approved by Project Engineer.
4. Verify dimensions of exterior concrete moulding with Project Engineer.

C. CEILINGS

1. All specified interior ceilings for offices shall be fine fissured acoustic ceiling panel (ACP for aircon rooms) on suspended ceiling panel system (CMT).
2. All dormitory quarters and toilet ceilings shall be of 4' x 8' FICEM board 4.5 mm thickness with V-cut spaced as specified by Engineer.
3. All exterior ceilings shall be of 0.40mm thick x 100mm Prepainted Galvanized Iron "Metal Spandrel" on Light metal framing system. Provide perforations at every corner.

D. DOORS

Unless otherwise specified main entrance doors shall be aluminum powder coated swing doors with transom and blue tinted glass 10mm thickness and heavy duty pivot hinges.

All Office doors shall be panel doors using treated Gmelina wood on 50x150mm Steel door jamb double rabbet complete with accessories with 10mm Fixed glass on top painted enamel finish.

All toilet doors shall be solid flush doors with ½"thickness marine plywood both sides. Bring float coast flush with screeds or temporary guide strips placed to give true and even surface at proper distance from the tile finished face.

Setting Wall Tiles immerse wall tile thoroughly in clean water before setting. Set wall tile by trowelling neat Portland cement skim coat on float coat or apply skim coat to back of each tile unit. Immediately float tile in place. Make joints straight, level and perpendicular. Maintain vertical joints plumb.

Grouting Grout joints in wall tile with neat white cement immediately after suitable area of tile has been set. Tool joints slightly concave, cut off excess mortar and wipe from face tile. Roughen interstices of depressions. In mortar joints after grout has been cleaned from surface. Fill to line of cushion tile bases or covers with mortar. Make joints between wall tile, plumbing and other built in fixtures with light colored caulking. Immediately after grout has had its initial set, give tile wall surfaces protective coat of non-corrosive soap.

E. WINDOWS

1. All awning and fixed aluminum windows shall be powder coated white aluminum frame with 6mm clear glass and heavy duty hinges and aluminum screen.
2. All windows to wall termination shall be sealed with white or clear silicone sealant in neat trim line manner.

F. FINISHING HARDWARE

Butt Hinges - unless otherwise approved, Use stainless satin/matte finished, mortise ball bearings type 5 knuckles, non-rising loose pins as manufactured by Stanley or corbin for all interior wood doors.

Use one and one-half pairs (3pcs.) of hinges per leaf of doors more than 1.80 m high, loose pin butt for room doors.

G. LOCKSET

1. Lever type locksets - all interior doors shall be equipped with high grade heavy or standard duty (as required) lever locksets. The mechanism shall be heavy gauge, cold rolled steel contained in sturdy cylindrical housing with all parts zinc plated and dichromated for maximum resistance against rust and corrosion. Exposed parts shall be brass heavily plated as manufactured by schlage, yale or approved equivalent.
2. Keying and Keys - locks shall be keyed in sets and sub sets to provide maximum expansion. All sets shall be grand master keyed, and all entrance locks shall be great master keyed per unit.

H. RIM BOLTS - Rim bolts and keeper shall be chrome finish.

I. DOOR BUMPERS - where wooden doors shall strike an object during opening, provide magnetic door bumpers.

VI. ROOFING AND TINSMITHING WORKS

A. MATERIALS

1. Roof Sheeting - shall be **0.60mm** thick Preformed, Pre-painted GI Color Blue w/ 10mm Double sided Polyethylene foam insulation. Provide Mill certificate from manufacturer to verify specifications of the supplied roofing materials by the Project Engineer.
3. Ridgerolls and flashings - shall be of 0.60mm plain G.I. sheets, configuration as approved.
4. Downspout - shall be 75mm \varnothing PVC pipe series 1000 or approved equivalent/ brass wire baskets.
5. Concrete Gutters -Concrete slab should have a slope of 20mm/meter Towards gutter drain, concrete slab shall be waterproofed with "Thoroseal or Plexibond " or any approved equal, applied in 3 alternating layers. Prior to application the concrete slab shall be cleaned of loose concrete or any debris effecting said procedure.

VII. PLUMBING WORKS

A. GENERAL

1. All work shall be done under the direct supervision of a licensed plumber and in strict accordance with these specifications and of the methods as prescribed by the National Plumbing Code of the Philippines.

B. MATERIALS

1. PVC Series 1000 150mm Ø for sewer and cement drainage pipes T and G ASTM C - 14 and ASTM - 75 respectively.
2. PVC Series 1000, 100mmØ, for sewer pipes and fittings for soil and waste pipes, 50mm Ø for vent pipes.
3. PVC Solvent or epoxy mix A and B.
4. PPR gate valves – RPPPC-GV 20/25/32mmØ.
5. PPR pipes PN20 and fittings (20mm,25mm,32mm&40mm) for waterline.
6. Water Closet with Bidet - Pozzi/HCG/ brand or approved equal All toilets shall be of Vitreous china, with US made stainless flexible hose and angle valves. White in color.
7. Lavatories - Pozzi/HCG over counter type vitreous China, complete with all chrome finish fittings and accessories.
8. Soap and Tissue holders - Vitreous China
9. Drains - Floor drains shall be high grade strong, tough and even-grained metals with adjustable screwed cover nickel plated.

C. ALTERNATIVE MATERIALS:

1. Alternate material allowed, provided such alternate is approved by Project Engineer such as CISP or self-sealing PVC pipes for sewer and drainage pipes.
2. Each length of pipe, fitting, trap, fixture, and device used in plumbing system shall have cast, stamped, or indelibly marked on it, manufacturer's trademark or name weight, type and classes or product when so required.

D. INSTALLATION

1. Install plumbing fixtures free and open to afford easy access for cleaning.
2. Install plumbing fixtures as indicated on drawings, furnishings all brackets, cleats, plates and anchors required to support fixtures rigidly in place.
3. Install all fixtures and accessories in locations directed in accordance with manufacturer's instructions, minimizing pipe fittings.
4. Protect items with approval means to maintain perfect conditions. Remove work damaged or defective and replace with perfect work without extra cost.
5. All G.I. soil and drainage pipes shall have a minimum slope of 1%.
6. Vertical pipes shall be secured strongly by hooks to building framing. Provide suitable bracket or chairs at the floors from which they start.

Where an end or circuit vent pipe from any fixtures or line of fixtures is connected to a vent line serving other fixtures, connection shall be at least four (4) feet 1.20 M above floor on which fixtures are located, to prevent use of any vent line as a waste.

Horizontal pipes shall be supported by well secured u-bolt hangers.

7. Connection of water closets to soil pipes shall be made by means of flanged Plates and asbestos packing without use of rubber putty or cement.
8. Waterline shall be of PPR pipes DIN 8077 for PPR dimensions; DIN 8078 for PPR General Quality Requirements & Testing.

International Standard ISO / DIS 15874.0 ; all pipes from main source to fixture/tap shall use PN 20/25 PPR pipes and all accessories: all connections fusion weld and tested.

VIII. ELECTRICAL WORKS

A. SCOPE OF WORK

1. The work consist of furnishing of all materials and labor, tolls and equipment and all necessary services to complete the electrical work ready for operation as shown in the drawings and specified as follows:

- a. Supply of wiring devices receptacles, outlets, switches, etc. complete with suitable cover plates as per specifications.
- b. Installation of all materials such as lightings fixtures and electrical control.
- c. Grounding system as per EE Code requirements

B. CODES AND REGULATIONS

The Electrical work shall be done in accordance with all the requirements of the latest issue Philippine Electrical Code, with rules and regulations and Ordinance of the local enforcing authorities of Baguio City and the Requirements of the Local Power Company.

C. DRAWINGS AND SPECIFICATIONS

1. All installation shall be done in a work-manlike manner and shall include all necessary works that may not be clearly indicated in the plans or schematic but necessary to attain the purpose or intent of the design scheme.
2. The plan indicate the general layout of the system and the location of outlets are diagrammatic, and may be adjusted as required by the Architect before installation.
3. The contractor shall record all accomplishments as work progresses in a set of records plan. Three(3) sets of as built drawings shall be duly signed and sealed by the supervisor-in-charge of construction shall be submitted for the owners and Architect's references and maintenance purposes.

D. MATERIALS AND WORKMANSHIP

All materials to be supplied shall be new and of high quality suitable for the location and purposes. Materials shall be standard products of reputable manufacturers.

E. TECHNICAL SPECIFICATIONS

1. Power service:
230 volts, 3- phase, 3- wire ; 1- neutral 60 hertz.

2. Receptacles, switches, Outlets:
 - a. Provide as indicated in drawings, the switches and receptacles with proper cover plates. Switches shall be of quiet-matic tape, "NATIONAL" or Schneider approved equal.
 - b. Receptacles shall be duplex with proper cover plates, rated 10 amp. min. 250 V.A.C., "NATIONAL" or approved equal.
 - c. Lighting outlet at ceiling shall be provided with 4" octagonal box ga. 18 min. Connections from fixtures to boxes be made by using THHN wire CHB in rigid electrical PVC conduit
3. Light Fixtures
 - a. All lighting fixtures shall be furnished by and installed by the Contractor. Detail of fixture design when not standard shall be shown in the Architectural Drawings.
 - b. All fixtures if any shall be complete set with LED bulbs & T8 LED lamps, Philips/ G.E. approved equal.
4. Wires and Cables:
 - a. Wires shall be THHN rated, by Phelps Dodge, Duraflex, Far East Wires or approved equivalent.
 - b. No wires shall be drawn into a raceway until it is complete with all necessary fittings, boxes supports. Connections shall be securely fastened such as not to loosen under vibration and normal strain. All connections, splices shall be made with approved methods.

IX. PAINTING WORK

A. SCOPE OF WORK

1. Consists of furnishing all items, articles, materials tools, equipment, labor scaffoldings, ladders, methods and other incidentals necessary and required for the satisfactory completion of the work.
2. It covers complete painting and finishing of wood, plasters, concrete, metal or other surfaces exterior or interior of building.

B. GENERAL PAINTING AND SURFACE FINISHING

General Painting and Surface Finishing - shall be interpreted to mean and include sealers, primers, fillers, intermediate and finish coats, emulsions, varnish, shellac, stain or enamels.

1. All paint and accessory materials incorporated in or forming a part thereof shall be subject to the prior approval and selection for color, tint, finish or shade by the Architect.
2. In connection with the Architect's determination with color or tint of any particular surface, the depth of any color or tint selected or required shall in no instance be a subject for an additional cost to the owner.
3. Painting of all surfaces, except as otherwise specified shall be three (3) coat work, one primer and a finish coat.

C. MATERIALS

1. All paint materials shall meet the requirements of paint materials under classification class "A" as prepared by the institute of Science, Manila, use "BOYSEN" Paints or "DAVIES" Paints.
2. All paint shall be recommended by the manufacturer for the use intended and shall be delivered to the jobsite in original containers with seals unbroken and labels intact.
3. Painting materials such as Linseed oil, turpentine, thinners, shellac, lacquer, etc. shall pure and of the highest quality obtainable and shall bear the manufacturer's label on each container or package.
4. Except for ready mixed materials in original containers, all mixing shall be done in the job site. No materials are to be reduced, changed or mixed except as specified by manufacture of said materials.
5. Storage and Protection

The resident Architect shall designate a place for the storage of paint materials whenever it may be necessary to change this designated storage place, the contractor shall promptly move to the new location. The storage space shall be adequate protected from damage and paint. Paint shall be covered at all times and safeguards taken to prevent fire.

D. PROCEDURE

1. All surfaces to be painted shall be examined carefully before beginning any work and see that all work are installed in workmanlike condition to receive paint, stain or particular finish.
2. Before proceeding with any painting or furnishing, thoroughly clean, sand and seal if necessary by removing from all surfaces all dust, dirt, grease, or other foreign substances which would affect either the satisfactory execution or permanency of the work. Such cleaning of shall be done after the general cleaning executed under the separate division of the work.
3. No work shall be done under conditions that are suitable for the production of road results, nor at any time when plastering is in progress or is being cured, or not dry.
4. Only skilled painters shall be employed in the work. All workmanship shall be executed in accordance with the best acceptable practices.
5. Finish hardware, lighting fixtures, plates and other similar items shall be removed by reposition upon completion of each space.
6. Neither paint nor any other finish treatment shall be applied over wet or damp surfaces. Allow at least two (2) days from drying preceding coat before applying succeeding coat.
7. Begin work only when resident Architect has inspected and approved prepared surface otherwise no credit for coat applied shall be given. The contractor shall assume responsibility to recoat work in question. Notify Architect when particular coat applied is complete, ready for inspection and approval.

E. PREPARATION OF SURFACES

1. For bricks, concrete, cement or concrete blocks; cut out scratches, cracks abrasion in plaster surfaces, openings and adjoining trims as required. Fill flush adjoining plaster surface. When dry; and smooth and seal before priming coat application.
2. Tint plaster priming coat to approximate shade of final coat. Touch up sanction spots in plaster or cement after first coat application, before applying second coat, to produce even resulting finish coat. Secure color schedules for rooms before priming walls.
3. In cases of presence of high alkali conditions, neutralize surfaces by washing with zinc sulphate solution (3 pounds to a gallon of water). Allow to dry thoroughly, brush free of crystals before priming.

4. Prime of mixture of equal parts by volume of L & S Portland cement paint and 5244 improved Alkali proof seal or its equivalent as may be approved by the Architect.
5. Brush one or more finish coats of L & S thinned if necessary with minerals spirits or turpentine.

F. WOODWORK TO BE PAINTED

1. Touch up knots, streaks, sappy spots with shellac.
2. Do necessary puttying of nail holes, cracks etc. after first coat with putty of color to match that of finish. Bring putty with adjoining surface in neat, workmanlike manner.
3. Wipe paste wood fillers, applied in open grain wood, when "set", across wood grain. Then with grain to secure clean surface.
4. Cover surfaces to be stained with uniform stain coat.
5. Tiny undercoats of paint and enamel to same or approximate cost shade.
6. Sand smoothly woodwork to be finished with enamel or varnish, clean surface before proceeding with first coat application. Use fine sand paper between coats on enamel or varnish finish applied to wood to produce even smooth finish.

X. OTHER FINISHES

A. SCOPE OF WORK

It consists of furnishing all items, articles, materials, tools, equipment, labor, scaffoldings, ladders, methods and other incidentals necessary and required for the satisfactory completion of the work.

B. Air Conditioning System

Supply and installation of 5 units 2.0Hp Wall Mounted Split Type Aircondition Unit-Inverter including all necessary materials for the equipment to operate. Location of ACU as shown of plans.

C. Fire Alarm System

Supply and installation of conventional fire alarm system, Control panel 4 zones photoelectric Smoke detector low profile type 24V DC with mounting base. Includes manual station call point flush type 24V DC and fire alarm bell, motorized 24V DC/6" dia.90Db installed with T.F. wire twisted pair cable #18 and other mounting accessories.

D. Pantry Cabinet

Supply and installation of pantry cabinet. Marine Plywood doors epoxy primed, wood accent (Mahogany Finish) with anzhah urethane top coat and complete Stainless steel handles and other accessories.

E. Reinforced Concrete Sculpture

Supply and installation of two sets of PMMA sword saluting cadet sculpture using reinforced concrete materials painted finish resembling PMMA cadet on white gala uniform.

Project : CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS – LOT B
Location : PMMA Complex, San Narciso, Zambales
Owner : PHILIPPINE MERCHANT MARINE ACADEMY

TECHNICAL SPECIFICATIONS

GENERAL REQUIREMENTS

This material and equipment specification shall be used and will all form be part of the contract documents. Submit samples to PROJECT ENGINEER and END USER for approval prior to implementation.

- Contract shall be supply and delivery of equipment and office furniture.

I. ITEM DESCRIPTION, QUANTITY AND SPECIFICATION:

A. 75" Smart UHD Television - 2 units



Display:

- Display diagonal: 190.50cm (75")
- HD Type: 4k Ultra HD
- Display Technology: QLED
- Screen Shape: Flat
- Native aspect ratio: 16:9
- Motion interpolation technology: PQI(Picture quality Index) 3800
- Display Resolution: 3840 x 2160 pixels
- Peak luminance ratio: 81%

TV Tuner:

- Tuner type: Analog & Digital
- Digital signal format system: DVB-C, DVB-S2, DVB-T
- Number of tuners: 2 tuner(s)
- Auto channel search: Yes

Smart TV:

- Smart TV: Yes
- Internet TV: Yes
- Operating system installed: Tizen
- Timeshift: Yes
- Hybrid Broadcast Broadband TV (HbbTV): Yes
- Hybrid Broadcast Broadband TV (HbbTV) version: Yes
- Video apps: Disney+, Netflix

Audio:

- Number of speakers: 2
- RMS rated power: 40 W
- Audio decoding technologies, Dolby digital plus
- Auto volume leveler: Yes

Network:

- Wi-Fi: Yes
- Ethernet LAN: Yes
- Wi-Fi Direct: Yes
- Bluetooth: Yes
- Bluetooth version: 4.2
- Web browser: Yes

Design:

- VESA mounting: Yes
- Rollable display: No

Performance:

- High Dynamic Range (HDR) supported: Yes
- High Dynamic Range (HDR) technology: High Dynamic Range 10+ (HDR10 Plus)
- Teletext function: Yes
- Subtitles function: Yes
- Ambient light sensor: Yes
- Local dimming : Yes
- Digital Clean View : Yes
- AMD FreeSync : Yes
- 4K Ultra HD upscaling: Yes
- MBR support : Yes
- USB recording : Yes
- ConnectShare (HDD) : Yes
- ConnectShare (USB) : Yes

Ports and Interfaces:

- HDMI Quick Switch: Yes
- Audio Return Channel (ARC): Yes
- Ethernet LAN(RJ-45)ports: 1
- USC 2.0 ports quantity: 2
- Digital Audio Optical out: 1
- Common Interface (CI): Yes
- Common Interface Plus(CI+): Yes
- Common Interface Plus(CI+)version 1.4
- HDMI ports quantity: 4
- Consumer Electronics Control (CEC): Anynet+

Management Features:

- Voice Control: Yes
- Electronic Program Guide (EPG): Yes
- On Screen Display (OSD): Yes
- Number of OSD languages: 27
- Picture-in-Picture: Yes
- ECO Mode: Yes
- Auto power off: Yes
- Works with Amazon Alexa: Yes
- Works with Google Assistant: Yes
- Works with Samsung Bixby: Yes

Power:

- Energy efficiency Class: A
- Annual energy consumption: 279kWh
- Power Consumption (typical): 201W
- Power Consumption (standby): 0.5W
- Power Consumption (PowerSave): 75.3W
- Power Consumption (Max): 345W
- AC input voltage: 220-240v
- AC input frequency: 50/60 Hz
- Energy Saving Mode: Yes
- Energy Efficiency scale: A+++ to D

Weight and Dimension:

- Width: 1670.6mm
- Depth: 53.9mm
- Height: 958.7mm
- Width (with stand): 1670.6 mm
- Depth (with stand): 316.8mm
- Weight: 34.4kg
- Height (with stand): 1036.2mm
- Weight with stand: 40.3kg

Packaging data:

- Desktop stand: Yes
- Cables included: AC
- Handheld remote control: Yes
- Remote control type: TM2050C
- Smart Remote included: Yes
- E-manual: Yes
- Package width: 1931 mm
- Package Height: 1115 mm
- Package weight: 52 kg
- Package type: Box

B. 7 cu.ft Refrigerator (Two Door), Inverter-

1 unit



- 7cuft Basic Top Mount No Frost Inverter Ref
- Multi flow cooling system
- Adaptive defrost control
- Tempered glass shelves
- Moist fresh zone
- Deodorizing filter
- Led interior lighting
- Twist ice maker
- Metal graphite finish
- Dimension (HxWxD) 1445x555x637 mm
- Warranty: 10 Years Compressor, 1 Years Parts & Labor

C. Office Tables w/ Chair

-

6 sets



- **Office tables:** *Freestanding Table MDF Laminated Finish*
 - Dimension: 1.20mW x 600mmD x 750mmH
 - Material: Steel with Powder Coating
 - Color: Beige

- **Movable steel drawers**
 - Mobile Pedestal with 3 Drawers including 1 Central Lock, 1 Pen Tray, 1 File Divider and 5 Castors
 - Material: Steel with Powder Coating
 - Actual Dimensions: 40 (w) x 56.5 (d) x 65.5 (h) cm
 - Color: Beige

- **Office Chair : Messchair with swivel safely gas lift.**
 - Thick Ergodynamic Mesh Chair 360° Swivel Function Office Chair
 - Black textillen mesh
 - Maximum weight capacity: 100kg
 - Tilt-Lock Mechanism
 - 300mm Chromed Steel Base and PP Casters
 - Pneumatic height adjustment
 - 360 degrees swivel function
 - Ergonomic and dynamic which will provide comfort and durability

D. EXECUTIVE CHAIR

-

13 sets



Executive Chair:

- Wider and ergonomic high back office chair: Executive chair with deep and wide seat, designed for big and tall heavy people. Ultra-high and S-shape backrest offers an excellent lumbar and back support, thicken cushion with waterfall seat edge lessens pressure of your leg, ergonomic curved armrest make you feel relax. Heavy duty office chair combines comfort with modern style.
- Equipped with SGS class-3 gas lift and heavy duty metal base provide high security and strong support to keep fixed height. Max weight capacity 400 lbs. Office chair can be used for long time with stable and sturdy structure and helps you working more efficiently.
- Adjustable from 18.5" to 22.6" to meet people and computer desk. Pull lever outward function to adjust tilt. Tilt-tension knob underneath the seat to adjust the flexibility of rocking back which can be adjusted from 90 to 120 degrees.
- Soft PU Leather upholstery and thick cushion with high density sponge. Heavy duty metal base and ultra-quiet and anti-scratch 360 degrees swivel rolling casters for stability and mobility.

