



Republic of the Philippines
Department of Education
REGION I
SCHOOLS DIVISION OF VIGAN CITY

Invitation to Bid for the Construction of 1 Storey Library Hub Building at Ayusan-Paoa Elementary School (22.5m x 9.50m)

1. The *Schools Division of Vigan City*, through the *CY 2024 Basic Educational Facilities Fund (BEFF)-Library Hub* intends to apply the sum of *Seven Million Six Hundred Seventy Four Thousand Three Hundred Four Pesos and Fifteen Centavos (7,674,304.15)* being the Approved Budget for the Contract (ABC) to payments under the contract for *Construction of 1 Storey Library Hub Building at Ayusan-Paoa Elementary School (22.5m x 9.50m)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Schools Division of Vigan City* now invites bids for the above Procurement Project. Completion of the Works requires *One Hundred Fifty (150) Calendar Days (CDs)*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from the *Schools Division of Vigan City* through the Head of the BAC Secretariat in the address given below from *Mondays to Fridays except holidays, 8:00 a.m. to 5:00 p.m.*
5. A complete set of Bidding Documents may be acquired by interested bidders from *October 22-November 11, 2024* from the aforementioned office and may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS), provided that bidders shall pay the applicable fee of *Ten Thousand Pesos (₱10,000.00)* for the Bidding Documents, not later than the submission of their bids, pursuant to the latest Guidelines issued by the GPPB.
6. The *Schools Division of Vigan City* will hold a Pre-Bid Conference¹ on *October 29, 2024, 1 p.m.* at the *SDO-Vigan City Conference Hall* and video conferencing via *MS Teams* using this link: <https://tinyurl.com/SDOViganCity2024>, which shall be open to prospective bidders.

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

7. Interested bidders shall inform the **SDO-Vigan City BAC**, through its **Secretariat**, either by sending an email at **vigan.city@deped.gov.ph** or communicate with the latter through any mode of communication, of their intention to participate in the Pre-Bid Conference at least two (2) days prior to the date of the conference.
8. Bids must be duly received by the BAC Secretariat through (i) manual submission, (ii) online or electronic submission as indicated below, or (iii) both on or before **November 11, 2024, 12:00 noon. 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 **IB** Clause 16.
10. Bid opening shall be on **November 11, 2024, 1:00 p.m.** at the **SDO-Vigan City Conference Hall** and through video conferencing via **MS Teams** (<https://tinyurl.com/SDOViganCity2024>). Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
11. The **Schools Division of Vigan City** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

MARIE CHRISTINE L. NATIVIDAD

Head, BAC Secretariat

DepEd, Schools Division of Vigan City

Mena Crisologo St. corner Rivero St., Brgy. IX, Vigan City, Ilocos Sur

Tel. No. 722-2023 Telefax No. 632-0533

vigan.city@deped.gov.ph


ANNIE D. PAGDILAO, Ed.D, CESQ VI
BAC Chairman

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UPS IN PERCENT		TOTAL MARK-UP		VAT (5%)	TOTAL INDIRECT COST	ADJUSTED TOTAL COST	ADJUSTED UNIT COST
					OCM	PROFIT	%	VALUE				
6.0000	Fabricated Materials and Hardware											
6 (d)	Wooden Panel Door	9.00	set									
6 (e)	Analog Window (Awning Type)	11.00	set									
7.0000	Steel Works											
7 (c)	Steel Works - Railings and Signages	14.00	pc									
7 (d)	Structural Steel Purlins	5,291.61	kg									
7 (e)	Metal Structure Accessories (Steel Plates)	928.00	pc									
8.0000	Roofing Works											
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)	244.72	sq.m									
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)	100.04	m									
9.0000	Ceiling and Carpentry Works											
9 (f)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood on Metal Frame Ceiling	282.30	sq.m									
10.0000	Electrical Works											
10 (a)	Conduit, Boxes and Fitting	1.00	Ls									
10 (b)	Wires and Wiring Devices	1.00	Ls									
10 (c)	Lighting Fixture/ Fixture	1.00	Ls									
10 (d)	Panel Board and Cabinets	1.00	Ls									
11.0000	Plumbing Works											
11 (a)	Waterline Works	1.00	Ls									
12.0000	Sanitary Works											
12 (a)	Sewer Line Works	1.00	Ls									
12 (b)	Sanitary/ Plumbing Fixtures	1.00	Ls									
13.0000	Painting Works											
13 (a)	Masonry Painting	620.58	sq.m									
13 (b)	Wooden Painting	282.30	sq.m									
13 (c)	Metal Painting	150.00	sq.m									
15.0000	Waterproofing											
15 (a)	Cement Based Waterproofing	362.05	sq.m									
14.0000	Tile Works											
14 (a)	Glazed Tiles and Trims	52.89	sq.m									
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles	228.51	sq.m									
	TOTAL CONSTRUCTION COST											

Prepared by:

CONTRACTOR'S NAME AND SIGNATURE



DEPARTMENT OF EDUCATION
 EDUCATION FACILITIES DIVISION
 DepEd Complex, Meralco Avenue, Pasig City



PROGRAM OF WORKS BILL OF QUANTITIES

CY 2024 LIBRARY HUB - VIGAN CITY - 001

School : AYUSAN-PAOA ELEMENTARY SCHOOL	Date: October 2024
School I.D 100783	Budget Allocation:
Region 1	Engineering and Administrative Overhead: 0.00
Division : VIGAN CITY	Approved Budget for the Contract:
Project Title :	Completion Period: 150 CALENDAR DAYS
PROPOSED CONSTRUCTION OF ONE (1) STOREY - LIBRARY HUB BUILDING	Minimum Required Manpower:
	Civil Engineer Electrician Master Plumber Safety Officer
	Electrical Engineer Welder Carpenter Helper
	General Foreman Mason Painter
Location : VIGAN CITY, ILOCOS SUR	Minimum Required Equipment:
	Dumptruck Bar Bender Plate Compactor Concrete Vibrator
	Bar Cutter Cutting Outfit Bar Cutter Power Tools
	Hand Tools Welding Machine Concrete Vibrator PPR Machine
	One-Bagger Mixer

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
(1)	(2)	(3)	(4)	(5)	(6)	(7) (6) / (5)	(8) (9) / (5)	(9)
A.	Facilities for the Engineer							
A.1	Temporary Facilities		Month	5.00				
B.	Other General Requirements							
B.1	Fire Safety Inspection Certificate (FSIC)		lot	1.00				
SPL 1	Project Billboard		Each	1.00				
SPL 2	Construction Safety and Health		Month	5.00				
C.	Mobilization and Demobilization							
C.1	Mobilization and Demobilization		Ls	1.00				

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
	PROPOSED CONSTRUCTION OF ONE (1) STOREY - LIBRARY HUB BUILDING							
1.0000	Earthworks							
1 (a)	Clearing and Grubbing		sq.m	213.75				
1 (b)	Structural Excavation		cu m	107.22				
1 (c)	Backfilling of Excavated Materials		cu m	42.66				
1 (d)	Gravel Bedding G-1		cu m	33.45				
1 (e)	Embankment		cu m	74.80				
	Termite Control Works							
1 (f)	Soil Poisoning		L	15.00				
2.0000	Concreting Works (3000 psi)							
2 (b)	Structural Concrete (Footing and Slab on Fill)		cu m	136.89				
3.0000	Rebar Works							
3 (a)	Reinforcin Steel Bars		kg	14,098.12				
4.0000	Formworks							
4 (a)	Installation and Removal of Formworks		sq.m	679.67				
5.0000	Masonry Works							
5 (b)	Masonry (100 mm CHB)		sq.m	87.79				
5 (c)	Masonry (150 mm CHB)		sq.m	207.72				
	Finishing Works							
5 (d)	Plain Cement Plaster Finish		sq.m	620.58				
6.0000	Fabricated Materials and Hardware							
6 (d)	Wooden Panel Door		set	9.00				
	Analok Window (Awning Type)		set	11.00				
7.0000	Steel Works							
7 (c)	Steel Works - Railings and Signages		pc	14.00				
7 (d)	Structural Steel Purlins		kg	5,291.61				
7 (e)	Metal Structure Accessories (Steel Plates)		pc	928.00				
8.0000	Roofing Works							
8 (b)	Pre - painted Metal Sheets (Corrugated, Short Span/ Long Span, below 0.427 BMT/ above 0.427 BMT)		sq.m	244.72				
8 (e)	Fabricated Metal Roofing Accessory (Ridge/ Hip Rolls/ Flashing/ Counter Flashing/ Valley Roll)		m	100.04				

Item No.	Description	% of Total	Unit	Quantity	Direct Cost		Adjusted Unit Cost	Adjusted Total Cost
					Total Cost	Unit Cost		
9.0000	Ceiling and Carpentry Works							
9 (f)	4.5mm Fiber Cement Board/ 4.5mm Marine Plywood/ 6.0mm Marine Plywood/ 6.0 mm Ordinary Plywood on Metal Frame Ceiling		sq.m	282.30				
10.0000	Electrical Works							
10 (a)	Conduit, Boxes and Fitting		Ls	1.00				
10 (b)	Wires and Wiring Devices		Ls	1.00				
10 (c)	Lighting Fixture/ Fixture		Ls	1.00				
10 (d)	Panel Board and Cabinets		Ls	1.00				
11.0000	Plumbing Works							
11 (a)	Waterline Works		Ls	1.00				
12.0000	Sanitary Works							
12 (a)	Sewer Line Works		Ls	1.00				
12 (b)	Sanitary/ Plumbing Fixtures		Ls	1.00				
13.0000	Painting Works							
13 (a)	Masonry Painting		sq.m	620.58				
13 (b)	Wooden Painting		sq.m	282.30				
13 (c)	Metal Painting		sq.m	150.00				
15.0000	Waterproofing							
	Cement Based Waterproofing		sq.m	362.05				
14.0000	Tile Works							
14 (a)	Glazed Tiles and Trims		sq.m	52.89				
14 (b)	Unglazed Tiles/ Granite Tiles/ Synthetic Granite Tiles		sq.m	228.51				
					Total Construction Cost			

Prepared by:

CONTRACTOR'S NAME AND SIGNATURE

PHILIPPINE BIDDING DOCUMENTS

**Procurement of
INFRASTRUCTURE
PROJECTS**

**CONSTRUCTION OF 1 STOREY LIBRARY HUB
BUILDING AT AYUSAN-PAOA ELEMENTARY
SCHOOL (22.5m x 9.50m)**

depedvigancity-2024-036

Government of the Republic of the Philippines

**Sixth Edition
July 2020**

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for admeasurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

BDS – Bid Data Sheet

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.

IB – Invitation to Bid

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])

ITB – Instruction to Bidder

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria.

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



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4. Interested bidders may obtain further information from the *Schools Division of Vigan City* through the Head of the BAC Secretariat in the address given below from *Mondays to Fridays except holidays, 8:00 a.m. to 5:00 p.m..*
5. A complete set of Bidding Documents may be acquired by interested bidders from *October 22-November 11, 2024* from the aforementioned office and may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS), provided that bidders shall pay the applicable fee of *Ten Thousand Pesos (P10,000.00)* for the Bidding Documents, not later than the submission of their bids, pursuant to the latest Guidelines issued by the GPPB.
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¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

7. Interested bidders shall inform the **SDO-Vigan City BAC**, through its **Secretariat**, either by sending an email at **vigan.city@deped.gov.ph** or communicate with the latter through any mode of communication, of their intention to participate in the Pre-Bid Conference at least two (2) days prior to the date of the conference.
8. Bids must be duly received by the BAC Secretariat through (i) manual submission, (ii) online or electronic submission as indicated below, or (iii) both on or before **November 11, 2024, 12:00 noon. 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 **IB** Clause 16.
10. Bid opening shall be on **November 11, 2024, 1:00 p.m.** at the **SDO-Vigan City Conference Hall** and through video conferencing via **MS Teams** (<https://tinyurl.com/SDOViganCity2024>). Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
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12. For further information, please refer to:

MARIE CHRISTINE L. NATIVIDAD

Head, BAC Secretariat

DepEd, Schools Division of Vigan City

Mena Crisologo St. corner Rivero St., Brgy. IX, Vigan City, Ilocos Sur

Tel. No. 722-2023 Telefax No. 632-0533

vigan.city@deped.gov.ph

ANNIE D. PAGDILAO, Ed.D, CESO VI
BAC Chairman

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, *Schools Division of Vigan City* invites Bids for the *Construction of 1 Storey Library Hub Building at Ayusan-Paoa Elementary School (22.5m x 9.50m)*, with Project Identification Number *depedvigancity-2024-036*.

The Procurement Project (referred to herein as “Project”) is for the construction of Works, as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *CY 2024 BEFF* in the amount of *Seven Million Six Hundred Seventy Four Thousand Three Hundred Four Pesos and Fifteen Centavos (7,674,304.15)*.

2.2. The source of funding is: *CY 2024 Basic Educational Facilities Fund (BEFF)-Library Hub*

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.
- (a) Duly licensed Filipino citizens/sole proprietorships;
 - (b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
 - (c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - (d) Cooperatives duly organized under the laws of the Philippines.
 - (e) Persons/entities forming themselves into a JV, i.e., a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract: Provided, however, that, in accordance with EO 65, s. 2018, Filipino ownership or interest of the joint venture concerned shall be at least sixty percent (60%): Provided, further, that joint ventures in which Filipino ownership or interest is less than sixty percent (60%) may be eligible where the structures to be built require the application of techniques and/or technologies which are not adequately possessed by a person/entity meeting the sixty percent (60%) Filipino ownership requirement: Provided, finally, that in the latter case, Filipino ownership or interest shall not be less than twenty five percent (25%). For this purpose, Filipino ownership or interest shall be based on the contributions of each of the members of the joint venture as specified in their JVA.
- 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 Bid Data Sheet (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. Bidders's Responsibilities

- 6.1. The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section IX. Bidding Forms as required in ITB Clause 12.1(b)(iii).
- 6.2. The Bidder is responsible for the following:

- (a) Having taken steps to carefully examine all of the Bidding Documents;
- (b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
- (c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;
- (d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin/s as provided under ITB Clause 10.4.
- (e) Ensuring that it is not “blacklisted” or barred from bidding by the GoP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;
- (f) Ensuring that 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;
- (g) Authorizing the HoPE or its duly authorized representative/s to verify all the documents submitted;
- (h) Ensuring that the signatory 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, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary’s Certificate, whichever is applicable;
- (i) Complying with the disclosure provision under Section 47 of RA 9184 and its IRR in relation to other provisions of RA 3019;
- (j) Complying with existing labor laws and standards, in the case of procurement of services. Moreover, bidder undertakes to:
 - (i) Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable.

In case there is a finding by the Procuring Entity or the DOLE of underpayment or non-payment of workers’ wage and wage-related benefits, bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of Republic Act No. 9184 without prejudice to the institution of appropriate actions under the Labor Code, as amended, and other social legislations.

- (ii) Comply with occupational safety and health standards and to correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, bidder undertakes to suspend contract implementation pending clearance to proceed from the DOLE Regional Office and to comply with Work Stoppage Order; and

(iii) Inform the workers of their conditions of work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or collective bargaining agreement; or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises; and

(k) Ensuring that it 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;

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

6.3. The Bidder, by the act of submitting its bid, shall be deemed to have inspected the site, determined the general characteristics of the contract works and the conditions for this Project and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

6.4. It shall be the sole responsibility of the prospective bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to this Project, including: (a) the location and the nature of the contract, project, or 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.

6.5. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity. However, the Procuring Entity shall ensure that all information in the Bidding Documents, including supplemental/bid bulletins issued are correct and consistent.

6.6. Before submitting their bids, the Bidders are deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect the contract in any way.

6.7. The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

6.8. The Bidder should note that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. 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.

8. 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 Subcontracting is allowed. The portions of Project and the maximum percentage allowed to be subcontracted are indicated in the **BDS**, which shall not exceed fifty percent (50%) of the contracted Works.

7.1. The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterion 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. 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.

9. 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 at **SDO-Vigan City Conference Hall** and through video conferencing via **MS Teams**, which shall be open to prospective bidders as indicated in paragraph 6 of the **IB**.

10. 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.

11. 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**.

12. 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.

13. 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.

14. 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.

15. 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 **Philippine Pesos**.

16. Bid Security

15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

15.2. The Bid and bid security shall be valid until **one hundred twenty (120) calendar days from the opening of bids**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

17. 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.

18. 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 8 of the **IB**.

19. 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 10 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.

20. 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.

21. 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**.

22. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

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

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

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

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

Bid Data Sheet

ITB Clause																																								
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <i>Construction of 1 Storey Library Hub Building at Ayusan-Paoa Elementary School (22.5 x 9.50m).</i>																																							
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10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Key Personnel</u></th> <th style="text-align: center;"><u>General Experience in civil works construction (no. of years)</u></th> <th style="text-align: center;"><u>Relevant Experience in same position required by this project (no. of years)</u></th> </tr> </thead> <tbody> <tr><td><i>General</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Foreman</i></td><td></td><td></td></tr> <tr><td><i>Carpenter</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Mason</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Electrician</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Welder</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Tinsmith</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Helper</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Civil Engineer</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Electrical Engineer</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Painter</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> <tr><td><i>Safety Officer</i></td><td style="text-align: center;">3</td><td style="text-align: center;">2</td></tr> </tbody> </table> <p><i>The General Experience means total years of civil works experience (of any nature of construction [and engineering consultancy services]). If a proposed key personnel is an employee of the bidder and working on another project during the bidding and implementation/construction of this project, the bidder shall submit a certification that: (1) the key personnel concerned shall be pulled-out from said on-going/another project once the bidder is awarded this project; or (2) the key personnel concerned shall be replaced with a personnel of equal or better qualifications, subject to the approval of the authorized Engineers of the Procuring Entity.</i></p>	<u>Key Personnel</u>	<u>General Experience in civil works construction (no. of years)</u>	<u>Relevant Experience in same position required by this project (no. of years)</u>	<i>General</i>	3	2	<i>Foreman</i>			<i>Carpenter</i>	3	2	<i>Mason</i>	3	2	<i>Electrician</i>	3	2	<i>Welder</i>	3	2	<i>Tinsmith</i>	3	2	<i>Helper</i>	3	2	<i>Civil Engineer</i>	3	2	<i>Electrical Engineer</i>	3	2	<i>Painter</i>	3	2	<i>Safety Officer</i>	3	2
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	<p>are located.</p> <p>The proof of ownership of equipment herein required are copies of current Official Receipts and Certificate of Registration of the equipment, which should be attached to the list of equipment in bidder's bid(s). In case of leased equipment, a lease contract shall be attached to the list of equipment submitted by the bidder. The lease equipment shall indicate that the equipment "is/are available during the entire construction of the project."</p> <p>All documents in support of the ownership of equipment committed by the bidder to this project (Certificate of Registration and current Official Receipt, if applicable) and other documents photocopied from the original shall be legibly readable; and shall be authenticated as needed during the post-qualification process.</p>
12	<i>No additional instruction</i>
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than ₱153,486.083, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>b. The amount of not less than ₱383,715.2075 if bid security is in Surety Bond.</p>
19.2	<i>No additional instruction</i>
20	<p>List of licenses and permits relevant to the Project:</p> <ul style="list-style-type: none"> • Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); • Registration Certificate (SEC, DTI, or CDA); • 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; • Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR); • Philippine Contractors Accreditation Board (PCAB) license and registration; and • Audited Financial Statements.
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.</p>

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

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

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
2	<i>No additional instruction.</i>
4.1	<i>No additional instruction.</i>
6	<i>No additional instruction.</i>
7.2	Permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years.
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <i>two (2) calendar days</i> of delivery of the Notice of Award.
11.2	<i>No additional instruction.</i>
13	The Contractor may request for an advance payment not to exceed 15% of the Contract Price.
14	<i>No additional instruction.</i>
15.1	The date by which operating and maintenance manuals are required is <i>upon submission of the request for final billing</i> . The date by which "as built" drawings are required is <i>upon submission of the request for final billing</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 35% of the amount of final billing.

Section VI. Specifications

Notes on Specifications

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

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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

Section VII. Drawings

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

Section VIII. Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately; and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
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.

Section X. Bidding Forms

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Bid Form

Date: _____

IB² N^o: _____

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

Address: *[insert address]*

We, the undersigned, declare that:

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

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

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

- (c) Our Bid shall be valid for a period of *[insert number]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: *[insert information]*;
- (f) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

² If ADB, JICA and WB funded projects, use IFB.

- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) **We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].**
- (k) **We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.**

Name: _____

In the capacity of: _____

Signed: _____

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

Date: _____

Form of 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 *[insert the amount in specified currency in numbers and words]* by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

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

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

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

Signed, sealed, delivered by _____ the _____ (for the Entity)

Signed, sealed, delivered by _____ the _____ (for the Contractor).

Binding Signature of Procuring Entity

Binding Signature of Contractor

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

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

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

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

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

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

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

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

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, accompanied by the duly notarized Special Power of Attorney, Board/Partnership Resolution, or Secretary's Certificate, whichever is applicable;

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

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

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

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

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

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

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

a) Carefully examine all of the Bidding Documents;

b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

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

Bidder's Representative/Authorized Signatory

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

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

* This form will not apply for WB funded projects.

Bid-Securing Declaration

(REPUBLIC OF THE PHILIPPINES)

CITY OF _____) S.S.

