



Republic of the Philippines
 Department of Agriculture
Philippine Center for Postharvest Development and Mechanization
 Science City of Muñoz, Nueva Ecija, Philippines
 Telephone Nos. 09328696837 (Sun); 09178130852 (Globe) loc. 141/142/143/144;
 Email add.: amp@philmech.gov.ph

REQUEST FOR QUOTATION

RFQ No. : 23-03-271
 PR No. : 23-03-E-144

Please quote your lowest price on the item/s listed below, subject to the General Conditions on the last page, stating the shortest time of delivery and submit your quotation duly signed by your representative not later than April 4, 2023.

Through sealed bid.

The Philippine Center for Postharvest Development and Mechanization (PHilMech) reserves the right to reject any or all bids/quotations, to refuse to make an award for any item/s due to budget limitation, procurement regulations, or other similar valid causes and to waive any formality not affecting the substance of the bid as the interest of the government may require. It further assumes no responsibility whatsoever to compensate or indemnify suppliers for any expense/s incurred in the preparation of their quotation/s.


RAYMUND JOSEPH P. MACARANAS
 Authorized Official

 Buyer/Canvasser

ITEM NO.	QTY.	UNIT	ITEM AND DESCRIPTION	UNIT PRICE	TOTAL PRICE
			Per Request	Offer/Brand/Model	
1	1	lot	<p>Provision of Professional Assistance/ Structural Engineering Consultancy for the Structural Analysis of Bio-Process Engineering (BPED) Building</p> <p>Total Building Area: Two storey Building with Roof deck 2,178sq.mtrs</p> <p>Scope of Works:</p> <ol style="list-style-type: none"> 1. In depth Structural investigation of the existing BPED Bldg to determine present condition 2. Recommends appropriate action and tests to be done, such as conducting outsourcing for Geotechnical Soil Analysis as a basis for structural analysis of the building; to determine present condition and the building's safety. *Charge of soil test will be included in this quotation 3. Submits structural analysis and geotechnical soil analysis of the building verified and validated by a structural engineer. 4. Submits initial findings and recommendations of the extent of repair such as retrofitting, strengthening, and repair works, if there are any, etc. 5. In the absence of an as-built plan, a site inspection is highly recommended before submission of quotation. <p>(See attached findings and observations from DPWH)</p>		



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			(see attached base plan) (see attached images for reference)			
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Delivery Period : _____
Price validity : _____
Warranty : _____
Terms of Payment : _____



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REQUEST FOR QUOTATION

General Conditions

1. The Approved Budget for the Contract (ABC) is 180,680.00.
2. Specifications herein provided are the minimum requirements of the PHilMech. Hence a supplier must not offer lower specifications than required.
3. Supplemental information shall be indicated/attached in the price quotation to reflect the complete specifications e.g., brand name, model, pictures/brochures of the offer.
4. Quotation must be inclusive of all costs and applicable government taxes, including delivery charges.
5. Award of the contract shall be made to the lowest complying/responsive bid/offer.
6. Price validity shall be forty five (45) calendar days from the deadline of submission of quotation.
7. For those with ABCs above Fifty Thousand Pesos (PhP50,000.00), suppliers shall submit copies of the following documents in support of their quotation, to wit:

- | | | |
|-------------------------------------|------|--|
| <input checked="" type="checkbox"/> | 7.1 | Current Mayor's/Business Permit |
| <input type="checkbox"/> | 7.2 | DTI/SEC Certificate of Registration |
| <input checked="" type="checkbox"/> | 7.3 | BIR Certificate of Registration |
| <input type="checkbox"/> | 7.4 | PhilGEPS Registration Certificate (Platinum) all pages |
| <input type="checkbox"/> | 7.5 | Omnibus Sworn Statement |
| <input type="checkbox"/> | 7.6 | Income/Business Tax Return |
| <input type="checkbox"/> | 7.7 | Professional License/Curriculum Vitae (Consulting Services) |
| <input type="checkbox"/> | 7.8 | PCAB License (Infra.) |
| <input type="checkbox"/> | 7.9 | Net Financial Contracting Capacity (NFCC) |
| <input type="checkbox"/> | 7.10 | Documents required as stated in the Technical Specifications |
| <input type="checkbox"/> | 7.11 | Others |

8. Supplier shall be responsible for the source/s of its goods/services/equipment, and which shall be in accordance with the schedule and specifications of the RFQ or PO. Failure of the supplier to comply with this provision shall be ground for cancellation of the award or purchase order issued to the supplier.
9. Payment shall be made only upon completion and acceptance by the PHilMech.
10. Supplier warrants that all goods/services/equipment to be provided are of acceptable industry standard.
11. Delivery period shall be indicated in the quotation. A penalty of 1/10 of one percent for every day of delay shall be charged as liquidated damages on the undelivered items/services.
12. Payment shall be made upon inspection and acceptance of delivery subject to prior submission of sales invoice/delivery receipt and other requirements as maybe necessary
13. In conformity with the Direct Payment Scheme via bank debit system, please credit/deposit payment to:

Name of Bank: _____
Bank Branch: _____
Account Name: _____
Account No.: _____

After having carefully read and accepted the General Conditions attached to the Request for Quotation, I/We quote you on the item/s at prices indicated above.

Printed name and signature of Authorized Representative

Designation: _____

Company Name: _____

Business Address: _____

PhilGEPS Registration No.: _____

TIN: _____

Contact No/s.: _____

Email Address: _____



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE DISTRICT ENGINEER
Nueva Ecija 1st District Engineering Office
Talavera, Nueva Ecija

September 01, 2022

Memorandum Report for:
The District Engineer
This Office

From : **RONALDO B. VILLAROMAN**
Engineer II

This has reference to the letter dated July 4, 2022 of **Philippine Center for Postharvest Development and Mechanization** requesting technical assistance and expertise through building inspections and consultation regarding the following major issues and problems of the **Bio-Process Engineering Building**, upon conducting visual inspection of the said building, the following findings, observations and recommendations are hereby listed below:

FINDINGS AND OBSERVATIONS:

1. Porch entrance popped out ceramic tiles. *(Right Side Elevation)*
2. Paint blistering at wall. *(Right Side Elevation)*
3. Porch finish floor line settlement of about $\pm 50\text{mm}$ (2"). *(Right Side Elevation)*
4. Multiple cracks on window sills. *(Rear Elevation)*
5. Existing fish pond or artificial lake or retention basin has been noted. *(Rear Elevation)*
6. Longitudinal cracks at elevation of roof deck. *(Left Side Elevation)*
7. Multiple wall cracks at Polymer Packaging Room. *(Ground Floor)*
8. Multiple wall cracks at Sensory/Evaluation Room. *(Ground Floor)*
9. 3mm open crack at base of column. *(Ground Floor)*
10. Multiple wall cracks at Thermophysical and Thermal Properties Laboratory. *(Ground Floor)*
11. Severe wall crack with a width of $\pm 3.45\text{mm}$ at Size Reduction and Mixing Room as well as multiple wall cracks has been observed also. *(Ground Floor)*
12. Severe wall crack with a width of $\pm 2.12\text{mm}$ at Food Micro Laboratory. *(Ground Floor)*
13. Multiple wall cracks at Non-Thermal Processing Room. *(Ground Floor)*
14. Multiple wall cracks at Thermal Processing Room. *(Ground Floor)*
15. Multiple wall cracks at Comfort Room (CR) Women. *(Ground Floor)*
16. Multiple wall cracks at Comfort Room (CR) Men. *(Ground Floor)*
17. Open crack has been observed at the base of the column at Dry Storage Room. *(Ground Floor)*
18. Multiple wall cracks at Dry Storage Room. *(Ground Floor)*
19. Multiple wall cracks at Scanning Electron Microscope Room. *(Ground Floor)*
20. Open crack with width of $\pm 2.68\text{mm}$ has been observed at the base of the column at Lobby. *(Ground Floor)*
21. Multiple wall cracks at BPED Chief Room. *(Second Floor)*
22. Multiple wall cracks with a width $\pm 1.75\text{mm}$ at Food Engineering Room. *(Second Floor)*

SEP 01 2022

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Multiple wall cracks and popped out tiles at Agricultural Waste Utilization Room.
(Second Floor)