E. EXECUTIVE TABLE

-

13 sets



- Heavy Duty Executive Table with Lockable Drawers
- MDF High pressure Laminated Finish
- Dimension: 1.20m Width x 600mm Depth x 750mm Height
- Color : Wengue (Wood accent finish)

F. CONFERENCE TABLE WITH 14 CHAIRS

-

1 set



- **Conference Table – 1 unit**

- MDF High pressure Laminated Finish to protect the surface from scratch and stains
- Dimension: 1200mm Width x 3600mm Length x 750mm Height
- Top : 25 mm thick table top
- Color : Walnut (Wood accent finish)

- **Conference Chairs – 14 units**

- High back chairs and wide seat w/ armrest.
- Leatherette seat and back, thicken cushion
- PVC Armrest, ergonomic curved design
- Gas lift, lever for adjustment functions
- 360degrees swivel rolling caster wheel and heavy duty metal base
- Color : Black

G. ACCENT TABLE

-

4 set



- MDF High pressure Laminated Finish
- Dimension: 1.10m length x 550mm Width x 550mm Height
- Color : Walnut - Black

H. CONSOLE TABLE

-

1 set



- Top : Malaysian Solid Wood
- Dimension: 1.20m length x 400mm Width x 750mm Height
- Black Iron Metal Legs painted finish
- Color : Walnut – Black

I. DINING TABLE with 4 SEAT(CHAIR)

-

2 sets



Specification: Dining Table w/ 4 seat (chair)

- 2 units - Solid Mahogany Table
- Wood stained Finish
- Dimension for Table : 1.80m Length x 900mm Width x 750mm Height

- 8 units - Solid Mahogany Wood Chairs
- Cushioned using Uratex foam, Black leatherette cover
- Dimension for Chairs : L360xW420xH870xSH650

- Color : Walnut – Black

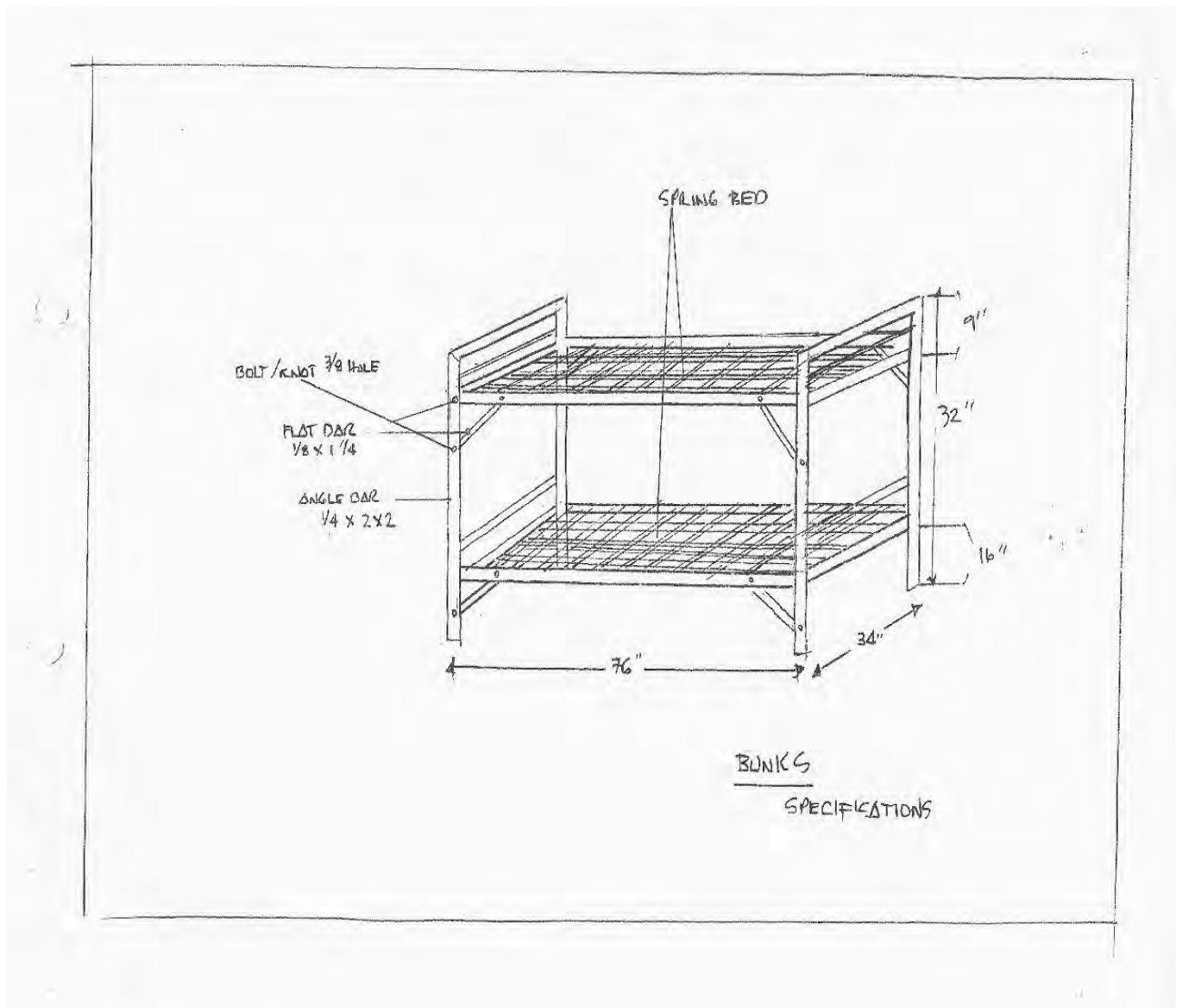
J. BUNK BEDS and MATTRESS FOAM w/ THIN COVER

-36 sets

Specification for Bunks

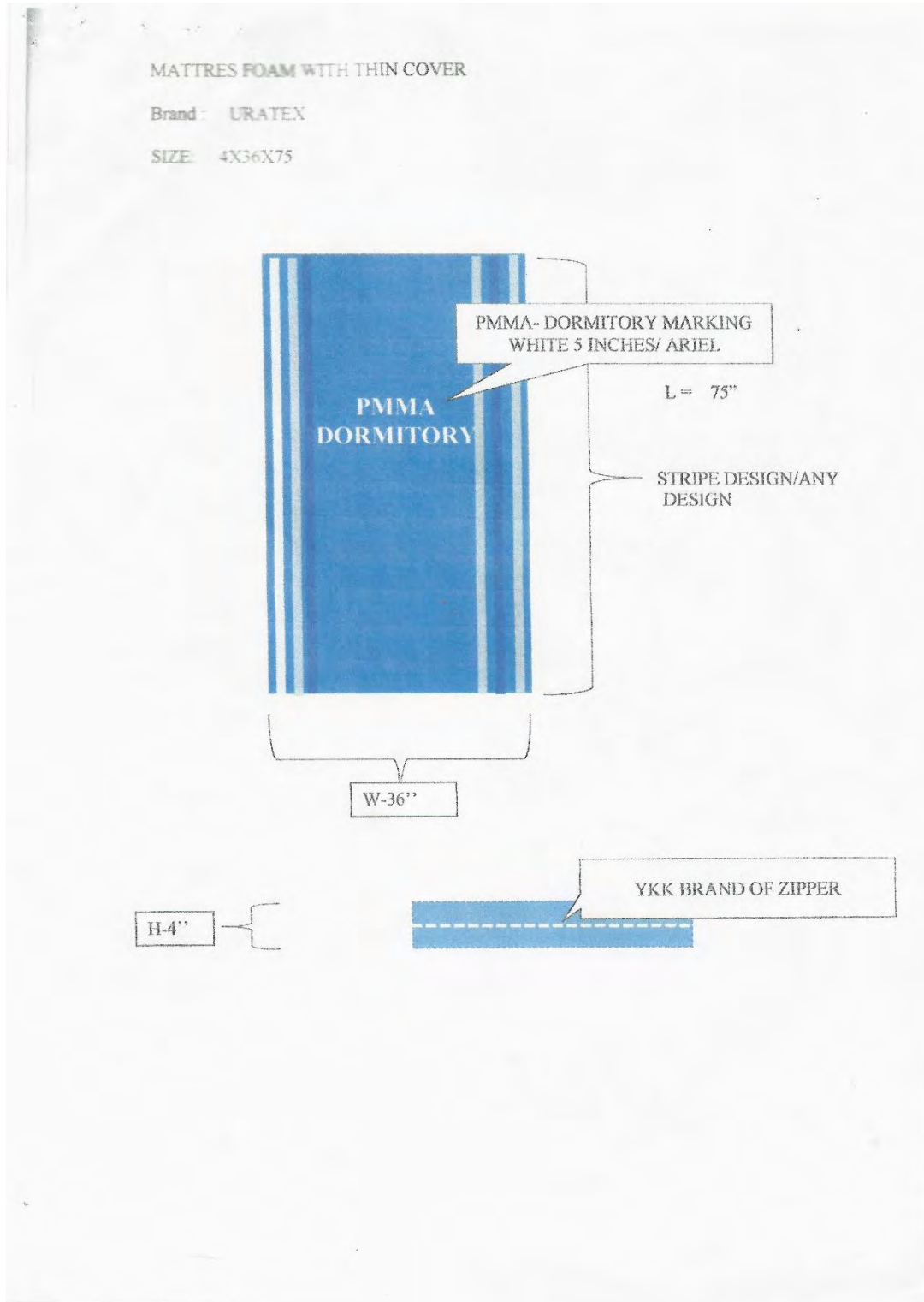
- Spring Bed
- Dimension : Length x Width x Height = 76" x 34" x 32"
- Bolt/Knot : 3/8 Hole
- Flat Bar : 1/8 x 1 1/4
- Angle Bar: 1/4 x 2 x 2

Detailed Drawing and Specification of Bunks:



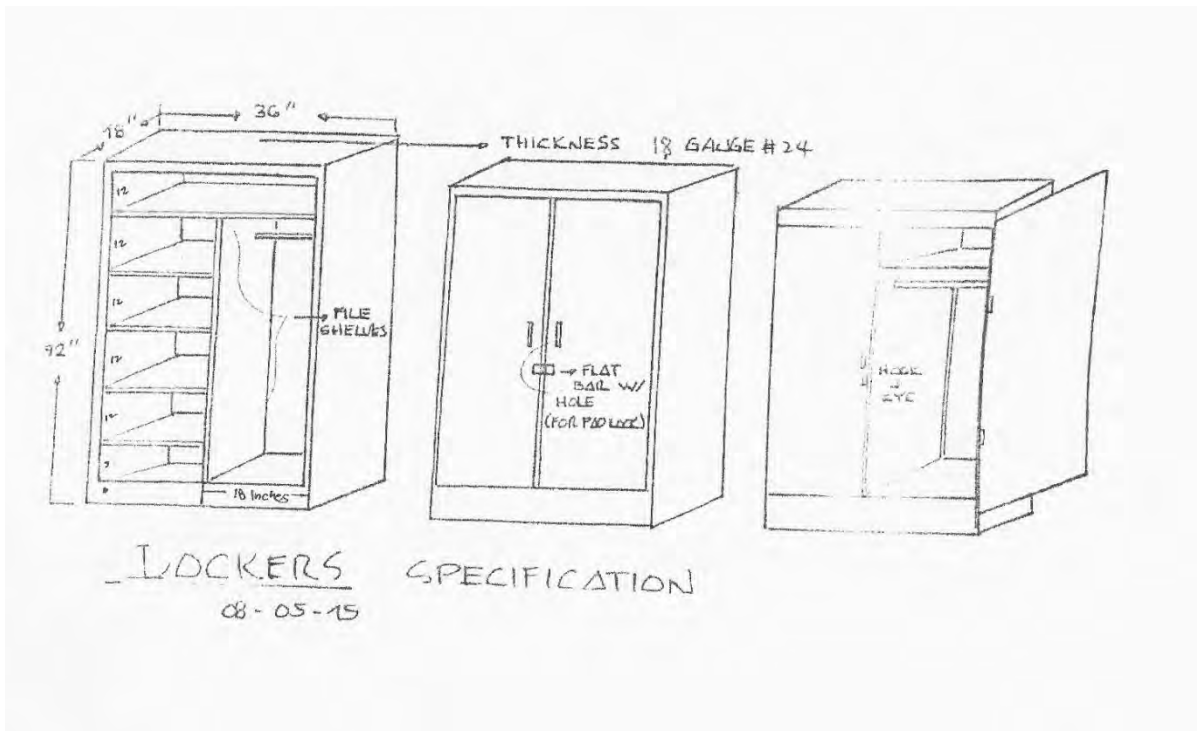
Specification for Mattress Foam w/ Thin Cover

- Size : 4" x36" x75"
- Brand: Uratex
- Cover Zipper Brand : YKK
- Cover Design : See Details below



K. CADET LOCKERS

- 36 units



- Inner Portion: Upper compartment lower left with 5 open compartments and hanger rod on right open cabinet.
- Outside Portion : 2 wing doors with handle bar(No lock keys on handle)
- With Lock knot below handle bar (padlock should be included)
- Material : GI Metal Gauge #22
- Color : Light gray powder coated paint
- Dimensions : 72" H x 36" W x 18" D

L. 18 DOOR LOCKERS

- 15 units



- 18door - 6 layer Cabinet
- Dimension : 92 cm L x 42cm W x 186xcm H
- Measurement per Door : 29cm x 27 cm
- With lock/key on every door
- Material : GI Metal gauge#22
- Color : Light gray powder coated paint

M. VERTICAL FILING CABINET (4 Drawers)

- 8 units



- 4 Drawers
- Material : Steel Metal gauge#24
- Color : Light gray powder coated paint
- Dimension : 458mmL x 620mmW x 1380mmH
- Easy glides drawers with precision ball-bearing suspension
- With central lock

N. CEILING FAN

- 26 units



- " metal blade ceiling rotary fan
- 20" Grille diameter
- High performance motor, 90 watts power
- 3-speed remote switch
- 65 m³ per minute air delivery
- With thermal fuse protection

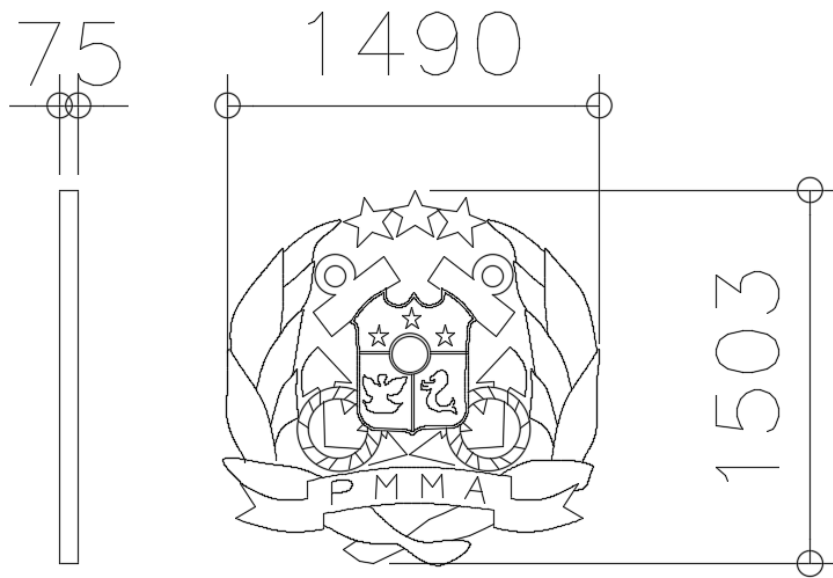
II. PMMA INSIGNIA

Supply and installation of PMMA Insignia. Materials will be Ga.22 Stainless steel (SS-304) for face at 1.50mts height and build up sidings at 75mm thick. Stainless steel rods (12mm dia.) weld connected to the dowels on walls and face of Insignia. Install weatherproof electrical lighting backdrop.

Provide all necessary equipment and materials for the installation of the SS Insignia including cleaning and removal of scaffold after completion of installation.



Dimension Shown are in millimeters (mm)



Section VII. Drawings



Republic of the Philippines
Philippine Merchant Marine Academy
San Narciso, Zambales

Project Title:

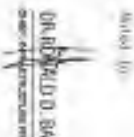
CONSTRUCTION OF MIDSHIPMAN'S DORMITORY QUARTERS

Prepared by:

ENGR. LESTER PAULUS-AYUNG
PROFESSIONAL ENGINEER - MECHANICAL

Reviewed by:

C/E ALEXANDER TABORIO
SALVADORAN ENGINEER - ELECTRICAL

Checked by:

ENR. DANILLO D. BARRIO
SALVADORAN ENGINEER - MECHANICAL

Recommending Approval:

ENGR. RODRIGUEZ BASCO MSc., PEDD-CAC
PROFESSIONAL ENGINEER - MECHANICAL

Approved by:

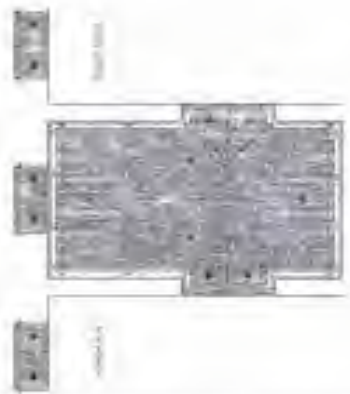
DANILLO A. PERALTA
SALVADORAN ENGINEER - MECHANICAL



11 PERSPECTIVE
Scale: NTS



12 VICINITY MAP
Scale: NTS



2 SITE DEVELOPMENT PLAN
Scale: NTS

ELECTRICAL

S-1	INSTALL SERVICE WIRE
S-2	INSTALL SERVICE PANEL
S-3	INSTALL SERVICE WIRE
S-4	INSTALL SERVICE WIRE
S-5	INSTALL SERVICE WIRE
S-6	INSTALL SERVICE WIRE
S-7	INSTALL SERVICE WIRE
S-8	INSTALL SERVICE WIRE
S-9	INSTALL SERVICE WIRE
S-10	INSTALL SERVICE WIRE
S-11	INSTALL SERVICE WIRE
S-12	INSTALL SERVICE WIRE
S-13	INSTALL SERVICE WIRE
S-14	INSTALL SERVICE WIRE
S-15	INSTALL SERVICE WIRE
S-16	INSTALL SERVICE WIRE
S-17	INSTALL SERVICE WIRE

TABLE OF CONTENTS

NO.	DESCRIPTION	SCALE	DATE
ARCHITECTURAL			
A-1	PROSPECTIVE		
A-2	2D ARCHITECTURE PLAN		
A-3	3D ARCHITECTURE PLAN		
A-4	PROSPECTIVE		
A-5	PROSPECTIVE		
A-6	PROSPECTIVE		
A-7	PROSPECTIVE		
A-8	PROSPECTIVE		
A-9	PROSPECTIVE		
A-10	PROSPECTIVE		
A-11	PROSPECTIVE		
A-12	PROSPECTIVE		
A-13	PROSPECTIVE		
A-14	PROSPECTIVE		
A-15	PROSPECTIVE		
A-16	PROSPECTIVE		
A-17	PROSPECTIVE		
A-18	PROSPECTIVE		
A-19	PROSPECTIVE		
A-20	PROSPECTIVE		
A-21	PROSPECTIVE		
A-22	PROSPECTIVE		
A-23	PROSPECTIVE		
A-24	PROSPECTIVE		
A-25	PROSPECTIVE		
A-26	PROSPECTIVE		
A-27	PROSPECTIVE		
A-28	PROSPECTIVE		
A-29	PROSPECTIVE		
A-30	PROSPECTIVE		
A-31	PROSPECTIVE		
A-32	PROSPECTIVE		
A-33	PROSPECTIVE		
A-34	PROSPECTIVE		
A-35	PROSPECTIVE		
A-36	PROSPECTIVE		
A-37	PROSPECTIVE		
A-38	PROSPECTIVE		
A-39	PROSPECTIVE		
A-40	PROSPECTIVE		
A-41	PROSPECTIVE		
A-42	PROSPECTIVE		
A-43	PROSPECTIVE		
A-44	PROSPECTIVE		
A-45	PROSPECTIVE		
A-46	PROSPECTIVE		
A-47	PROSPECTIVE		
A-48	PROSPECTIVE		
A-49	PROSPECTIVE		
A-50	PROSPECTIVE		
A-51	PROSPECTIVE		
A-52	PROSPECTIVE		
A-53	PROSPECTIVE		
A-54	PROSPECTIVE		
A-55	PROSPECTIVE		
A-56	PROSPECTIVE		
A-57	PROSPECTIVE		
A-58	PROSPECTIVE		
A-59	PROSPECTIVE		
A-60	PROSPECTIVE		
A-61	PROSPECTIVE		
A-62	PROSPECTIVE		
A-63	PROSPECTIVE		
A-64	PROSPECTIVE		
A-65	PROSPECTIVE		
A-66	PROSPECTIVE		
A-67	PROSPECTIVE		
A-68	PROSPECTIVE		
A-69	PROSPECTIVE		
A-70	PROSPECTIVE		
A-71	PROSPECTIVE		
A-72	PROSPECTIVE		
A-73	PROSPECTIVE		
A-74	PROSPECTIVE		
A-75	PROSPECTIVE		
A-76	PROSPECTIVE		
A-77	PROSPECTIVE		
A-78	PROSPECTIVE		
A-79	PROSPECTIVE		
A-80	PROSPECTIVE		
A-81	PROSPECTIVE		
A-82	PROSPECTIVE		
A-83	PROSPECTIVE		
A-84	PROSPECTIVE		
A-85	PROSPECTIVE		
A-86	PROSPECTIVE		
A-87	PROSPECTIVE		
A-88	PROSPECTIVE		
A-89	PROSPECTIVE		
A-90	PROSPECTIVE		
A-91	PROSPECTIVE		
A-92	PROSPECTIVE		
A-93	PROSPECTIVE		
A-94	PROSPECTIVE		
A-95	PROSPECTIVE		
A-96	PROSPECTIVE		
A-97	PROSPECTIVE		
A-98	PROSPECTIVE		
A-99	PROSPECTIVE		
A-100	PROSPECTIVE		