X-----X

Invitation to Bid *[Insert reference number]*

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

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

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

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

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

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

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ **until** _____

Roll of Attorneys No. _____

PTR No. __, [date issued], [place issued]

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PERSPECTIVE

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DETAIL OF SEPTIC VAULT (WITH REINFORCING BARS)

SANITARY

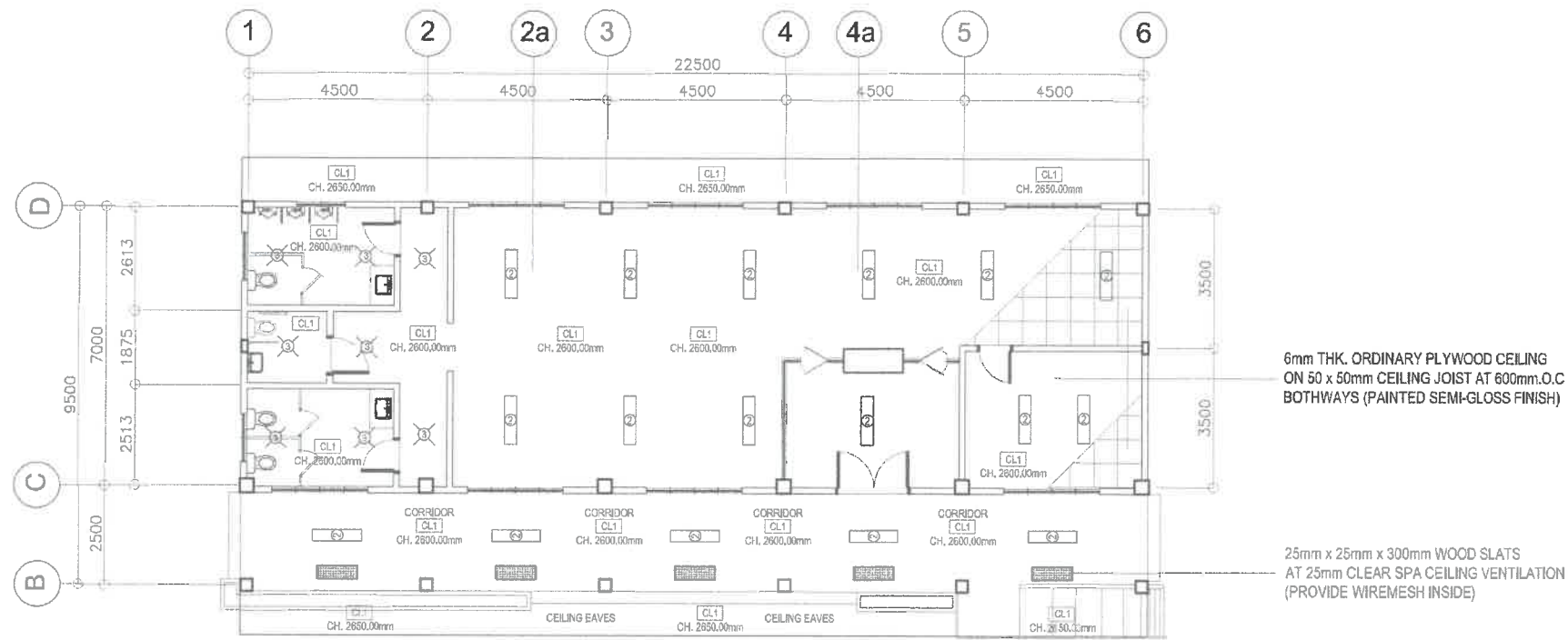
ELECTRICAL

- E-1 LIGHTING LAYOUT
POWER LAYOUT
- E-2 GENERAL NOTES
ELECTRICAL SYMBOLS
ELECTRICAL RISER DIAGRAM
SCHEDULE OF LOADS AND COMPUTATIONS
SCHEDULE OF LIGHTING FIXTURES AND LAMPS

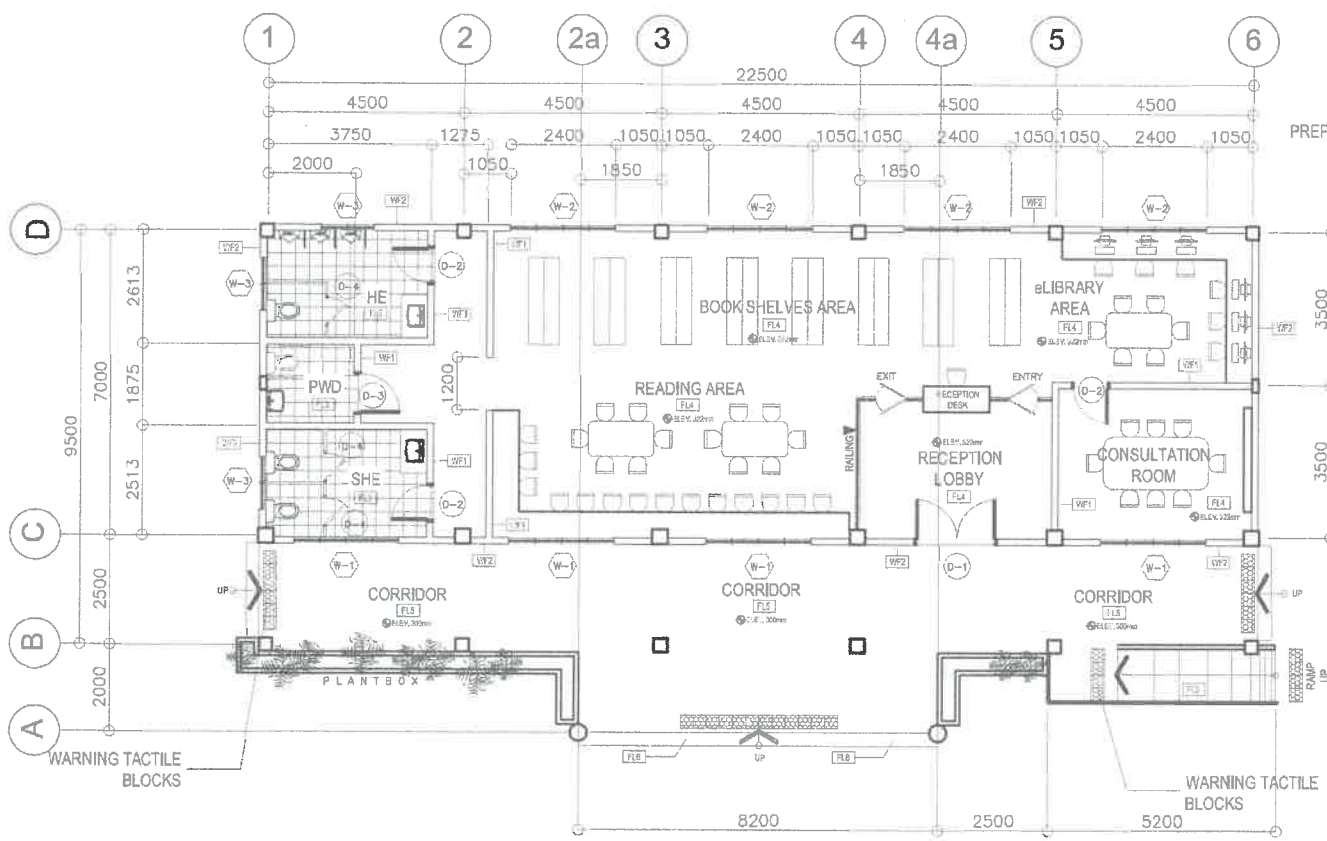
ELECTRICAL

MECHANICAL

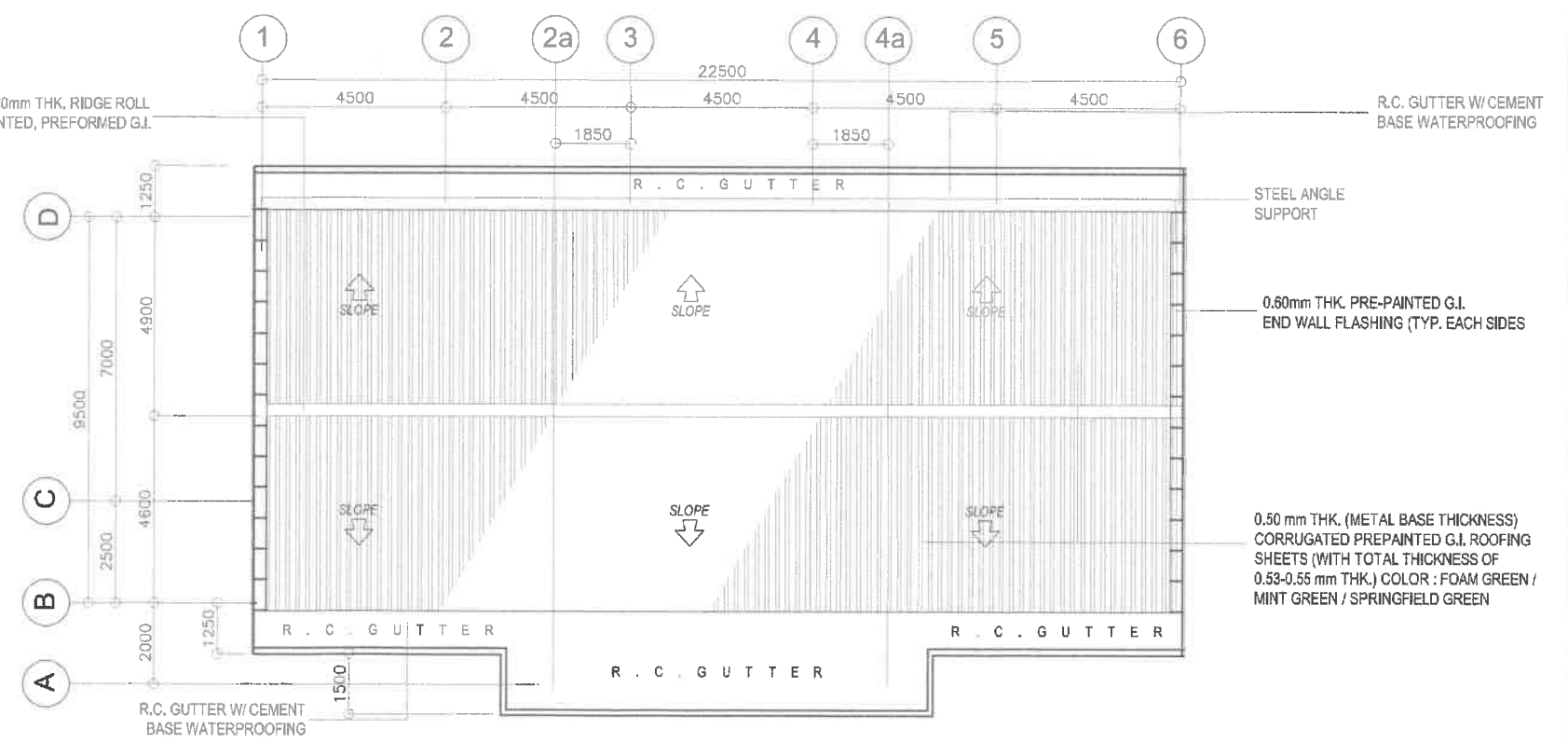
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	<p>DRAWN BY :</p> <p><i>J.P. Cullado</i> JUNELSON P. CULLADO CAD OPERATOR DepED-EFD</p>	<p>CHECKED BY :</p> <p><i>J.R. Alarso</i> JET RAYMOND C. ALARSO ARCHITECT / P.O. I. DepED-EFD</p>	<p>RECOMMENDING APPROVAL :</p> <p><i>A.R. Panzan</i> ANNABELLE R. PANZAN CHIEF LIF-DepED</p>	<p>RECOMMENDING APPROVAL :</p> <p><i>A.D. Cawilan</i> ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES</p>	<p>APPROVED BY :</p> <p><i>E.V. Densing III</i> EPIMACO V. DENISING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES</p>	<p>APPROVED BY :</p> <p><i>G.O. Gonong</i> GINA O. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING</p>	<p>PROJECT TITLE :</p> <p>PROPOSED LIBRARY HUB BUILDING</p>	<p>PROJECT CODE :</p>	<p>OWNER :</p> <p>DEPARTMENT OF EDUCATION DepED</p>	<p>SHEET NO.:</p> <p>A-1 5</p>
	<p>LOCATION :</p>									<p>SHEET CONTENTS :</p> <p>- PERSPECTIVE - TABLE OF CONTENTS</p>



3 REFLECTED CEILING PLAN
A-2 SCALE 1:100M

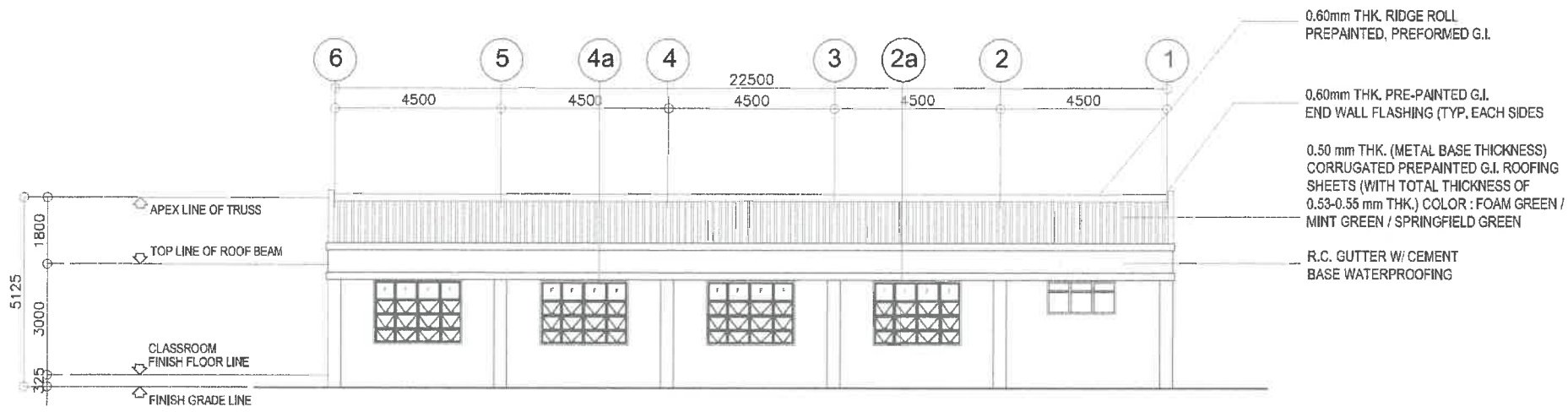


1 GROUND FLOOR PLAN
A-2 SCALE 1:100M

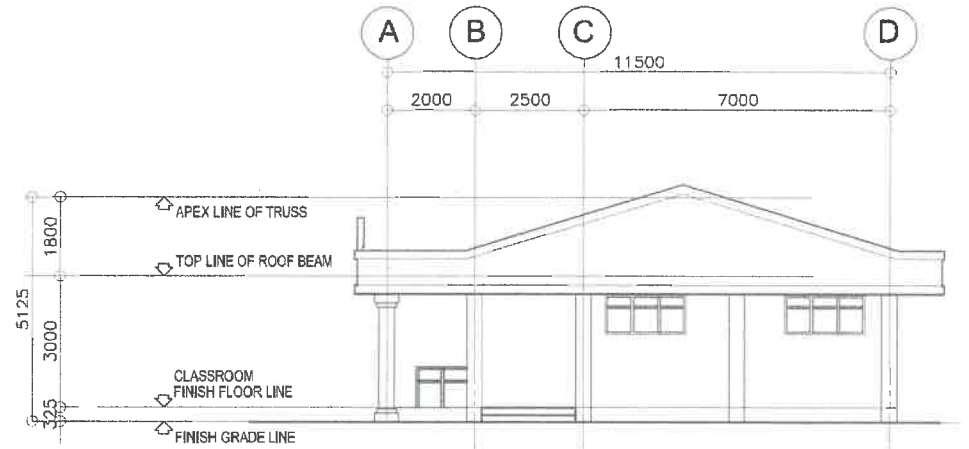


2 ROOF PLAN
A-2 SCALE 1:100M

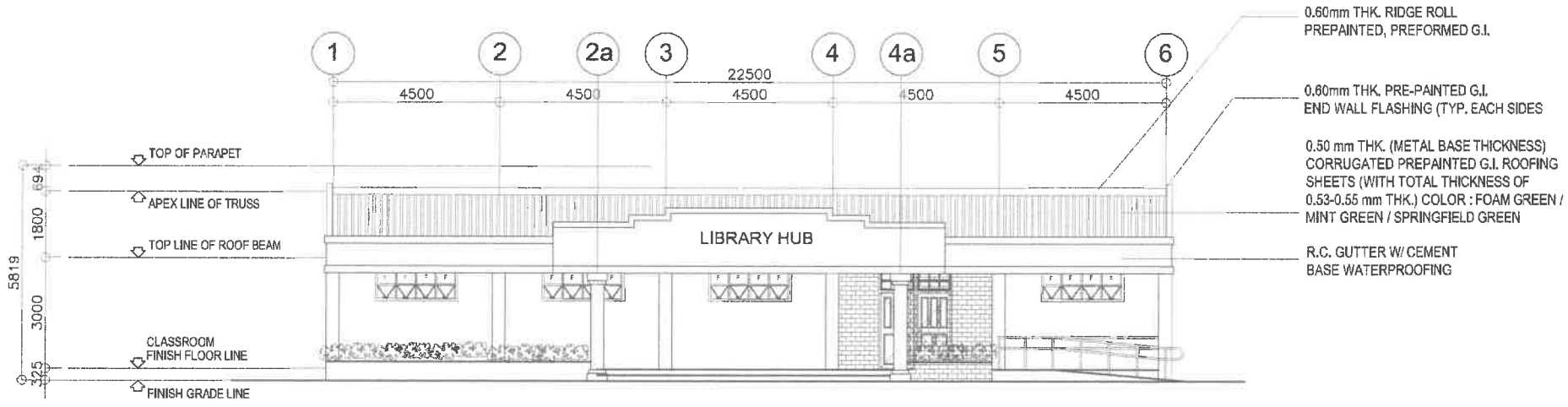
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	DRAWN BY : JUMELSON P. COLLADO <small>CAD OPERATOR DepED-EFD</small>	CHECKED BY : ARIZ DELSON ACAY D. CAWILAN <small>ARCHITECT / EFD DepED-EFD</small>	RECOMMENDING APPROVAL : ANNABELLE R. PANGAN <small>CHIEF EFD-DepED</small>	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN <small>DIRECTOR IV BUREAU OF LEARNING RESOURCES</small>	APPROVED BY : EPIMACO V. DENGING III <small>UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES</small>	APPROVED BY : GINA O. GONONG <small>UNDERSECRETARY FOR CURRICULUM AND TEACHING</small>	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO : A-2 5
	LOCATION :							SHEET CONTENTS : - PERSPECTIVE - TABLE OF CONTENTS		



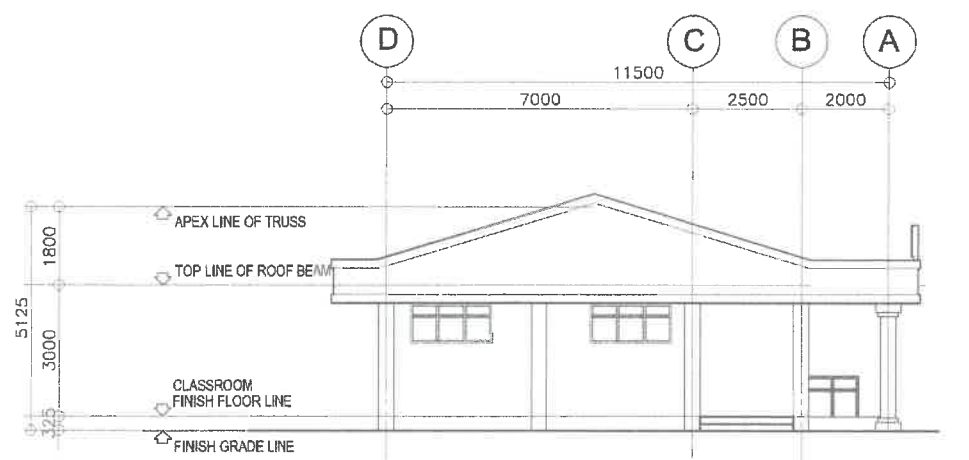
2 REAR ELEVATION
A-3 SCALE 1:100M



3 RIGHT SIDE ELEVATION
A-3 SCALE 1:100M



1 FRONT ELEVATION
A-3 SCALE 1:100M



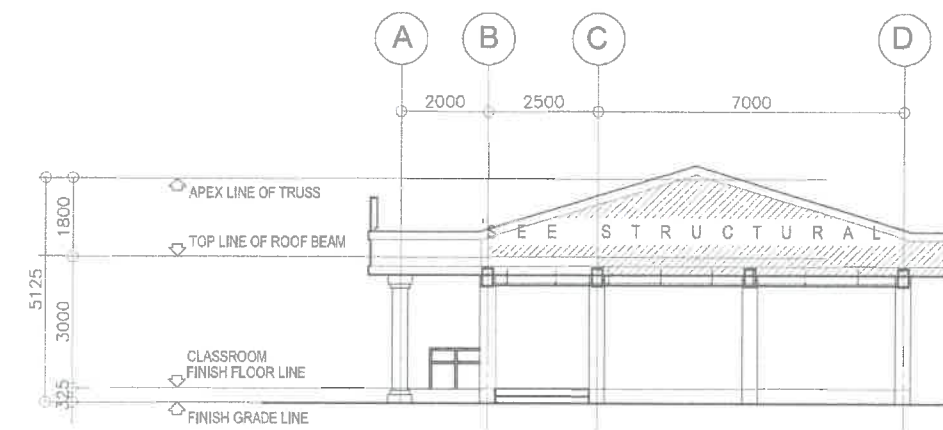
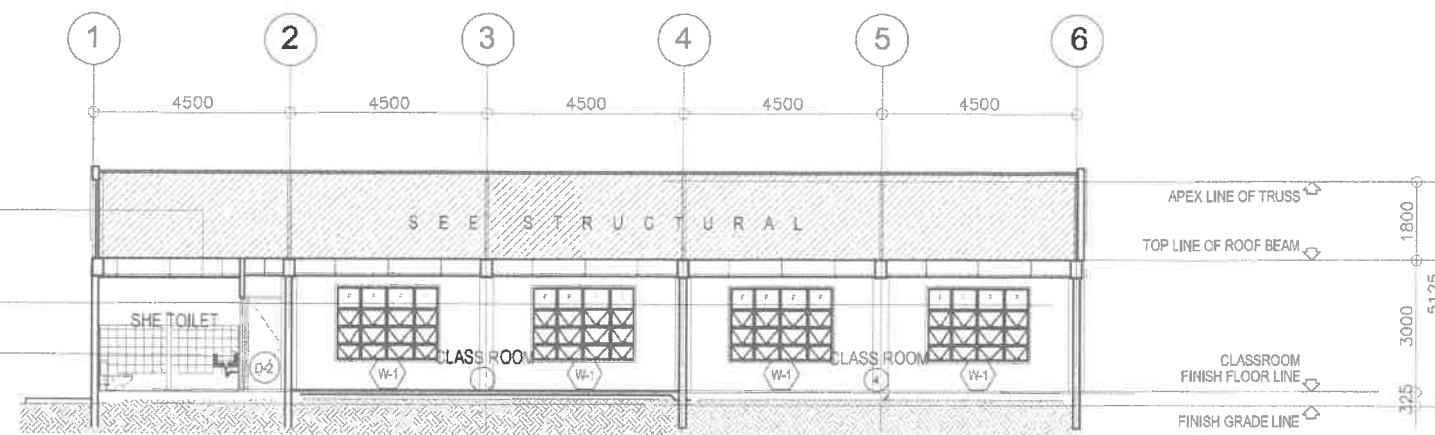
4 RIGHT SIDE ELEVATION
A-3 SCALE 1:100M

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	DRAWN BY : JUNELSON P. CULLADO CAD OPERATOR DepED-EFD	CHECKED BY : JET RAYMOND C. ALABASO ARCHITECT DepED-EFD	RECOMMENDING APPROVAL : ANNABELLE R. PANGAN CHIEF EDF-DepED	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA G. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO. : A-3 5
	LOCATION :							SHEET CONTENTS : - PERSPECTIVE - TABLE OF CONTENTS		

6mm THK. ORDINARY PLYWOOD CEILING
ON 50 x 50mm CEILING JOIST AT 600mm O.C
BOTHWAYS (PAINTED SEMI-GLOSS FINISH)