23. Multiple wall cracks at Academic Room. (Second Floor)
24. Multiple wall cracks at Hallway. (Second Floor)
25. Open crack with width of ± 1.48 mm has been observed at the mid-height of the column at Conference Room. (Second Floor)
26. Unidentified floor finish at roof deck. (Roof Deck Level)
27. Multiple parapet wall crack at roof deck. (Roof Deck Level)

RECOMMENDATIONS:

1. In the absence of the signed and sealed As-built plan and Geotechnical Investigation Report of the said building as well as the absence of an accredited Structural/Geotechnical Engineer of this office, the inspection team will not be able to produce a conclusive recommendation in relation to the possible differential soil settlement of the above stated building, hence, in-depth structural investigation and geotechnical investigation should be done or performed by an accredited structural engineer and geotechnical engineer, respectively, to determine the present condition of the building in view of the above findings and observations, thus appropriate action should be carried out to conclude if the building is safe or unsafe to use, or if there is an imperative works to be done such as retrofitting and strengthening works.
2. For major leaked in roof deck level, rubberized waterproofing membrane is hereby recommended. Application of waterproofing should be done as indicated: Deck surface shall be cleaned by wire brush, removing oil, and concrete chips and dust that will affect adhesion to the substrate. The substrate shall be kept dry during the waterproofing works. Primer coat shall be applied once or twice on the cleaned substrate using a roller brush. The coating is approximately 0.2 kg/m² and natural dried for more than 30 minutes until tack-free. (Refer also to Manufacture's instruction). Base coat as 2nd layer is a rubberized membrane which is applied on the primer using a roller brush, to form a uniform film with consistent thickness (Approximately 0.4 kg/m²). Intercoat, the 3rd layer, is a rubberized membrane which is applied on the base coat using roller brush, to form a uniform film with equal thickness (Approximately 0.4 kg/m²). And lastly, Top Coat, the 4th layer, is a rubberized membrane applied on the intercoat using roller brush to form a uniform film with equal thickness (Approximately 0.4 kg/m²).
3. For damaged ceiling at the lobby due to leak. Replaced the damaged ceiling upon, performing waterproofing works as mentioned in recommendation no. 2.
4. Multiple hair line to severe cracks in walls and portions of the main structural frame. Epoxy injection can be used to restore structural soundness of structures exhibiting inactive cracks. Cracks with more than 0.3 mm up to 3.0 mm widths can be bonded and sealed by injecting low viscosity epoxy, hence, in-depth structural investigation is recommended for cracks observed in main structural frame for appropriate recommendations.
5. For recurrence of popped tiles. Floor tiles should be installed continuously allowing the base mortar to gain sufficient strength to prevent collapse and with proper gap to allow expansion / contraction due to environmental movements. Cement paste mortar should be of 1:2 proportion (one bag of cement and two gallons of water) upon application.



Fig. 1 Indication of a soil settlement as seen from the side entrance of the building



Fig. 2 Major leak from the roof deck especially during heavy rain.



Fig. 3 Damaged ceiling at lobby due to leak

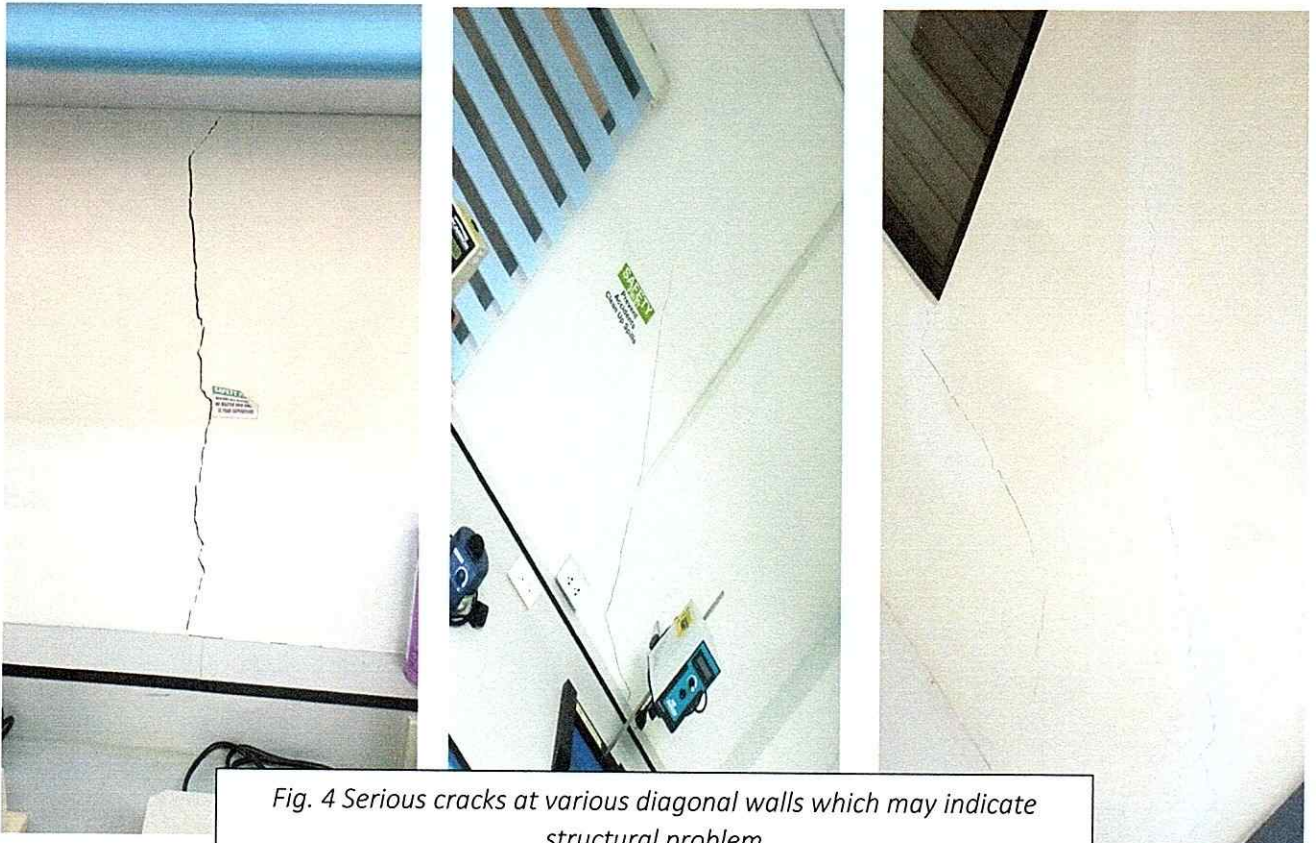


Fig. 4 Serious cracks at various diagonal walls which may indicate structural problem



Fig. 5 Recurrence of popped up tiles even after replacement as possible result of the soil settlement

6. Freed joints in side cladding are common cause of water leaks, adding flashing or approved sealant as prescribed by the manufacturer to cover the joints, this should stop any water from getting in behind the cladding.

Attached herewith the geo-tagged photos of the present condition of the said building.

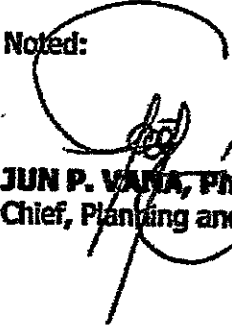
For your perusal and ready reference.

Respectfully submitted;



RONALDO B. VILLAROMAN
Engineer II

Noted:



JUN P. VANA, Ph. D.
Chief, Planning and Design Section



1 PERSPECTIVE
NTS



2 VICINITY MAP
NTS

**COLD CHAIN CENTER
AND BUILDING
BIO-PROCESS ENGINEERING**

2 LOCATION MAP
NTS

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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
OFFICE OF THE BUILDING OFFICIAL