PHILIPPINE MERCHANT MARINE ACADEMY

DESIGNED BY: [Signature]

DATE: [Date]

SCALE: [Scale]

PROJECT NO: [Project No]

CLIENT: [Client Name]

LOCATION: [Location]

DATE: [Date]

SCALE: [Scale]

PROJECT NO: [Project No]

CLIENT: [Client Name]

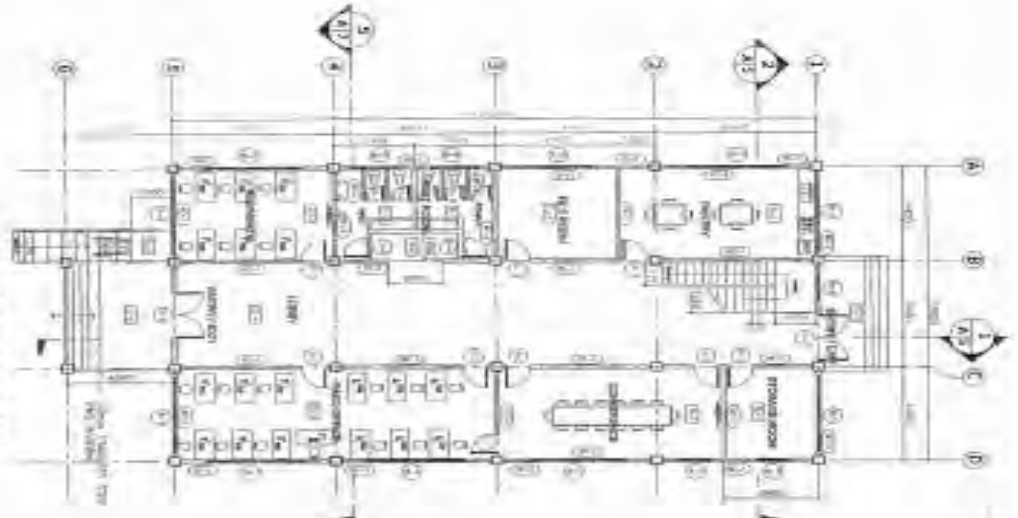
LOCATION: [Location]

DATE: [Date]

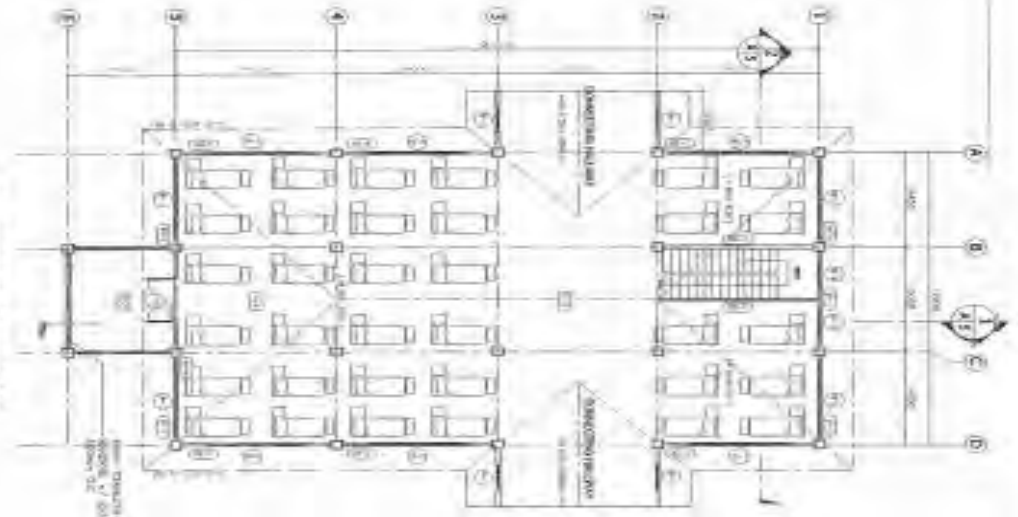
PHILIPPINE MERCHANT MARINE ACADEMY

DESIGNED BY 	DESIGNED BY 	DESIGNED BY 	DESIGNED BY 	DESIGNED BY 	DESIGNED BY 	DESIGNED BY 
DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019
PROJECT NO. 1111	PROJECT NO. 1111	PROJECT NO. 1111	PROJECT NO. 1111	PROJECT NO. 1111	PROJECT NO. 1111	PROJECT NO. 1111
CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY	CLIENT: PHILIPPINE MERCHANT MARINE ACADEMY
DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019	DATE: 11/11/2019

1 GROUND FLOOR PLAN
Scale: 1/100

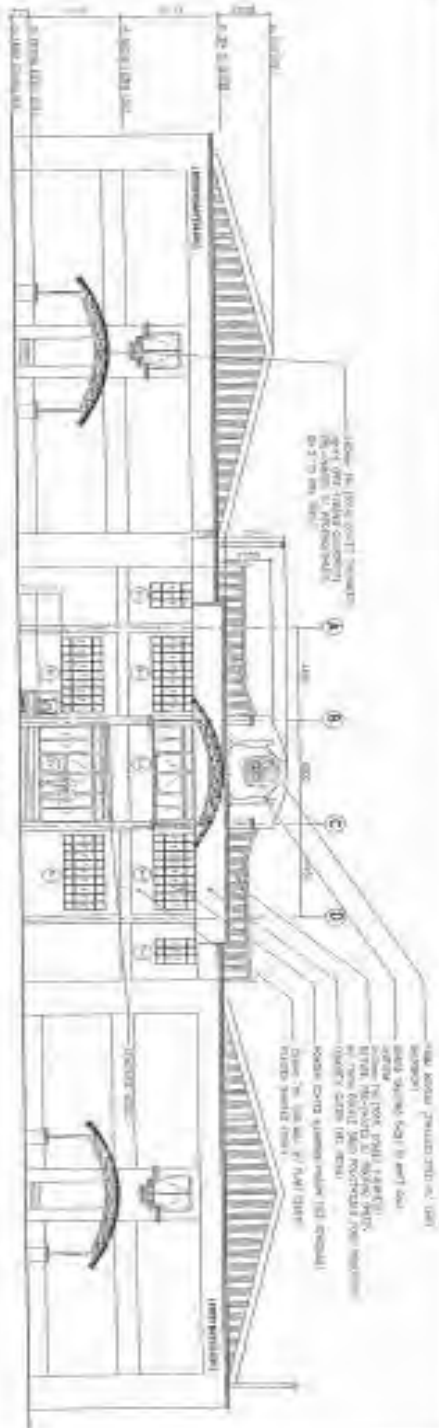


2 SECOND FLOOR PLAN
Scale: 1/100



SPECIFIED FINISHES	
CEILING	Acoustic ceiling tiles
FLOOR	Polished concrete floor
WALLS	Painted concrete block walls
DOORS	Wood door with metal reinforcement
WINDOWS	Aluminum window frames with double glazing
STAIRS	Concrete stairs with metal nosing
ELEVATORS	Stainless steel elevator doors
ROOF	Asphalt/Flt waterproofing
MECHANICAL	Painted metal ductwork
ELECTRICAL	Painted metal conduit
PLUMBING	Painted metal pipe
MECHANICAL	Painted metal ductwork
ELECTRICAL	Painted metal conduit
PLUMBING	Painted metal pipe

NOTE: VERIFY DIMENSIONS ON SITE



1 FRONT ELEVATION
Scale 1/8"



1 REAR ELEVATION
Scale 1/8"

NOTE: VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY



Prepared by: *[Signature]*
Checked by: *[Signature]*
Approved by: *[Signature]*

Project No. *[Signature]*
Scale *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

Project Title: *[Signature]*
Location: *[Signature]*

**PHILIPPINE MERCHANT
MARINE ACADEMY**



Prepared by
[Signature]
Checked by
[Signature]
Approved by
[Signature]

Checked by
[Signature]
Approved by
[Signature]

Checked by
[Signature]
Approved by
[Signature]

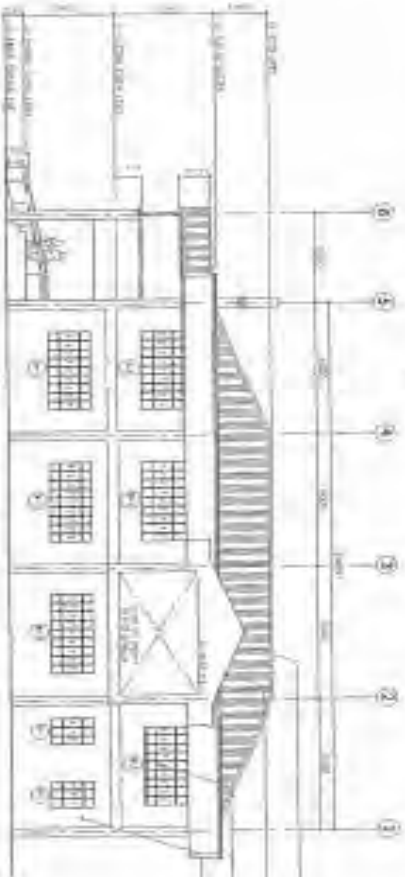
Checked by
[Signature]
Approved by
[Signature]

Checked by
[Signature]
Approved by
[Signature]

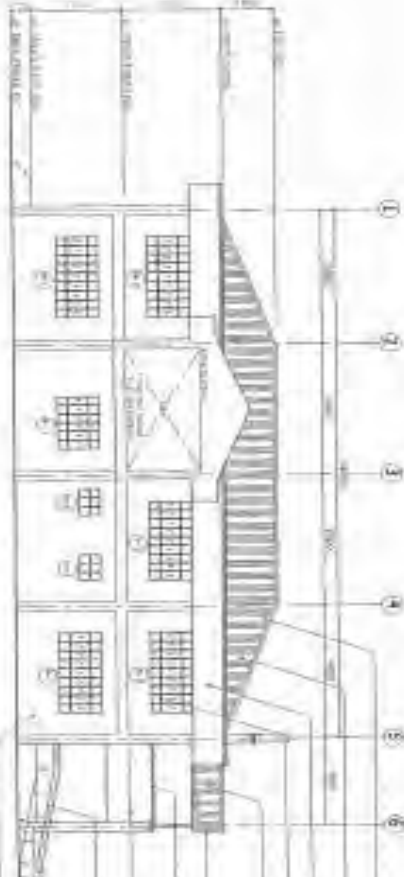
Checked by
[Signature]
Approved by
[Signature]

Checked by
[Signature]
Approved by
[Signature]

Checked by
[Signature]
Approved by
[Signature]



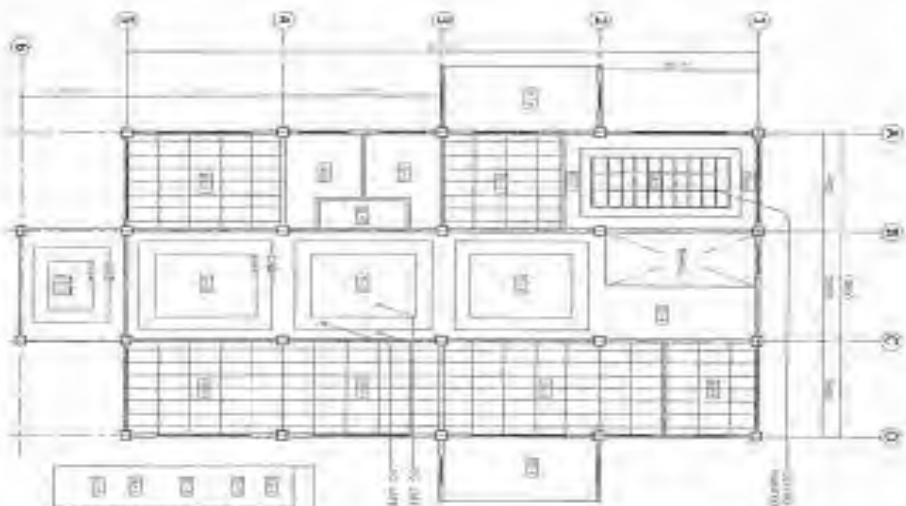
RIGHT SIDE ELEVATION
Scale 1/16



LEFT SIDE ELEVATION
Scale 1/32

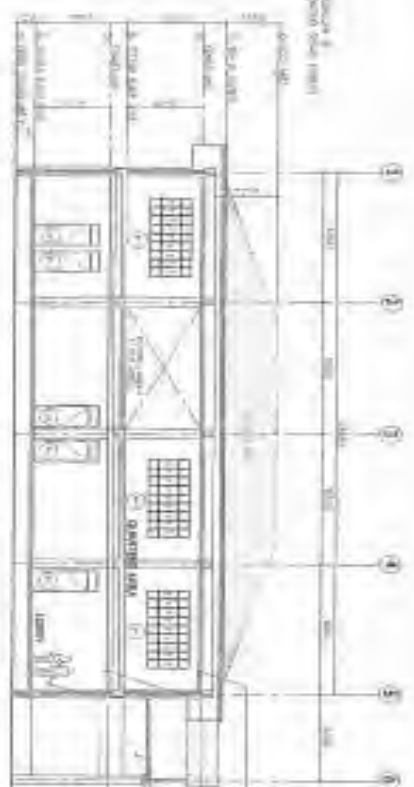
Notes for the Right Side Elevation:
 1. All windows are to be double glazed.
 2. All doors are to be double glazed.
 3. All walls are to be finished with white enamel paint.
 4. All floors are to be finished with light-colored tiles.
 5. All ceilings are to be finished with white enamel paint.
 6. All roofs are to be finished with galvanized iron sheets.
 7. All roofs are to be pitched at 12%.
 8. All roofs are to be finished with galvanized iron sheets.
 9. All roofs are to be pitched at 12%.

**NOTE: VERIFY
DIMENSIONS ON SITE**



11 GROUND FLOOR REFLECTED CEILING PLAN
1:100

CEILING FINISHES	
1	CONCRETE FINISH BASE ON GIP
2	WOOD FINISH BASE ON GIP
3	WOOD FINISH BASE ON GIP
4	WOOD FINISH BASE ON GIP
5	WOOD FINISH BASE ON GIP
6	WOOD FINISH BASE ON GIP
7	WOOD FINISH BASE ON GIP
8	WOOD FINISH BASE ON GIP
9	WOOD FINISH BASE ON GIP
10	WOOD FINISH BASE ON GIP
11	WOOD FINISH BASE ON GIP
12	WOOD FINISH BASE ON GIP
13	WOOD FINISH BASE ON GIP
14	WOOD FINISH BASE ON GIP
15	WOOD FINISH BASE ON GIP
16	WOOD FINISH BASE ON GIP
17	WOOD FINISH BASE ON GIP
18	WOOD FINISH BASE ON GIP
19	WOOD FINISH BASE ON GIP
20	WOOD FINISH BASE ON GIP
21	WOOD FINISH BASE ON GIP
22	WOOD FINISH BASE ON GIP
23	WOOD FINISH BASE ON GIP
24	WOOD FINISH BASE ON GIP
25	WOOD FINISH BASE ON GIP
26	WOOD FINISH BASE ON GIP
27	WOOD FINISH BASE ON GIP
28	WOOD FINISH BASE ON GIP
29	WOOD FINISH BASE ON GIP
30	WOOD FINISH BASE ON GIP
31	WOOD FINISH BASE ON GIP
32	WOOD FINISH BASE ON GIP
33	WOOD FINISH BASE ON GIP
34	WOOD FINISH BASE ON GIP
35	WOOD FINISH BASE ON GIP
36	WOOD FINISH BASE ON GIP
37	WOOD FINISH BASE ON GIP
38	WOOD FINISH BASE ON GIP
39	WOOD FINISH BASE ON GIP
40	WOOD FINISH BASE ON GIP
41	WOOD FINISH BASE ON GIP
42	WOOD FINISH BASE ON GIP
43	WOOD FINISH BASE ON GIP
44	WOOD FINISH BASE ON GIP
45	WOOD FINISH BASE ON GIP
46	WOOD FINISH BASE ON GIP
47	WOOD FINISH BASE ON GIP
48	WOOD FINISH BASE ON GIP
49	WOOD FINISH BASE ON GIP
50	WOOD FINISH BASE ON GIP
51	WOOD FINISH BASE ON GIP
52	WOOD FINISH BASE ON GIP
53	WOOD FINISH BASE ON GIP
54	WOOD FINISH BASE ON GIP
55	WOOD FINISH BASE ON GIP
56	WOOD FINISH BASE ON GIP
57	WOOD FINISH BASE ON GIP
58	WOOD FINISH BASE ON GIP
59	WOOD FINISH BASE ON GIP
60	WOOD FINISH BASE ON GIP
61	WOOD FINISH BASE ON GIP
62	WOOD FINISH BASE ON GIP
63	WOOD FINISH BASE ON GIP
64	WOOD FINISH BASE ON GIP
65	WOOD FINISH BASE ON GIP
66	WOOD FINISH BASE ON GIP
67	WOOD FINISH BASE ON GIP
68	WOOD FINISH BASE ON GIP
69	WOOD FINISH BASE ON GIP
70	WOOD FINISH BASE ON GIP
71	WOOD FINISH BASE ON GIP
72	WOOD FINISH BASE ON GIP
73	WOOD FINISH BASE ON GIP
74	WOOD FINISH BASE ON GIP
75	WOOD FINISH BASE ON GIP
76	WOOD FINISH BASE ON GIP
77	WOOD FINISH BASE ON GIP
78	WOOD FINISH BASE ON GIP
79	WOOD FINISH BASE ON GIP
80	WOOD FINISH BASE ON GIP
81	WOOD FINISH BASE ON GIP
82	WOOD FINISH BASE ON GIP
83	WOOD FINISH BASE ON GIP
84	WOOD FINISH BASE ON GIP
85	WOOD FINISH BASE ON GIP
86	WOOD FINISH BASE ON GIP
87	WOOD FINISH BASE ON GIP
88	WOOD FINISH BASE ON GIP
89	WOOD FINISH BASE ON GIP
90	WOOD FINISH BASE ON GIP
91	WOOD FINISH BASE ON GIP
92	WOOD FINISH BASE ON GIP
93	WOOD FINISH BASE ON GIP
94	WOOD FINISH BASE ON GIP
95	WOOD FINISH BASE ON GIP
96	WOOD FINISH BASE ON GIP
97	WOOD FINISH BASE ON GIP
98	WOOD FINISH BASE ON GIP
99	WOOD FINISH BASE ON GIP
100	WOOD FINISH BASE ON GIP



12 LONGITUDINAL SECTION
1:50



13 CROSS SECTION
1:100

NOTE: VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY			PROJECT NO. 	SYSTEM NO. 	ROAD NO. 	PROFESSIONAL OFFICIAL 	APPROVED BY 	DIVISION OF MARINE AND EDUCATION OFFICER	GENERAL MANAGER 	DATE: 1/19/20
---	--	--	-----------------	----------------	--------------	---------------------------	-----------------	--	---------------------	------------------