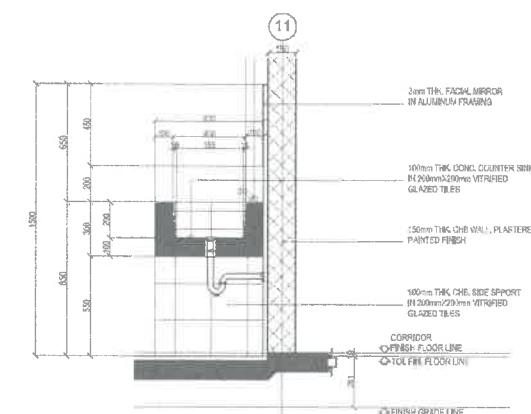
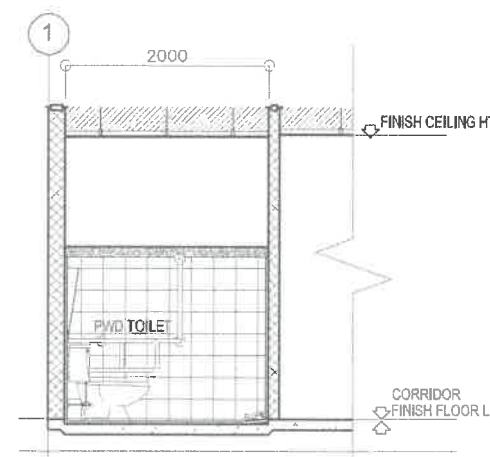
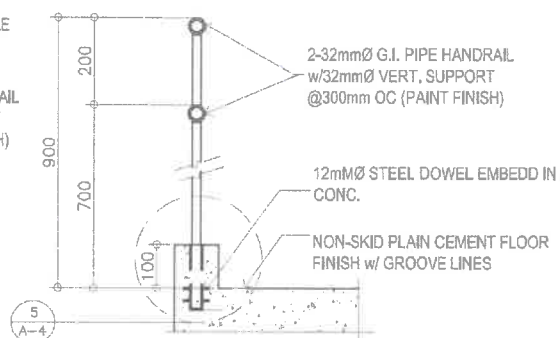
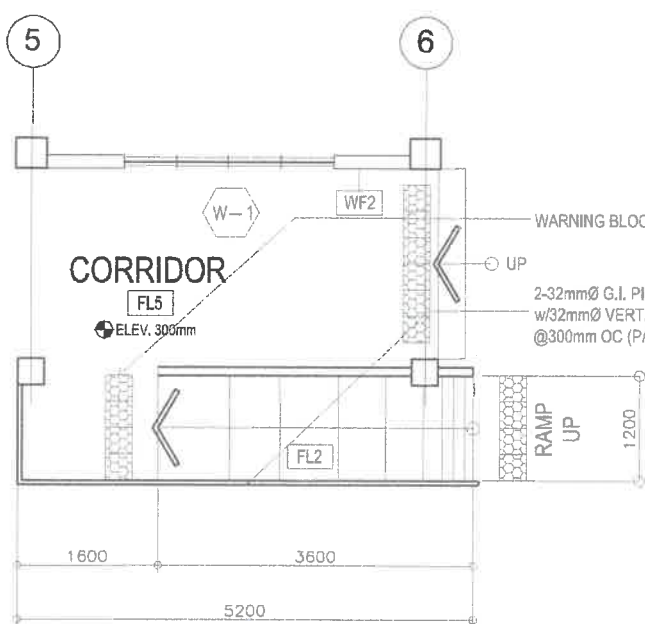
150mm THK. CHB WALL WITH PLAIN
CEMENT PLASTER (PAINT FINISH)

200mm X 200mm VITRIFIED
GLAZED WALL TILES



2 LONGITUDINAL SECTION
A-4 SCALE 1:100M

3 CROSS SECTION
A-4 SCALE 1:100M

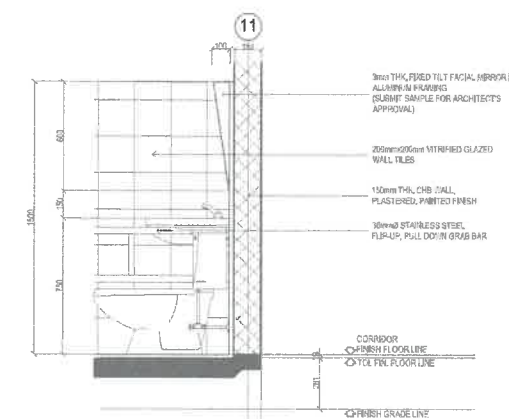
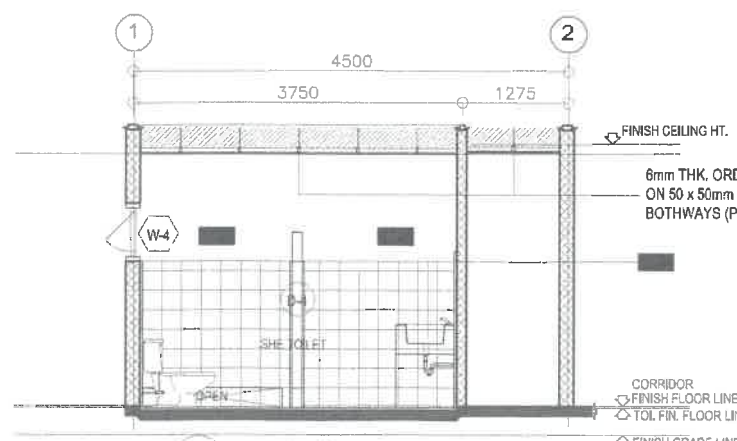
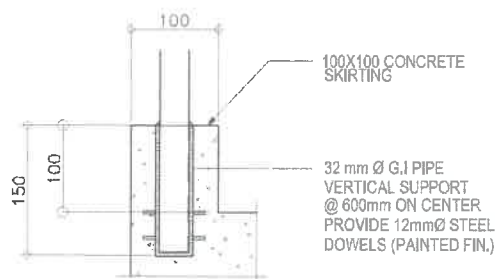
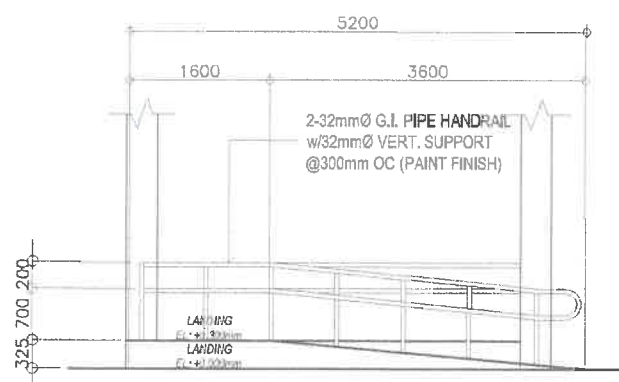


PLAN OF RAMP

4 DETAIL SECTION
A-4 SCALE 1:10M

5 SECTION - 4 (PWD TOILET, CORRIDOR)
A-6 SCALE 1:50M

5 BLOW-UP DETAIL - 1 (COUNTER SINK)
A-6 SCALE 1:50M



1 DETAIL ELEVATION OF RAMP
A-4 SCALE 1:10M

5 SPOT DETAIL
A-4 SCALE 1:5M

7 SECTION - 6 (SHE TOILET)
A-6 SCALE 1:50M

5 BLOW-UP DETAIL - 3 (PWD TOILET)
A-6 SCALE 1:50M



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CAD OPERATOR
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CHECKED BY: JET RAYMOND G. ALABASO
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CHIEF
EDF-DepED

RECOMMENDING APPROVAL: ARIZ DELSON ACAY D. CAWILAN
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UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES

APPROVED BY: GINA O. GONONG
UNDERSECRETARY FOR CURRICULUM AND TEACHING

PROJECT TITLE: PROPOSED LIBRARY HUB BUILDING
LOCATION:

PROJECT CODE:

OWNER: DEPARTMENT OF EDUCATION
DepED
SHEET CONTENTS:
- PERSPECTIVE
- TABLE OF CONTENTS

SHEET NO: A-4
5

	<p>TAG NO. D-1</p> <p>DESCRIPTION KD & TERMITE TREATED PANEL DOOR (SWING TYPE) W/ FIXED GLASS TRANSOM ABOVE ON 50 x 150mm WOODEN/ STEEL JAMBS/ FRAMES w/ LEVER TYPE DOOR KNOB</p> <p>LOCATION: CLASSROOMS</p>		<p>TAG NO. D-2</p> <p>DESCRIPTION KD & TERMITE TREATED PANEL DOOR (SWING TYPE) W/ FIXED GLASS TRANSOM ABOVE ON 50 x 150mm WOODEN/ STEEL JAMBS/ FRAMES w/ LEVER TYPE DOOR KNOB</p> <p>LOCATION: CONSULTANT ROOM</p>		<p>TAG NO. D-3</p> <p>DESCRIPTION HOLLOW CORE FLUSH TYPE SWING DOOR ON 50 x 150mm WOODEN/ STEEL JAMB w/ MARINE PLYWOOD (TWO FACE) COMPLETE w/ HARDWARE AND ACCESSORIES PROVIDE KICK PLATE w/ LEVER TYPE DOOR KNOB</p> <p>LOCATION: PWD TOILETS</p>		<p>TAG NO. D-4</p> <p>DESCRIPTION BAR DOOR (SWING TYPE) ON 50 x 150mm WOODEN/ STEEL DOOR JAMBS/ FRAMES w/ MARINE PLYWOOD (TWO FACE) COMPLETE w/ HARDWARE & ACCESSORIES w/ DOOR BOLT</p> <p>LOCATION: HE/SHE TOILETS</p>
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	<p>TAG NO. W-1</p> <p>DESCRIPTION AWNING WINDOW W/ 6mm THK. CLEAR GLASS PANE ON .8mm ANALOK FRAME & w/ FIXED GLASS TRANSOM ABOVE</p> <p>LOCATION: CLASSROOMS</p>
--	---

	<p>TAG NO. W-2</p> <p>DESCRIPTION AWNING WINDOW W/ 6mm THK. CLEAR GLASS PANE ON .8mm ANALOK FRAME & w/ FIXED GLASS TRANSOM ABOVE</p> <p>LOCATION: CLASSROOMS</p>
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	<p>TAG NO. W-3</p> <p>DESCRIPTION AWNING WINDOW W/ 6mm THK. CLEAR GLASS PANE ON .8mm ANALOK FRAME & w/ FIXED GLASS TRANSOM ABOVE</p> <p>LOCATION: TOILETS</p>
--	--

1 DOORS AND WINDOWS SCHEDULE
SCALE 1:25 M

<p>REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	<p>DRAWN BY: JUNELSON P. CULLADO CAD OPERATOR DepED-EFD</p>	<p>CHECKED BY: JAY PATRICKO C. BARBASO ARCHITECT / P00 II DepED-EFD</p>	<p>RECOMMENDING APPROVAL: ANNABELLE B. PANGAN CHIEF EDF-DepED</p>	<p>RECOMMENDING APPROVAL: ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES</p>	<p>APPROVED BY: EPIMARCO V. DENSIÑO III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES</p>	<p>APPROVED BY: GINA O. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING</p>	<p>PROJECT TITLE: PROPOSED LIBRARY HUB BUILDING</p>	<p>PROJECT CODE:</p>	<p>OWNER: DEPARTMENT OF EDUCATION DepED</p>	<p>SHEET NO: A-5 5</p>
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GENERAL CONSTRUCTION NOTES

TABLE 'A'
TENSION BARS
TABLE OF LAP SPICE & ANCHORAGE LENGTH (mm)

BAR SIZES (DEFORMED mm)	f _c ' = 20.7 MPa (300psi)		f _c ' = 27.6 MPa (4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø10	300	300	300	300
Ø12	300	300	300	300
Ø16	300	400	300	400
Ø20	400	500	350	500
Ø25	600	800	500	750
Ø28	750	1000	650	850
Ø32	850	1200	650	1100

NOTES:
1. TOP PLAIN BARS, MULTIPLY VALUE BY 2
2. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

TABLE 'B'
COMPRESSION BARS
TABLE OF LAP SPICE & ANCHORAGE LENGTH (mm)

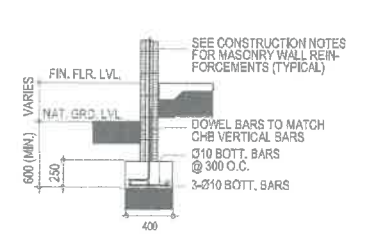
BAR SIZES (DEFORMED mm)	f _c ' = 20.7 MPa (300psi)		f _c ' = 27.6 MPa (4000psi)	
	EMBEDMENT	LAPPED	EMBEDMENT	LAPPED
Ø10	225	300	200	300
Ø12	275	300	250	300
Ø16	350	400	325	400
Ø20	400	500	475	500
Ø25	500	625	550	625
Ø28	625	675	625	675
Ø32	700	775	700	775

NOTES:
1. TOP PLAIN BARS, MULTIPLY VALUE BY 2
2. NOT MORE THAN 33% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH
3. VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS

REINFORCING CONCRETE LINTEL BEAMS IN CONCRETE BLOCK WALLS

LINTELS IN BLOCK WALLS

CLEAR SPAN (L)	TOTAL LENGTH (L+0.40M)	MIN. f _c ' (MPa)	HEIGHT OF LINTEL (mm)	REINFORCEMENT		
				BOTTOM	TOP	STIRRUPS
1.20 M	1.60 M	14.0	250	1-Ø10	1-Ø10	Ø6 mm @ 200mm
1.50 M	1.90 M		200	1-Ø10	1-Ø10	Ø6 mm @ 200mm
1.80 M	2.20 M		250	1-Ø12	1-Ø10	Ø8 mm @ 200mm
2.10 M	2.50 M	17.0	250	1-Ø12	1-Ø10	Ø8 mm @ 200mm
2.40 M	2.90 M		225	1-Ø12	1-Ø10	Ø8 mm @ 200mm
2.70 M	3.10 M		250	1-Ø12	1-Ø12	Ø10mm @ 200mm
3.00 M	3.40 M	20.0	300	1-Ø16	1-Ø12	Ø10mm @ 200mm
3.30 M	3.70 M		300	1-Ø16	1-Ø12	Ø10mm @ 200mm
3.60 M	4.00 M		300	1-Ø20	1-Ø12	Ø10mm @ 200mm

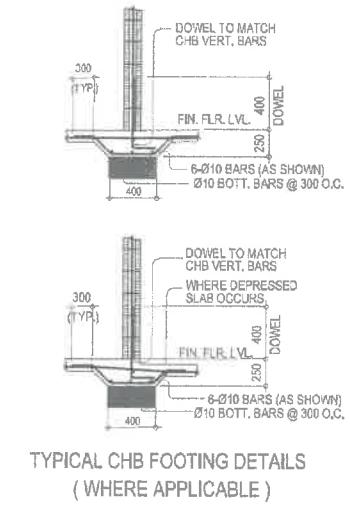
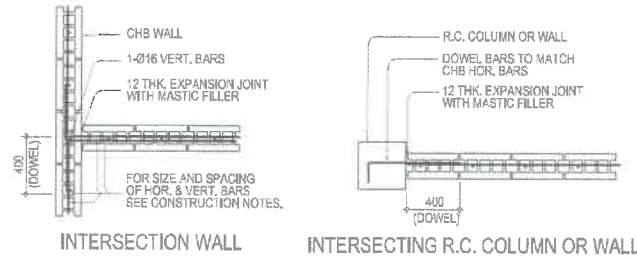
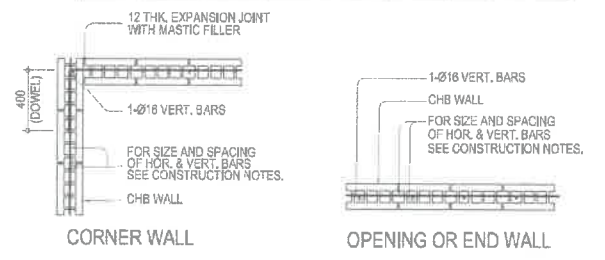
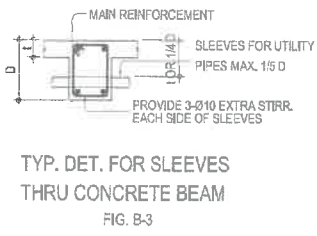
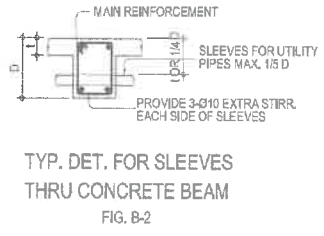


TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS

- NOTES ON WELDS**
- USE E60xx ELECTRODES FOR ALL MEMBERS WELDED.
 - WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

- NOTES ON STIRRUPS**
- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
 - AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
 - TIES & CLOSE STIRRUPS MUST BE AT 135.

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



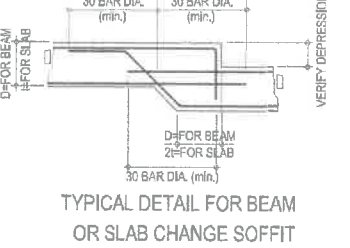
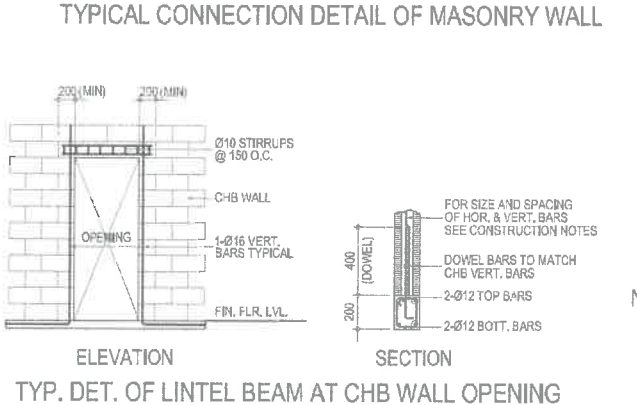
- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS. BEAM REINFORCING BARS SHALL BE SYMMETRICAL ABOUT THE CENTER LINE WHENEVER POSSIBLE.
- GENERALLY, NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR, SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN TABLE 'A' AND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

NOTES ON CONCRETE HOLLOW BLOCKS WALLS

- UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 10mm Ø TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

NOTES ON CONCRETE HOLLOW BLOCKS WALLS REINFORCEMENTS

BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	LAPPED	
75 mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	A. MINIMUM LAPS AT SPICE= 0.25 M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92 m LONG C. WHERE CHB OR CER. BLK. WALL DOWELS WITH THE SAME SIZE AS VER. OR HOR. REINFORCEMENT SHALL BE PROVIDED
125 mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	
150 mm	10mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	
200 mm	12mm Ø EVERY 3RD LEVEL	10mm Ø @ 600mm O.C.	

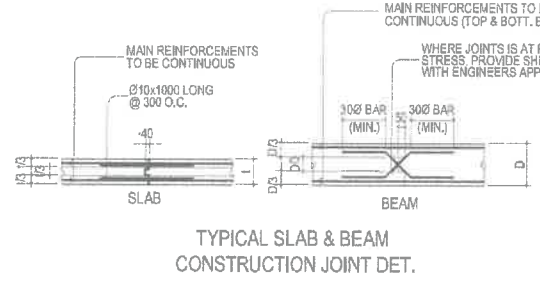


NOTES ON EMBEDDED PIPES

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

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

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

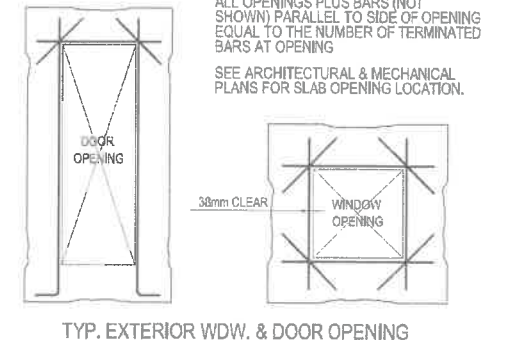


NOTES ON CONCRETE WALLS

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

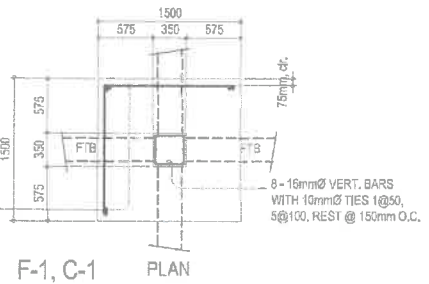
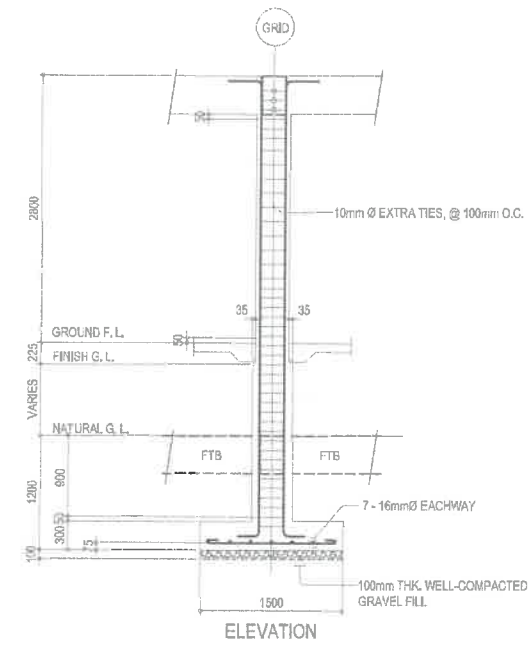
WALL THICKNESS	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100mm	Ø10mm @ 250mm O.C.	Ø10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGED OUT	
125mm	Ø10mm @ 200mm O.C.	Ø10mm @ 250mm O.C.		
150mm	Ø12mm @ 250mm O.C.	Ø12mm @ 300mm O.C.		

- REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.
- CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGED AT LEAST 1.50M O.C.
 - UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm Ø BARS. FOR 225mm, 200mm, 175mm, 150mm THICK WALLS, USE 2-16mm Ø. FOR 125mm AND 100mm THICK WALLS, USE 2-12mm Ø BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED.