DISTRICT / CITY / MUNICIPALITY

LINE & GRADE

LAND USE & ZONING

ARCHITECTURAL

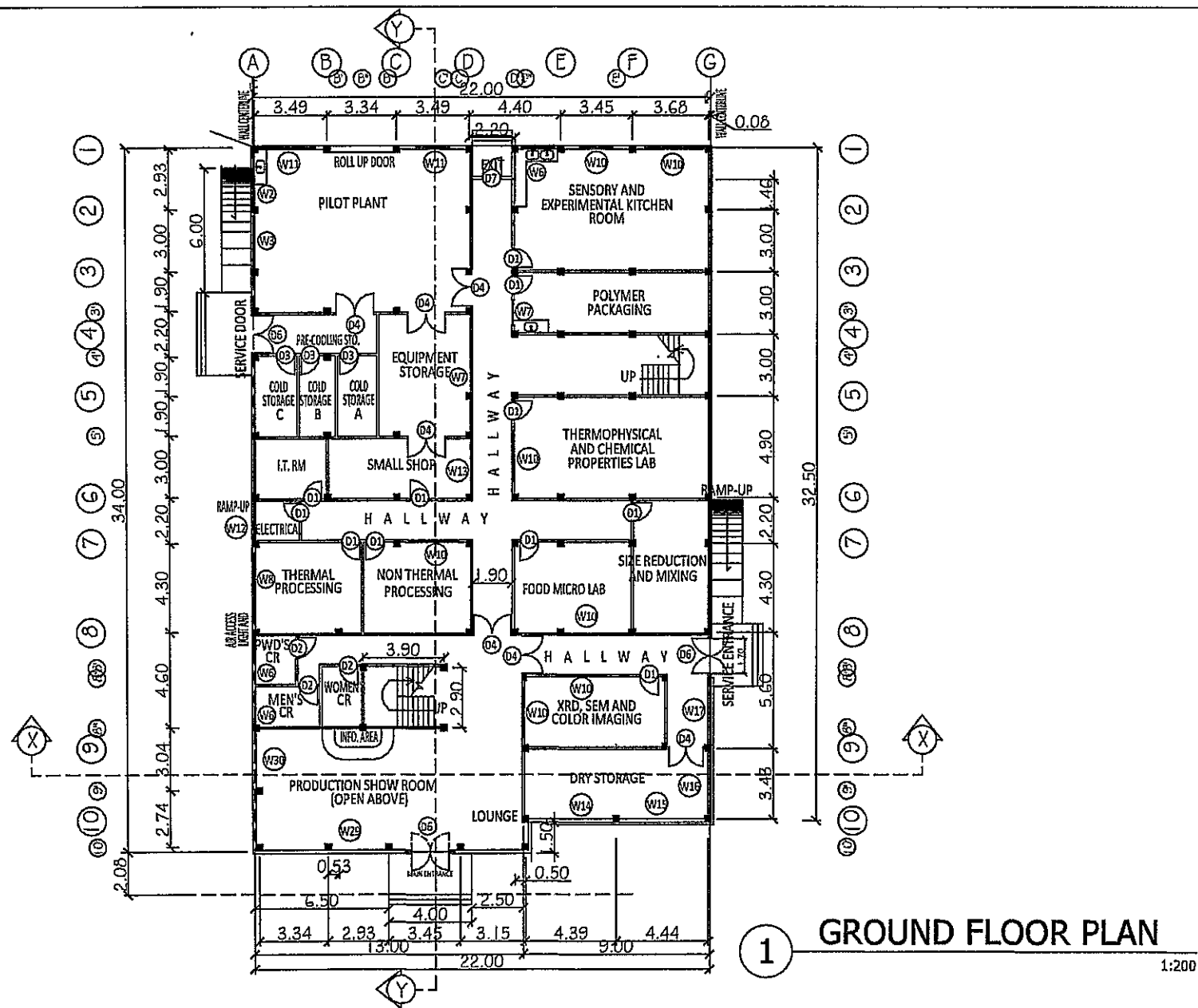
STRUCTURAL

ELECTRICAL

SANITARY

MECHANICAL

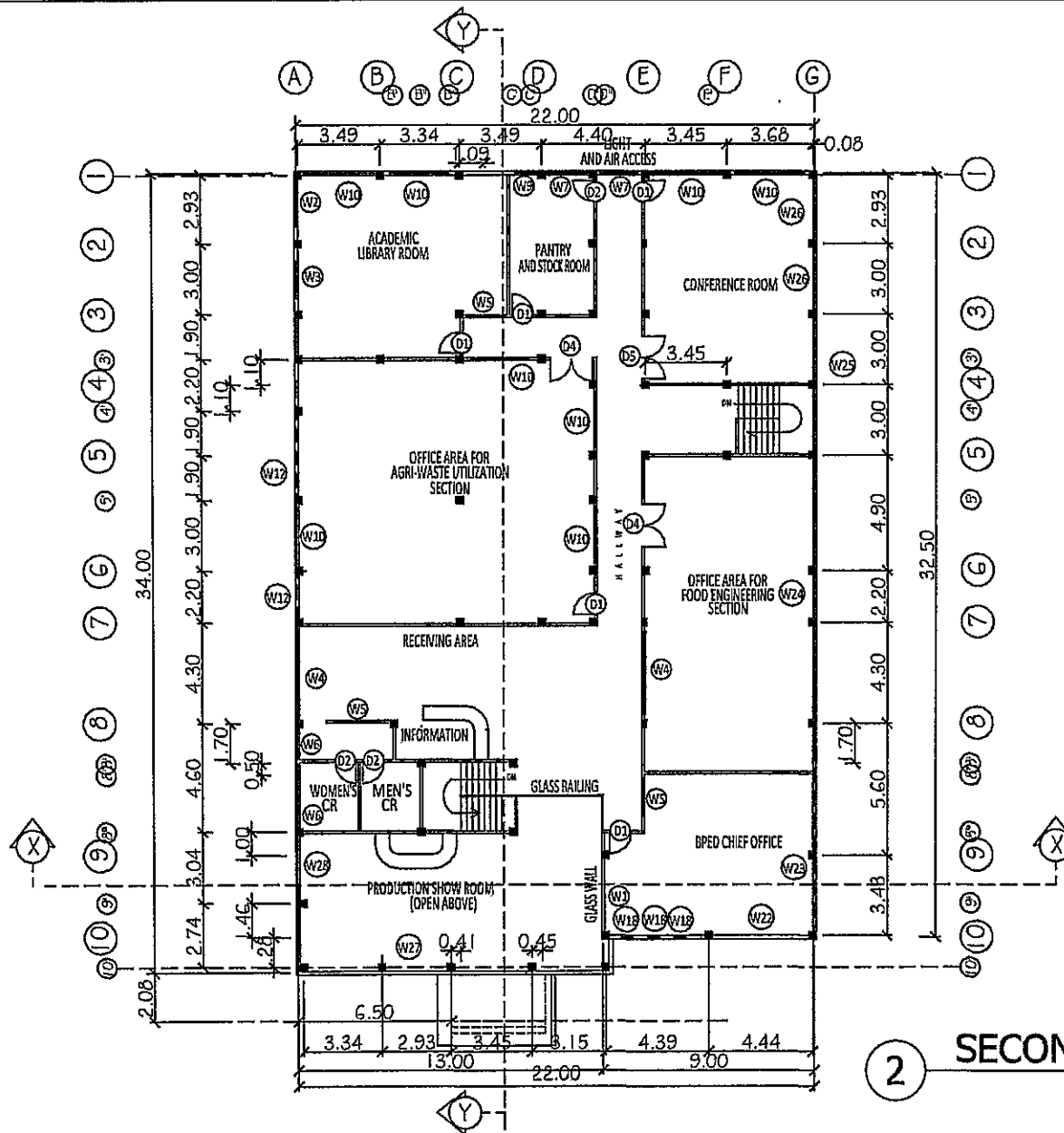
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			TIN#: 152540775				DATE: 02/2016	
			PTR#: 7226613				REVIEWED BY: GRS	1
			DN: Jan. 4, 2016				ORDERED BY: PCA	41
			AT:					