DESIGNED BY
 CHECKED BY
 DATE

DRAWN BY
 DATE

APPROVED BY
 DATE

APPROVED BY
 DATE

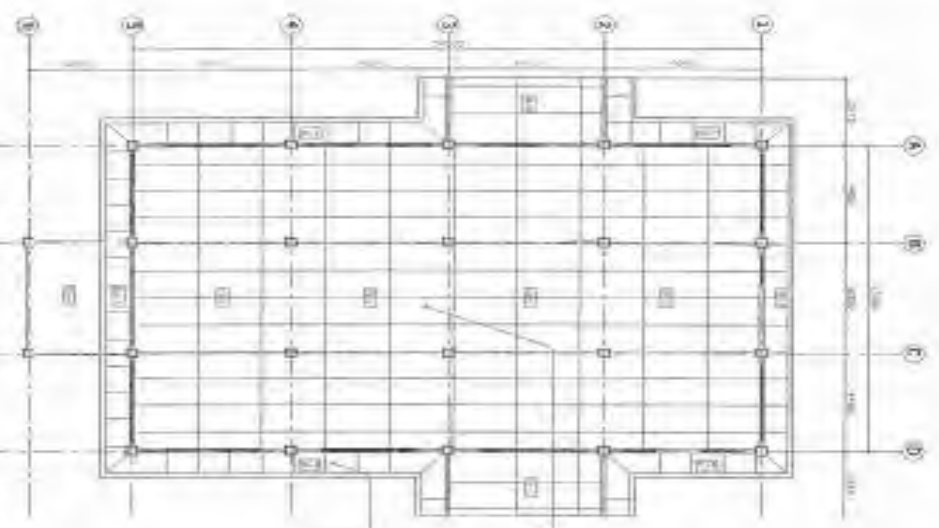
APPROVED BY
 DATE

APPROVED BY
 DATE

APPROVED BY
 DATE

APPROVED BY
 DATE

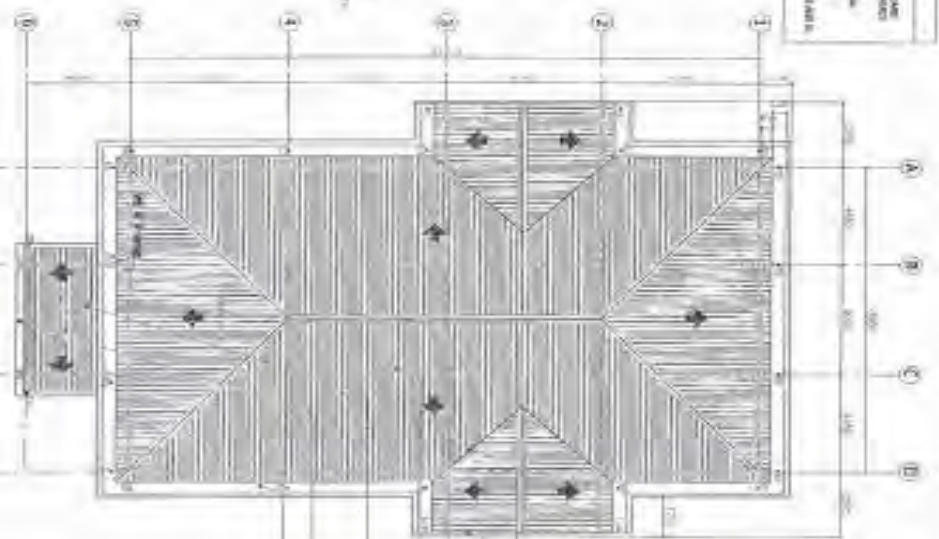
1 SECOND FLOOR REFLECTED CEILING PLAN
 Scale 1:100



LEGEND FINISHES

020	REFLECTED CEILING
021	REFLECTED CEILING
022	REFLECTED CEILING
023	REFLECTED CEILING
024	REFLECTED CEILING
025	REFLECTED CEILING
026	REFLECTED CEILING
027	REFLECTED CEILING
028	REFLECTED CEILING
029	REFLECTED CEILING
030	REFLECTED CEILING
031	REFLECTED CEILING
032	REFLECTED CEILING
033	REFLECTED CEILING
034	REFLECTED CEILING
035	REFLECTED CEILING
036	REFLECTED CEILING
037	REFLECTED CEILING
038	REFLECTED CEILING
039	REFLECTED CEILING
040	REFLECTED CEILING
041	REFLECTED CEILING
042	REFLECTED CEILING
043	REFLECTED CEILING
044	REFLECTED CEILING
045	REFLECTED CEILING
046	REFLECTED CEILING
047	REFLECTED CEILING
048	REFLECTED CEILING
049	REFLECTED CEILING
050	REFLECTED CEILING
051	REFLECTED CEILING
052	REFLECTED CEILING
053	REFLECTED CEILING
054	REFLECTED CEILING
055	REFLECTED CEILING
056	REFLECTED CEILING
057	REFLECTED CEILING
058	REFLECTED CEILING
059	REFLECTED CEILING
060	REFLECTED CEILING
061	REFLECTED CEILING
062	REFLECTED CEILING
063	REFLECTED CEILING
064	REFLECTED CEILING
065	REFLECTED CEILING
066	REFLECTED CEILING
067	REFLECTED CEILING
068	REFLECTED CEILING
069	REFLECTED CEILING
070	REFLECTED CEILING
071	REFLECTED CEILING
072	REFLECTED CEILING
073	REFLECTED CEILING
074	REFLECTED CEILING
075	REFLECTED CEILING
076	REFLECTED CEILING
077	REFLECTED CEILING
078	REFLECTED CEILING
079	REFLECTED CEILING
080	REFLECTED CEILING
081	REFLECTED CEILING
082	REFLECTED CEILING
083	REFLECTED CEILING
084	REFLECTED CEILING
085	REFLECTED CEILING
086	REFLECTED CEILING
087	REFLECTED CEILING
088	REFLECTED CEILING
089	REFLECTED CEILING
090	REFLECTED CEILING
091	REFLECTED CEILING
092	REFLECTED CEILING
093	REFLECTED CEILING
094	REFLECTED CEILING
095	REFLECTED CEILING
096	REFLECTED CEILING
097	REFLECTED CEILING
098	REFLECTED CEILING
099	REFLECTED CEILING
100	REFLECTED CEILING

2 ROOF PLAN
 Scale 1:100



ROOF FINISHES

010 REFLECTED ROOF FINISH

011 REFLECTED ROOF FINISH

012 REFLECTED ROOF FINISH

013 REFLECTED ROOF FINISH

014 REFLECTED ROOF FINISH

015 REFLECTED ROOF FINISH

016 REFLECTED ROOF FINISH

017 REFLECTED ROOF FINISH

018 REFLECTED ROOF FINISH

019 REFLECTED ROOF FINISH

020 REFLECTED ROOF FINISH

021 REFLECTED ROOF FINISH

022 REFLECTED ROOF FINISH

023 REFLECTED ROOF FINISH

024 REFLECTED ROOF FINISH

025 REFLECTED ROOF FINISH

026 REFLECTED ROOF FINISH

027 REFLECTED ROOF FINISH

028 REFLECTED ROOF FINISH

029 REFLECTED ROOF FINISH

030 REFLECTED ROOF FINISH

031 REFLECTED ROOF FINISH

032 REFLECTED ROOF FINISH

033 REFLECTED ROOF FINISH

034 REFLECTED ROOF FINISH

035 REFLECTED ROOF FINISH

036 REFLECTED ROOF FINISH

037 REFLECTED ROOF FINISH

038 REFLECTED ROOF FINISH

039 REFLECTED ROOF FINISH

040 REFLECTED ROOF FINISH

041 REFLECTED ROOF FINISH

042 REFLECTED ROOF FINISH

043 REFLECTED ROOF FINISH

044 REFLECTED ROOF FINISH

045 REFLECTED ROOF FINISH

046 REFLECTED ROOF FINISH

047 REFLECTED ROOF FINISH

048 REFLECTED ROOF FINISH

049 REFLECTED ROOF FINISH

050 REFLECTED ROOF FINISH

051 REFLECTED ROOF FINISH

052 REFLECTED ROOF FINISH

053 REFLECTED ROOF FINISH

054 REFLECTED ROOF FINISH

055 REFLECTED ROOF FINISH

056 REFLECTED ROOF FINISH

057 REFLECTED ROOF FINISH

058 REFLECTED ROOF FINISH

059 REFLECTED ROOF FINISH

060 REFLECTED ROOF FINISH

061 REFLECTED ROOF FINISH

062 REFLECTED ROOF FINISH

063 REFLECTED ROOF FINISH

064 REFLECTED ROOF FINISH

065 REFLECTED ROOF FINISH

066 REFLECTED ROOF FINISH

067 REFLECTED ROOF FINISH

068 REFLECTED ROOF FINISH

069 REFLECTED ROOF FINISH

070 REFLECTED ROOF FINISH

071 REFLECTED ROOF FINISH

072 REFLECTED ROOF FINISH

073 REFLECTED ROOF FINISH

074 REFLECTED ROOF FINISH

075 REFLECTED ROOF FINISH

076 REFLECTED ROOF FINISH

077 REFLECTED ROOF FINISH

078 REFLECTED ROOF FINISH

079 REFLECTED ROOF FINISH

080 REFLECTED ROOF FINISH

081 REFLECTED ROOF FINISH

082 REFLECTED ROOF FINISH

083 REFLECTED ROOF FINISH

084 REFLECTED ROOF FINISH

085 REFLECTED ROOF FINISH

086 REFLECTED ROOF FINISH

087 REFLECTED ROOF FINISH

088 REFLECTED ROOF FINISH

089 REFLECTED ROOF FINISH

090 REFLECTED ROOF FINISH

091 REFLECTED ROOF FINISH

092 REFLECTED ROOF FINISH

093 REFLECTED ROOF FINISH

094 REFLECTED ROOF FINISH

095 REFLECTED ROOF FINISH

096 REFLECTED ROOF FINISH

097 REFLECTED ROOF FINISH

098 REFLECTED ROOF FINISH

099 REFLECTED ROOF FINISH

100 REFLECTED ROOF FINISH

NOTE : VERIFY DIMENSIONS ON SITE



Approved by: *[Signature]*
 Date: *[Date]*

Checked by: *[Signature]*
 Date: *[Date]*

Reviewed by: *[Signature]*
 Date: *[Date]*

Approved by: *[Signature]*
 Date: *[Date]*

Checked by: *[Signature]*
 Date: *[Date]*

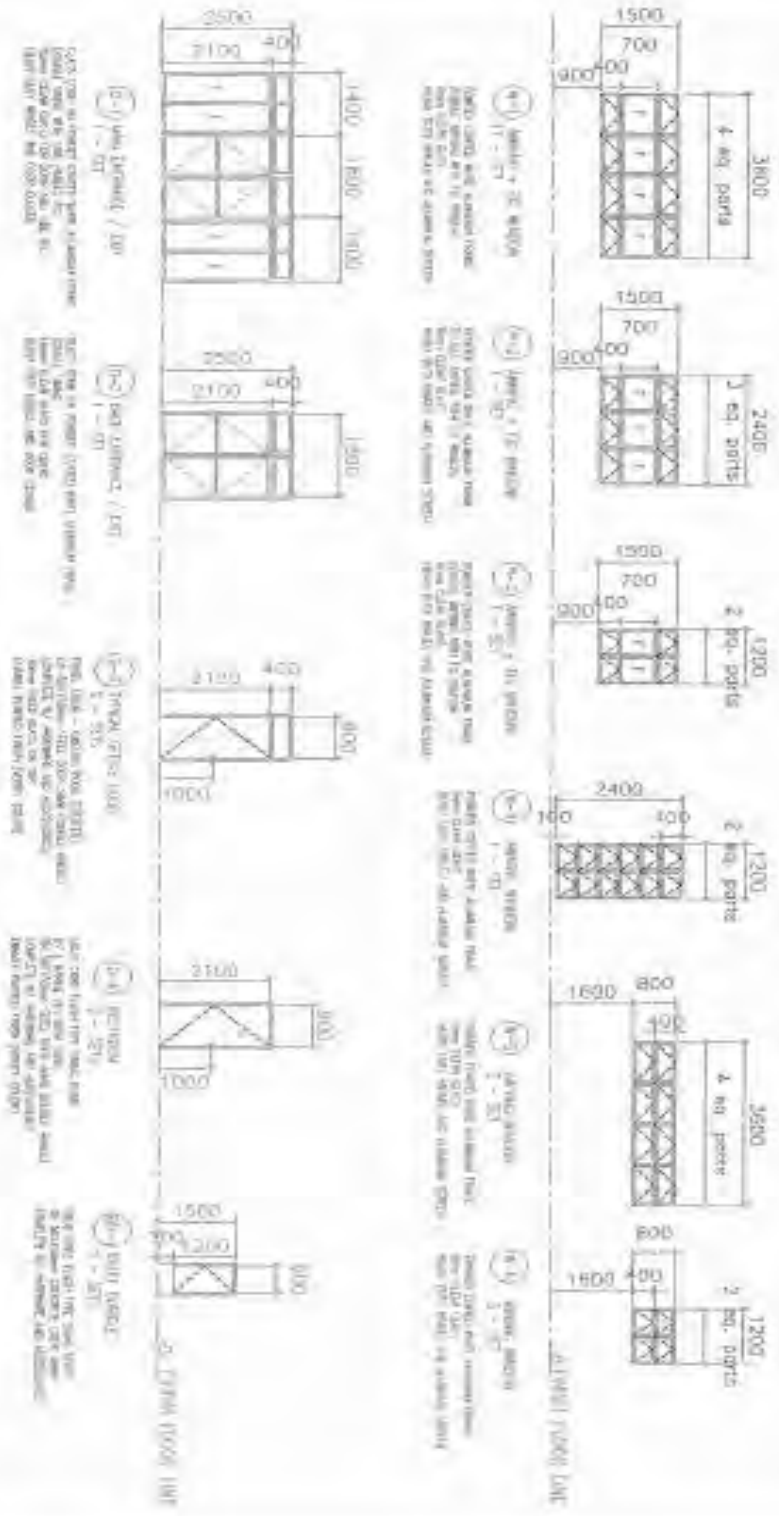
Approved by: *[Signature]*
 Date: *[Date]*

Checked by: *[Signature]*
 Date: *[Date]*

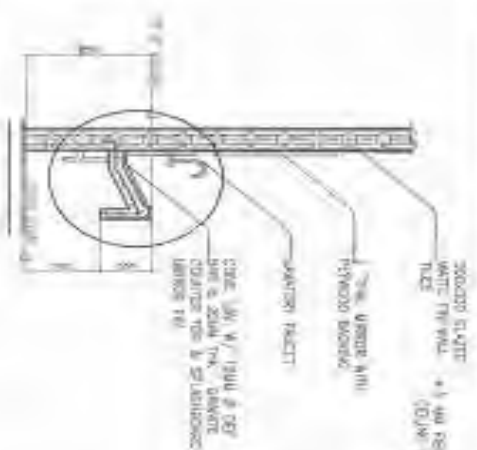
Approved by: *[Signature]*
 Date: *[Date]*

Checked by: *[Signature]*
 Date: *[Date]*

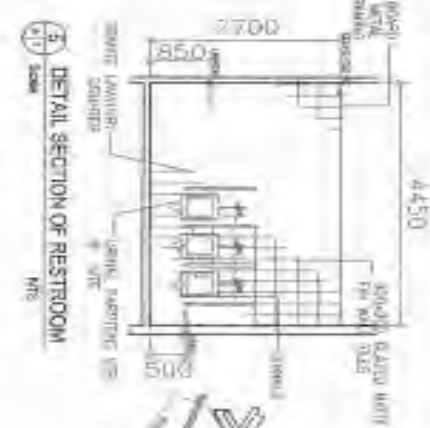
SCHEDULE OF DOORS AND WINDOWS
 Scale: 1:50



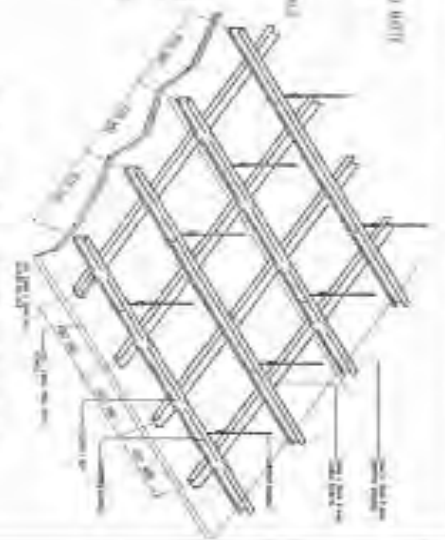
NOTE: VERIFY DIMENSIONS ON SITE



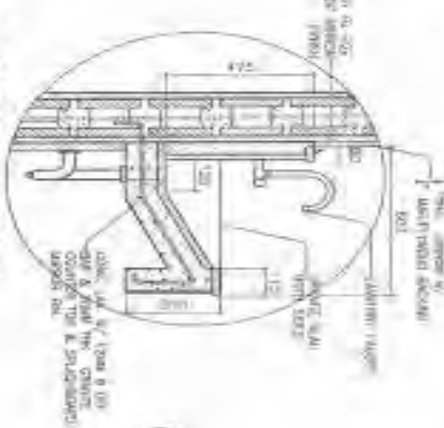
1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale



1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale



1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale



1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale



1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale

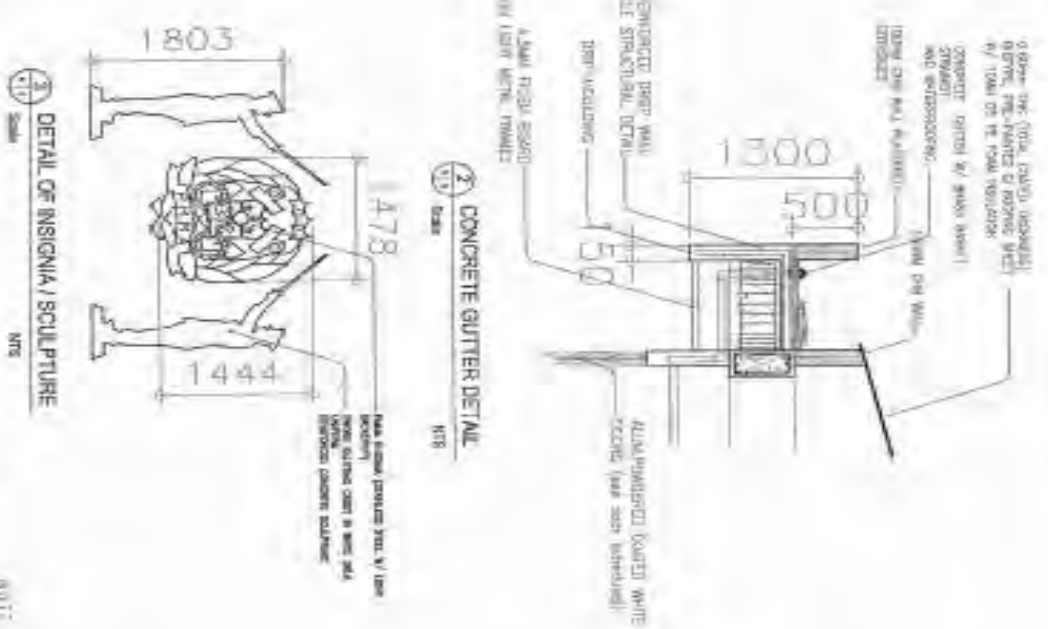
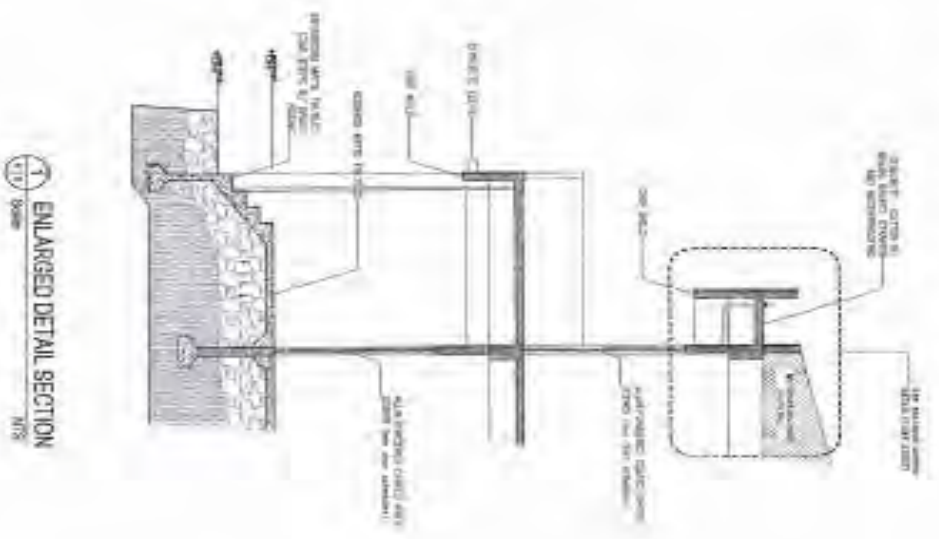


1/4 Scale
1/4 Scale
1/4 Scale
1/4 Scale

NOTE : VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY				Prepared by:		Checked by:		Approved by:		Date: 11/11/2019	
Project Name: PHILIPPINE MERCHANT MARINE ACADEMY		Project No: PHMMA/2019/001		Drawing No: PHMMA/2019/001/001		Drawing Title: MECHANICAL DRAWING		Drawing Scale: AS SHOWN		Drawing Date: 11/11/2019	
Client Name: PHILIPPINE MERCHANT MARINE ACADEMY		Client Address: 1000 BAYVIEW AVENUE, SUITE 1000, BAYVIEW, MANILA		Contract No: PHMMA/2019/001		Contract Value: PH 1,000,000.00		Contract Start Date: 11/11/2019		Contract End Date: 11/11/2019	
Architect Name: PHILIPPINE MERCHANT MARINE ACADEMY		Architect Address: 1000 BAYVIEW AVENUE, SUITE 1000, BAYVIEW, MANILA		Architect Phone: 0917-123-4567		Architect Email: info@phmma.com		Architect Website: www.phmma.com		Architect License No: PHMA-12345	
Engineer Name: PHILIPPINE MERCHANT MARINE ACADEMY		Engineer Address: 1000 BAYVIEW AVENUE, SUITE 1000, BAYVIEW, MANILA		Engineer Phone: 0917-123-4567		Engineer Email: info@phmma.com		Engineer Website: www.phmma.com		Engineer License No: PHME-12345	
Contractor Name: PHILIPPINE MERCHANT MARINE ACADEMY		Contractor Address: 1000 BAYVIEW AVENUE, SUITE 1000, BAYVIEW, MANILA		Contractor Phone: 0917-123-4567		Contractor Email: info@phmma.com		Contractor Website: www.phmma.com		Contractor License No: PHMC-12345	
Date: 11/11/2019		Scale: AS SHOWN		Sheet No: 001		Total Sheets: 001		Project Status: COMPLETED		Project Location: PHILIPPINE MERCHANT MARINE ACADEMY	

Prepared by:	Checked by:	Drawn by:	Reviewed by:	Approved by:	Checked by:	Approved by:	Checked by:	Approved by:	Checked by:	Approved by:	Checked by:	Approved by:
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
PROJECT TITLE:	DATE:	SCALE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:
CONSTRUCTION OF INTERIORS (DRAWING COURSE)	DATE:	SCALE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:
DATE:	SCALE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:	DATE:	PROJECT NO.:



NOTE: (1) FILE
DRAWING: 01 200

STRUCTURAL NOTES

4. GENERAL NOTES:

1. ALL DIMENSIONS UNLESS OTHERWISE SHOWN ARE IN METERS.
2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.
10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SHOWN.