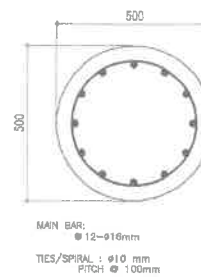
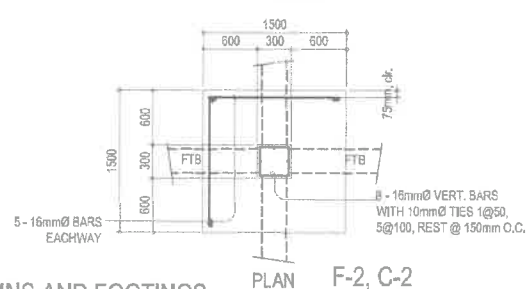
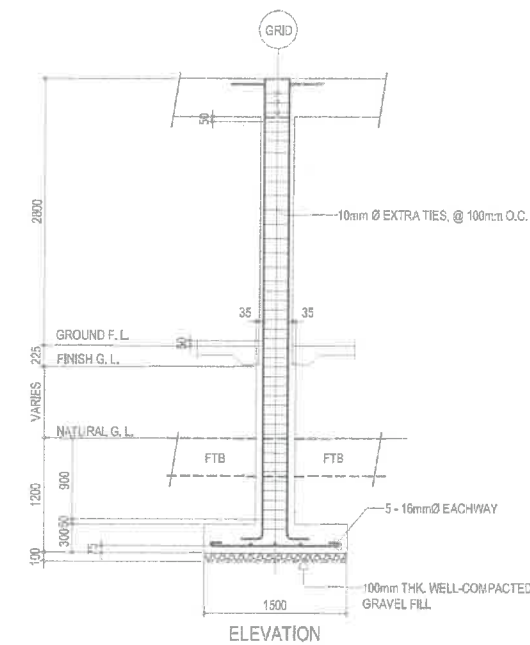


NOTE:
PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING
SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

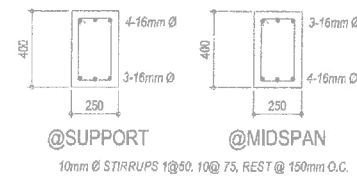
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	DRAWN BY JUNELSON P. CULLADO CAD OPERATOR DepEd-ED	CHECKED BY : WILFREDO D. ALARCON STRUCTURAL ENGINEER DepEd-ED	RECOMMENDING APPROVAL : ANNABELLE R. PANGAN CHIEF ED-DepEd	RECOMMENDING APPROVAL ARIZ DELSON ACAY D. CAWILAN DIRECTOR BY BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA O. MONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE:	OWNER : DEPARTMENT OF EDUCATION DepEd	SHEET NO. S-2 8
	SHEET CONTENTS : GENERAL NOTES									



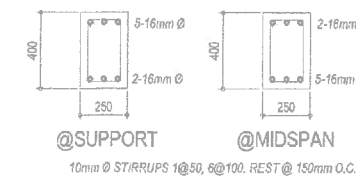
2 DETAIL OF COLUMNS AND FOOTINGS
SCALE 1:40 mm



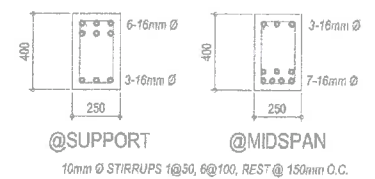
C-3



FTB-1

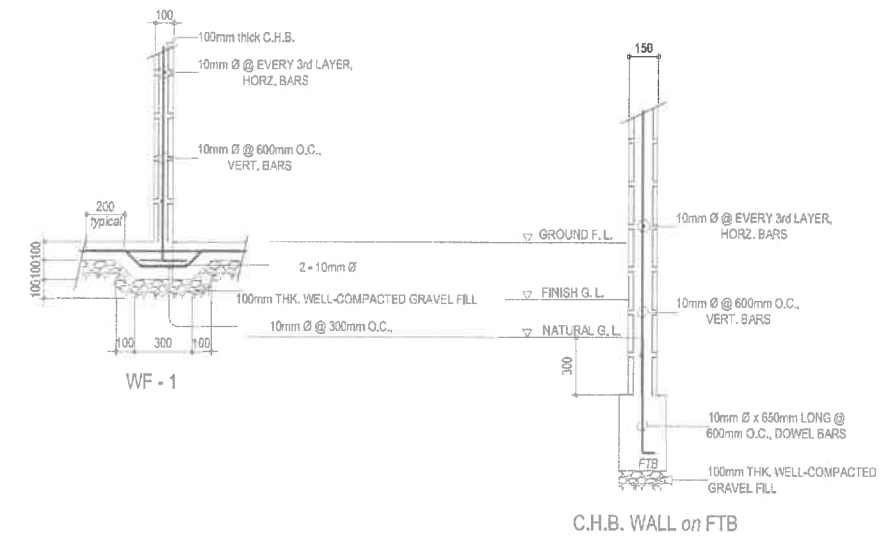


FTB-2

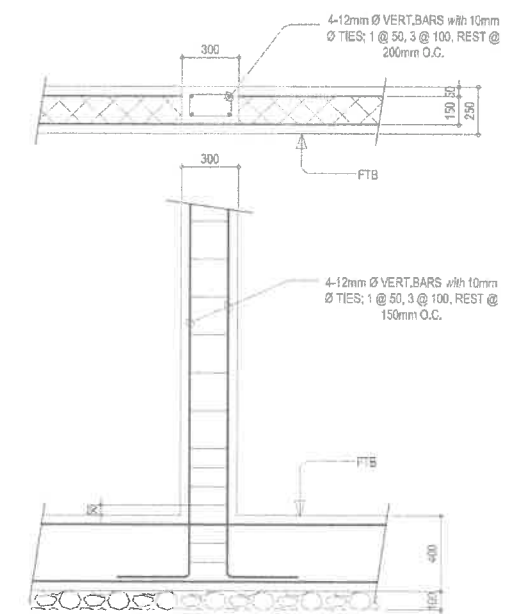


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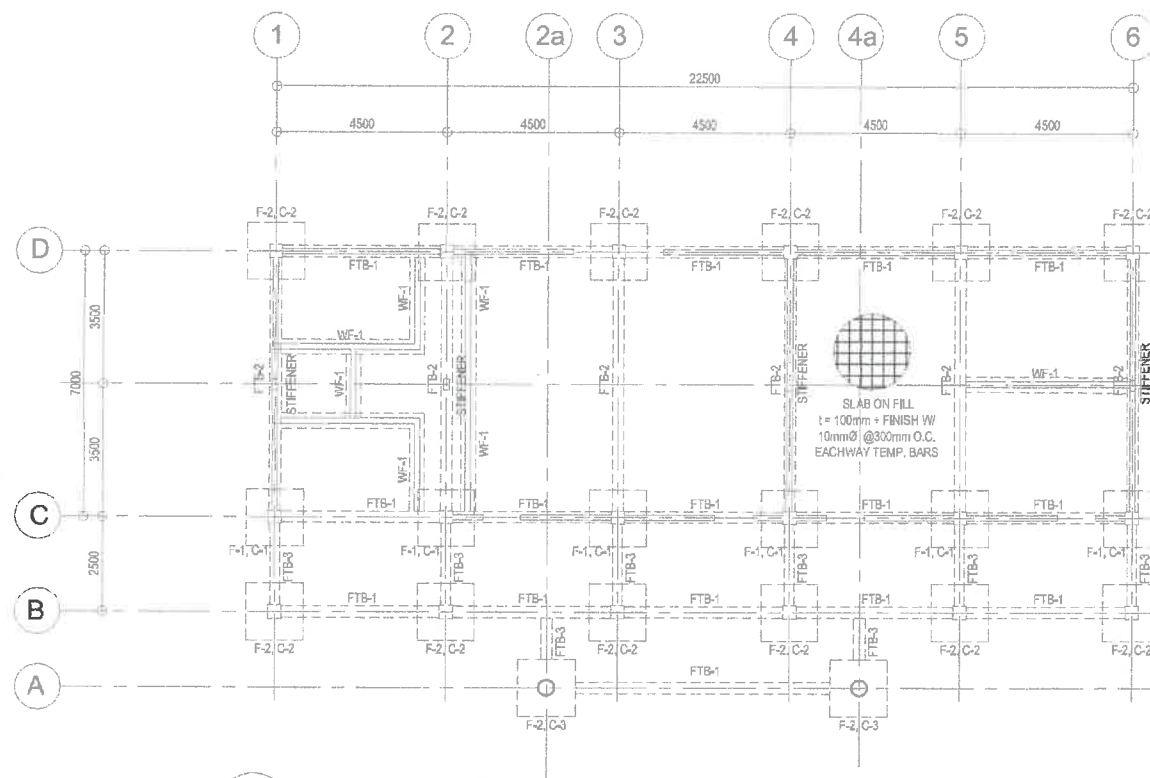
4 DETAIL OF FOOTING TIE BEAMS
SCALE 1:20 m



3 DETAILS OF WALL-FOOTINGS
SCALE 1:20 mm

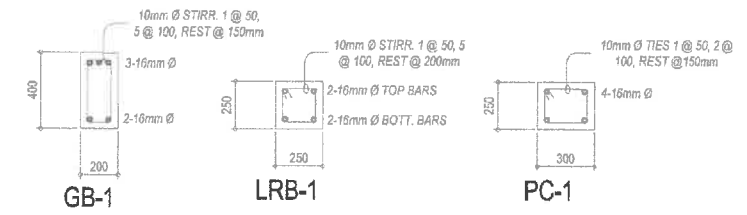
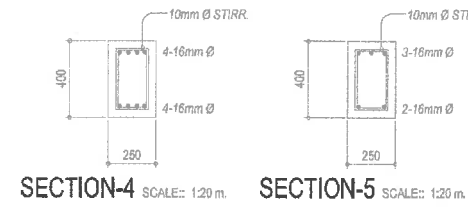
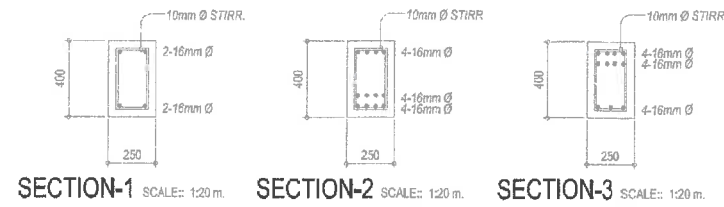
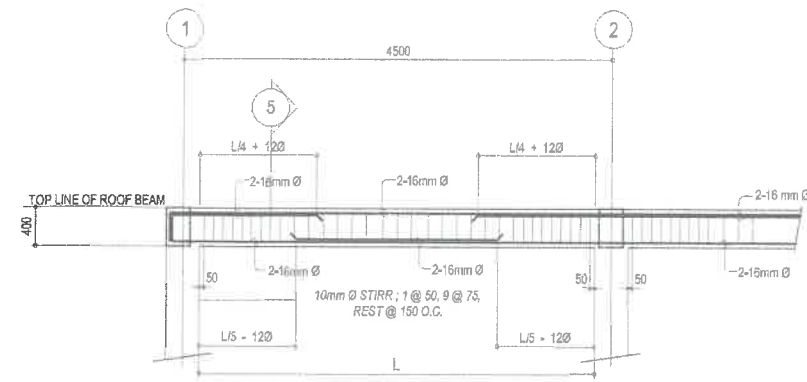


5 STIFFENER DETAIL
SCALE 1:20 mm

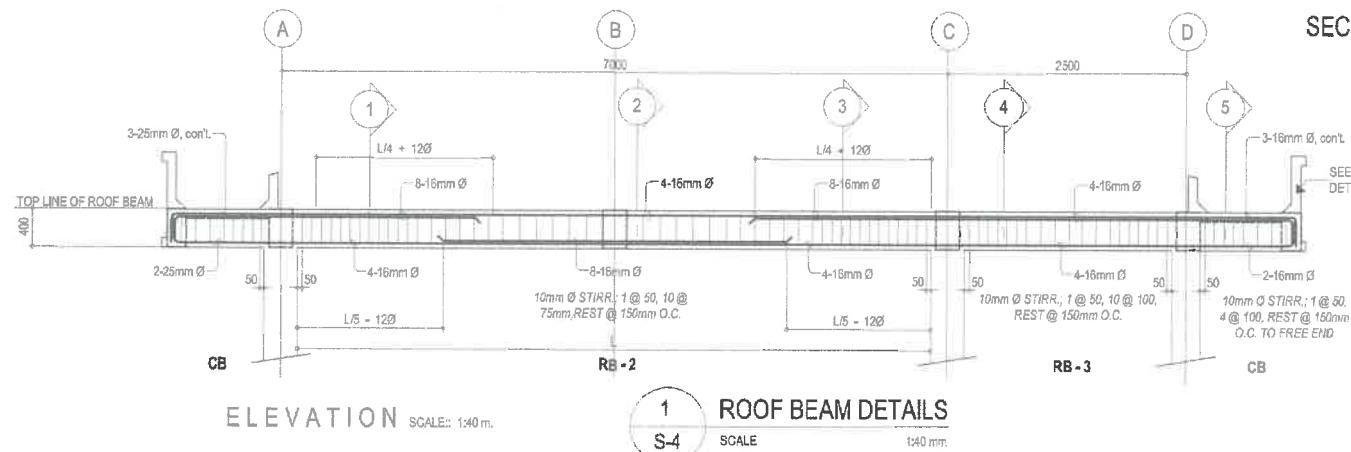


1 FOUNDATION PLAN
SCALE 1:100 M

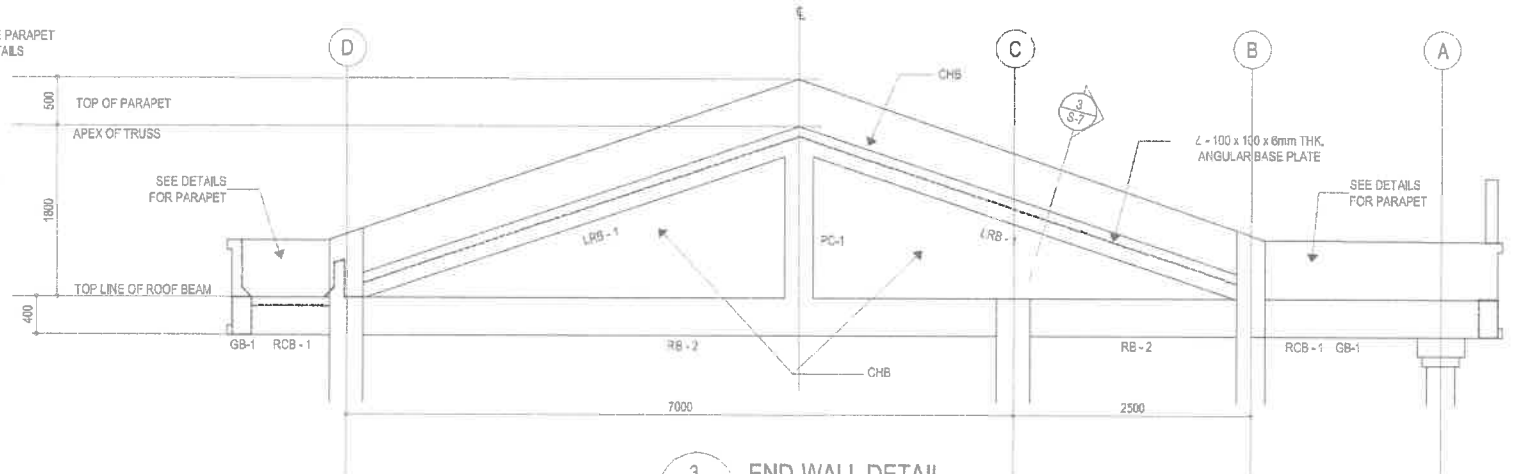
REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY	DRAWN BY:	CHECKED BY:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	APPROVED BY:	PROJECT TITLE:	PROJECT CODE:	OWNER:	SHEET NO.:
	 JUNILSON P. CALADO CAD OPERATOR DepED-EPD	 WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-EPD	 ANNAELLE R. BALONIN CHIEF ED-DepED	 ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	 EPIMACO V. DENSGING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	 GINA O. GOKONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROPOSED LIBRARY HUB BUILDING		DEPARTMENT OF EDUCATION DepED	S-3 8



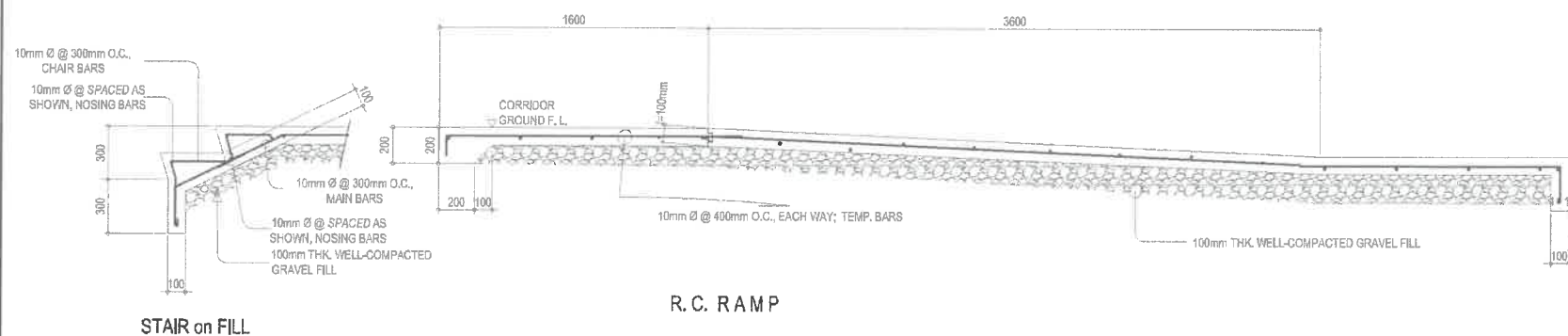
2 DETAIL OF GB-1, LRB-1 & PC-1
S-4 SCALE 1:20 m



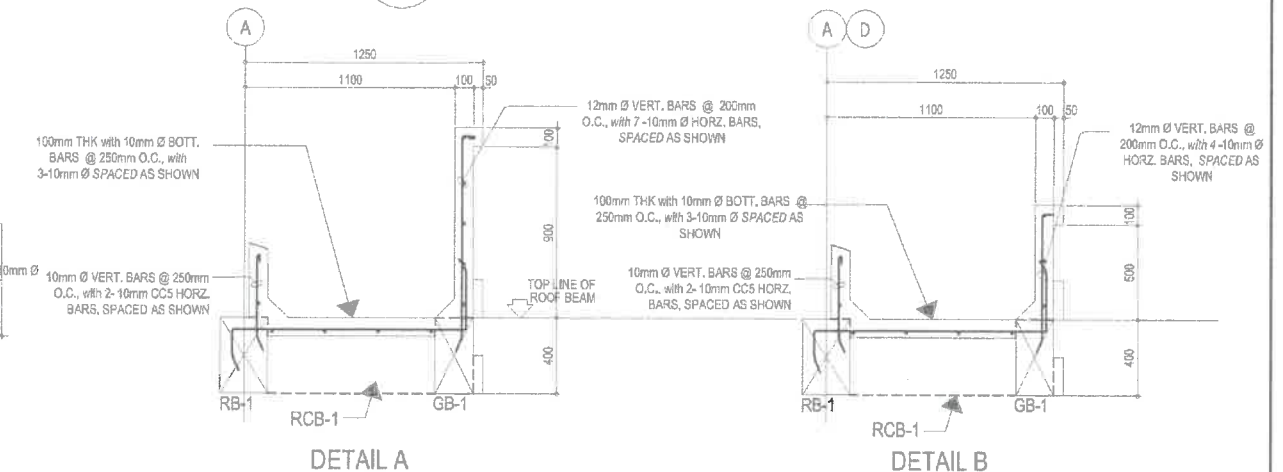
1 ROOF BEAM DETAILS
S-4 SCALE 1:40 m



3 END-WALL DETAIL
S-4 SCALE 1:40 m

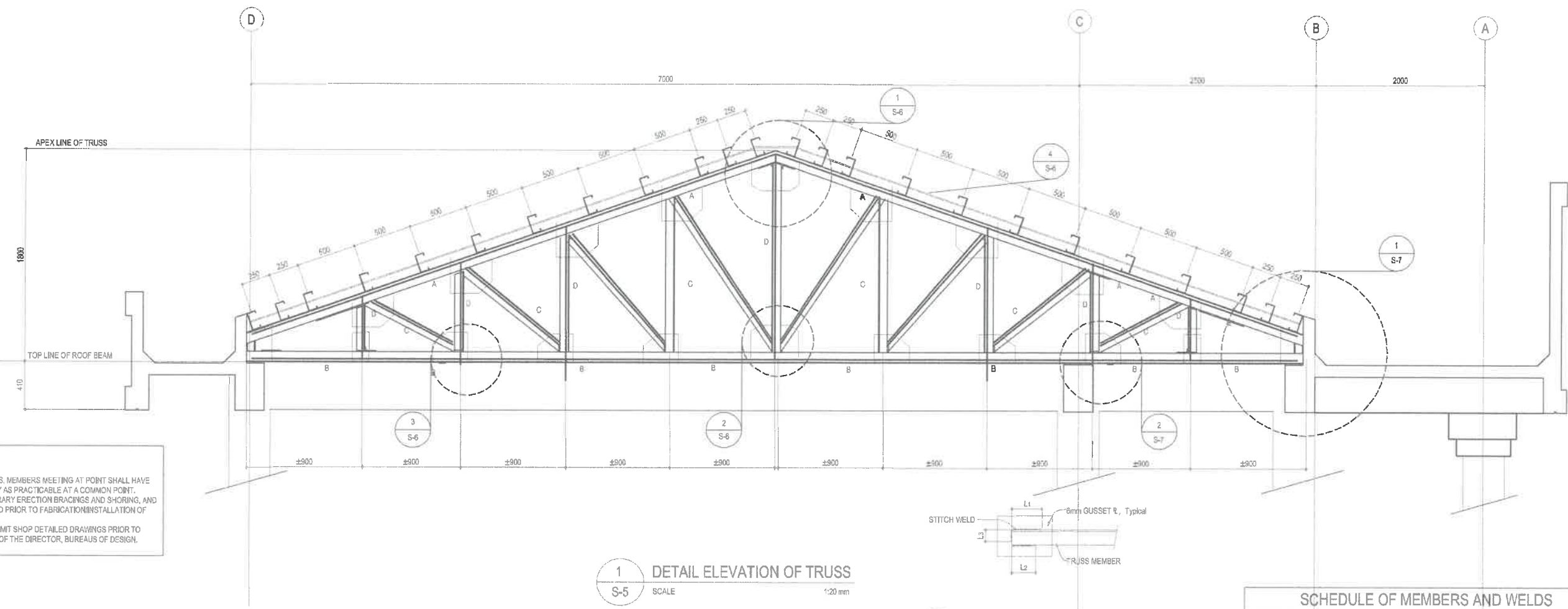


4 DETAIL SECTIONS OF STAIR ON FILL and R.C. RAMP
S-4 SCALE 1:20 m



5 DETAIL OF R.C. GUTTER
S-4 SCALE 1:20 m

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION METRALCO AVENUE, PASIG CITY	DRAWN BY:	CHECKED BY:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	APPROVED BY:	PROJECT TITLE:	PROJECT CODE:	OWNER:	SHEET NO.:
	 JUNIELSON P. CULLADO CAD OPERATOR DepED-ED	 WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-ED	 ANNABELLE R. PANGAM CHIEF EDF-DepED	 ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	 ELNACO V. DENING UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	 GINA O. CONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROPOSED LIBRARY HUB BUILDING		DEPARTMENT OF EDUCATION DepED	SHEET CONTENTS : ROOF BEAM DETAILS DETAIL OF GB-1, LRB-1, & PC-1 END WALL DETAIL DETAIL SECTIONS OF STAIR ON FILL AND R.C. RAMP DETAIL OF R.C. GUTTER



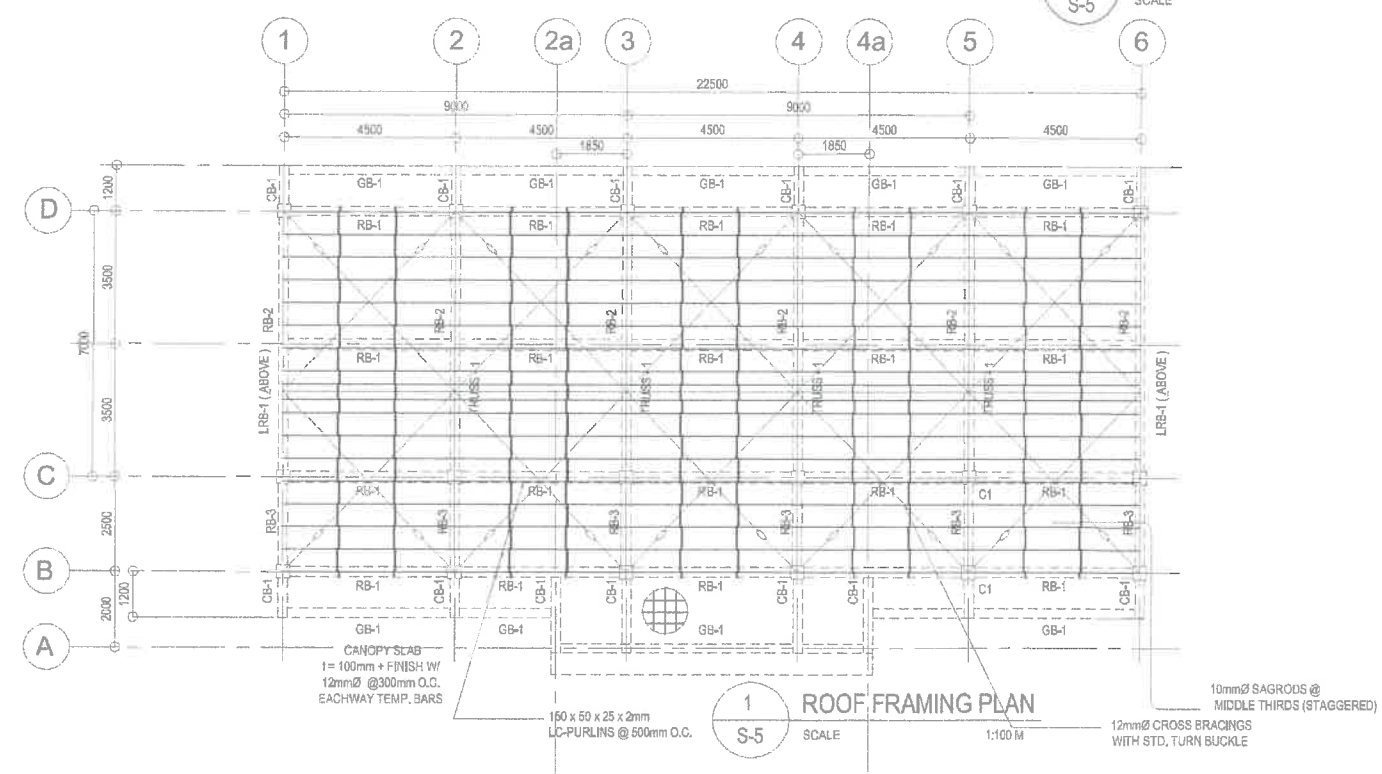
1 DETAIL ELEVATION OF TRUSS
SCALE 1:20 mm

3 REFERENCE WELD DETAIL
SCALE 1:10 m

MARK	TRUSS MEMBERS SIZES	SIZE OF WELDS			REMARKS	
		THICKNESS	LENGTH, mm			
			L ₁	L ₂		L ₃
A	2Ls - 90 x 90 x 6	6mm	FULL WELD			
B	2Ls - 90 x 90 x 6	6mm	125	100	50	
C	2Ls - 50 x 50 x 6	6mm	125	100	50	
D	2Ls - 50 x 50 x 6	6mm	100	75	50	

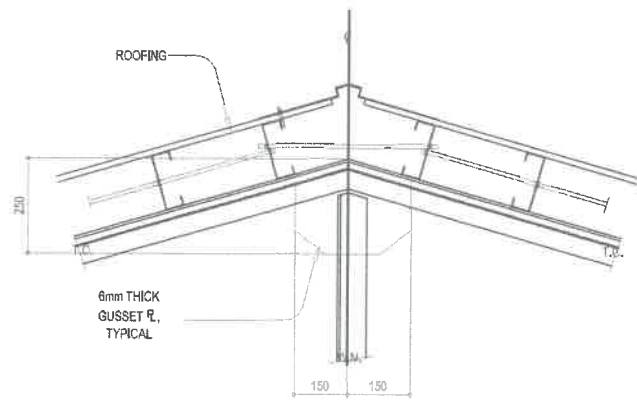
NOTES ON ROOF CONSTRUCTION :

IN ACTUAL FABRICATION OF STEEL TRUSSES, MEMBERS MEETING AT POINT SHALL HAVE THEIR GRAVITY AXIS INTERSECT AS NEARLY AS PRACTICABLE AT A COMMON POINT. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACINGS AND SHORING, AND MAKE ACTUAL MEASUREMENTS IN THE FIELD PRIOR TO FABRICATION/INSTALLATION OF ALL TRUSSES. THE FABRICATOR/CONTRACTOR SHALL SUBMIT SHOP DETAILED DRAWINGS PRIOR TO FABRICATION OF TRUSSES FOR APPROVAL OF THE DIRECTOR, BUREAUS OF DESIGN.