GROUND FLOOR PLAN

1:200

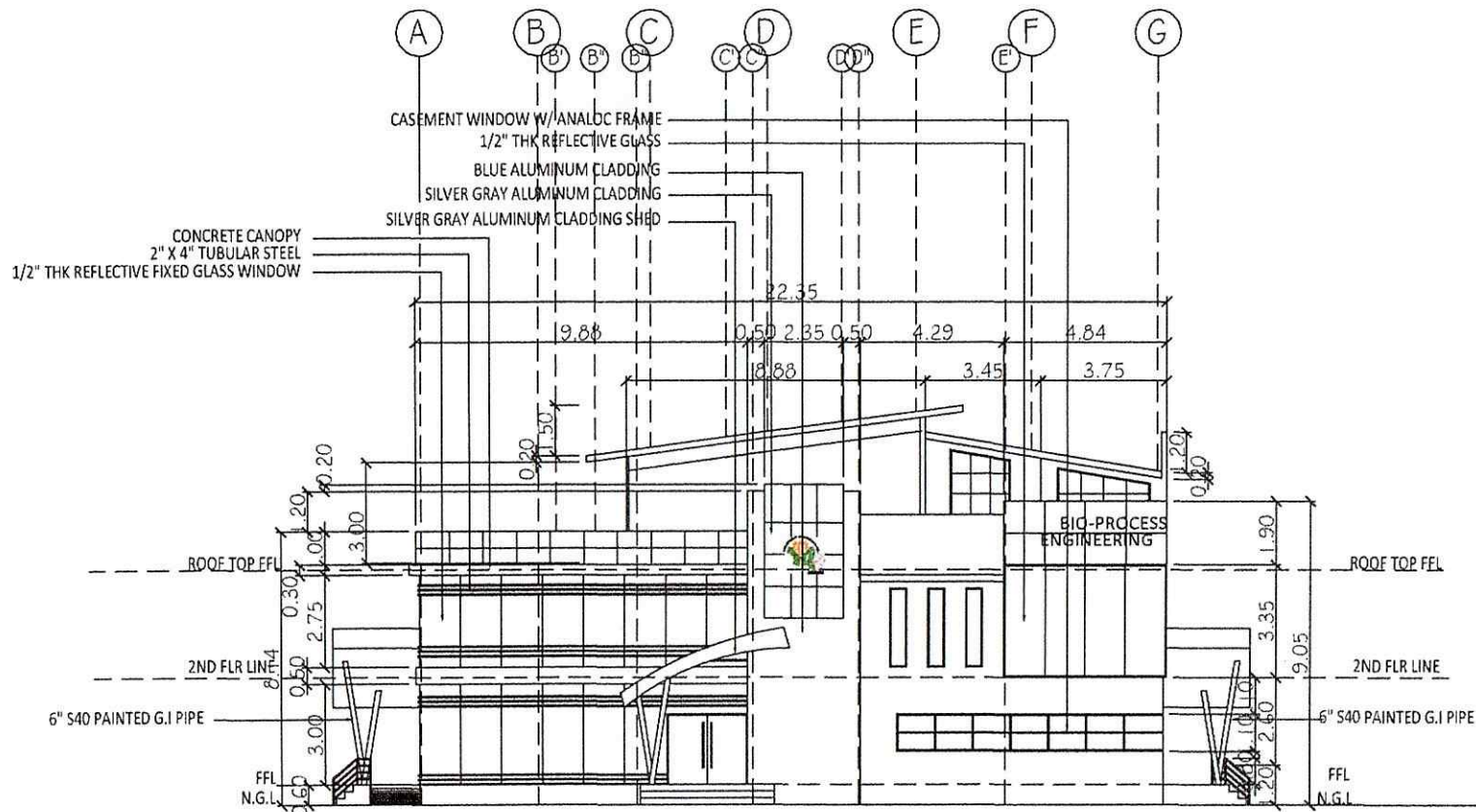
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2 SECOND FLOOR PLAN

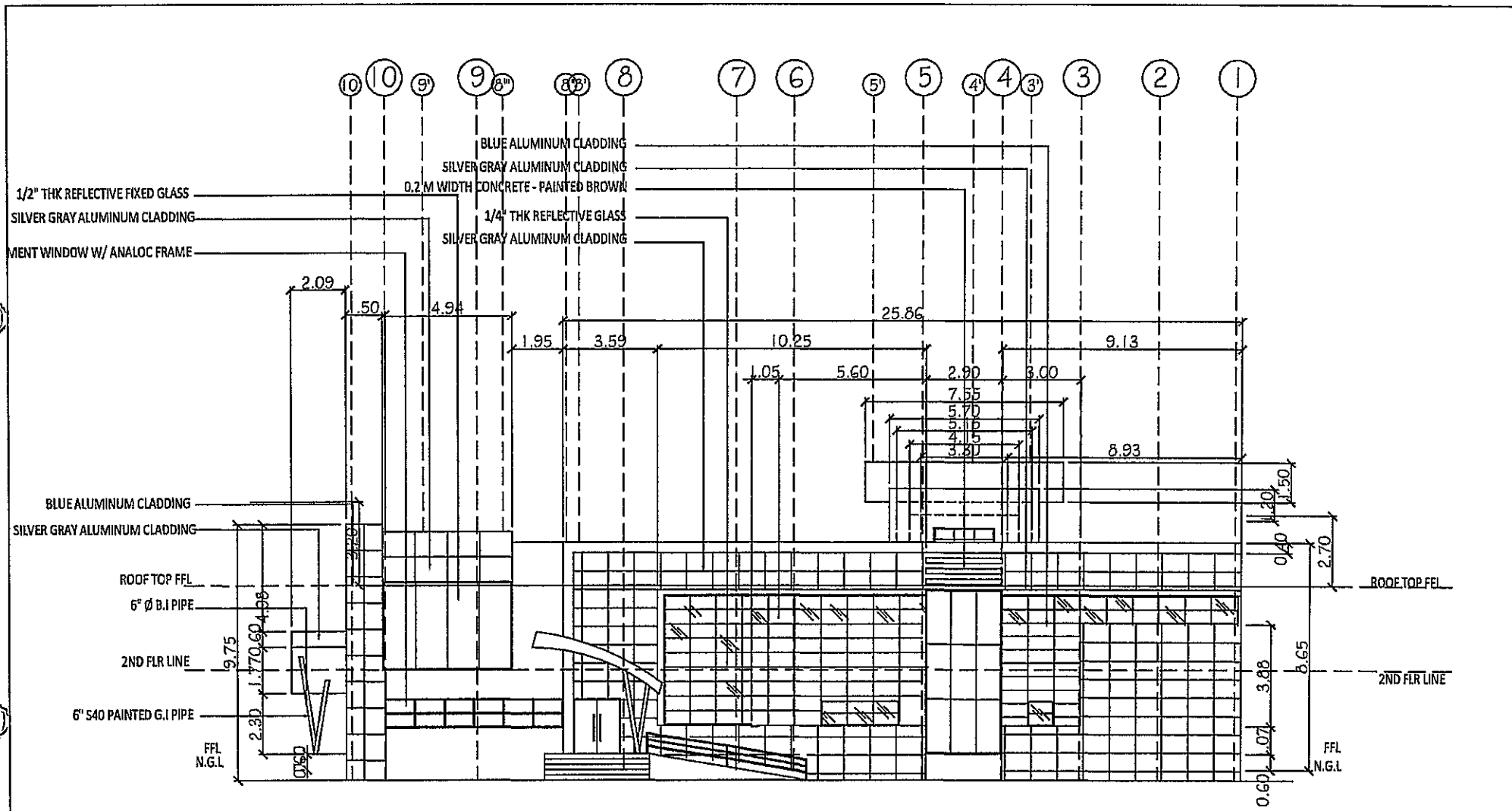
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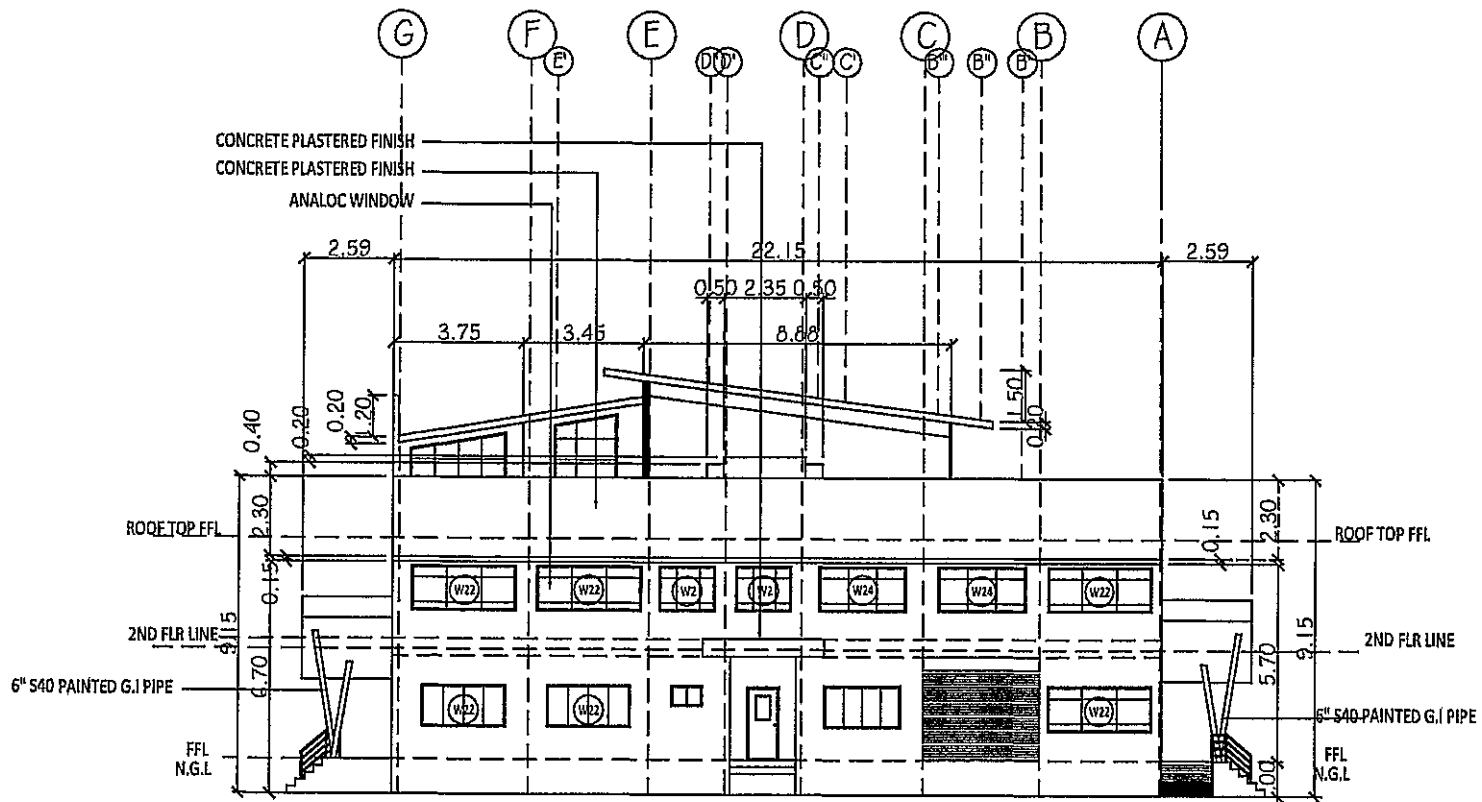
1 FRONT ELEVATION
1:150