5. REINFORCED CONCRETE NOTES:

SCHEDULE OF FINISHES, CONCRETE STRENGTH AND TESTS:

ITEM	FINISH	CONCRETE STRENGTH	TESTS
1. FLOOR	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE
2. WALL	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE
3. ROOF	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE

6. CONCRETE NOTES:

CONCRETE IS LABORATORY SPECIFIED:

ITEM	FINISH	CONCRETE STRENGTH	TESTS
1. FLOOR	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE
2. WALL	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE
3. ROOF	SMOOTH	20 MPa	COMPRESSIVE STRENGTH, SPLIT TENSILE

7. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

8. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

9. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

10. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

11. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

12. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg

13. REINFORCING BARS:

SCHEDULE OF REINFORCING BARS:

BAR NO.	BAR SIZE	BAR TYPE	BAR LENGTH	BAR WEIGHT
1	12mm	HRB400	1.0m	0.118kg
2	16mm	HRB400	1.0m	0.201kg
3	20mm	HRB400	1.0m	0.275kg



PHILIPPINE MERCHANT MARINE ACADEMY

REVISIONS:

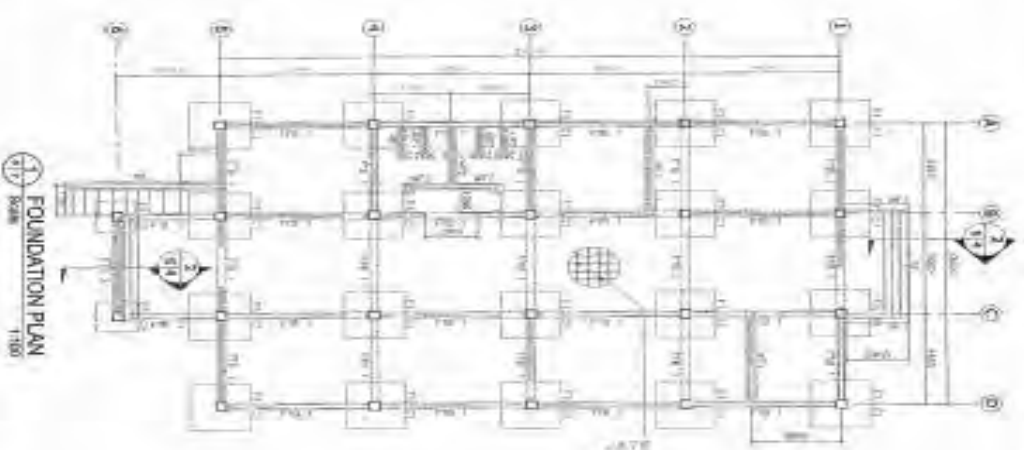
NO.	DATE	BY	REVISION
1	10/18

APPROVED BY:

DESIGNED BY:

CHECKED BY:

DATE: 10/18



NOTE: VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY

Checked by: *[Signature]*
 Drawn by: *[Signature]*
 Project No. *[Signature]*

Reviewed by: *[Signature]*
 Approved by: *[Signature]*
 Date: *[Signature]*

Prepared by: *[Signature]*
 Checked by: *[Signature]*
 Project No. *[Signature]*

Checked by: *[Signature]*
 Drawn by: *[Signature]*
 Project No. *[Signature]*

Reviewed by: *[Signature]*
 Approved by: *[Signature]*
 Date: *[Signature]*

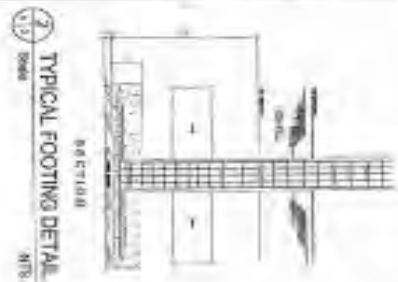
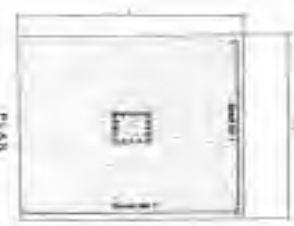
Checked by: *[Signature]*
 Drawn by: *[Signature]*
 Project No. *[Signature]*

Scale: 1/100

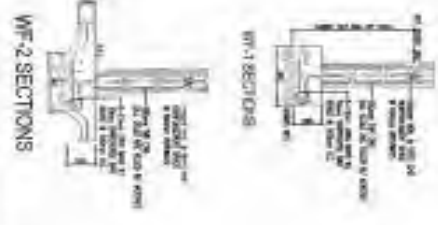
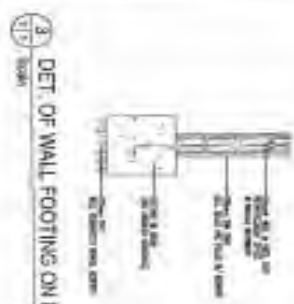
FOOTING MARK	TYPICAL FOOTING DIMS		SERVICEDUCT		REMARKS
	WALL	FOOTING	WALL	FOOTING	
F-1	2000	1500	400	1100	11 - 20mm ϕ / 11 - 20mm ϕ / 40mm ϕ / 40mm ϕ
F-2	1200	900	400	400	4 - 20mm ϕ / 4 - 20mm ϕ / 20mm ϕ / 20mm ϕ

FOOTING	COLUMN SCHEDULE	
	C1	C2
1200 x 1200	<p>400mm x 1200mm 1200mm x 1200mm 4 - 20mm ϕ (1200mm) 4 - 20mm ϕ (1200mm)</p>	<p>400mm x 1200mm 1200mm x 1200mm 4 - 20mm ϕ (1200mm) 4 - 20mm ϕ (1200mm)</p>

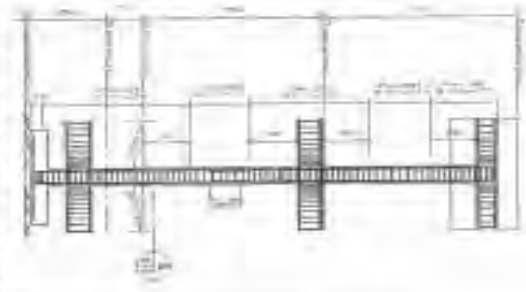
1 COLUMN / FOOTING SCHEDULE
1/10 Scale



2 DET. OF WALL FOOTING ON FTB
1/10 Scale



3 TYPICAL DETAIL OF RC COLUMN
1/10 Scale



NOTE : VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY

Prepared by	Checked by	Reviewed by	Approved by	Checked by	Reviewed by	Approved by	Checked by	Reviewed by	Approved by
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE

PROJECT TITLE: **DIOSDADEAN COLLEGE OF ANTIPOLO**

PROJECT LOCATION: **DIOSDADEAN COLLEGE OF ANTIPOLO**

PROJECT NO.: **123456789**

DATE OF PREPARED: **12/12/2023**

DATE OF CHECKED: **12/12/2023**

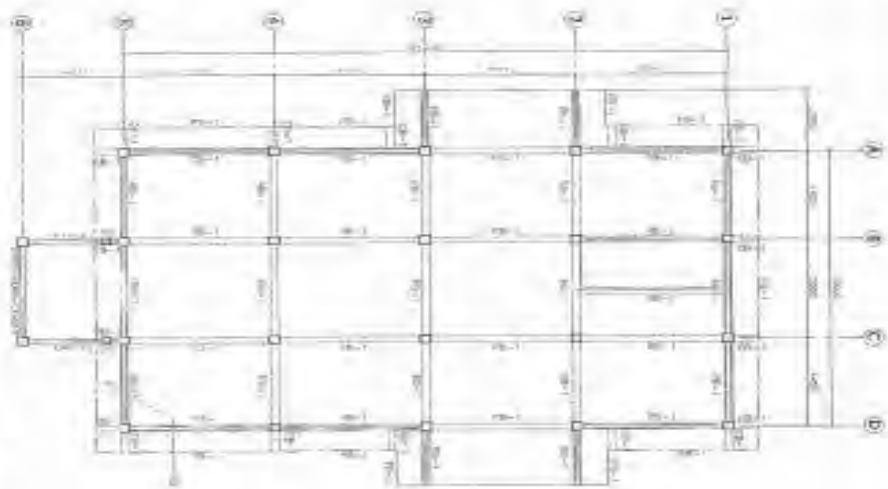
DATE OF REVIEWED: **12/12/2023**

DATE OF APPROVED: **12/12/2023**

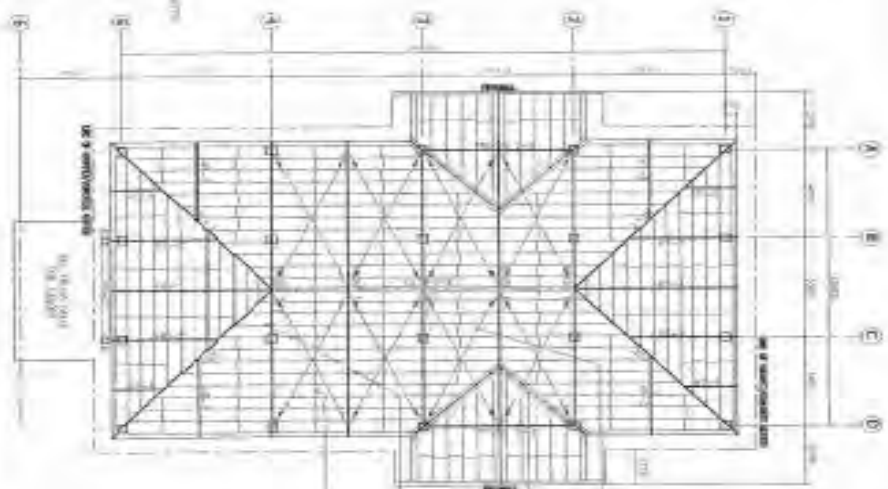
DATE OF CHECKED: **12/12/2023**

DATE OF REVIEWED: **12/12/2023**

DATE OF APPROVED: **12/12/2023**



1.1 ROOF FRAMING PLAN AT BOTTOM CHORD LEVEL
1/10



1.2 ROOF FRAMING PLAN AT TOP CHORD LEVEL
1/10

NOTE : VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY



Prepared By: *[Signature]*
Checked By: *[Signature]*

Approved By: *[Signature]*
Date: *[Date]*

Project No: *[Number]*
Project Name: *[Name]*

Client: *[Name]*
Address: *[Address]*

Contract No: *[Number]*
Contract Value: *[Value]*

Project Title: *[Title]*
Contractor: *[Name]*

Contractor's Representative: *[Signature]*
Contractor's Name: *[Name]*

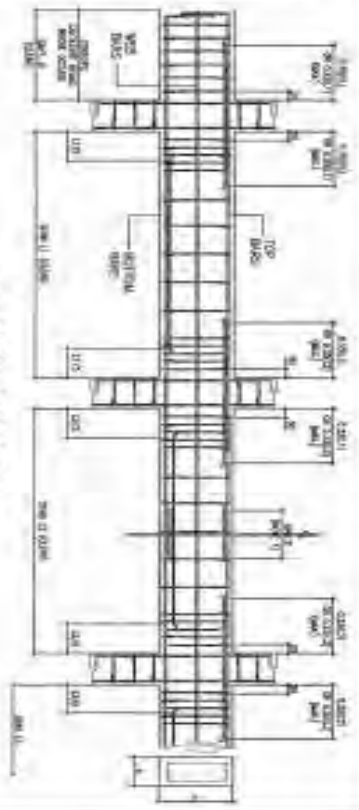
Contractor's Address: *[Address]*
Contractor's Phone: *[Phone]*

Contract No: *[Number]*
Date: *[Date]*

BEAM SCHEDULE

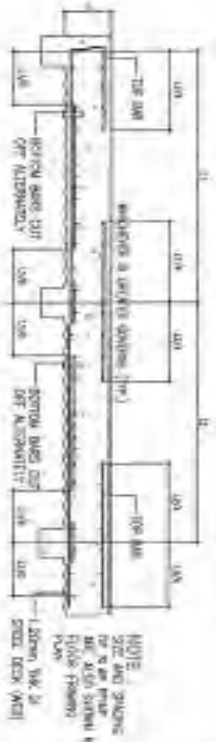
NO	ID	SPAN	S	D	SCHED	ZPL		NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED
						1	2												
101	101	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
102	102	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
103	103	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
104	104	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
105	105	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
106	106	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
107	107	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
108	108	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
109	109	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
110	110	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1

2 TYPICAL BEAM DETAIL
1/16 Scale



3 TYPICAL SLAB DETAIL
1/16 Scale

NO	ID	SPAN	S	D	SCHED	ZPL		NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED	NO	SCHED
						1	2												
101	101	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
102	102	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
103	103	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
104	104	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
105	105	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
106	106	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
107	107	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
108	108	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
109	109	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1
110	110	100	100	100	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1



4 TYPICAL SLAB DETAIL
1/16 Scale

- 1. LOOK FOR THE SLABS IN VIEW OF THE DRAWING OF SLABS - 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 2. LOOK FOR THE SLABS IN VIEW OF THE DRAWING OF SLABS - 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 3. LOOK FOR THE SLABS IN VIEW OF THE DRAWING OF SLABS - 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- 4. CHECK THE SLABS IN VIEW OF THE DRAWING OF SLABS - 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

1 BEAM SCHEDULE
1/16 Scale



PHILIPPINE MERCHANT MARINE ACADEMY



1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES


1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

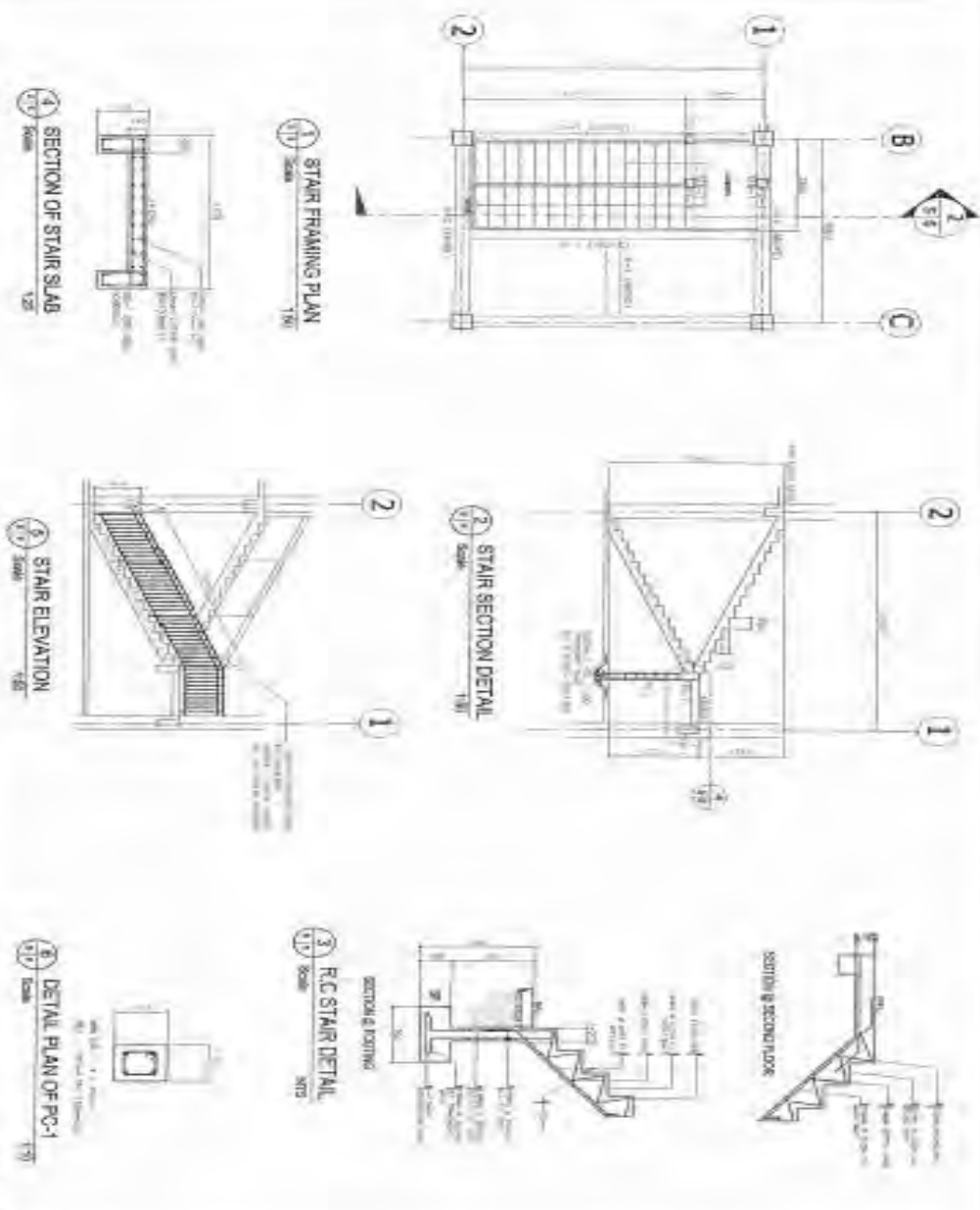
1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

1000 UNIVERSITY BLVD. COLLEGE AVENUE, CEBU CITY, PHILIPPINES

NOTE: VERIFY DIMENSIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY





1 STAIR FRAMING PLAN
Scale: 1/80

2 STAIR SECTION DETAIL
Scale: 1/8

3 R.C. STAIR DETAIL
Scale: 1/8






4 SECTION OF STAIR SLAB
Scale: 1/20

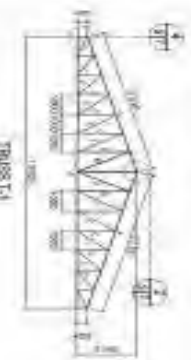
5 STAIR ELEVATION
Scale: 1/20

6 DETAIL PLAN OF PC-1
Scale: 1/8

7 SECTION & SECTION NOTE

NOTE: VERIFY DIMENSIONS ON SITE

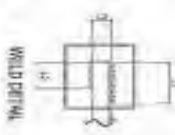
Prepared by: 	Checked by: 	Drawn by: 	Reviewed by: 	Approved by: 	Date of Issue: 11/19/2023	Date of Revision: 11/19/2023
PROJECT TITLE: STAIRCASE FOR MERCHANT MARINE ACADEMY						
PROJECT LOCATION: MERCHANT MARINE ACADEMY						
PROJECT NO.: 11/19/2023						
DRAWING NO.: 11/19/2023						
SCALE: 1/80						
DATE: 11/19/2023						



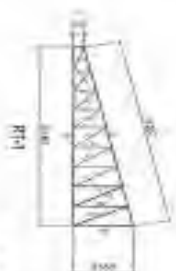
TRUSS T-1



TRUSS T-2



WELD DETAIL



TRUSS T-1



TRUSS T-2

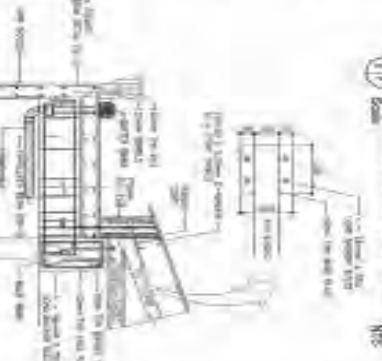
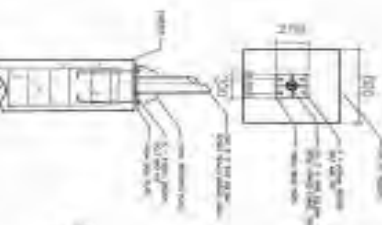
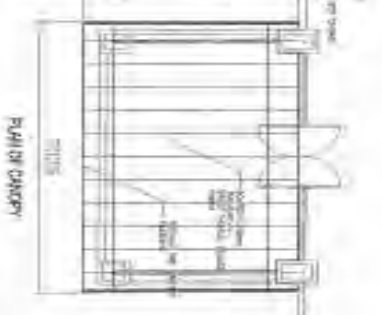
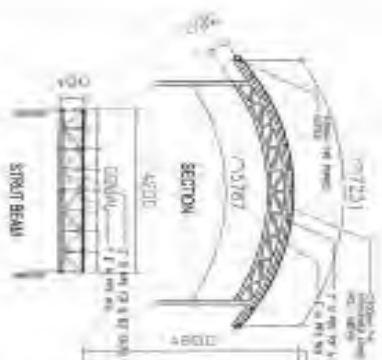
SCHEDULE OF TRUSS MEMBER AND WELDS