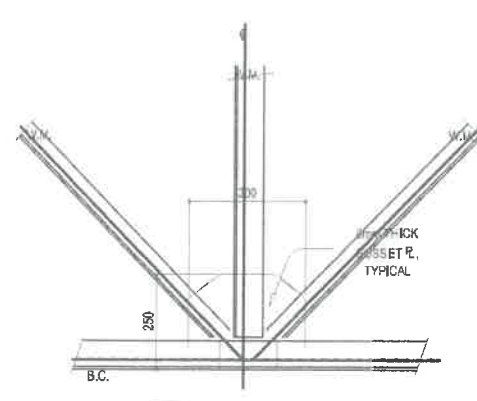


1 ROOF FRAMING PLAN
SCALE 1:100 M

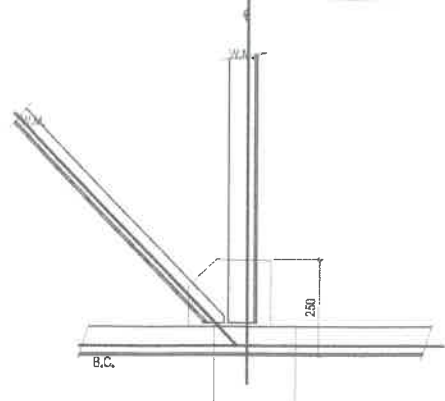
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MELALCA AVENUE, PASIG CITY</p>	DRAWN BY JUNELSON P. CULLADO CAO OPERATOR DepED-ED	CHECKED BY WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-ED	RECOMMENDING APPROVAL ANNABELLE R. MANGAN CHIEF EDF-DepED	RECOMMENDING APPROVAL ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY EPIMACO V. DENISING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY GINA U. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE PROPOSED LIBRARY HUB BUILDING	PROJECT CODE	OWNER DEPARTMENT OF EDUCATION DepED	SHEET NO. S-5 8
	SHEET CONTENTS : DETAIL ELEVATION OF TRUSS DETAILS OF MEMBERS AND JOINTS ROOF FRAMING PLAN REFERENCE WELD DETAIL									



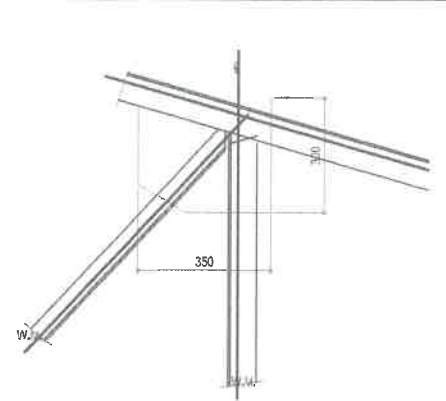
1 **DETAIL 1**
S-6 SCALE 1:10 m



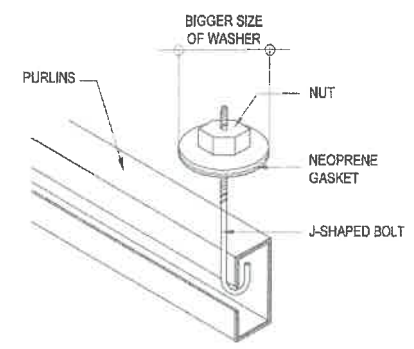
2 **DETAIL 2**
S-6 SCALE 1:10 m



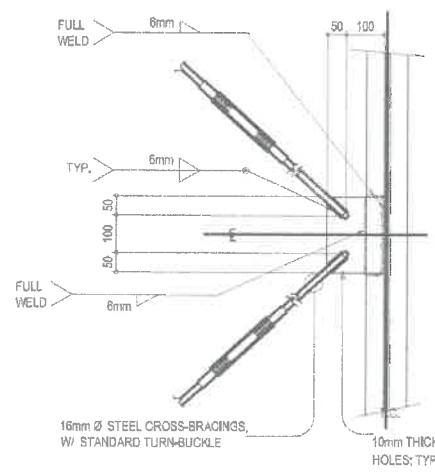
3 **DETAIL 3**
S-6 SCALE 1:10 m



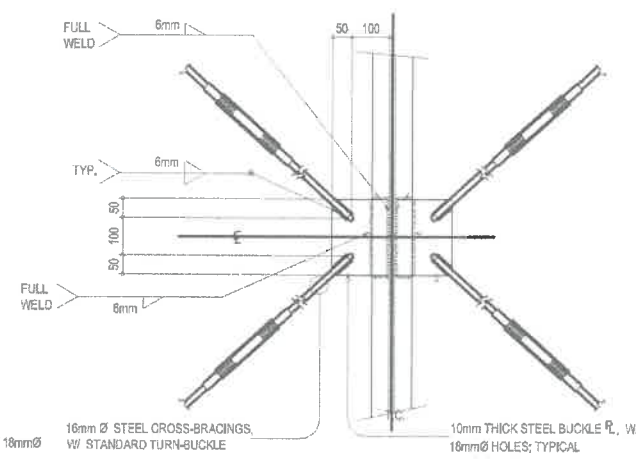
4 **DETAIL 4**
S-6 SCALE 1:10 m



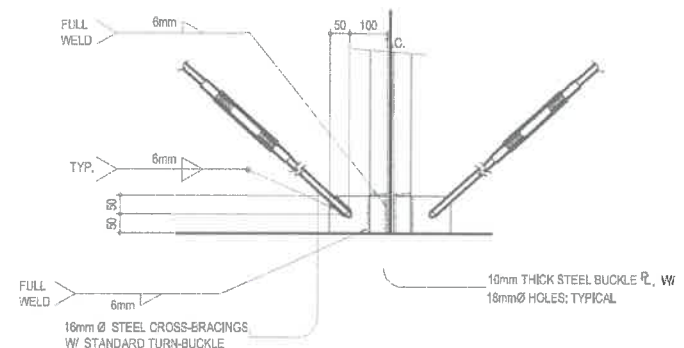
5 **ROOFING FIXER**
S-6 NOT TO SCALE



AT END WALL

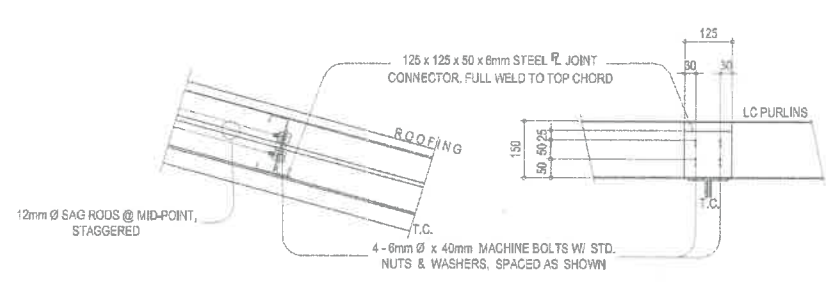


AT APEX OF TRUSS

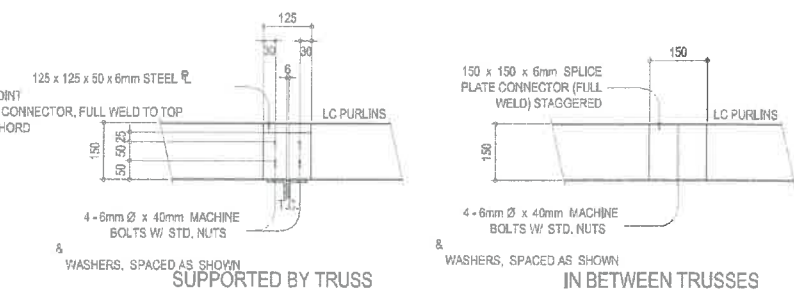


ALONG GRID LINE A & C

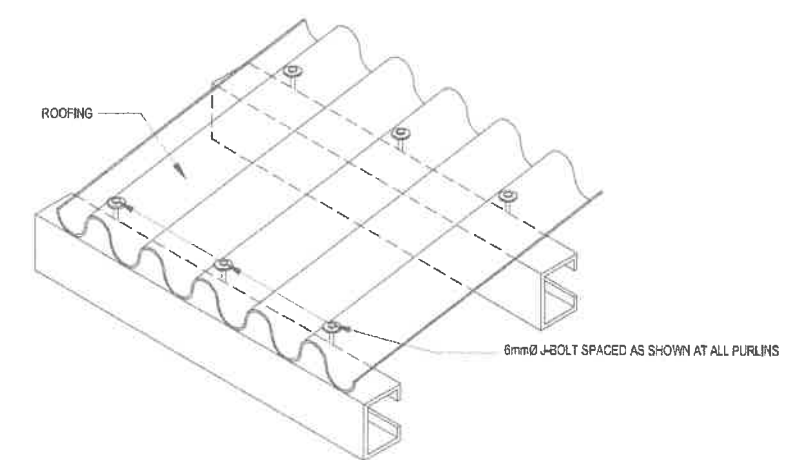
6 **DETAIL CONN. OF CROSS-BRACING**
S-6 SCALE 1:10 m



7 **DETAIL CONN. OF PURLIN TO TOP CHORD**
S-6 SCALE 1:10 m

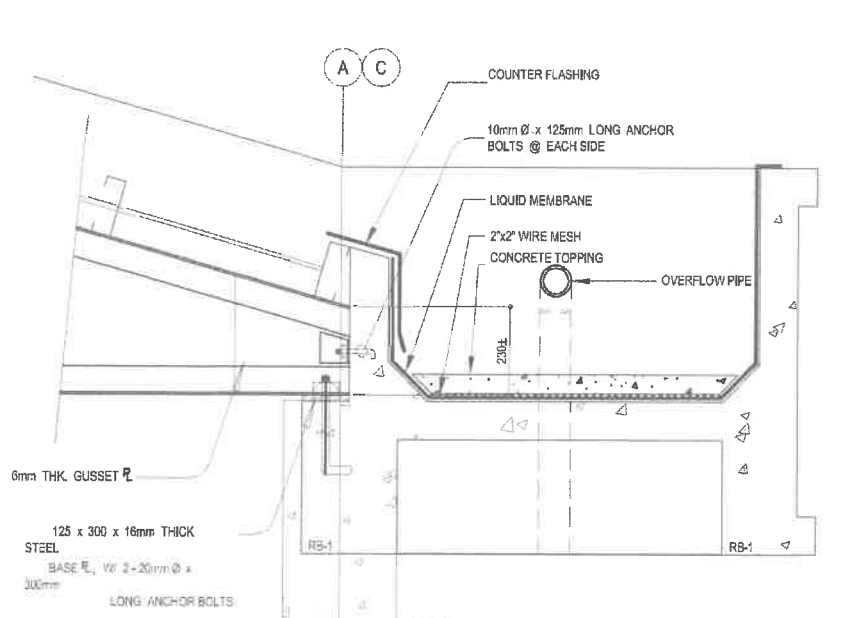


8 **DETAIL OF PURLIN SPLICE**
S-6 SCALE 1:10 m

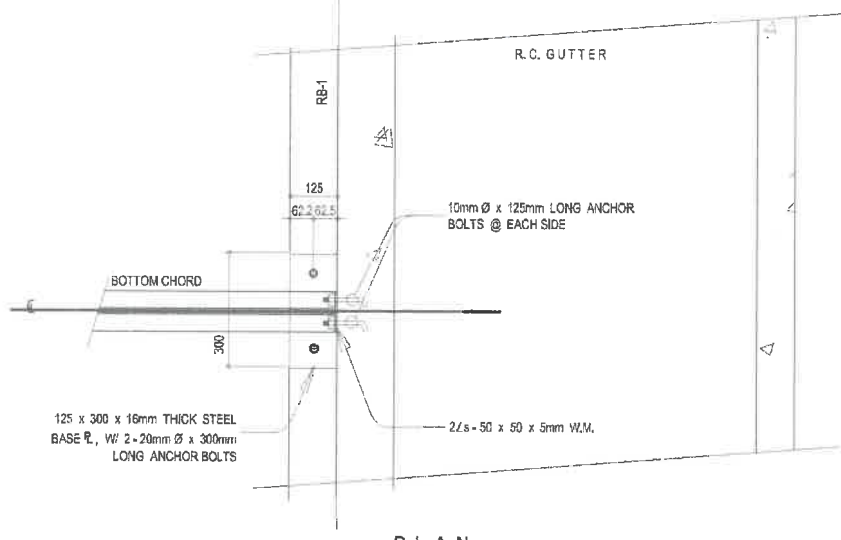


9 **ISOMETRIC VIEW OF CONNECTION OF ROOFING TO PURLINS**
S-6 NOT TO SCALE

<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	<p>DRAWN BY JUNELSON P. CULLADO CAD OPERATOR DepED-EFD</p>	<p>CHECKED BY WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-EFD</p>	<p>RECOMMENDING APPROVAL : ANNABELLE R. MANGIN CHIEF EDF-DepED</p>	<p>RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES</p>	<p>APPROVED BY : GINA U. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING</p>	<p>APPROVED BY : GINA U. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING</p>	<p>PROJECT TITLE PROPOSED LIBRARY HUB BUILDING</p>	<p>PROJECT CODE</p>	<p>OWNER : DEPARTMENT OF EDUCATION DepED</p>	<p>SHEET NO. S-6 8</p>
	<p>SHEET CONTENTS : DETAIL 1,2,3,4 DETAIL CONN. CROSS-BRACING ROOFING FIXER DETAIL CONN. OF PURLIN TO TOP CHORD DETAIL OF PURLIN SPLICE ISOMETRIC VIEW OF CONNECTION OF ROOFING</p>									

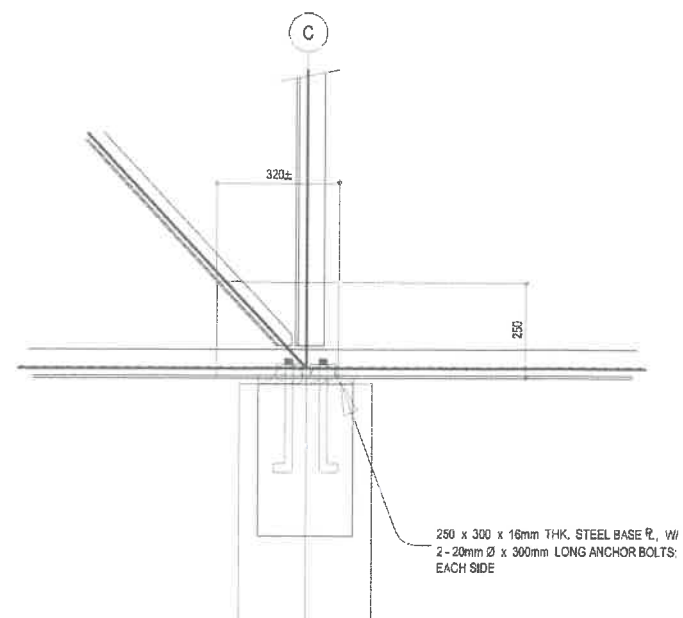


ELEVATION

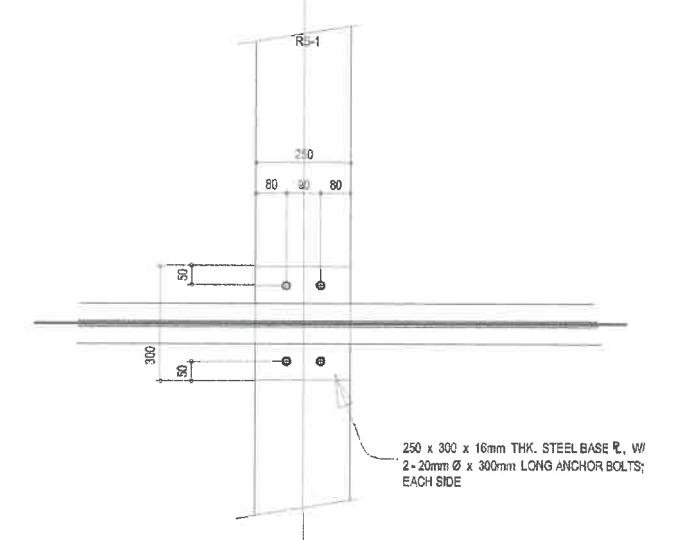


PLAN

1 DETAIL OF TRUSS ANCHORAGE @ GRID LN. A & D
S-7 SCALE 1:10m

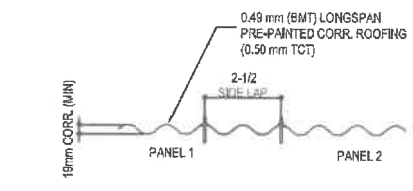


ELEVATION

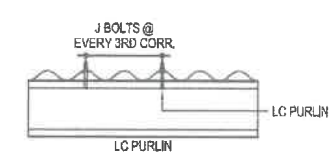


PLAN

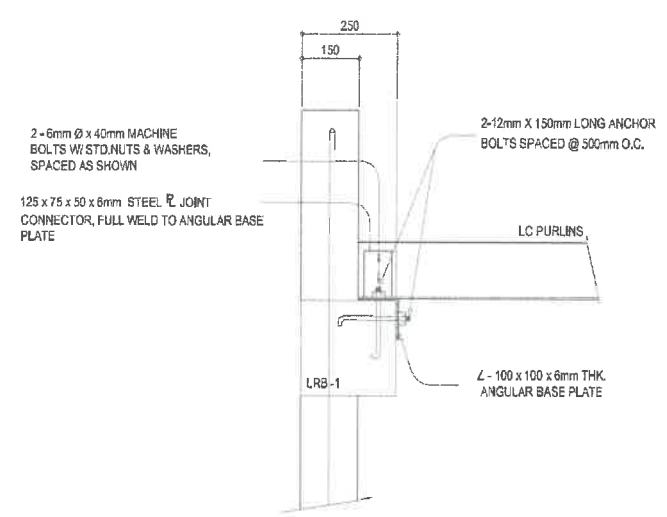
2 DETAIL OF TRUSS ANCHORAGE @ GRID LN. C
S-7 SCALE 1:10m