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PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIIJA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecija		CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech		A4
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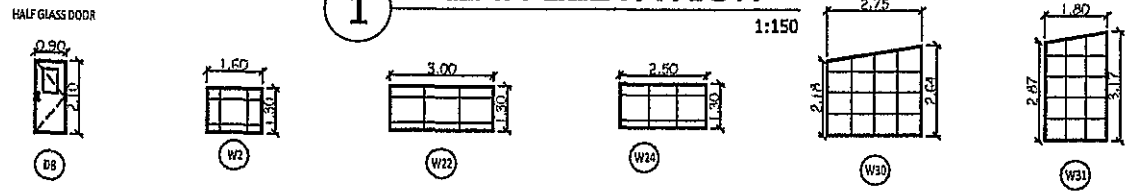


1 RIGHT SIDE ELEVATION
1:150

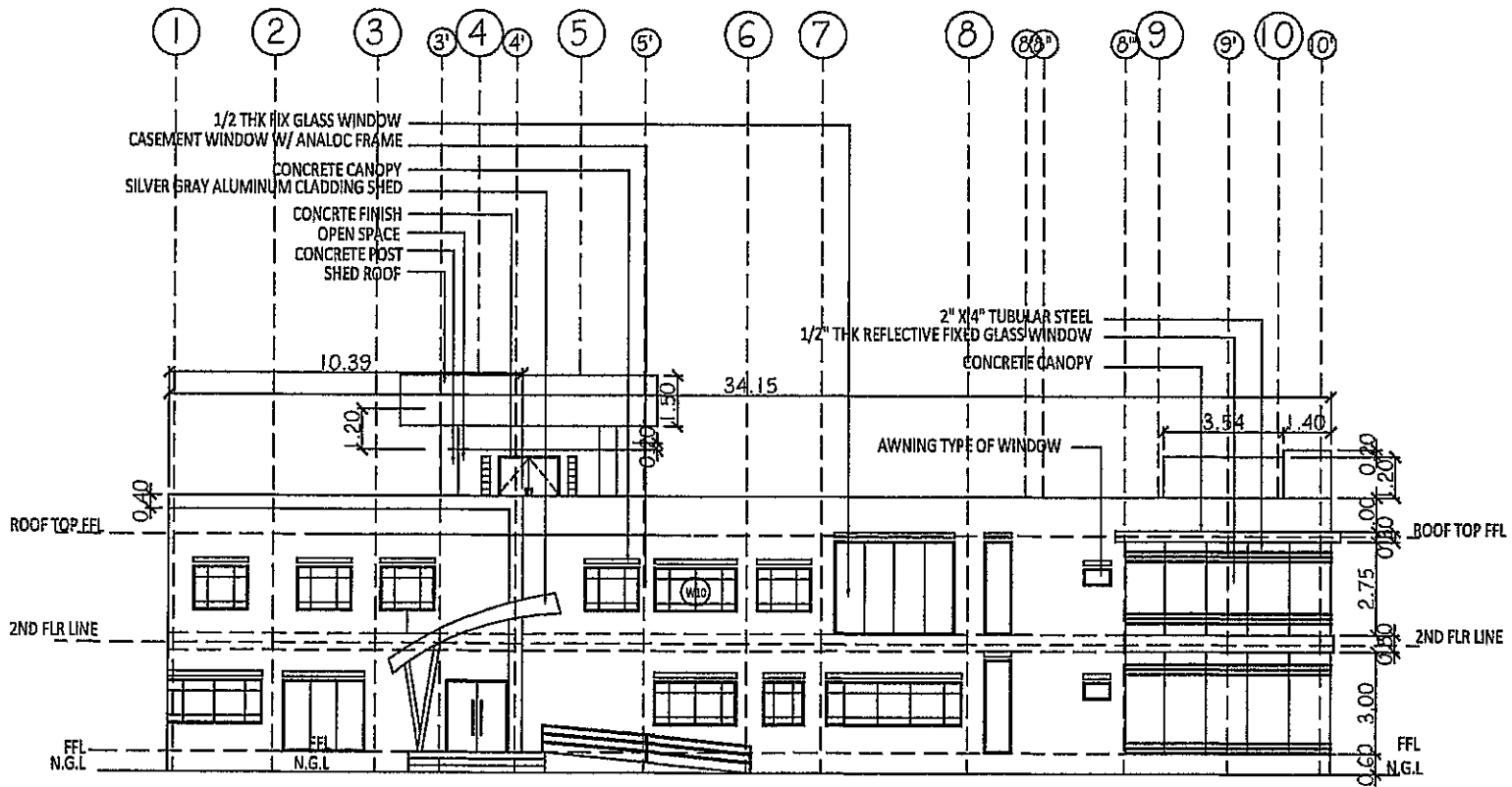
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1 REAR ELEVATION