MEMBER	SECTION	LENGTH	NO. OF MEMBERS	WELDS	REMARKS
1	2x4	10.00	1	1	
2	2x4	10.00	1	1	
3	2x4	10.00	1	1	
4	2x4	10.00	1	1	
5	2x4	10.00	1	1	
6	2x4	10.00	1	1	
7	2x4	10.00	1	1	
8	2x4	10.00	1	1	
9	2x4	10.00	1	1	
10	2x4	10.00	1	1	
11	2x4	10.00	1	1	
12	2x4	10.00	1	1	
13	2x4	10.00	1	1	
14	2x4	10.00	1	1	
15	2x4	10.00	1	1	
16	2x4	10.00	1	1	
17	2x4	10.00	1	1	
18	2x4	10.00	1	1	
19	2x4	10.00	1	1	
20	2x4	10.00	1	1	
21	2x4	10.00	1	1	
22	2x4	10.00	1	1	
23	2x4	10.00	1	1	
24	2x4	10.00	1	1	
25	2x4	10.00	1	1	
26	2x4	10.00	1	1	
27	2x4	10.00	1	1	
28	2x4	10.00	1	1	
29	2x4	10.00	1	1	
30	2x4	10.00	1	1	
31	2x4	10.00	1	1	
32	2x4	10.00	1	1	
33	2x4	10.00	1	1	
34	2x4	10.00	1	1	
35	2x4	10.00	1	1	
36	2x4	10.00	1	1	
37	2x4	10.00	1	1	
38	2x4	10.00	1	1	
39	2x4	10.00	1	1	
40	2x4	10.00	1	1	
41	2x4	10.00	1	1	
42	2x4	10.00	1	1	
43	2x4	10.00	1	1	
44	2x4	10.00	1	1	
45	2x4	10.00	1	1	
46	2x4	10.00	1	1	
47	2x4	10.00	1	1	
48	2x4	10.00	1	1	
49	2x4	10.00	1	1	
50	2x4	10.00	1	1	

DETAIL - 2

TRUSS DETAIL

DETAIL OF PURLIN TO TOP CHORD CONNECTION



CANOPY FOR BALCONY AND BATTALION ENTRANCE

PEDESTAL PLAN AND DETAILS

DETAIL OF CONCRETE GUTTER

PHILIPPINE MERCHANT MARINE ACADEMY



DESIGNED BY

CHECKED BY

APPROVED BY

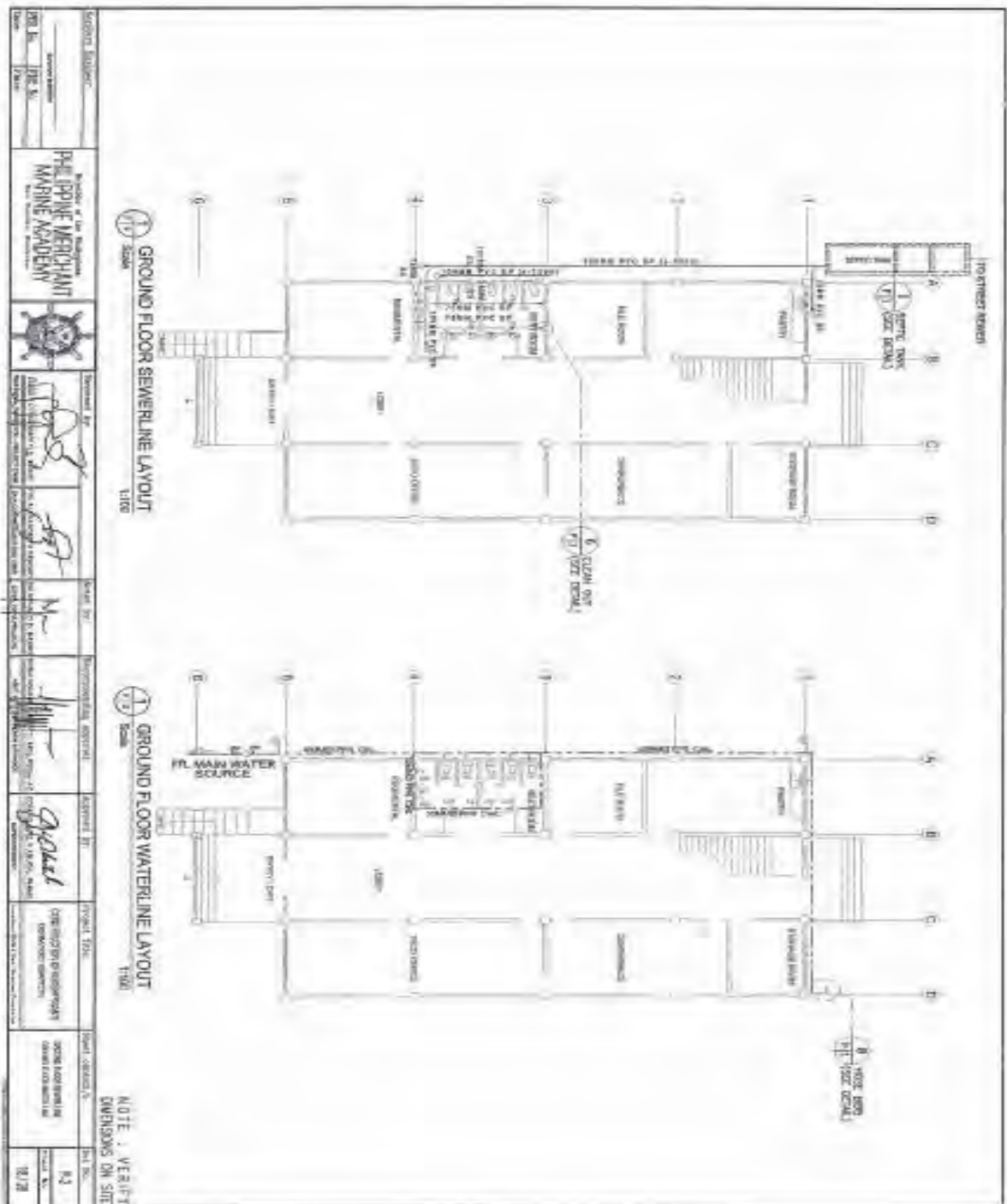
DATE

PROJECT TITLE

SCALE

REVISIONS

DATE

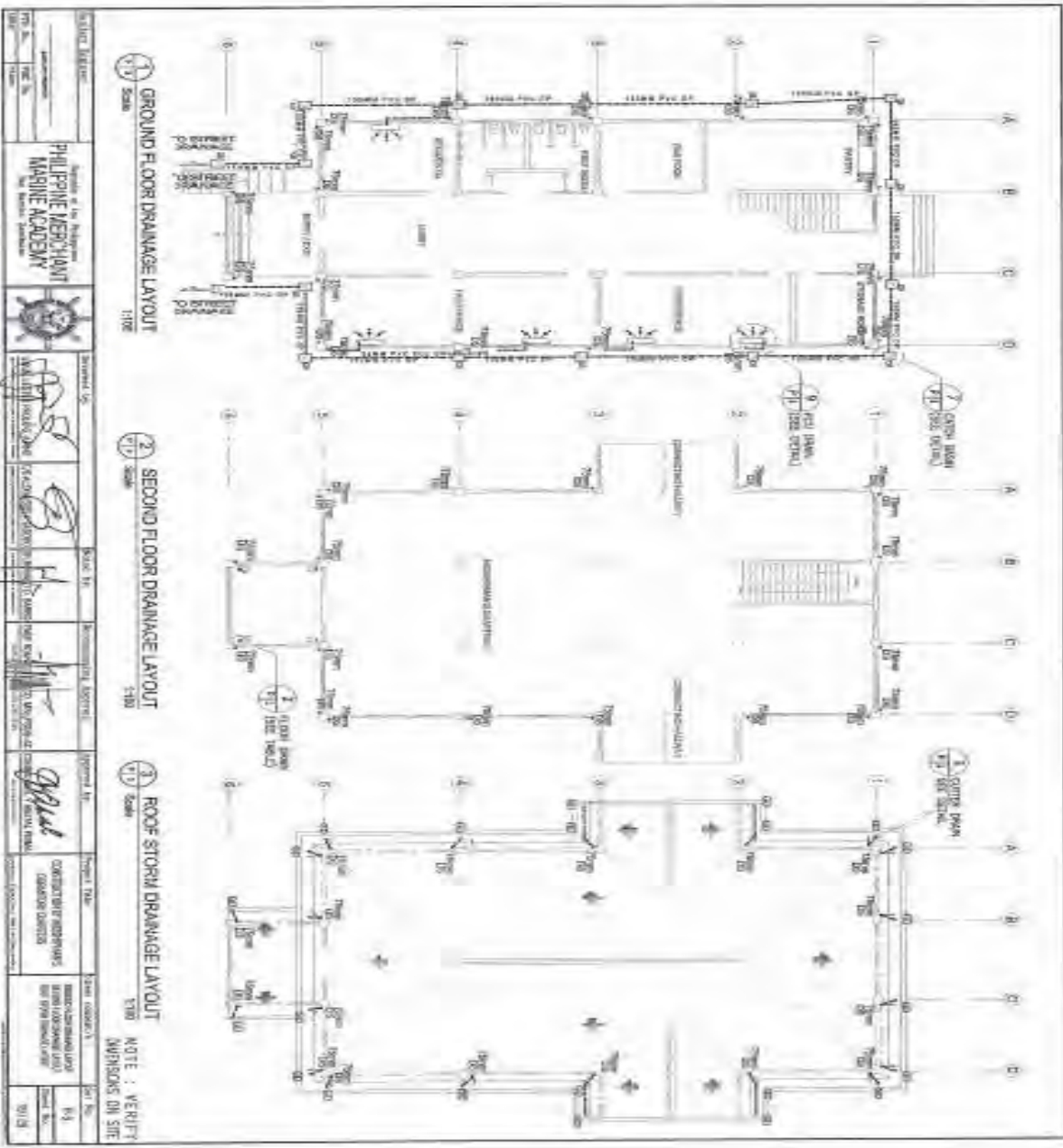


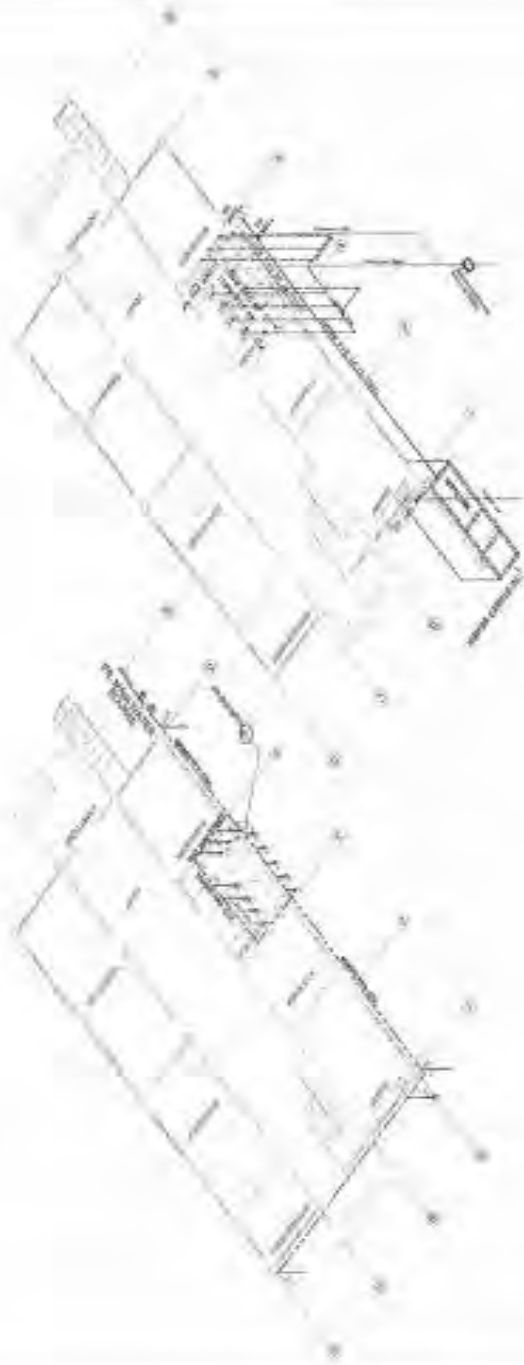
① GROUND FLOOR SEWERLINE LAYOUT
1/100

② GROUND FLOOR WATERLINE LAYOUT
1/100

NOTE: VERIFY DIMENSIONS ON SITE

PROJECT NO. DATE: SHEET NO.	PHILIPPINE MERCHANT MARINE ACADEMY		DRAWN BY: 	CHECKED BY: 	APPROVED BY: 	DATE: 	SCALE: 	SHEET NO. DATE:
PROJECT TITLE: ONE (1) STOREY REPAIR/RENOVATION OF EXISTING BUILDING	SCALE: 1/100	SHEET NO. DATE:	PROJECT NO. DATE:	SHEET NO. DATE:	SHEET NO. DATE:	SHEET NO. DATE:	SHEET NO. DATE:	SHEET NO. DATE:





① ISOMETRIC DIAGRAM (SEWERLINE LAYOUT)
1:500

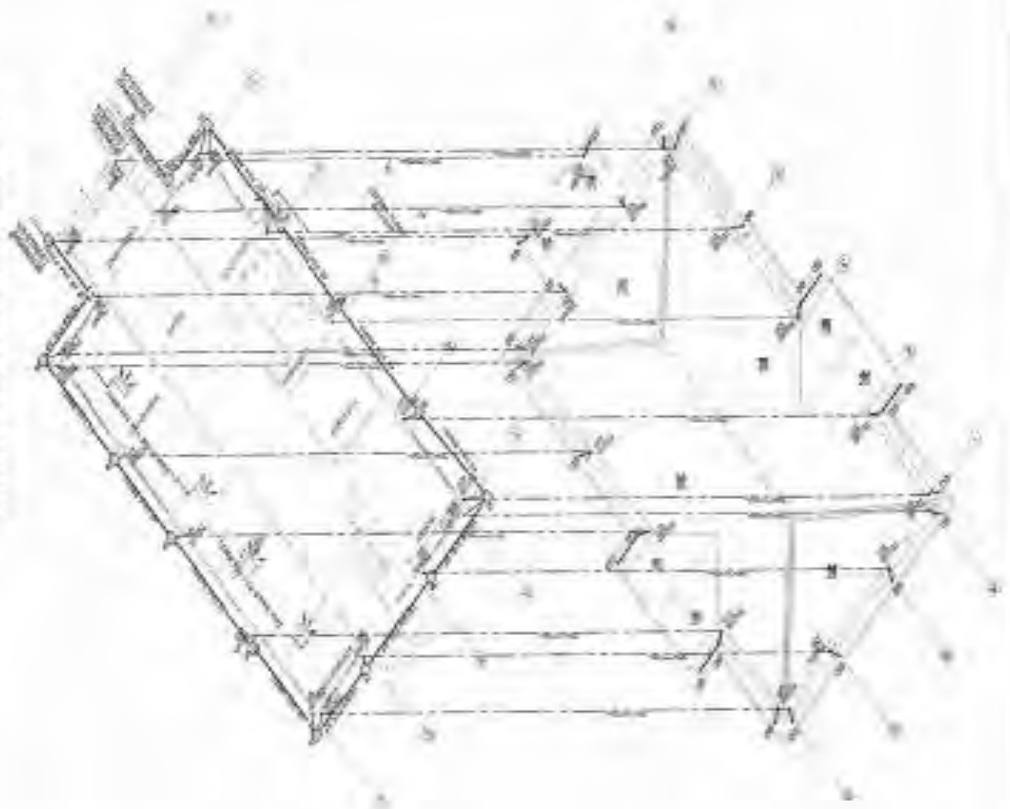
② ISOMETRIC DIAGRAM (WATERLINE LAYOUT)
1:500

NOTE : VIEWED
DUPPLICATED ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY 1000 S. M. ROAD, PASAY CITY, METRO MANILA		Checked by: <i>[Signature]</i> Date: 10/10/2023	Drafted by: <i>[Signature]</i> Date: 10/10/2023	Approved by: <i>[Signature]</i> Date: 10/10/2023	Project Title: SEWERAGE AND WATER SUPPLY SYSTEM FOR PHILIPPINE MERCHANT MARINE ACADEMY	Sheet No.: 44 Date: 10/10/23
---	--	--	--	---	---	---------------------------------

PROJECT TITLE		PHILIPPINE ARTIFICIAL MARINE ACADEMY		WORKING DRAWING NO.		DATE		PROJECT NO.		PROJECT NAME		PROJECT LOCATION		PROJECT DATE		PROJECT STATUS		PROJECT TYPE		PROJECT NO.	
DRAWN BY		CHECKED BY		DESIGNED BY		APPROVED BY		DATE		PROJECT NO.		PROJECT NAME		PROJECT LOCATION		PROJECT DATE		PROJECT STATUS		PROJECT TYPE	
SCALE		PROJECT NO.		PROJECT NAME		PROJECT LOCATION		PROJECT DATE		PROJECT STATUS		PROJECT TYPE		PROJECT NO.		PROJECT NAME		PROJECT LOCATION		PROJECT DATE	

ISOMETRIC DIAGRAM (DRAINAGE LAYOUT)



NOTE : VERIFY DIMENSIONS ON SITE

ELECTRICAL GENERAL NOTES

1. All electrical work shall conform to the National Electrical Code (NEC) and the latest edition of the National Electrical Safety Code (NESC).
2. All electrical work shall conform to the applicable provisions of the Building Code of the Philippines.
3. All electrical work shall be done in accordance with the approved drawings and specifications.
4. All electrical work shall be done in accordance with the approved drawings and specifications.

NOTICE TO CONTRACTOR:

1. A special license is required for electrical work.
2. All electrical work shall be done in accordance with the approved drawings and specifications.
3. All electrical work shall be done in accordance with the approved drawings and specifications.
4. All electrical work shall be done in accordance with the approved drawings and specifications.

NOTICE TO ARCHITECT:

1. All electrical work shall be done in accordance with the approved drawings and specifications.
2. All electrical work shall be done in accordance with the approved drawings and specifications.
3. All electrical work shall be done in accordance with the approved drawings and specifications.
4. All electrical work shall be done in accordance with the approved drawings and specifications.

SPECIFICATIONS OF PANELBOARD AND MDP

1. All electrical equipment shall be of the highest quality and shall be of the type specified.
2. All electrical equipment shall be of the type specified.
3. All electrical equipment shall be of the type specified.
4. All electrical equipment shall be of the type specified.