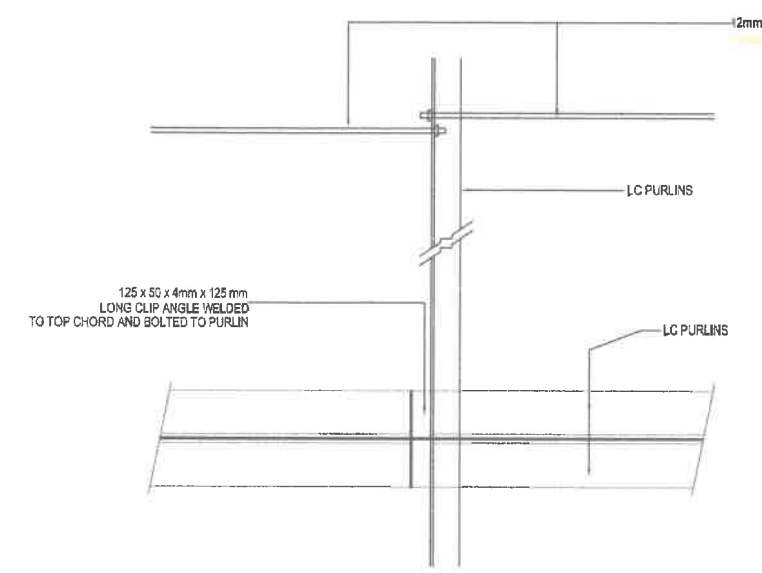
4 J-BOLT SPACING
S-7 SCALE 1:10M



5 ROOF PANEL SIDE LAP DETAIL
S-7 SCALE 1:10M

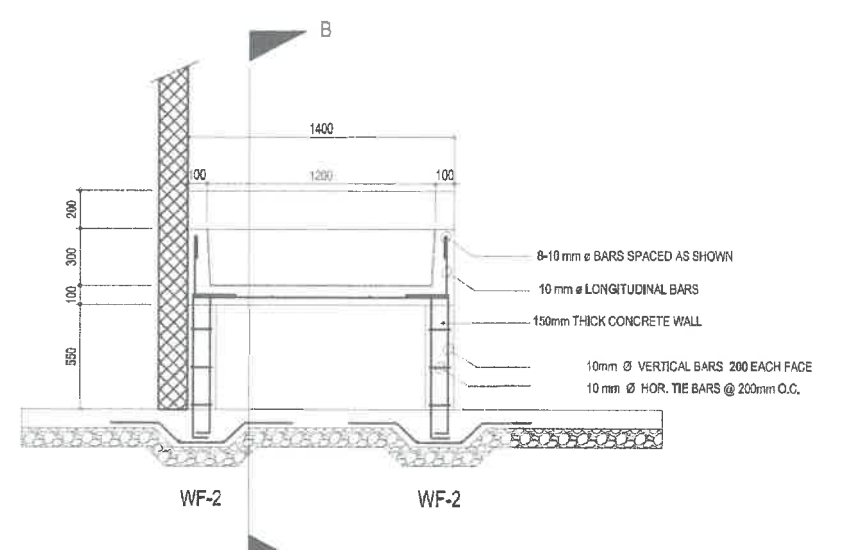
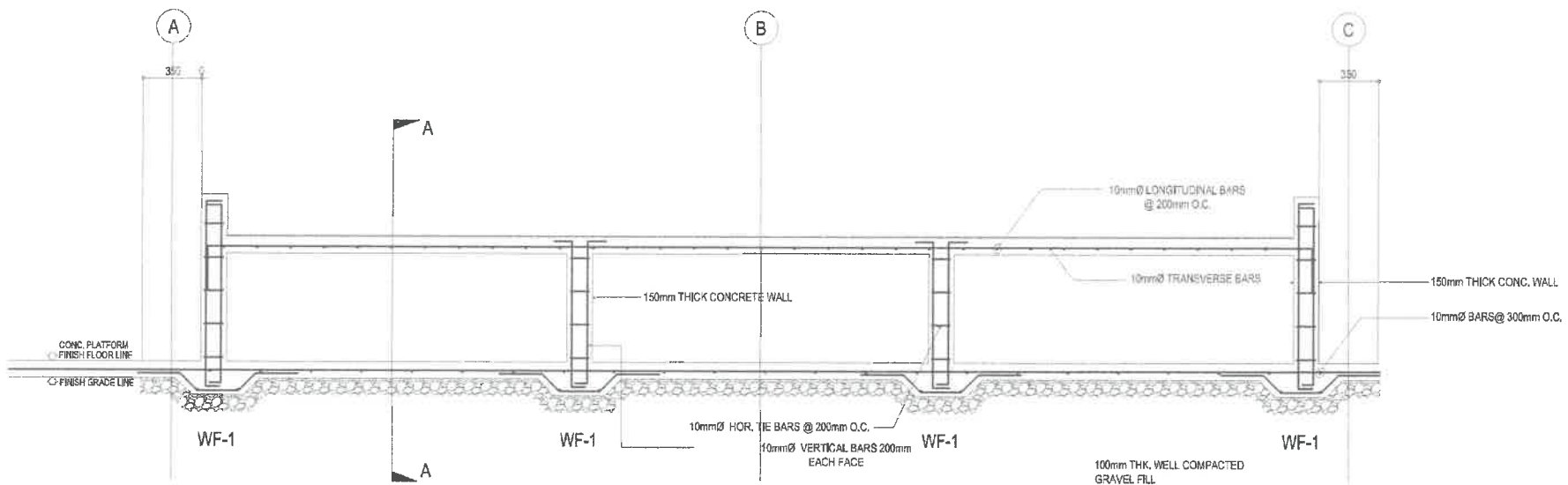
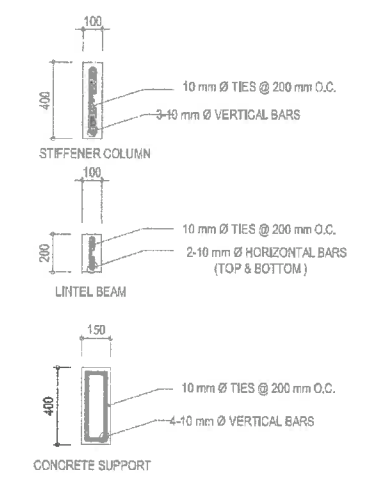
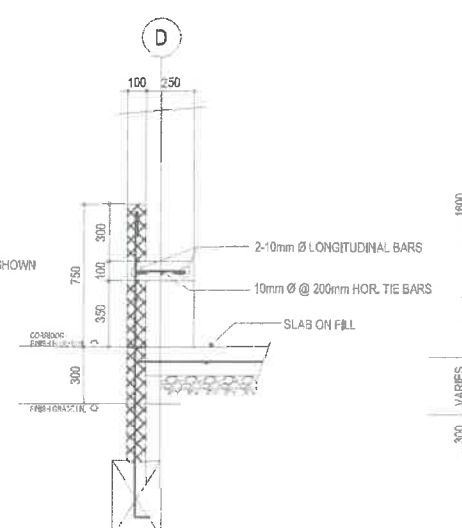
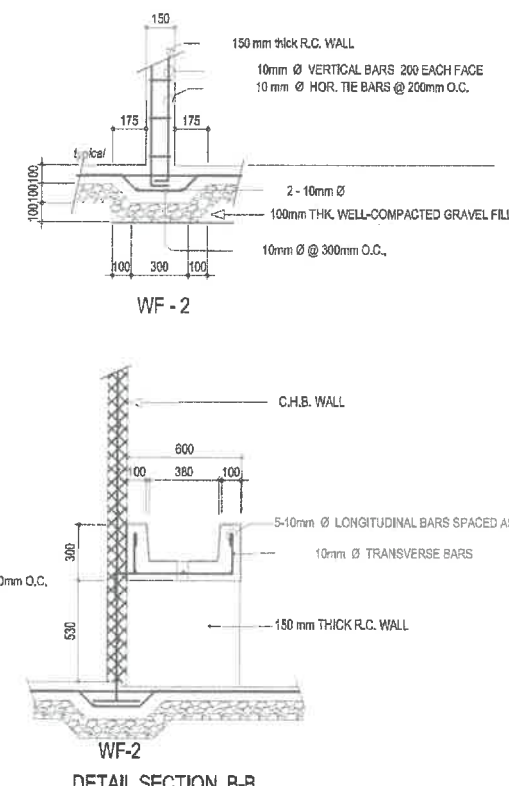
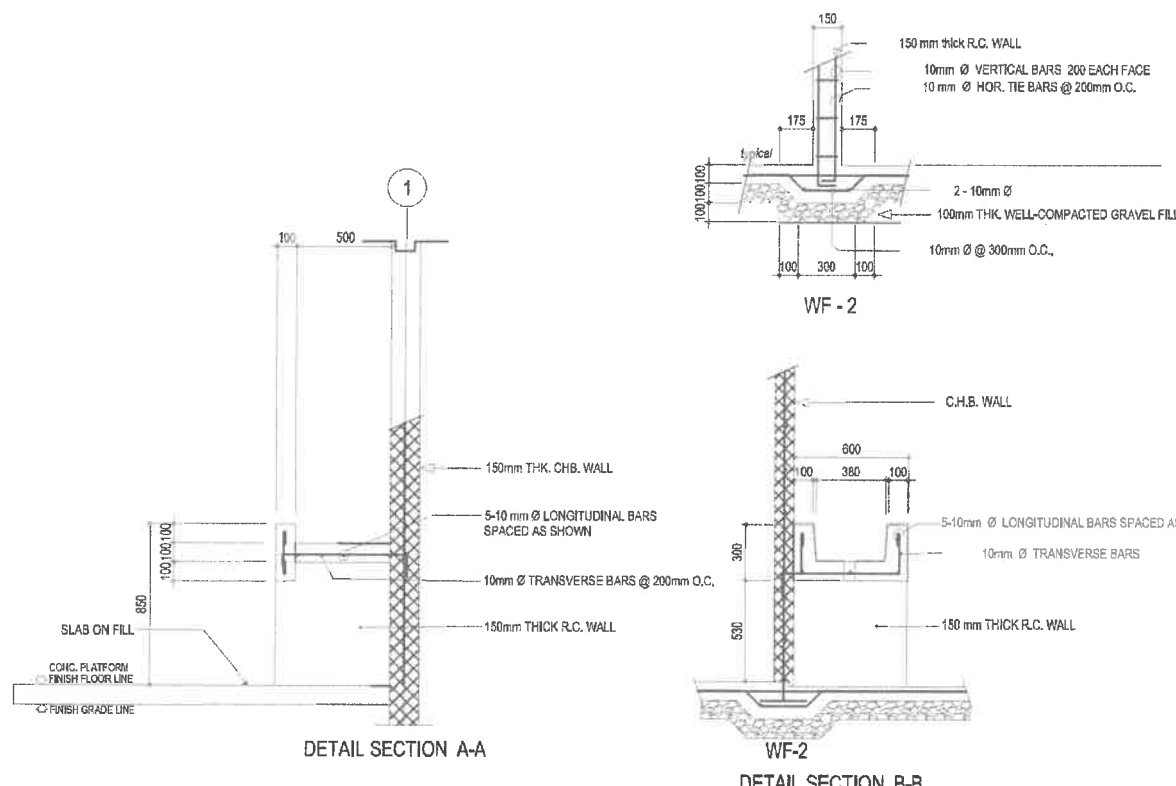


3 DETAIL CONN. OF PURLINS TO END-WALL
S-7 SCALE 1:10m

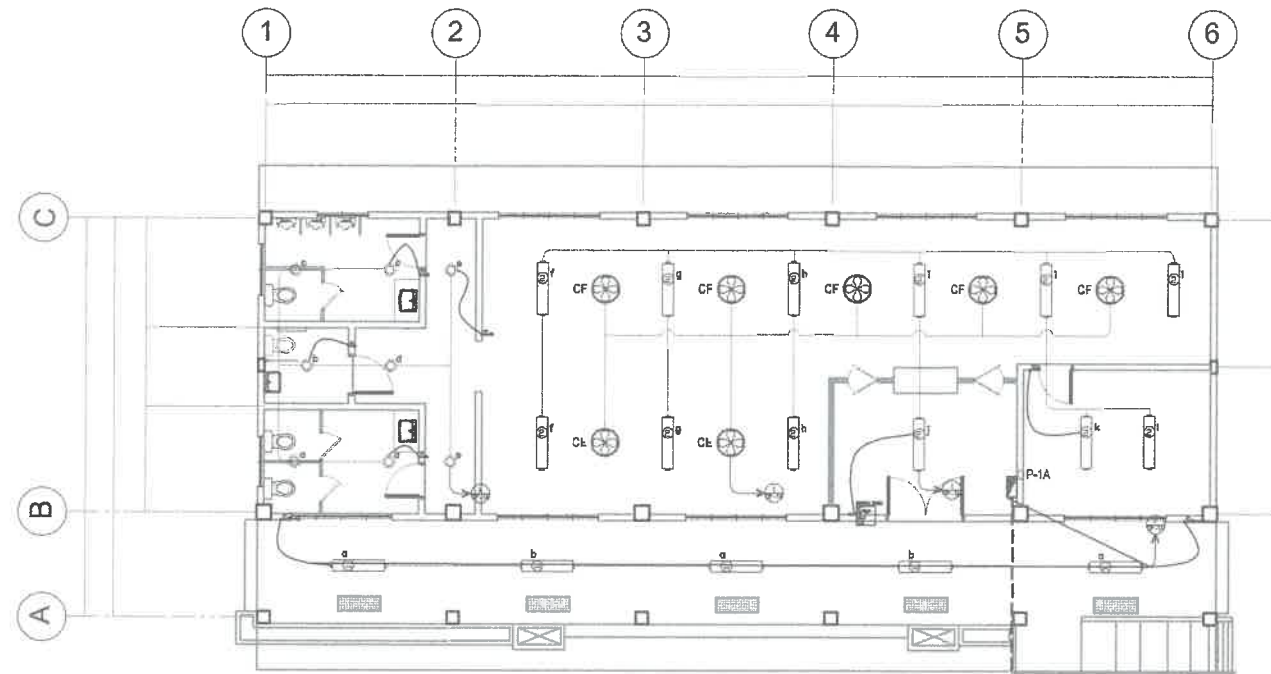


6 DETAIL OF PURLIN TO SAG ROD CONNECTION
S-7 SCALE 1:10M

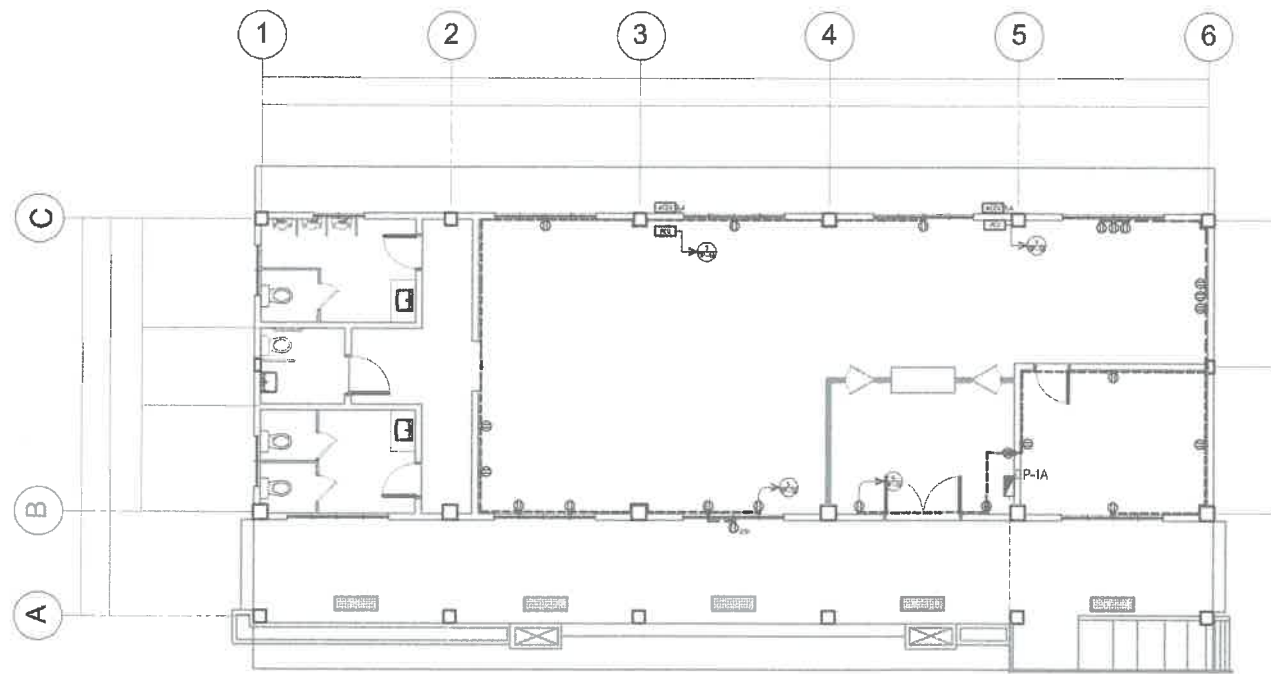
REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY	DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	RECOMMENDING APPROVAL :	APPROVED BY :	APPROVED BY :	PROJECT TITLE :	PROJECT CODE :	OWNER :	SHEET NO. :
	 JUNELSON P. CULLADO CAO OPERATOR DepED-EPD	 WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-EPD	 ANNABELLE R. BAGAN CHIEF EDF-DepED	 ARIZ DEILSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	 EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	 GIN LOZONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROPOSED LIBRARY HUB BUILDING		DEPARTMENT OF EDUCATION DepED	SHEET CONTENTS : -DETAIL OF TRUSS ANCHORAGE @ GRID LN.A & D -DETAIL OF TRUSS ANCHORAGE @ GRID LN.C -DETAIL CONNECTION OF PURLINS TO END-WALL -J-BOLT SPACING -ROOF PANEL SIDE LAP DETAIL -DETAIL OF PURLIN TO SAG ROD CONNECTION



<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	<p>DRAWN BY</p> <p><i>Juni</i> JUNIELSON P. CULLADO CAD OPERATOR DepED-EFD</p>	<p>CHECKED BY</p> <p><i>W. Alarcon</i> WILFREDO D. ALARCON STRUCTURAL ENGINEER DepED-EFD</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Annabelle</i> ANNABELLE B. PANGAN CHIEF EDF-DepED</p>	<p>RECOMMENDING APPROVAL</p> <p><i>Ariz</i> ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES</p>	<p>APPROVED BY :</p> <p><i>Epimaco</i> EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES</p>	<p>APPROVED BY :</p> <p><i>Gina</i> GINA G. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING</p>	<p>PROJECT TITLE :</p> <p>PROPOSED LIBRARY HUB BUILDING</p>	<p>PROJECT CODE :</p>	<p>OWNER :</p> <p>DEPARTMENT OF EDUCATION DepED</p>	<p>SHEET NO. :</p> <p>S-8 8</p>
	<p>SHEET CONTENTS : DETAILS OF LAVATORY, DETAIL OF CONCRETE SEATING DETAIL, WALL DETAIL, DETAIL OF TOILET PARTITION, DETAIL OF HANDWASH, DETAILS OF LAVATORY @ TOILET</p>									



1 LIGHTING LAYOUT GROUND FLOOR PLAN
 E-1 SCALE 1:100M
 PROPOSED OVERHEAD ELECTRICAL SERVICE ENTRANCE (REFER TO ELECTRICAL RISER DIAGRAM)
 NOTE: VERIFY EXACT LOCATION



2 POWER LAYOUT GROUND FLOOR PLAN
 E-1 SCALE 1:100M
 PROPOSED OVERHEAD ELECTRICAL SERVICE ENTRANCE (REFER TO ELECTRICAL RISER DIAGRAM)
 NOTE: VERIFY EXACT LOCATION

LIGHTINGS SPECIFICATION :	
	-2-28W LEDT5 (IP40),(1200mm) RECESSED-MOUNTED, COB, 5000K-6000K, DAY LIGHT AC 85V - 265V 50/60 Hz (MIRRORIZED REFLECTOR EGGCRATE)
	-1-28W LED T5 (IP40),(1200mm) RECESSED-MOUNTED, COB, 5000K-6000K, DAY LIGHT AC 85V - 265V 50/60 Hz (MIRRORIZED REFLECTOR EGGCRATE)
	-18W LED DOWNLIGHT (IP40),RECESSED-MOUNTED, COB, 2700-3500K,WARM LIGHT AC 85V - 265V 50/60 Hz

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY	DRAWN BY JOHN PAUL B. LICARDO ENGINEER I DepED-EFD	CHECKED BY SIGMUND SANCHEZ PROFESSIONAL ELECTRICAL ENGINEER DepED-EFD	RECOMMENDING APPROVAL : AMBASSEL R. PANGAN CHIEF EFD-DepED	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA G. GORONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO. : E-1 2
	SHEET CONTENTS : - LIGHTING LAYOUT - LIGHTING SPECIFICATIONS - POWER LAYOUT									

GENERAL NOTES

ALL ELECTRICAL WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), EXISTING LOCAL ORDINANCES, RULES AND REGULATIONS OF THE UTILITY COMPANY.

ALL MATERIALS (EQUIPMENT AND DEVICES) TO BE INSTALLED BY THE CONTRACTOR SHALL BE NEW AND SHALL BEAR THE CERTIFICATION MARK (PHILIPPINE STANDARD QUALITY MARK OR IMPORT COMMODITY CLEARANCE) ISSUED BY THE DEPARTMENT OF TRADE AND INDUSTRY-BUREAU OF PRODUCT STANDARDS (DTI-BPS) FOR SPECIFIC PURPOSES

STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATION SHALL BE USED.

ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE EFFECTIVELY GROUNDED.

ALL DIMENSIONS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED AS ACTUAL LOCATIONS, DISTANCES AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS.

PROVIDE PULLBOX AS NEEDED TO FACILITATE INSERTION AND WITHDRAWAL OF WIRES WITHOUT ABRASION, CONDUIT BENDS SHALL BE MADE IN SUCH A WAY THAT THE INTERNAL DIAMETER IS NOT REDUCED.

WIRE SPLICES SHALL BE MECHANICALLY AND ELECTRICALLY SECURED. TAPS, JOINTS AND SPLICES LARGER THAN 5.5mm² SHALL BE MADE WITH THE USE OF SOLDER-LESS COPPER CONNECTION. THEY SHALL BE COVERED WITH ELECTRICAL TAPE EQUAL TO THE THICKNESS OF THE WIRE INSULATION.

CONDUIT ROUTING SHOWN SHOULD SUIT THE FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES AND OTHER TRADES. ANY CHANGES MUST BE COORDINATED WITH THE ENGINEER/OWNER AND HIS/HER REPRESENTATIVE.

ANY DISCREPANCY IN LOCATION AND RATING OF EQUIPMENT AND APARATUS SHALL BE VERIFIED WITH THE ENGINEER/OWNER OR ANY OF HIS REPRESENTATIVES AND CHANGES SHALL BE MADE ACCORDINGLY.

ALL PANELS, BREAKERS AND SWITCHES MUST BE APPROPRIATELY TAGGED WITH FEEDERS/PANELS/BREAKERS SUPPLYING THEM.

ALL ELECTRICAL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF DULY LICENSED ELECTRICAL ENGINEER.

MINIMUM WIRE SIZE SHALL BE 3.5mm² AND 8.0mm² FOR BRANCH CIRCUITS AND SERVICE FEEDERS RESPECTIVELY, MINIMUM CONDUIT SIZE SHALL BE 20mm DIAMETER..

GROUNDING CONNECTION SHOULD BE DONE BY EXOTHERMIC WELDING CONNECTION OR OTHER APPROVED SIMILAR PROCESS, MINIMUM GROUND RESISTANCE SHOULD BE 5 OHMS.

THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH, PROMPT AND WORKMANLIKE MANNER, EMPLOYING STANDARD TOOLS, EQUIPMENTS, AND GOOD ENGINEERING PRACTICES.

NEW BRANCH CIRCUITS SHALL BE LABELED AT THE ORIGINATING PANEL BOARD, ON THE PANEL BOARD LEGEND. THEY SHALL BE ALSO LABELED AT THE LOAD END ON THE RECEPTACLE, LIGHT SWITCH, OR THE PIECE OF EQUIPMENT (E.G. MOTOR STARTER, SAFETY SWITCH).

MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS :

- a. LIGHT SWITCH - 1.20 M ABOVE FINISH FLOOR
- b. CONVENIENCE OUTLET - 0.30 M ABOVE FINISH FLOOR
- c. PANEL BOARD - 1.80 M ABOVE FINISH FLOOR
- d. FIRE ALARM STATION OUTLET - 1.50 M. ABOVE FINISH FLOOR
- e. PUSH BUTTON OUTLET - 1.20 M ABOVE FINISH FLOOR
- f. FIRE ALARM & VIBRATING BELL - 0.30 M BELOW CEILING LINE

1 SCHEDULE OF LOADS

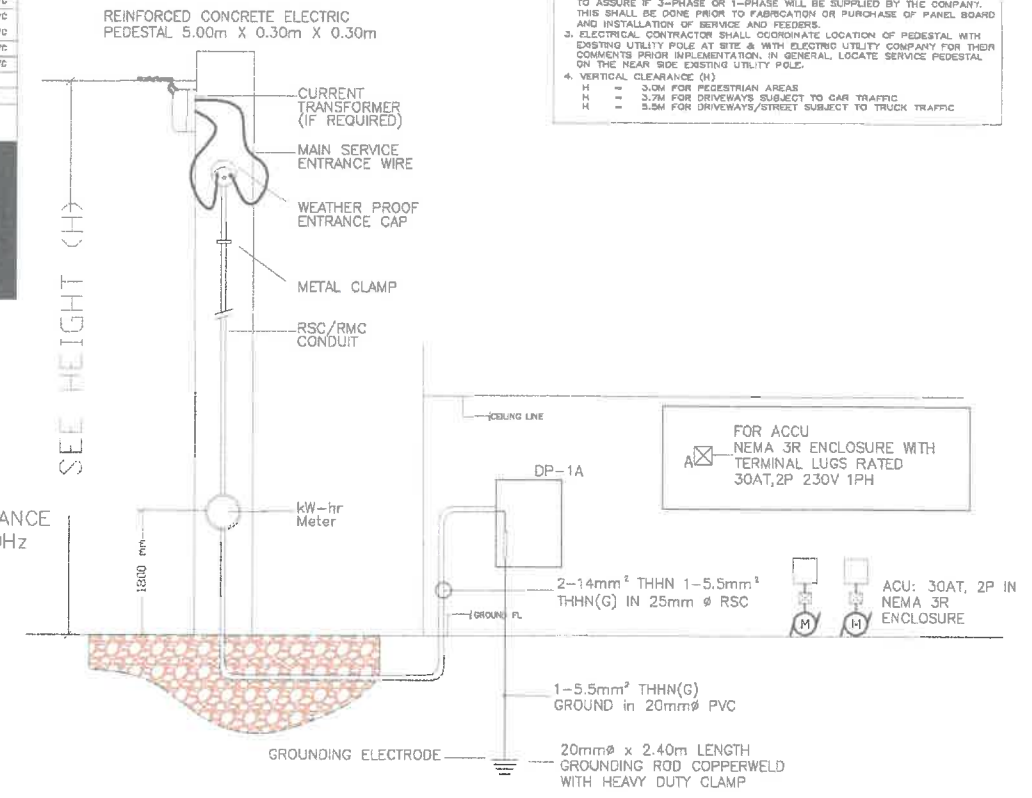
E-2

CMT. NO.	DESCRIPTION	VOLT-AMPERE	VOLTS	AMPERE	AMPERE			CIRCUIT BREAKER		WIRE SIZE (THHN)		CONDUIT SIZE (mm)
					AB	BC	CD	AT	AP	1	2	
1	LIGHTING OUTLET	720	230	3.13				30	50	2	2- 3.5 mm ²	20
2	CEILING FAN	480	230	2.08				20	50	2	2- 3.5 mm ²	20
3	LIGHTING OUTLET	360	230	1.56				20	50	2	2- 3.5 mm ²	20
4	LIGHTING OUTLET	480	230	2.09				20	50	2	2- 3.5 mm ²	20
5	CONVENIENCE OUTLET	1800	230	7.83				20	50	2	2- 3.5 mm ²	20
6	CONVENIENCE OUTLET	2160	230	9.39				20	50	2	2- 3.5 mm ²	20
7	ACU 3HP	2160	230	9.39				30	50	2	2- 6.5 mm ²	25
8	ACU 3HP	2160	230	9.39				30	50	2	2- 6.5 mm ²	25
9	SPARE	1000	230	4.35				20	50	2		
10	SPARE	1000	230	4.35				20	50	2		
TOTAL		13188		58.70	0.00	0.00	0.00					

FOR FEEDER CURRENT		SIZE FOR MAIN FEEDER		FOR MAIN BREAKER SIZE	
3PH - 1PH LOAD	58.70 A	2 - 14mm ²	2 - 5.5mm ²	70	AT
75% CONTINUOUS LOAD	1.00 A			100	AP
HIGHEST CURRENT MOTOR	12.00 A			2	D
DEMAND FACTOR	85%			19	KAIC
TOTAL LOAD CURRENT	49.36 A	CONDUIT SIZE		BRANCHES	
		25 mm		10	

2 SINGLE LINE DIAGRAM

E-2

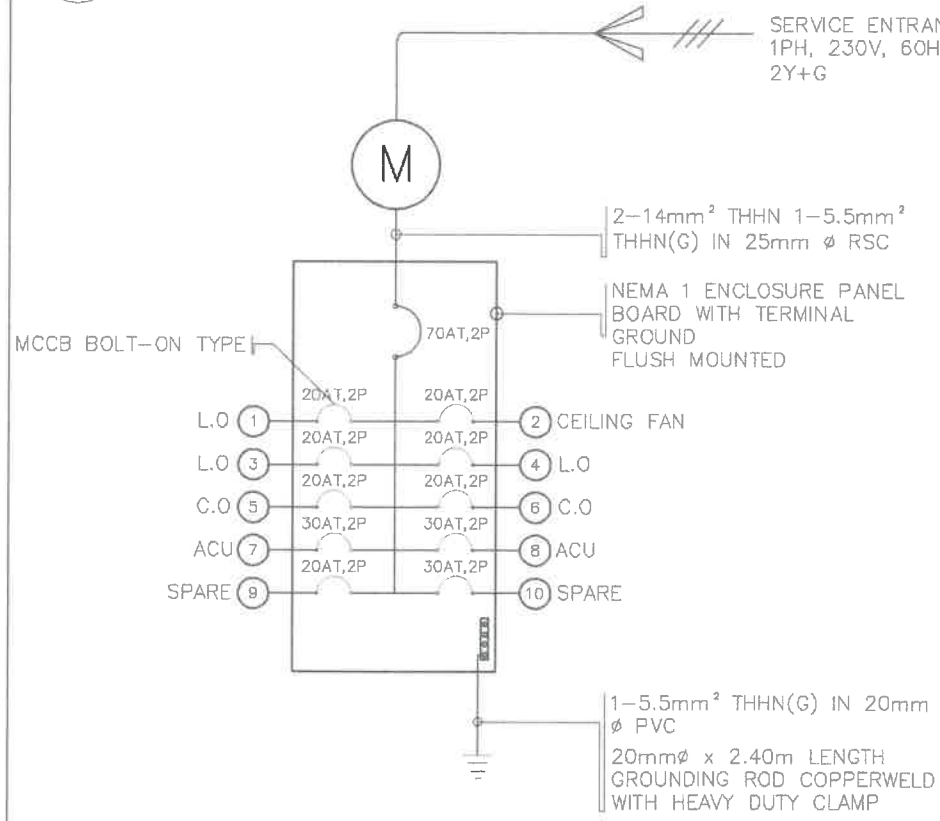


IMPORTANT NOTES:

- STRUCTURAL DESIGN/DETAILS OF PEDESTAL SHALL BE COORDINATE WITH STRUCTURAL ENGINEER PRIOR TO IMPLEMENTATION.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY COMPANY OF THE TOTAL LOAD REQUIREMENTS OF THE PROJECT TO ASSURE TO ASSURE 3-PHASE OR 1-PHASE WILL BE SUPPLIED BY THE COMPANY. THIS SHALL BE DONE PRIOR TO FABRICATION OR PURCHASE OF PANEL BOARD AND INSTALLATION OF SERVICE AND FEEDERS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF PEDESTAL WITH EXISTING UTILITY POLE AT SITE & WITH ELECTRIC UTILITY COMPANY FOR THEIR COMMENTS PRIOR TO IMPLEMENTATION. IN GENERAL, LOCATE SERVICE PEDESTAL ON THE NEAR SIDE EXISTING UTILITY POLE.
- VERTICAL CLEARANCE (H)
 H = 3.0M FOR PEDESTRIAN AREAS
 H = 3.7M FOR DRIVEWAYS SUBJECT TO CAR TRAFFIC
 H = 5.5M FOR DRIVEWAYS/STREET SUBJECT TO TRUCK TRAFFIC

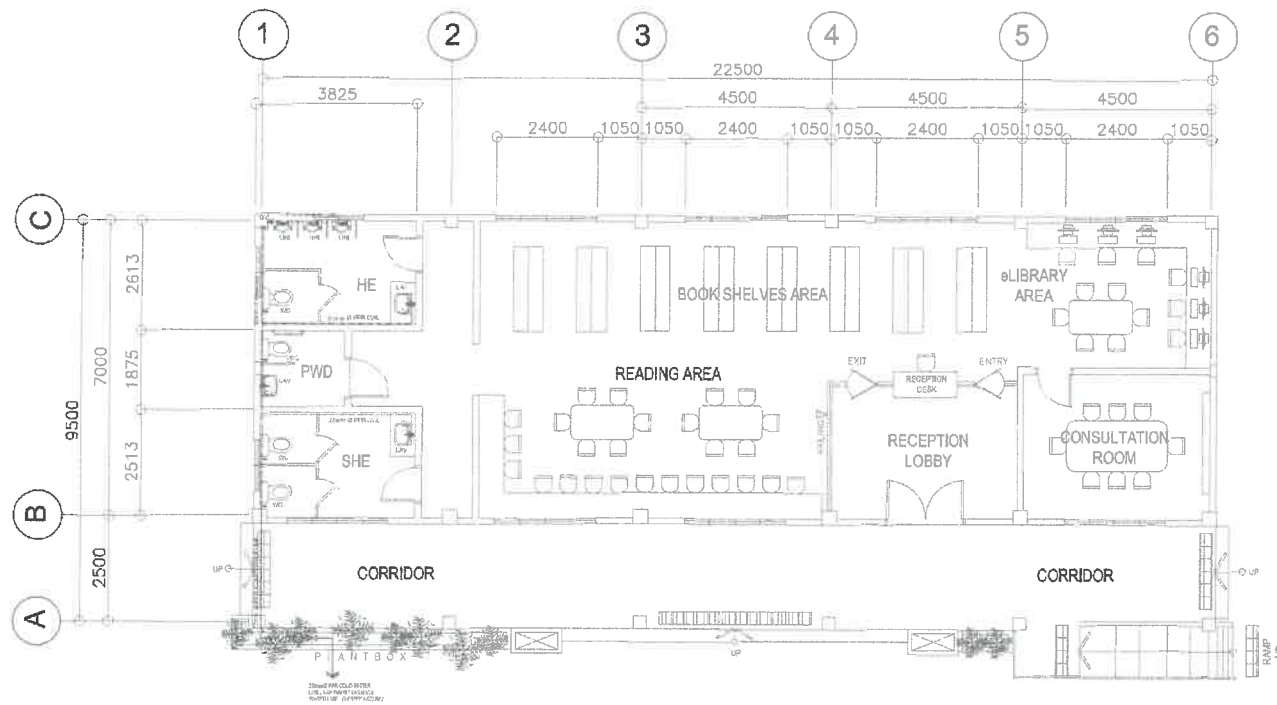
3 ELECTRICAL RISER DIAGRAM

E-2

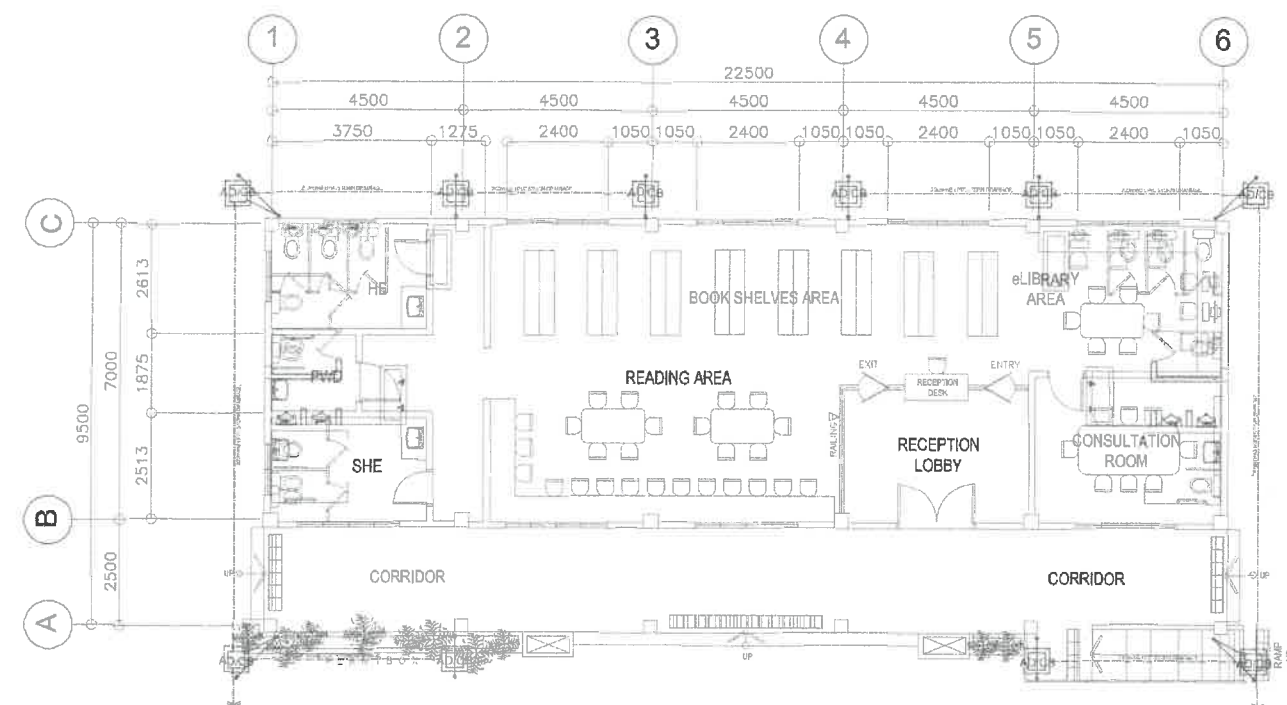


LEGEND

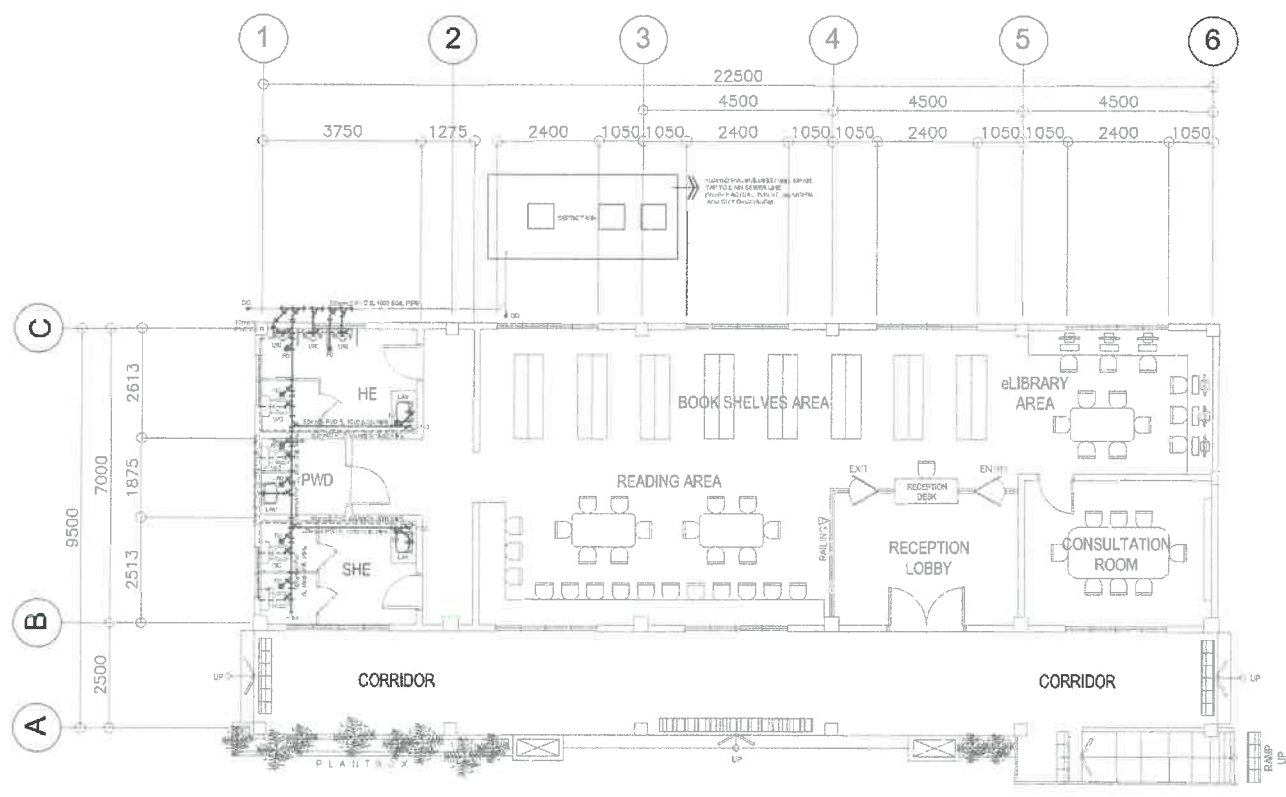
SYMBOL	DESCRIPTION
Sa	ONE GANG DEVICE SWITCH
Sab	TWO GANG DEVICE SWITCH
Sabc	THREE GANG DEVICE SWITCH
3WSx	THREE WAY ONE GANG DEVICE SWITCH
CF	CEILING FAN
---	RACEWAY CONDUIT CONCEALED IN CEILING
----	RACEWAY CONDUIT CONCEALED UNDER FLOOR/GROUND
MPD/DPA/DPB	PANELBOARD, MARKED AS "MPD/DPA/DPB"
CB	CKT. BREAKER, RATING AS INDICATED
DU	DUPLEX CONVENIENCE OUTLET, UNIVERSAL SLOTS, GROUNDING TYPE, 16 AMPS, 250 VOLT
HR	CIRCUIT HOMERUN
SM	SERVICE METER
SE	SERVICE ENTRANCE



1 WATER LINE LAYOUT
P-1 SCALE 1:100M

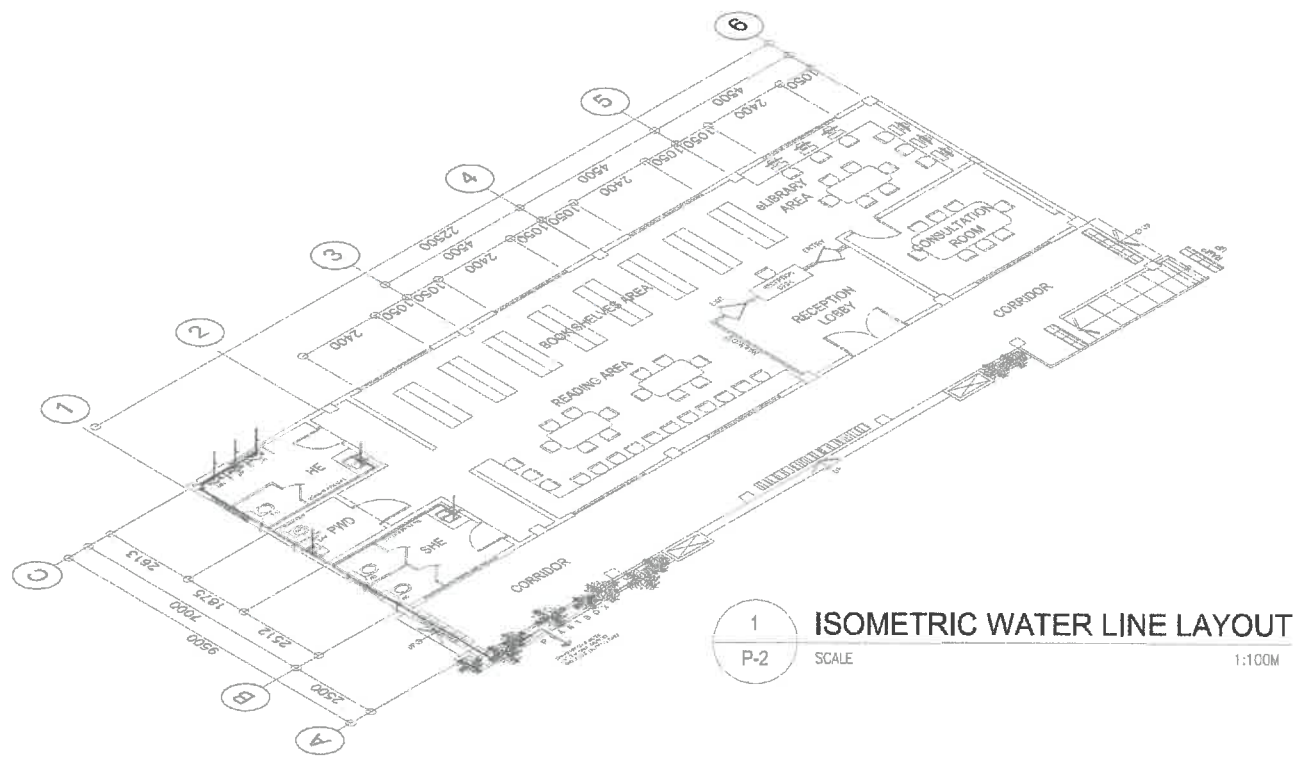


3 STORM DRAINAGE LAYOUT
P-1 SCALE 1:100M

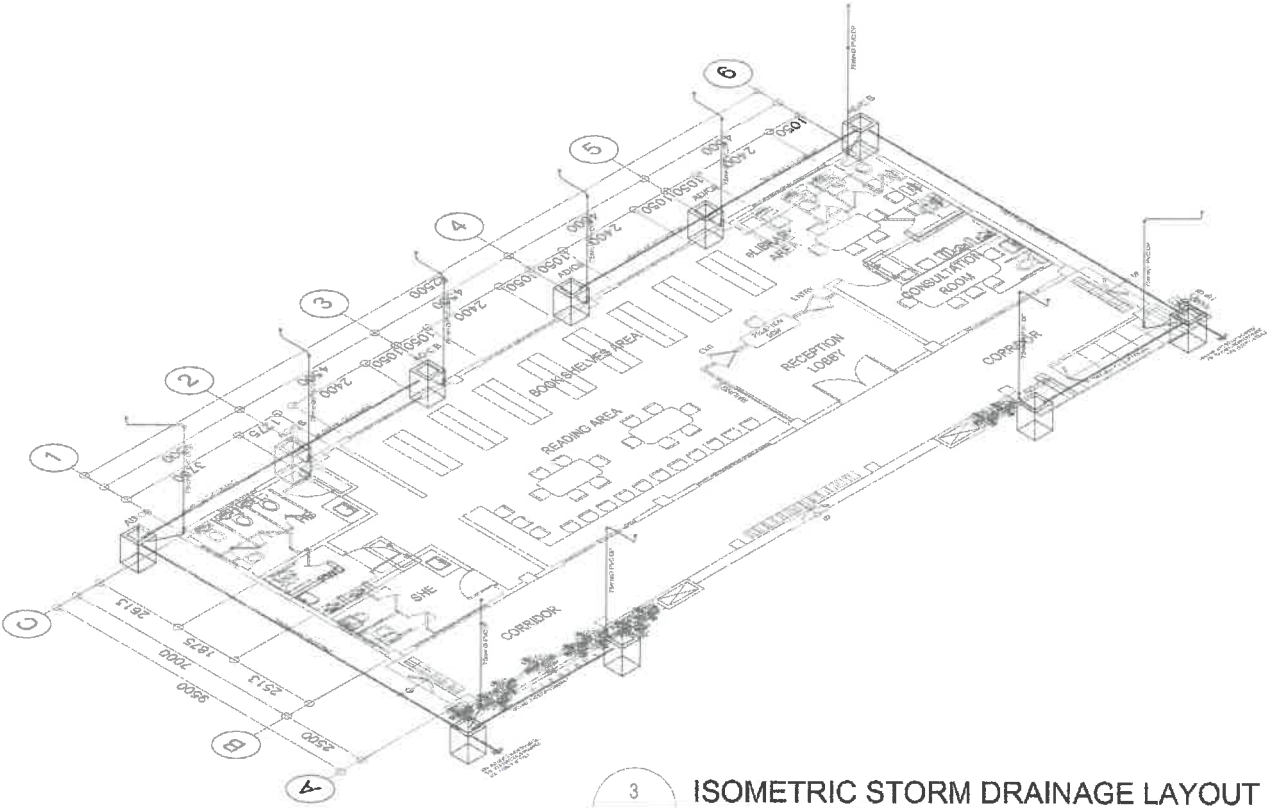


2 SEWER LINE LAYOUT
P-1 SCALE 1:100M

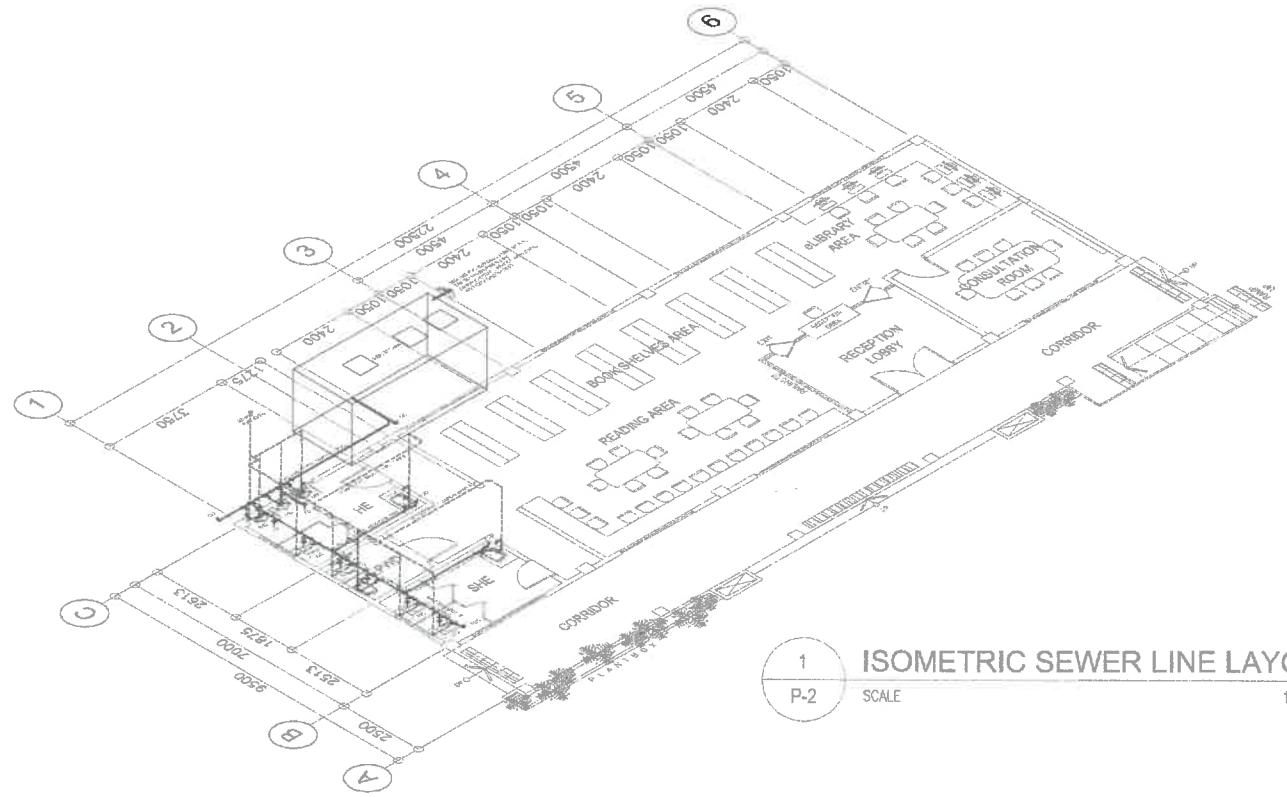
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY</p>	DRAWN BY : JUNELSON P. COLLADO CAO OPERATOR DepED-EFD	CHECKED BY : ALDRIN C. TASIO MASTER PLUMBER DepED-EFD	RECOMMENDING APPROVAL : ANNABELLE T. MANGANA CHIEF EFD-DepED	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA O. CONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO. : P-1 4
	SHEET CONTENTS : - WATER LINE LAYOUT - SEWER LINE LAYOUT - STORM DRAINAGE LAYOUT									