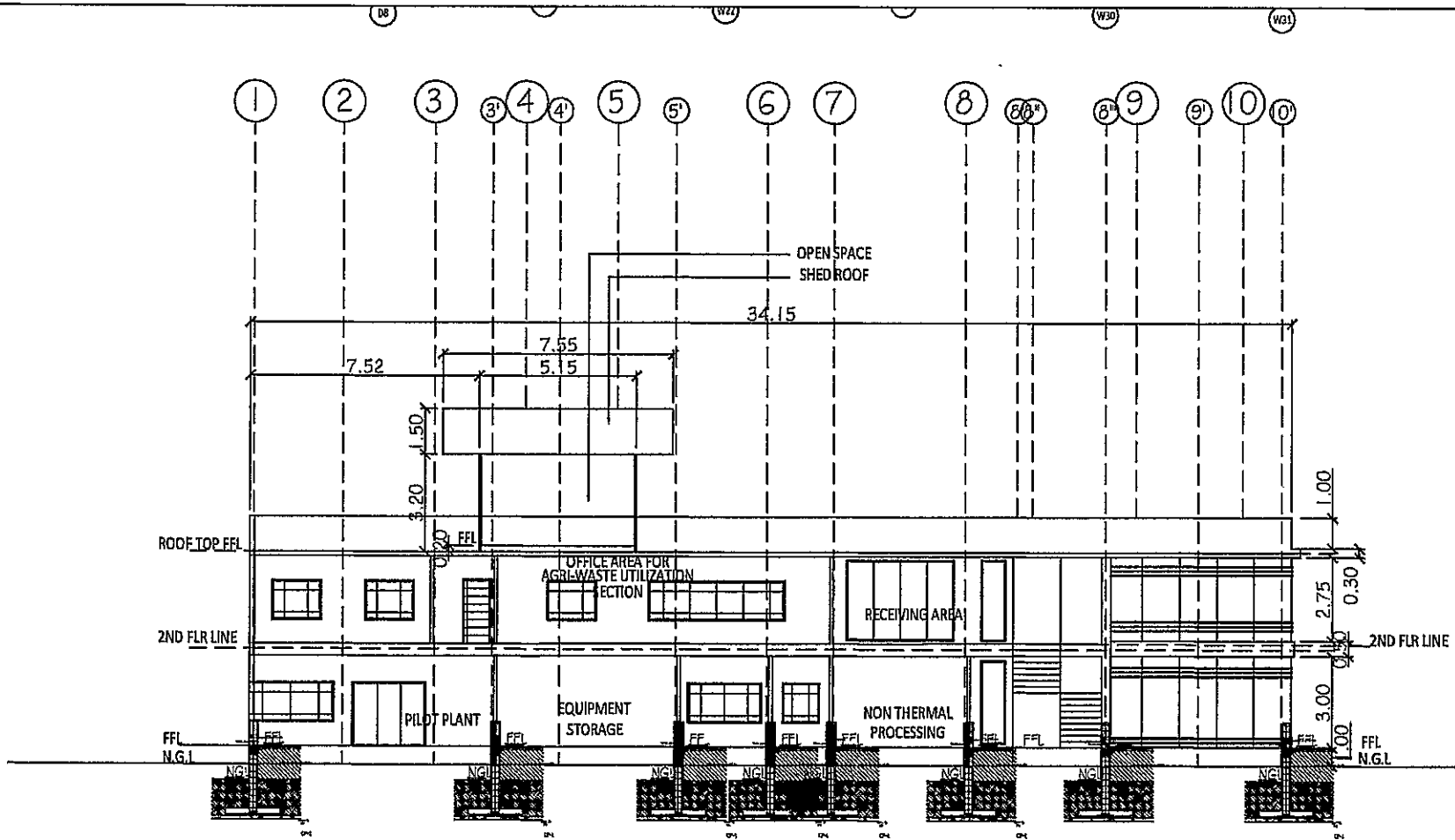


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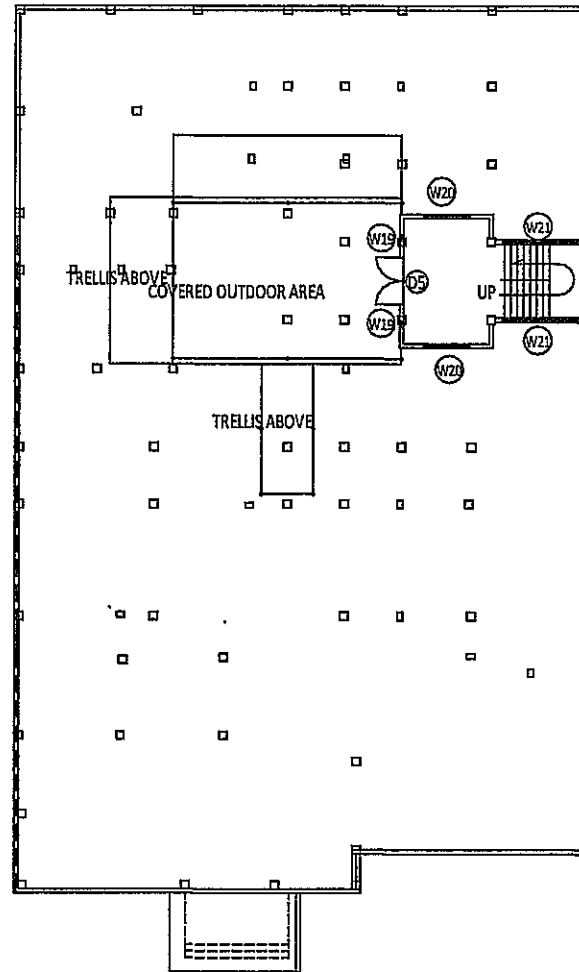
1 LEFT SIDE ELEVATION
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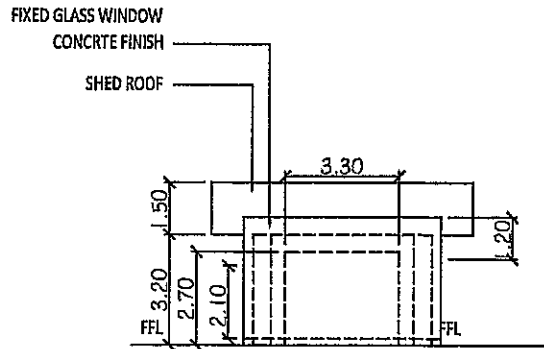


1 LONGITUDINAL SECTION
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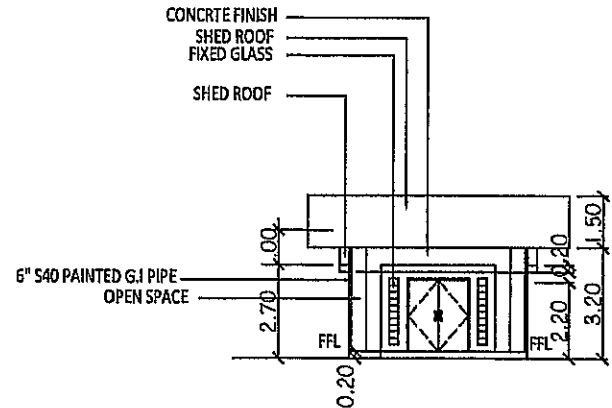
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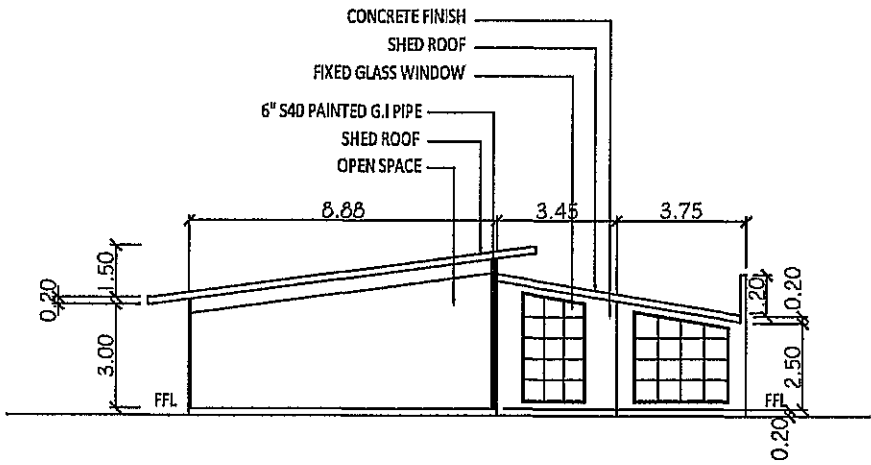
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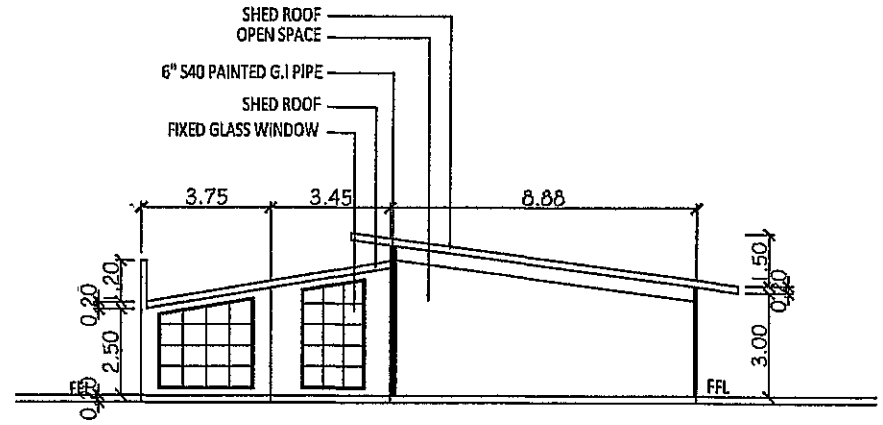
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2 ROOF TOP SHED LEFT SIDE ELEV. 1:200