LEGEND

- Power
- Ground
- Data
- Telephone
- Fire Alarm
- Elevator
- Security
- Sign

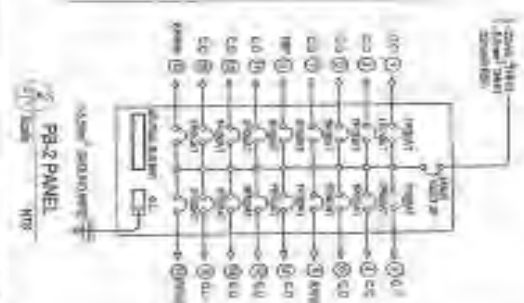
LOAD COMPUTATION & SCHEDULE

NO.	DESCRIPTION	PHASE	VOLTS	AMPERES	WATTAGE	VA	KVA	NO. OF PHASES	NO. OF CIRCUITS	TYPE OF LOAD	REMARKS
1	PLUMBING	3	120	10	1200	1.2	1.2	3	1	Continuous	
2	ELECTRICAL	3	120	10	1200	1.2	1.2	3	1	Continuous	
3	MECHANICAL	3	120	10	1200	1.2	1.2	3	1	Continuous	

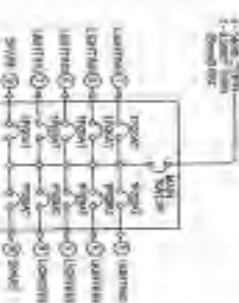


PB-2 PANEL

NO.	DESCRIPTION	PHASE	VOLTS	AMPERES	WATTAGE	VA	KVA	NO. OF PHASES	NO. OF CIRCUITS	TYPE OF LOAD	REMARKS
1	PLUMBING	3	120	10	1200	1.2	1.2	3	1	Continuous	
2	ELECTRICAL	3	120	10	1200	1.2	1.2	3	1	Continuous	
3	MECHANICAL	3	120	10	1200	1.2	1.2	3	1	Continuous	



PB-1 PANEL



PHILIPPINE MERCHANT
MARINE ACADEMY

Project Engineer

Designer

Checker

Scale: 1:1

Date: 10/10/2023

Project No.: 100-100-100

Revision: 01

FB-3 PANEL RUMAH KUNCIAN, NEWA 1 PHASE HOUSE WITH GROUND TERMINAL

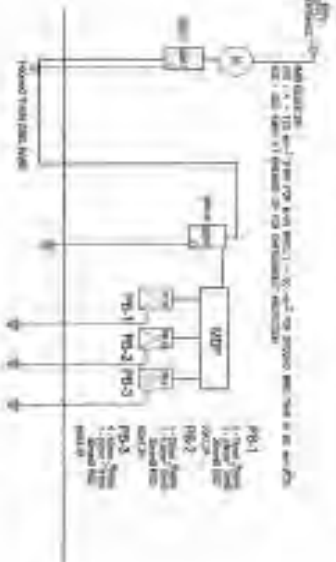
NO	DESCRIPTION	UNIT	QTY	NO	UNIT	QTY	NO	UNIT	QTY	NO	UNIT	QTY
1	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	1	1/2"	1	1	1/2"	1	1	1/2"	1
2	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	2	1/2"	2	1	1/2"	1	1	1/2"	1
3	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	3	1/2"	3	1	1/2"	1	1	1/2"	1
4	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	4	1/2"	4	1	1/2"	1	1	1/2"	1
5	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	5	1/2"	5	1	1/2"	1	1	1/2"	1
6	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	6	1/2"	6	1	1/2"	1	1	1/2"	1
7	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	7	1/2"	7	1	1/2"	1	1	1/2"	1
8	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	8	1/2"	8	1	1/2"	1	1	1/2"	1
9	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	9	1/2"	9	1	1/2"	1	1	1/2"	1
10	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	10	1/2"	10	1	1/2"	1	1	1/2"	1
11	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	11	1/2"	11	1	1/2"	1	1	1/2"	1
12	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	12	1/2"	12	1	1/2"	1	1	1/2"	1
13	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	13	1/2"	13	1	1/2"	1	1	1/2"	1
14	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	14	1/2"	14	1	1/2"	1	1	1/2"	1
15	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	15	1/2"	15	1	1/2"	1	1	1/2"	1
16	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	16	1/2"	16	1	1/2"	1	1	1/2"	1
17	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	17	1/2"	17	1	1/2"	1	1	1/2"	1
18	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	18	1/2"	18	1	1/2"	1	1	1/2"	1
19	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	19	1/2"	19	1	1/2"	1	1	1/2"	1
20	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	20	1/2"	20	1	1/2"	1	1	1/2"	1
21	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	21	1/2"	21	1	1/2"	1	1	1/2"	1
22	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	22	1/2"	22	1	1/2"	1	1	1/2"	1
23	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	23	1/2"	23	1	1/2"	1	1	1/2"	1
24	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	24	1/2"	24	1	1/2"	1	1	1/2"	1
25	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	25	1/2"	25	1	1/2"	1	1	1/2"	1
26	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	26	1/2"	26	1	1/2"	1	1	1/2"	1
27	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	27	1/2"	27	1	1/2"	1	1	1/2"	1
28	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	28	1/2"	28	1	1/2"	1	1	1/2"	1
29	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	29	1/2"	29	1	1/2"	1	1	1/2"	1
30	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	30	1/2"	30	1	1/2"	1	1	1/2"	1
31	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	31	1/2"	31	1	1/2"	1	1	1/2"	1
32	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	32	1/2"	32	1	1/2"	1	1	1/2"	1
33	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	33	1/2"	33	1	1/2"	1	1	1/2"	1
34	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	34	1/2"	34	1	1/2"	1	1	1/2"	1
35	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	35	1/2"	35	1	1/2"	1	1	1/2"	1
36	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	36	1/2"	36	1	1/2"	1	1	1/2"	1
37	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	37	1/2"	37	1	1/2"	1	1	1/2"	1
38	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	38	1/2"	38	1	1/2"	1	1	1/2"	1
39	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	39	1/2"	39	1	1/2"	1	1	1/2"	1
40	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	40	1/2"	40	1	1/2"	1	1	1/2"	1
41	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	41	1/2"	41	1	1/2"	1	1	1/2"	1
42	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	42	1/2"	42	1	1/2"	1	1	1/2"	1
43	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	43	1/2"	43	1	1/2"	1	1	1/2"	1
44	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	44	1/2"	44	1	1/2"	1	1	1/2"	1
45	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	45	1/2"	45	1	1/2"	1	1	1/2"	1
46	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	46	1/2"	46	1	1/2"	1	1	1/2"	1
47	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	47	1/2"	47	1	1/2"	1	1	1/2"	1
48	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	48	1/2"	48	1	1/2"	1	1	1/2"	1
49	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	49	1/2"	49	1	1/2"	1	1	1/2"	1
50	1.5" x 1.5" x 1.5" (1/2" x 1/2" x 1/2")	1/2"	1	50	1/2"	50	1	1/2"	1	1	1/2"	1

COMPUTATION OF MAIN FEEDER LINE

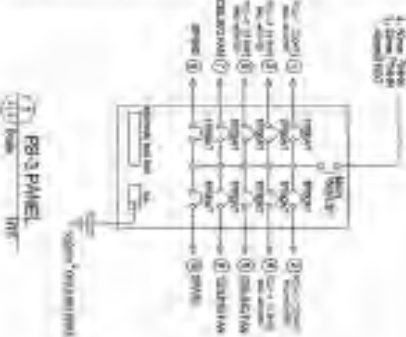
1. Material & Labor

2. Cost of Work

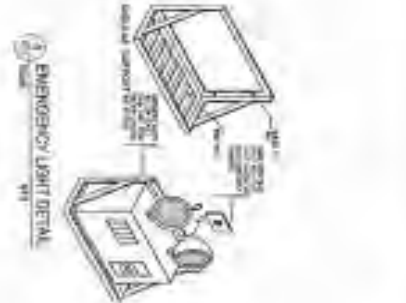
3. Total Cost



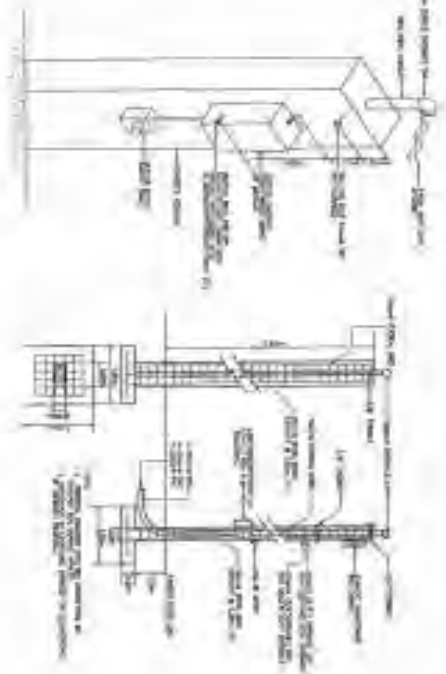
1. SINGLE LINE FIBER DIAGRAM



2. FB-3 PANEL

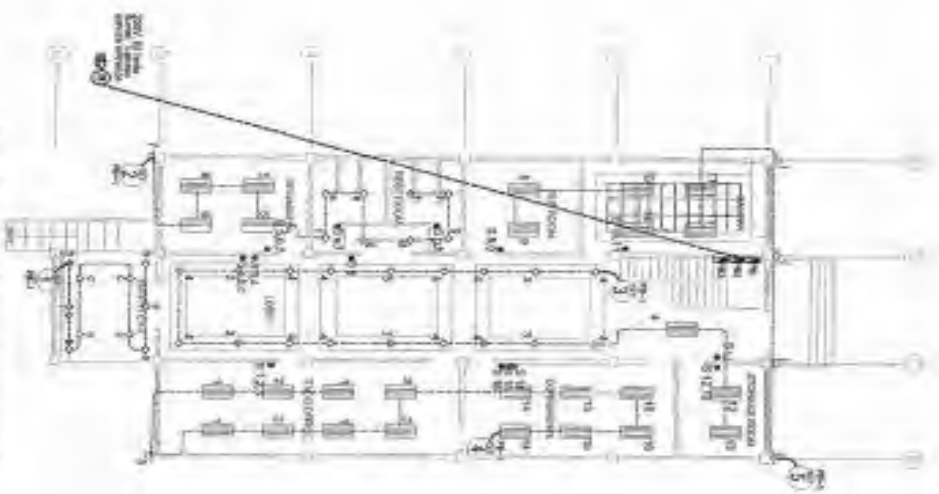


3. EMERGENCY LIGHT DETAIL

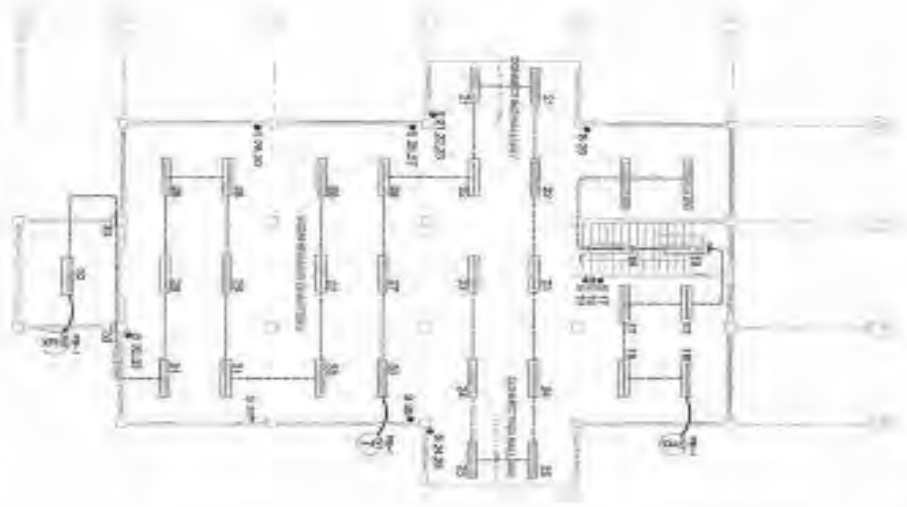


4. DETAIL OF CONCRETE PEDISTAL

Prepared by: <i>[Signature]</i>	Checked by: <i>[Signature]</i>	Approved by: <i>[Signature]</i>	Project Title: CONSTRUCTION OF MAIN FEEDER LINE (CONCRETE PEDISTAL)	Scale: As Shown	Date: 21/3
Project No.:	Client Name: PHILIPINE MERCHANT MARINE CORPORATION	Project Location: NEWA 1 PHASE HOUSE WITH GROUND TERMINAL	Project Manager: <i>[Signature]</i>	Project Engineer: <i>[Signature]</i>	Project Designer: <i>[Signature]</i>



GROUND FLOOR LIGHTING LAYOUT
Scale: 1:200



SECOND FLOOR LIGHTING LAYOUT
Scale: 1:100

LEGEND

-  RING LED LIGHT
-  CEILING PANEL
-  FLOOR MOUNTED LIGHT
-  SMOKE DETECTOR
-  CENTRAL AIR SYSTEM
-  1M LED ACUB LED LIGHT
-  4' LED SIALE LED LIGHT
-  2'-20W LED TO BALL LIGHT
-  1'-20W LED TO BALL LIGHT
-  1'-10W LED TO BALL LIGHT
-  EMERGENCY LIGHT (LED SPEC STANDBY)
-  5-bay 1-bay SWITCH
-  5-bay 2-bay SWITCH
-  8-bay 1-bay SWITCH
-  3-bay 2-bay SWITCH
-  PANEL BOARD
-  ELECTRIC PANEL

PHILIPPINE MERCHANT MARINE ACADEMY
 1201 ADELPHI DRIVE, DIVISORIA, MANILA

PROJECT NAME: **GROUND FLOOR LIGHTING LAYOUT**
 PROJECT NO: **2022-001**

DESIGNED BY: **[Signature]**
 CHECKED BY: **[Signature]**
 APPROVED BY: **[Signature]**

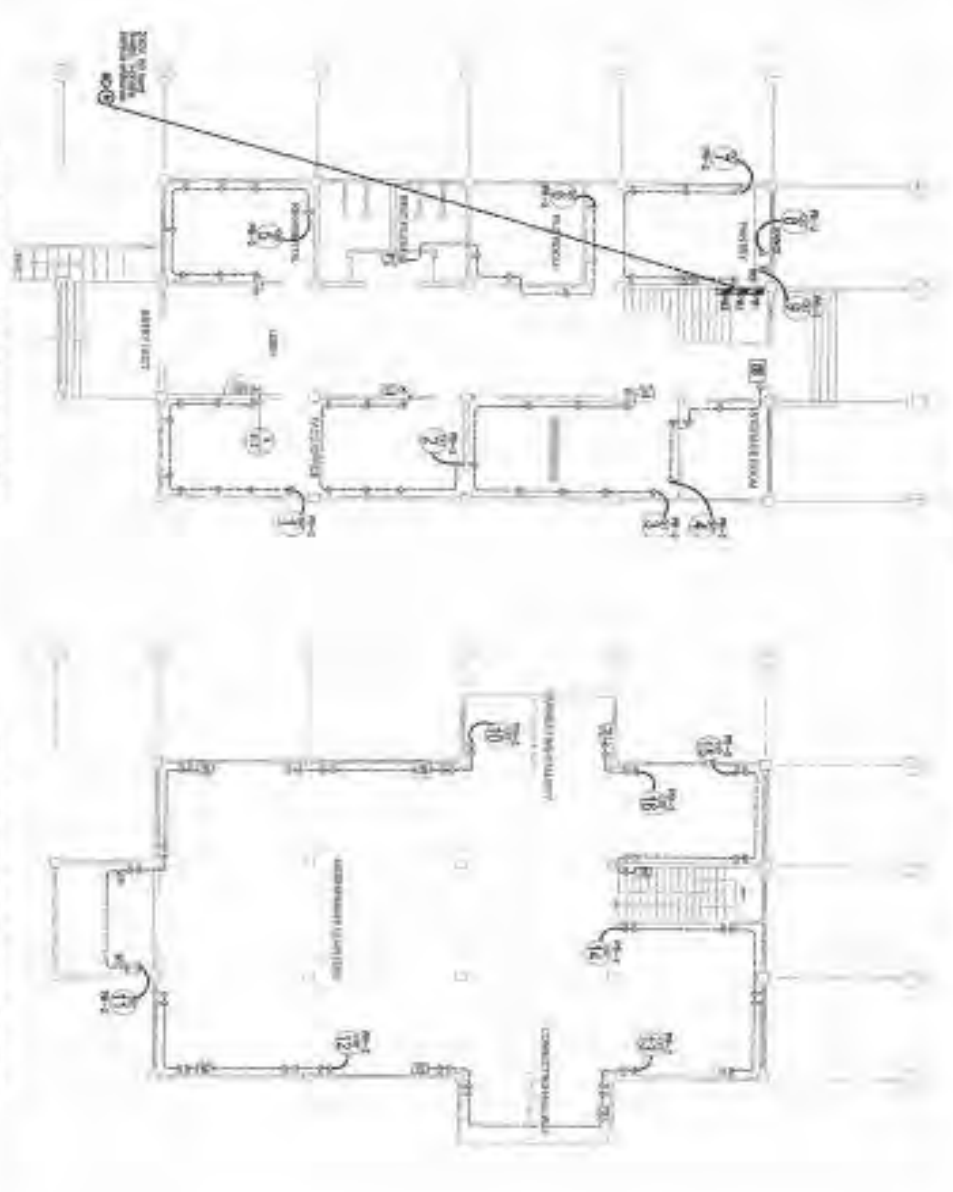
DATE: **10/25/2022**

SCALE: **1:200**

PROJECT LOCATION: **1201 ADELPHI DRIVE, DIVISORIA, MANILA**

PROJECT STATUS: **PROJECTION & REVISION**

NO. REV. DATE	REVISION
1. 10/25/2022	ISSUE FOR REVIEW



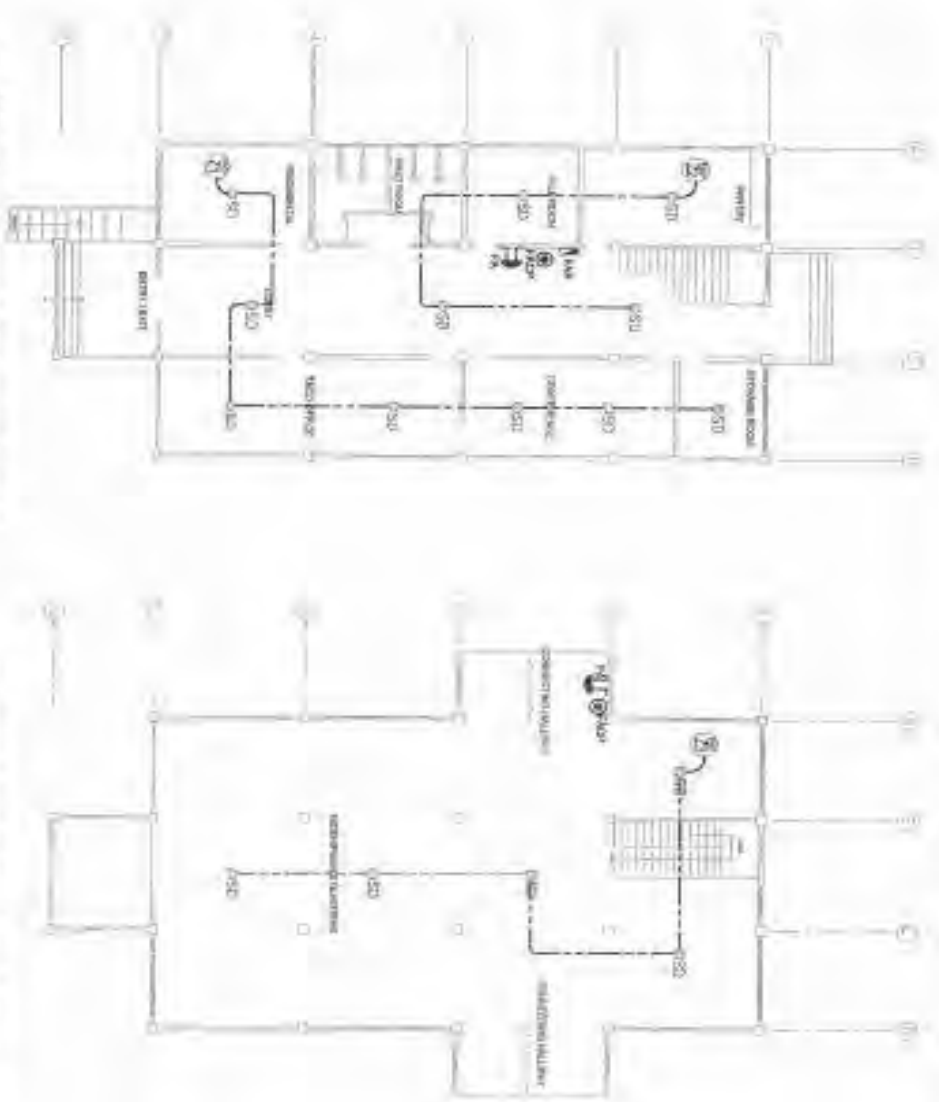
1 GROUND FLOOR POWER LAYOUT
1:100

2 SECOND FLOOR POWER LAYOUT
1:100

LEGEND

	POWER OUTLET
	POWER SWITCH
	FLOOR MOUNTED POWER OUTLET
	SMOKE DETECTOR
	CEILING FIRE ALARM
	FIRE ALARM PULL STATION
	FIRE ALARM HORN
	FIRE ALARM STROBE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM NOTIFICATION APPLIANCE (FNA)
	FIRE ALARM CONTROL PANEL (FACP)
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA
	FIRE ALARM CONTROL PANEL (FACP) WITH BATTERY AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA AND FNA

Professional Engineering Experience	Professional Engineering License	Professional Engineering Registration	Professional Engineering Seal	Professional Engineering Title	Professional Engineering Description	Professional Engineering Date	Professional Engineering Status	Professional Engineering Remarks
<p>PHILIPPINE MERCHANT MARINE ACADEMY</p> <p>Project No. _____</p> <p>Project Name _____</p> <p>Project Location _____</p> <p>Project Status _____</p> <p>Project Date _____</p> <p>Project Description _____</p> <p>Project Remarks _____</p>								
<p>NOTE: VERIFY DIMENSIONS ON SITE</p>								