1 ISOMETRIC WATER LINE LAYOUT
P-2 SCALE 1:100M



3 ISOMETRIC STORM DRAINAGE LAYOUT
P-2 SCALE 1:100M



1 ISOMETRIC SEWER LINE LAYOUT
P-2 SCALE 1:100M

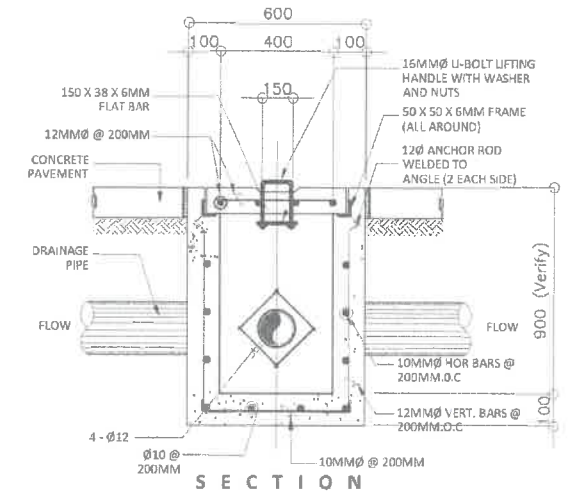
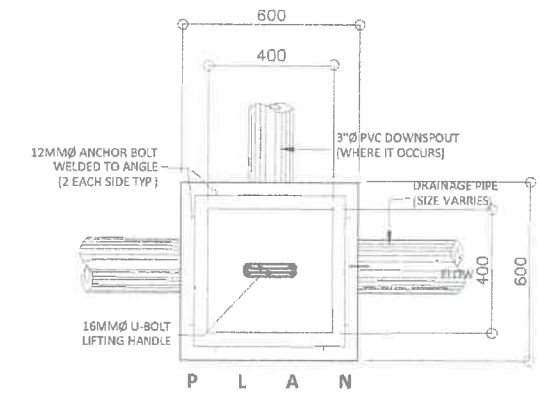
<p>REPUBLIC OF THE PHILIPPINES DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MFRALCO AVENUE, PASIG CITY</p>	DRAWN BY : JUNILSON P. COLLADO CAD OPERATOR DepED-EFD	CHECKED BY : ALDRIN C. TAZAO MASTER PLUMBER DepED-EFD	RECOMMENDING APPROVAL : ANNABELLE R. FAJON CHIEF EDC-DepED	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENISING UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA O. GONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO : P-2 4
	SHEET CONTENTS : - ISOMETRIC WATER LINE LAYOUT - ISOMETRIC SEWER LINE LAYOUT - ISOMETRIC STORM DRAINAGE LAYOUT									

PLUMBING NOTES:

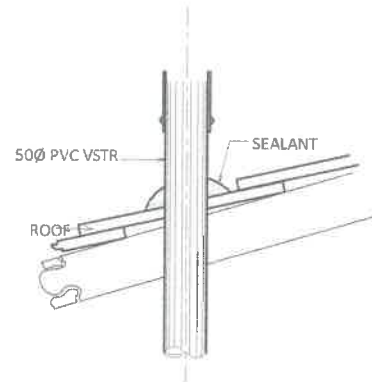
- GRADES OF HORIZONTAL PIPING**
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT AND AT A FORM GRADE OF NOT LESS THAN TWO PERCENT (2%).
- CHANGE IN DIRECTION**
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONGSWEEP QUARTER BEND, SIX-EIGHT OR SIXTEENTH BENDS. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL, 1/8 BEND COMBINATION MAYBE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE. TEE AND CROSSES MAYBE USED IN VENT PIPES.
- PROHIBITED FITTINGS**
NO DOUBLE HUB OR TEE BRANCH SHALL BE USED ON HORIZONTAL WASTE LINES. THE DRILLINGS AND TAPPINGS OF HOUSE DRAIN, WASTE OR VENT PIPES AND USE OF SADDLE HUB AND BEND ARE PROHIBITED.
- SLEEVES**
PROVIDE PIPE SLEEVES AT WALLS, COLUMNS OR SLABS ONE SIZE BIGGER THAN THE ACTUAL SIZE PASSING THROUGH THE WALLS, COLUMNS OR UNDER SLAB TO PROTECT PIPE FROM BREAKAGE.
- PIPE CLEAN-OUTS**
PIPE CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS:
 - EVERY CHANGE IN HORIZONTAL DIRECTIONS EXCEEDING TWENTY-TWO AND ONE-HALF DEGREES (22 1/2°).
 - ONE AND ONE-HALF METERS (1.50 m) INSIDE THE PROPERTY LINE BEFORE THE HOUSE DRAINAGE CONNECTION.
 - EVERY FIFTEEN METERS (15.00 m) IN HORIZONTAL RUN OF PIPES.
 - AT THE END OF ANY HORIZONTAL PIPE LINES.
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 300 mm OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
- NO SEPTIC VAULT MUST BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING WORKS SHALL BE DONE BY A LICENSED MASTER PLUMBER AND A LICENSED PLUMBING CONTRACTOR.

PLUMBING LEGEND:

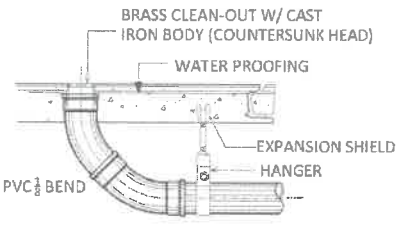
CD	CORRIDOR DRAIN	PVCSP	POLYVINYL CHLORIDE SOIL PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
CO	CLEAN OUT	PVCSS	POLYVINYL CHLORIDE SOIL STACK (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
CV	CHECK VALVE	PVCVP	POLYVINYL CHLORIDE VENT PIPE (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
FD	FLOOR DRAIN	PVCVS	POLYVINYL CHLORIDE VENT STACK (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
HB	HOSE BIBB	PVCVTR	POLYVINYL CHLORIDE VENT THROUGH ROOF (SERIES 600) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
G.I	GALVANIZED IRON	PVCWP	POLYVINYL CHLORIDE WASTE PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)
GT	GREASE TRAP	RD	ROOF DRAIN
GV	GATE VALVE	SD	SINK DRAIN
LAV	LAVATORY	UD	URINAL DRAIN
KS	KITCHEN SINK	WC	WATER CLOSET
MH	MANHOLE	WM	WATER METER
PPRC CWL	POLYPROPYLENE RANDOM COPOLYMER COLD WATER LINE, TYPE 3, PN 20 (ISO 15874 / JOINING BY SOCKET FUSION)		
PPRC CWR	POLYPROPYLENE RANDOM COPOLYMER COLD WATER RISER, TYPE 3, PN 20 (ISO 15874 / JOINING BY SOCKET FUSION)		
PVCDP	POLYVINYL CHLORIDE DRAIN PIPE (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)		
PVCDS	POLYVINYL CHLORIDE DOWNSPOUT (SERIES 1000) (ASTM D2729 / ASTM D3311, ISO 4435 / ASTM D2564)		



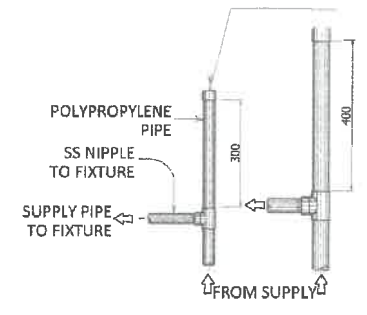
CATCH BASIN DETAILS



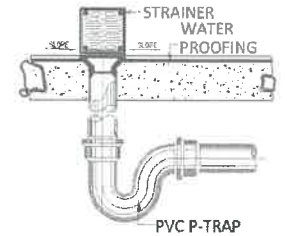
VENT STACK THRU ROOF



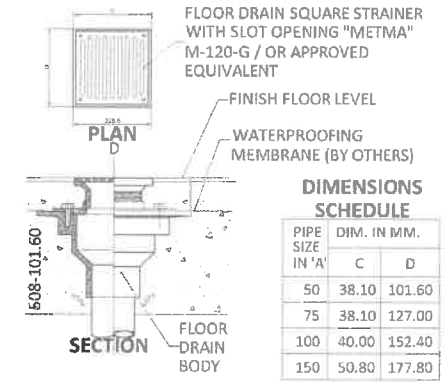
DETAIL OF FLOOR CLEAN OUT



AIR CHAMBER



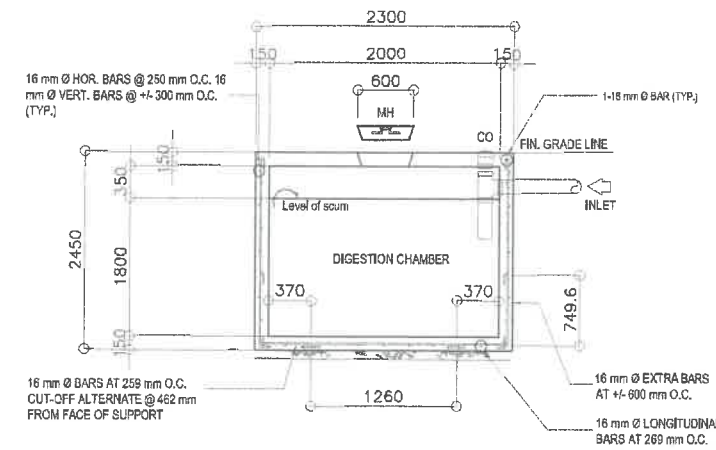
PVC P-TRAP



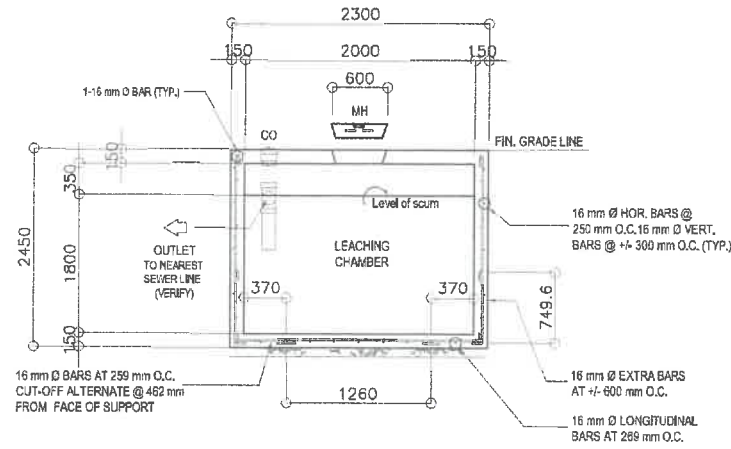
FLOOR DRAIN DETAILS

REPUBLIC OF THE PHILIPPINES DepED DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY	DRAWN BY :	CHECKED BY :	RECOMMENDING APPROVAL :	RECOMMENDING APPROVAL :	APPROVED BY :	APPROVED BY :	PROJECT TITLE :	PROJECT CODE :	OWNER :	SHEET NO :
	JUNELSON P. CULLADO CAO OPERATOR DepED-EFD	ALDRIN S. TAGAO MASTER PLUMBER DepED-EFD	ANABELLE R. PANGIN CHIEF EFD-DepED	ARIZ DELSON ACAY D. CAWILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	EPIMACO V. DENISING UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	GINA O. MONONG UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROPOSED LIBRARY HUB BUILDING		DEPARTMENT OF EDUCATION DepED	SHEET CONTENTS : PLUMBING NOTES, LEGENDS AIR CHAMBER, VENT STACK THRU ROOF FLOOR DRAIN DETAILS, CLEAN OUT, CATCH BASIN

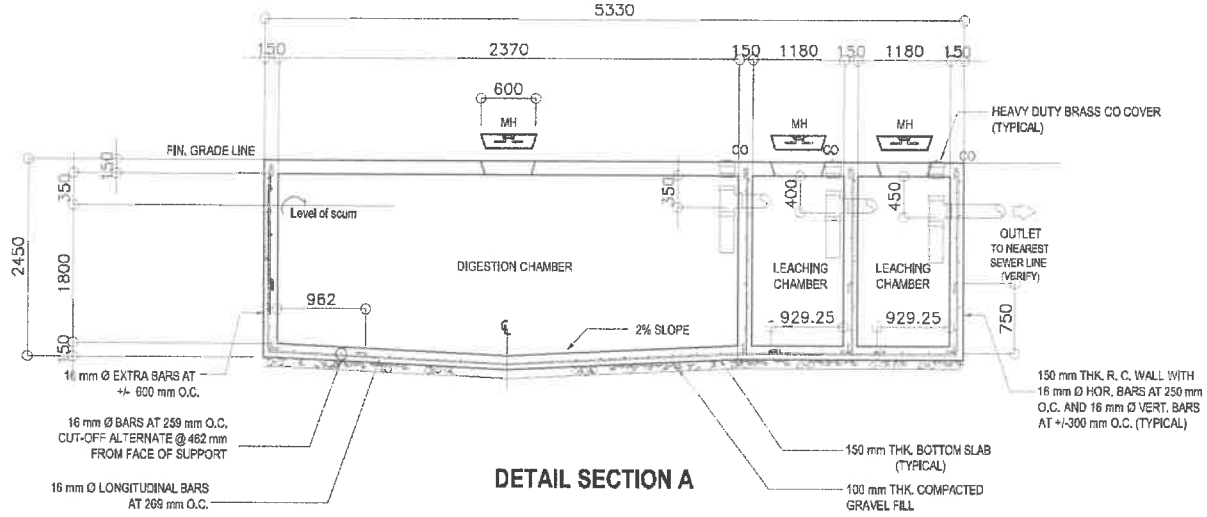
SCHEDULE OF TOP SLAB REINFORCEMENT		
MARK	TOP SLAB	
	SHORT DIRECTION	LONG DIRECTION
S-1	16 mm Ø BARS @ 195 mm C. C. BENT-UP 2 OUT OF 3 @ L/4 FROM FACE OF SUPPORT	16 mm Ø BARS @ 190 mm O. C. TEMPERATURE BARS
S-2	16 mm Ø BARS @ 225 mm ON CENTER	16 mm Ø BARS @ 150 mm ON CENTER



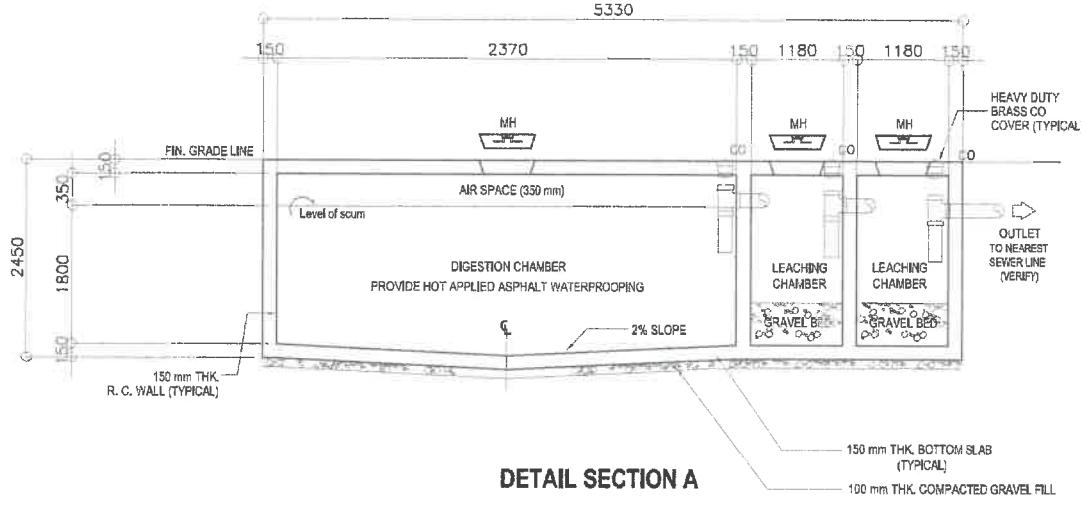
DETAIL SECTION B



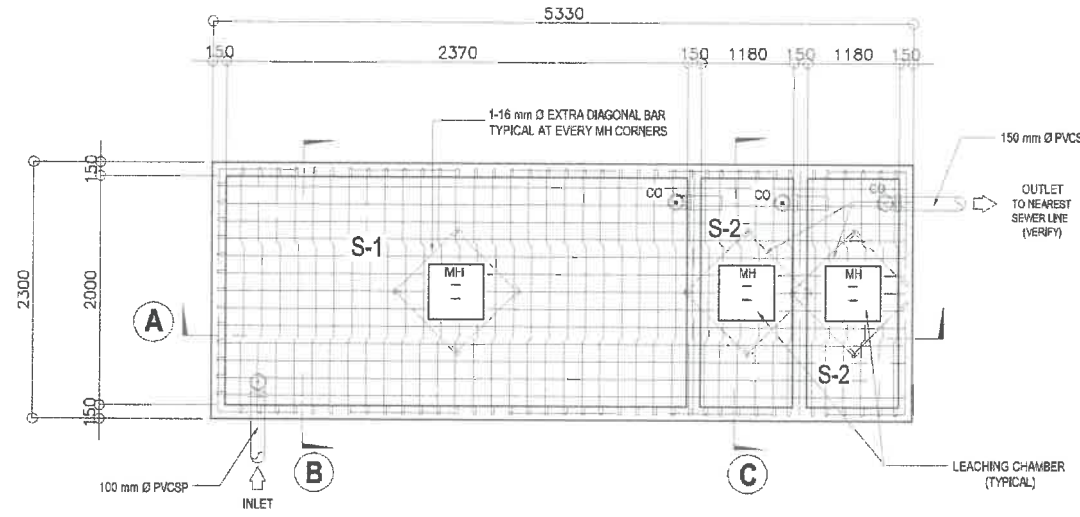
DETAIL SECTION C



DETAIL SECTION A

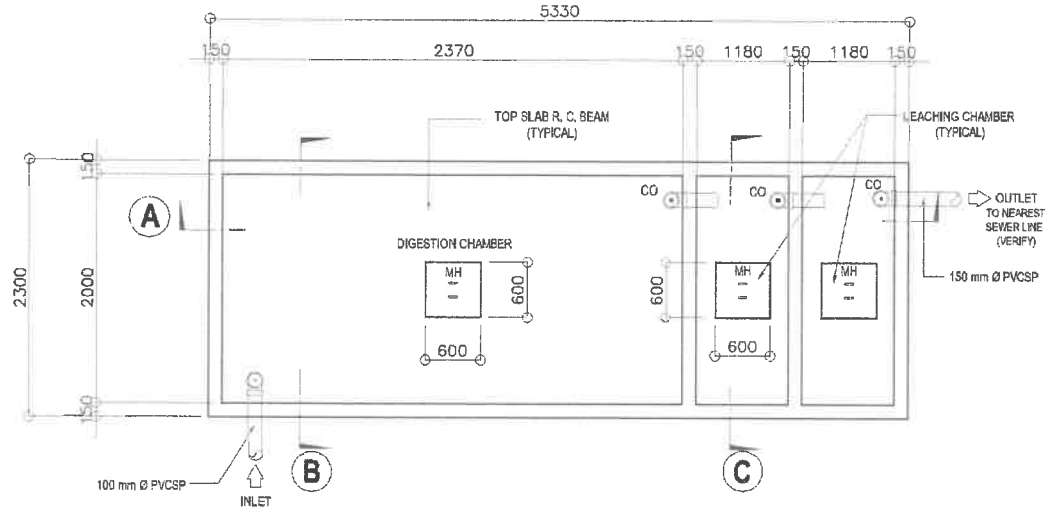


DETAIL SECTION A



DETAIL PLAN (TOP SLAB)

2
P-8 SCALE 1:40 MTS.
DETAIL OF SEPTIC VAULT (with REINFORCING BARS)



DETAIL PLAN (TOP SLAB)

3
P-8 SCALE 1:40 MTS.
DETAIL OF SEPTIC VAULT

 DEPARTMENT OF EDUCATION EDUCATION FACILITIES DIVISION MERALCO AVENUE, PASIG CITY	DRAWN BY : JUNELSON P. COLLADO CAD OPERATOR DepED-EFD	CHECKED BY : ALDRIN C. TANAEO MASTER PLUMBER DepED-EFD	RECOMMENDING APPROVAL : ANNABELLE R. PANGAN CHIEF EOP-DepED	RECOMMENDING APPROVAL : ARIZ DELSON ACAY D. CAMILAN DIRECTOR IV BUREAU OF LEARNING RESOURCES	APPROVED BY : EPIMACO V. DENISING III UNDERSECRETARY FOR SCHOOL INFRASTRUCTURE AND FACILITIES	APPROVED BY : GINA G. GONING UNDERSECRETARY FOR CURRICULUM AND TEACHING	PROJECT TITLE : PROPOSED LIBRARY HUB BUILDING	PROJECT CODE :	OWNER : DEPARTMENT OF EDUCATION DepED	SHEET NO. : P-4 4
	SHEET CONTENTS : SEPTIC TANK DETAILS									