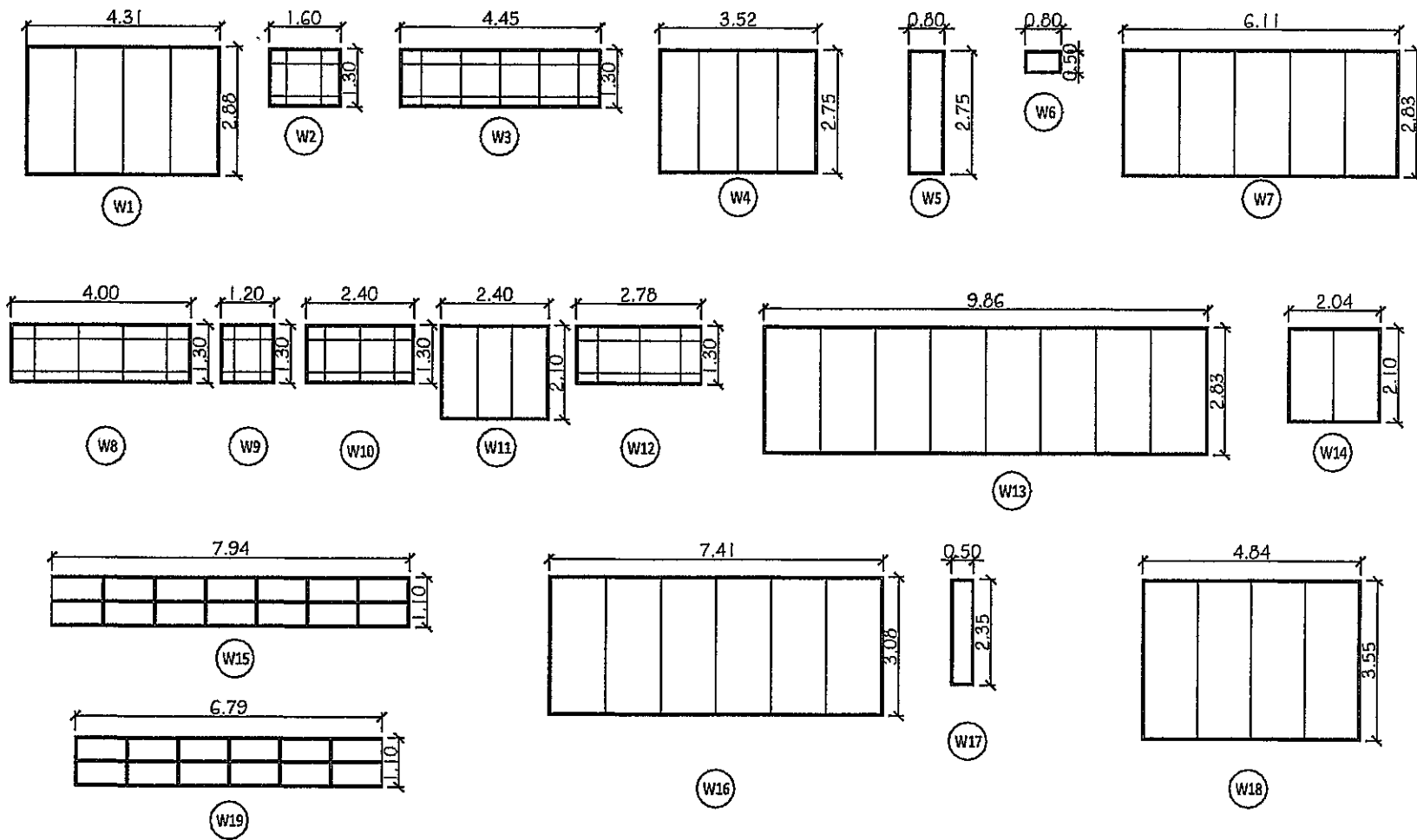


3 ROOF TOP SHED REAR ELEV. 1:200



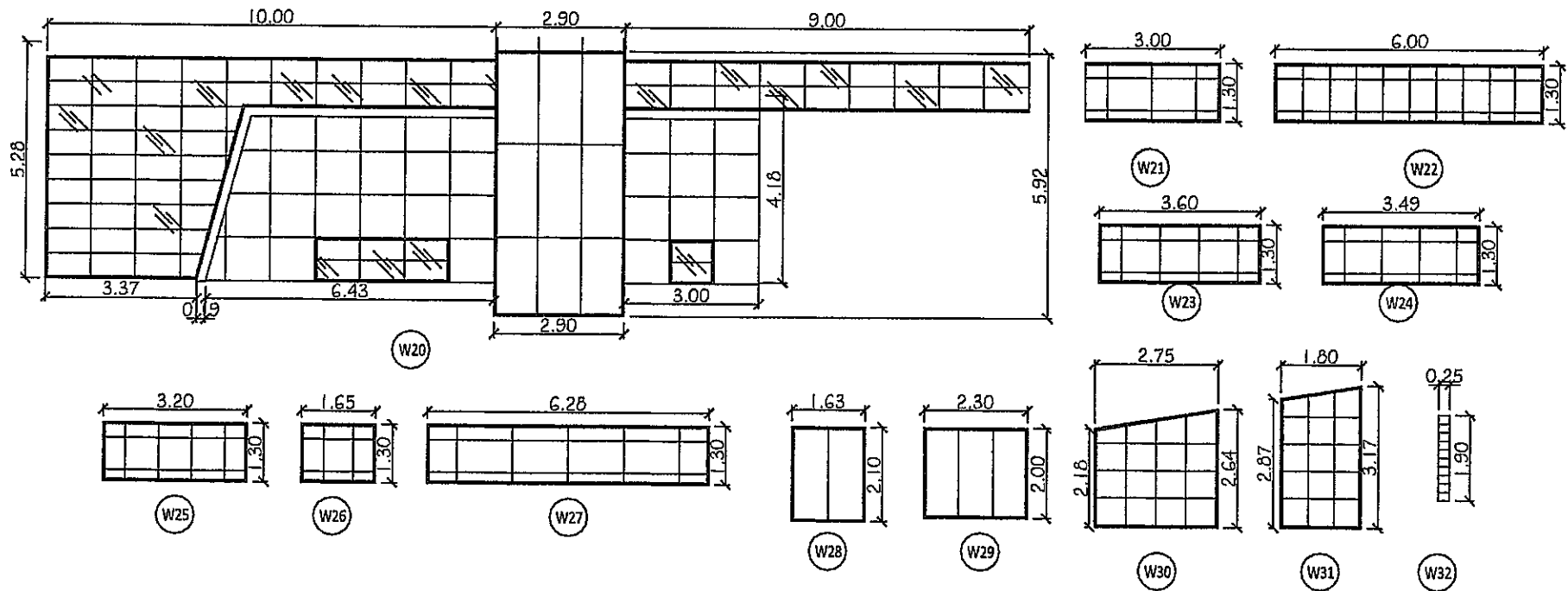
4 ROOF TOP SHED FRONT ELEV. 1:200

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PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJIA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecija		TIME:	CESAR M. MACALINAD Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DATE:	A11
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			AT:				CHECKED BY:	

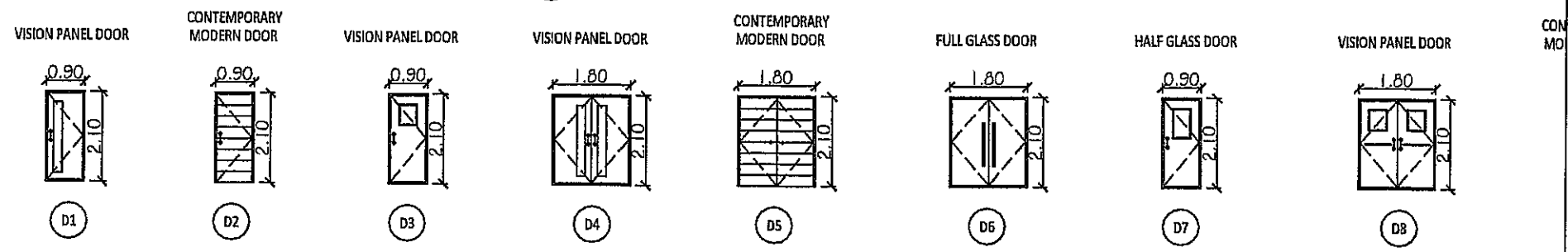


1 WINDOWS SCHEDULE
1:100

OWNER/CLIENT/AGENCY:	PROJECT TITLE:	DESIGNED BY:	PRCF:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNDOZ, NUEVA ECIDA	PHILMECH, CISTU Campus, Science City of Muñoz, Nueva Ecija		THP:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DATE:	A12
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			AT:				DATE:	