1 GROUND FLOOR FIRE ALARM SYSTEM LAYOUT
Scale: 1/30

2 SECOND FLOOR FIRE ALARM SYSTEM LAYOUT
Scale: 1/30

LEGEND

- POWER DETECT
- WIRELESS PSEUDO
- POWER DETECT
- FLOOR MOUNTED
- POWER MOUNT
- COLOR NEW SYMBOL
- 90 LIT BULB DET
- 0 FUSIBLE W/ CONTR
- 2-30W LED TR BULB
- W/ SWITCH
- 4-ROW LED TR GULL
- W/ SWITCH
- 1-ROW LED TR GULL
- W/ SWITCH
- DISCONNECT (W/ 1000 AMP STRAP)
- 8 AMP 3 GANG SWITCH
- 5 AMP 2 GANG SWITCH
- 8A 1 GANG SWITCH
- 8A 2 GANG SWITCH
- 8A 3 GANG SWITCH
- 8A 4 GANG SWITCH
- 8A 5 GANG SWITCH
- 8A 6 GANG SWITCH
- 8A 7 GANG SWITCH
- 8A 8 GANG SWITCH
- 8A 9 GANG SWITCH
- 8A 10 GANG SWITCH
- 8A 11 GANG SWITCH
- 8A 12 GANG SWITCH
- 8A 13 GANG SWITCH
- 8A 14 GANG SWITCH
- 8A 15 GANG SWITCH
- 8A 16 GANG SWITCH
- 8A 17 GANG SWITCH
- 8A 18 GANG SWITCH
- 8A 19 GANG SWITCH
- 8A 20 GANG SWITCH
- 8A 21 GANG SWITCH
- 8A 22 GANG SWITCH
- 8A 23 GANG SWITCH
- 8A 24 GANG SWITCH
- 8A 25 GANG SWITCH
- 8A 26 GANG SWITCH
- 8A 27 GANG SWITCH
- 8A 28 GANG SWITCH
- 8A 29 GANG SWITCH
- 8A 30 GANG SWITCH
- 8A 31 GANG SWITCH
- 8A 32 GANG SWITCH
- 8A 33 GANG SWITCH
- 8A 34 GANG SWITCH
- 8A 35 GANG SWITCH
- 8A 36 GANG SWITCH
- 8A 37 GANG SWITCH
- 8A 38 GANG SWITCH
- 8A 39 GANG SWITCH
- 8A 40 GANG SWITCH
- 8A 41 GANG SWITCH
- 8A 42 GANG SWITCH
- 8A 43 GANG SWITCH
- 8A 44 GANG SWITCH
- 8A 45 GANG SWITCH
- 8A 46 GANG SWITCH
- 8A 47 GANG SWITCH
- 8A 48 GANG SWITCH
- 8A 49 GANG SWITCH
- 8A 50 GANG SWITCH
- 8A 51 GANG SWITCH
- 8A 52 GANG SWITCH
- 8A 53 GANG SWITCH
- 8A 54 GANG SWITCH
- 8A 55 GANG SWITCH
- 8A 56 GANG SWITCH
- 8A 57 GANG SWITCH
- 8A 58 GANG SWITCH
- 8A 59 GANG SWITCH
- 8A 60 GANG SWITCH
- 8A 61 GANG SWITCH
- 8A 62 GANG SWITCH
- 8A 63 GANG SWITCH
- 8A 64 GANG SWITCH
- 8A 65 GANG SWITCH
- 8A 66 GANG SWITCH
- 8A 67 GANG SWITCH
- 8A 68 GANG SWITCH
- 8A 69 GANG SWITCH
- 8A 70 GANG SWITCH
- 8A 71 GANG SWITCH
- 8A 72 GANG SWITCH
- 8A 73 GANG SWITCH
- 8A 74 GANG SWITCH
- 8A 75 GANG SWITCH
- 8A 76 GANG SWITCH
- 8A 77 GANG SWITCH
- 8A 78 GANG SWITCH
- 8A 79 GANG SWITCH
- 8A 80 GANG SWITCH
- 8A 81 GANG SWITCH
- 8A 82 GANG SWITCH
- 8A 83 GANG SWITCH
- 8A 84 GANG SWITCH
- 8A 85 GANG SWITCH
- 8A 86 GANG SWITCH
- 8A 87 GANG SWITCH
- 8A 88 GANG SWITCH
- 8A 89 GANG SWITCH
- 8A 90 GANG SWITCH
- 8A 91 GANG SWITCH
- 8A 92 GANG SWITCH
- 8A 93 GANG SWITCH
- 8A 94 GANG SWITCH
- 8A 95 GANG SWITCH
- 8A 96 GANG SWITCH
- 8A 97 GANG SWITCH
- 8A 98 GANG SWITCH
- 8A 99 GANG SWITCH
- 8A 100 GANG SWITCH

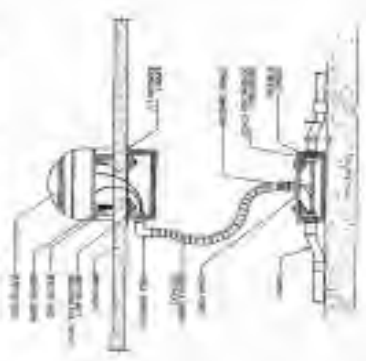
PHILIPPINE MERCHANT MARINE ACADEMY

CONSTRUCTION OF WIRELESS DETECTION SYSTEMS

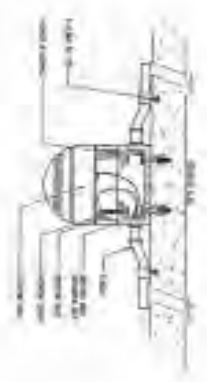
DATE: 07/23

SCALE: 1/30

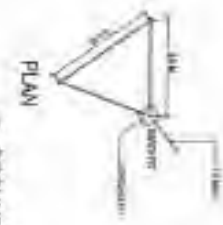
NOTE: VERIFY DIMENSIONS ON SITE



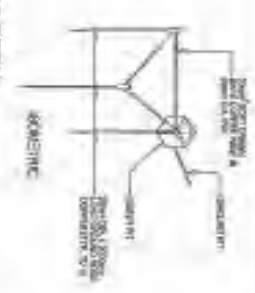
① SMOKE HEAT DETECTOR MOUNTING DETAIL ON DROP CEILING W/ CONDUITS EMBEDDED NTS



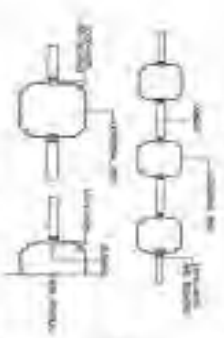
② SMOKE HEAT DETECTOR MOUNTING DETAIL WITH CONDUITS EXPOSED NTS



③ GROUNDING DETAIL NTS



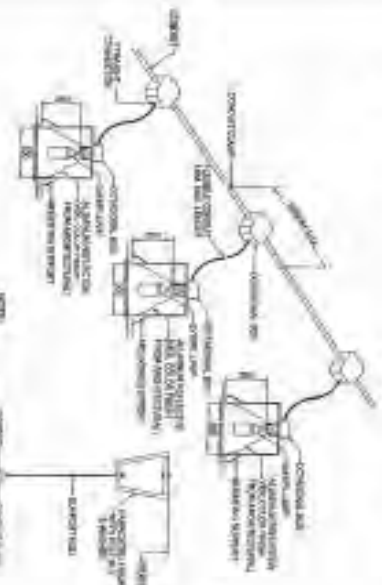
ISOMETRIC



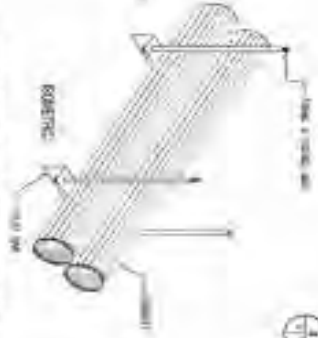
④ CONDUIT & UTILITY BOX CONNECTION DETAIL NTS



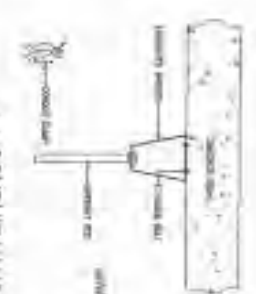
ISOMETRIC



⑤ TYPICAL CONDUIT RUN DETAIL NTS



⑥ CONDUIT SUPPORT DETAIL NTS



⑦ CONDUIT HANGAR DETAIL NTS

NOTE - VISIT/IT
INSTRUCTIONS ON SITE

PHILIPPINE MERCHANT MARINE ACADEMY 10th Floor, 10th Avenue, Alabang, Muntinlupa City, Metro Manila 02-8863-1000		Prepared by: 	Checked by: 	Approved by: 	Project Title: Installation of Smoke Heat Detectors in the Building	Date Issued: 10/26/2023
Date: 10/26/23	Rev. No.: 1-7	Scale: As Shown	Date: 10/26/23	Scale: As Shown	Date: 10/26/23	Scale: As Shown

Section VIII. Bill of Quantities



Republic of the Philippines
Philippine Merchant Marine Academy
 San Narciso, Zambales

Name of Project:	Construction of Midshipman's Dormitory Quarters "LOT A"	Date:	June 11, 2021
Location:	PMMA Complex, San Narciso, Zambales	Road/Embank. Width:	
Appropriation:		Pavement Width:	
Source of Fund:		Bridge/Other Structures:	
Classification:		Type of Structures:	
Limits:		Type of Superstructure:	
Floor Area:	797.00 sq. m.	No. of /Span/Storey:	Two (2) Storey
		No. of Pier/No. of Abutts:	
		Starting Time:	Upon Approval
		No. of Days to Complete:	210 cal. days

Description of Work To Be Done	% of Total	EQUIPMENT		
		Description	Needed	Available
GENERAL REQUIREMENTS	1.56%	One-Bagger Concrete M	1	
EARTHWORKS AND REMOVAL OF STRUCTU	2.12%	Concrete Vibrator	1	
PLAIN AND REINFORCED CONCRETE	34.89%	Welding Machine	1	
MASONRY WORKS	4.44%	Oxy-Acetylene Cutting	1	
FABRICATED MATERIALS	5.35%	Bar Cutter	1	
FINISHING WORKS	14.86%	Bar Bender	1	
ROOF FRAMING AND ROOFING WORKS	10.52%	Chipping Hammer	1	
PAINTING WORKS	13.71%	Truck Mounted Crane	1	
PLUMBING/SANITARY WORKS	3.23%			
ELECTRICAL WORKS	3.59%			
OTHER FINISHES	5.74%			
TOTAL	100.00%			

Spec's Item No.	Description	Unit	Quantity	Estimated Cost of Project	
				Unit Cost	Total Cost
I	GENERAL REQUIREMENTS				
B.5	Project Billboard / Signboard	ea.	1.00		
B.7	Const. Safety and Health Program	l.s.	1.00		
B.9	Mobilization/Demobilization	l.s.	1.00		
				P	-
II	EARTHWORKS AND REMOVAL OF STRUCTURES				
801(1)	Removal of Structures and Obstructions	l.s.	1.00		
803 (1)a	Structure Excavation (Common Soil)	cu.m.	248.75		
804 (4)	Gravel Fill	cu.m.	53.79		
804 (1)a	Embankment	cu.m.	147.40		
				P	-
III	PLAIN AND REINFORCED CONCRETE				
900	Reinforced Concrete, 3000 psi, Job Mix	cu.m.	312.38		
902(1)a1	Reinforced Steel of Reinforced Concrete Structures	kg.	52,124.72		
1033(1)	Metal Deck Panel	ln.m.	384.80		
903(2)	Formworks and Falseworks	l.s.	1.00		
				P	-
IV	MASONRY WORKS				
	Masonry Works				
1046(2)a1	100mm CHB Non Load Bearing(including Reinforcing Steel)	sq.m.	58.68		
1046(2)a2	150mm CHB Non Load Bearing(including Reinforcing Steel)	sq.m.	772.27		
				P	-
V	FABRICATED MATERIALS				
1010(4)	Doors	l.s.	1.00		
1009(1)a	Windows	l.s.	1.00		
1004(2)a	Locksets	sets	18.00		
1004(2)g	Hinges	sets	59.00		
				P	-

VI FINISHING WORKS					
1021(1)b	Colored Cement Floor Finish	sq.m.	349.80		
1024(a)	Pea Gravel Washout Finish	sq.m.	8.82		
1027(1)	Plain Cement Plaster Finish	sq.m.	1,661.91		
1003(1)a1	Fiber Cement Board Ceiling on Metal Frame	sq.m.	576.02		
1003(1)a2	Metal Spandrel Ceiling	sq.m.	75.40		
1003(1)a3	Acoustic Ceiling Panels on Powder Coated Alum. T-Runners	sq.m.	153.53		
1016(1)a	Waterproofing	sq.m.	150.72		
1018(1)	Glazed Tiles and Trims	sq.m.	423.65		
1018(2)	Unglazed Tiles	sq.m.	165.95		
1053(3)a	Railings and Grilles	l.s.	1.00		
					P -
VII ROOF FRAMING AND ROOFING WORKS					
1047(6)	Metal Structure Accessories (Plates)	kg.	646.29		
1047(2)a	Structural Steel, Trusses	kgs.	11,336.68		
1047(2)b	Structural Steel Purlins	kgs.	2,896.65		
1047(7)b	Metal Structure Accessories (Sagrods)	kgs.	191.76		
1014(1)b2	Prepainted Metal Sheets (Rib-Type, Long Span)	sq.m.	528.98		
1013(2)a	Fabricated Metal Roofing Accessory (Ridge Roll)	m.	61.20		
1013(2)b	Fabricated Metal Roofing Accessory (Flashing)	m.	59.00		
1013(2)c	Fabricated Metal Roofing Accessory (Gutter)	m.	45.00		
					P -
VIII PAINTING WORKS					
1032 (1)a	Masonry / Concrete Painting / Repainting (Battalion Exterior)	sq.m.	4,430.15		
1032 (1)b	Wood Painting	sq.m.	173.48		
1032 (1)c	Metal Painting (Including Roof Repainting)	sq.m.	3,064.41		
					P -
IX PLUMBING/SANITARY WORKS					
1001(8)	Sewer Line Works	l.s.	1.00		
1002(6)	Cold Water Line Works	l.s.	1.00		
1001(9)	Downspout/Storm Drain	l.s.	1.00		
1002(5)	Sanitary/Plumbing Fixtures	l.s.	1.00		
					P -
X ELECTRICAL WORKS					
1100(19)	Conduits, Boxes and Fittings	l.s.	1.00		
1100(18)	Wires and Wiring Devices	l.s.	1.00		
1102(21)	Panel Board	l.s.	1.00		
1103(1)	Lighting Fixtures	l.s.	1.00		
					P -
XI OTHER FINISHES					
1200	Air-Conditioning System	l.s.	1.00		
1208	Fire Alarm System	l.s.	1.00		
SPL-1	Pantry Cabinet	l.s.	1.00		
SPL-2	Reinforced Concrete Sculpture	units	2.00		
					P -
TOTAL BID AMOUNT					P

Prepared by:



Republic of the Philippines
Philippine Merchant Marine Academy
 San Narciso, Zambales

Name of Project:	Construction of Midshipman's Dormitory Quarters "LOT B"	Date:	June 11, 2021
Location:	PMMA Complex, San Narciso, Zambales	Road/Embank. Width:	
Appropriation:		Pavement Width:	
Source of Fund:		Bridge/Other Structures:	
Classification:		Type of Structures:	
Limits:		Type of Superstructure:	
Floor Area:	797.00 sq.m.	No. of /Span/Storey:	Two (2) Storey
		No. of Pier/No. of Abutts:	
		Starting Time:	Upon Approval
		No. of Days to Complete:	210 cal. days

Description of Work To Be Done	% of Total	EQUIPMENT		
		Description	Needed	Available
Mobilization / Demobilization	0.98%			
Office Equipment and Furniture	93.20%			
PMMA Insignia	5.82%			
TOTAL	100.00%			

Spec's Item No.	Description	Unit	Quantity	Estimated Cost of Project	
				Unit Cost	Total Cost
B.9	Mobilization / Demobilization	l.s.	1.00		
SPL-1	Office Equipment and Furniture	l.s.	1.00		
SPL-2	PMMA Insignia	l.s.	1.00		
TOTAL AMOUNT BID					P

Prepared by:

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

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

Technical Documents

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

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

BIDDING FORMS

**Contract Agreement Form for the
Procurement of Infrastructure Projects (Revised)**

*[not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the
Notice of Award]*

CONTRACT AGREEMENT

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

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, *viz.*:
 - a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any;
 - b. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;

- c. Performance Security;
 - d. Notice of Award of Contract and the Bidder's conforme thereto; and
 - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

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

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Name of Supplier]

[Insert Procuring Entity]

Acknowledgment

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

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)

CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

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

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

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

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

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

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

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

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

blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

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

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

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

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the*

Project].

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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

Bid Securing Declaration Form

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

REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

BID SECURING DECLARATION

Project Identification No.: *[Insert number]*

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

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____

Project Identification No. : _____

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

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

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

¹ currently based on GPPB Resolution No. 09-2020

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

Name: _____

Legal Capacity: _____

Signature: _____

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

Date: _____

STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

This is to certify that _____ (company) _____ has the following completed contracts for the past Ten (10) years.

Date of the Contract	Contracting Party	Name of Contract	Nature of Work	Amount of Contract	Date of Delivery/ End-user's Acceptance	Date of Official Receipt	

_____ Name and Signature of Authorized Representative	_____ Date
---	---------------

*Instructions:

- a) Cut-off date as of:
 - (i) **Up to the day before the deadline of** submission of bids.
- b) **In the column under "Dates", indicate the dates of Delivery/ End-user's Acceptance and Official Receipt.**
- c) **"Name of Contract". Indicate here the Nature/ Scope of the Contract for the Procuring Entity to determine the relevance of the entry with the Procurement at hand. Example: "Supply and Delivery of Generator Set"**

Note:

Please attached the following supporting documents:

- a. *End-user/s Letter of Acceptance*
- b. *Notice to Proceed*
- c. *Letter of Award*
- d. *Contract/Purchase Order*
- e. *Delivery Receipt/Sales Invoice*

STATEMENT OF ONGOING GOVERNMENT& PRIVATE CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED							
Business Name: _____							
Business Address: _____							
Date of the Contract	Contracting Party	Name of Contract	Nature of Work	Amount of Contract	a. Date Awarded b. Date Started c. Date of Completion	% of Accomplishment	Value of Outstanding Works/Uncompleted Portion
GOVERNMENT							
PRIVATE							
_____ Name and Signature of Authorized Representative					_____ Total Cost		

*Instructions:

- a) State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:
 - i. **The day before the deadline of** submission of bids.
- b) If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
- c) The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC) in case an NFCC is submitted as an eligibility document.
- d) **“Name of Contract”**. Indicate here the Nature/ Scope of the Contract for easier tracking of the entries/ representations

Note: Please attached the following supporting documents:

- a. *Notice to Proceed*
- b. *Letter of Award*
- c. *Contract*

FINANCIAL DOCUMENTS FOR ELIGIBILITY CHECK

Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20_____
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:
 NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.

NFCC = P _____

Or

Commitment from a licensed bank to extend to it a credit line if awarded the contract or a cash deposit certificate in the amount of at least 10% of the proposed project to bid.

Name of Bank: _____ Amount: _____

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding year and the cash deposit certificate or certificate of commitment from a licensed bank to extend a credit line.

Submitted by:

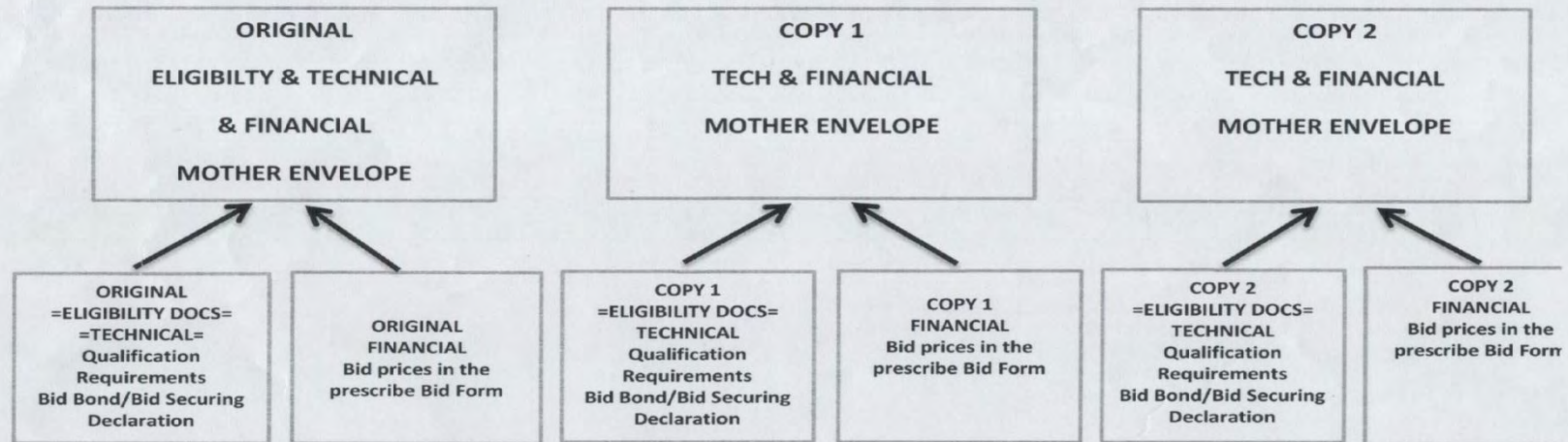
Name of Supplier/Distributor/Manufacturer

Signature of Authorized Representative
 Date: _____

NOTE:

If Partnership or Joint Venture, each Partner or Member Firm of Joint venture shall submit the above requirements.

SAMPLE ENVELOPE TECHNICAL & FINANCIAL



Note: All envelope must be sealed and signed.