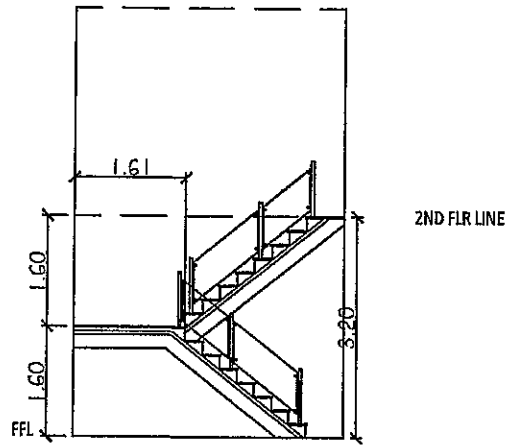


1 WINDOW SCHEDULE
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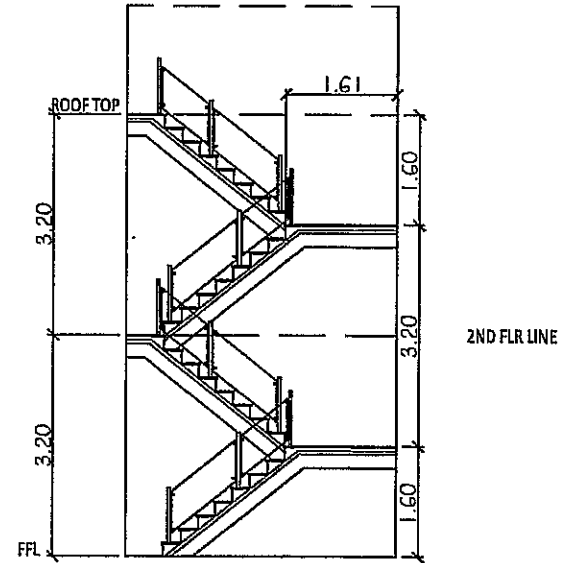


1 DOOR SCHEDULE
1:100

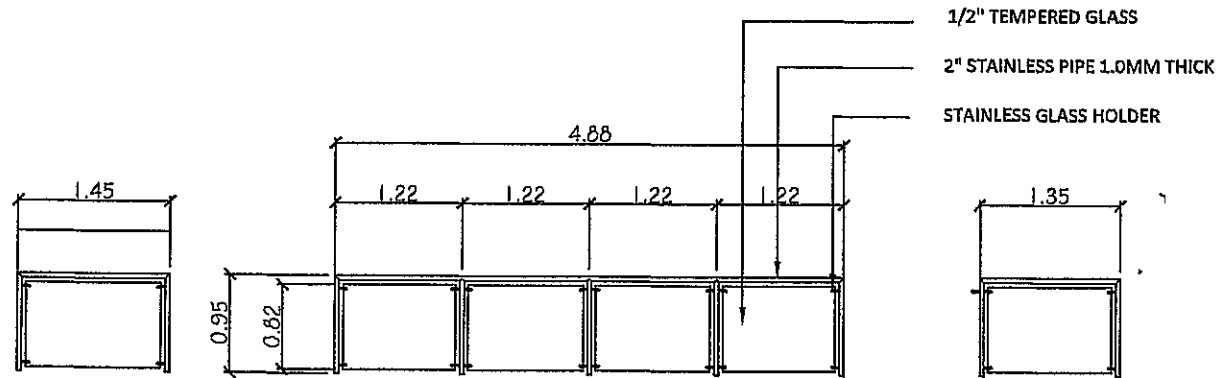
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PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PHILMECH, CLSU Campus, Science City of Muñoz, Nueva Ecja		TIN#:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech		A13
			PTR#:					13
			ONE:					41
			AT:					



1 LEFT SIDE STAIR DETAIL 1:75

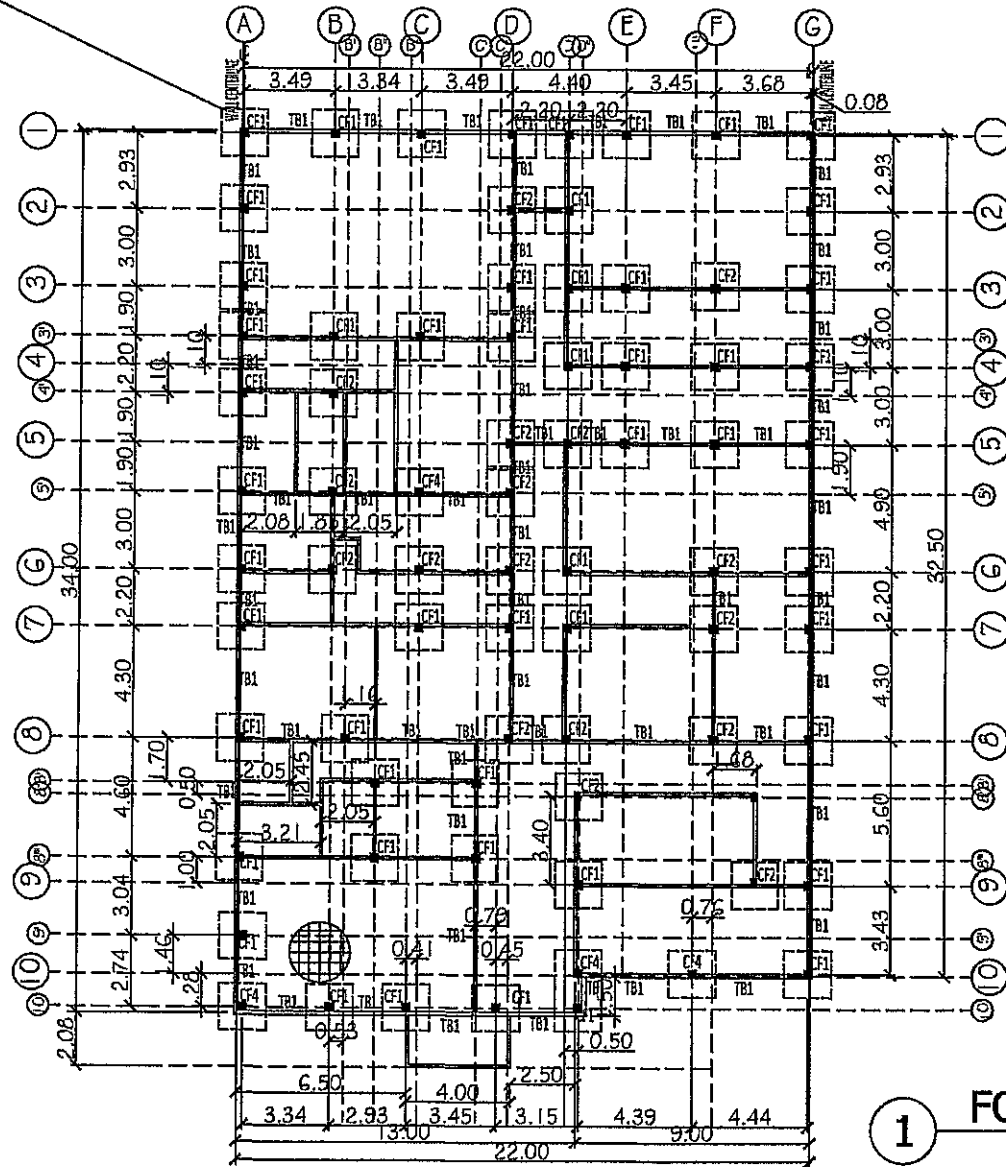


2 RIGHT SIDE STAIR DETAIL 1:75



3 GLASS RAILING DETAIL 1:50

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PRC#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PHILMECH, CDSU Campus, Science City of Munoz, Nueva Ecja		TIN#:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DATE:	A14
			PIR#:				DATE:	14
			ON#:				DATE:	41
			AT#:				DATE:	



100mm THICK
CONCRETE SLAB
ON FILL WITH 10mm²
TEMP. BARS SPACED
@ 0.60m O.C.
BWAYS

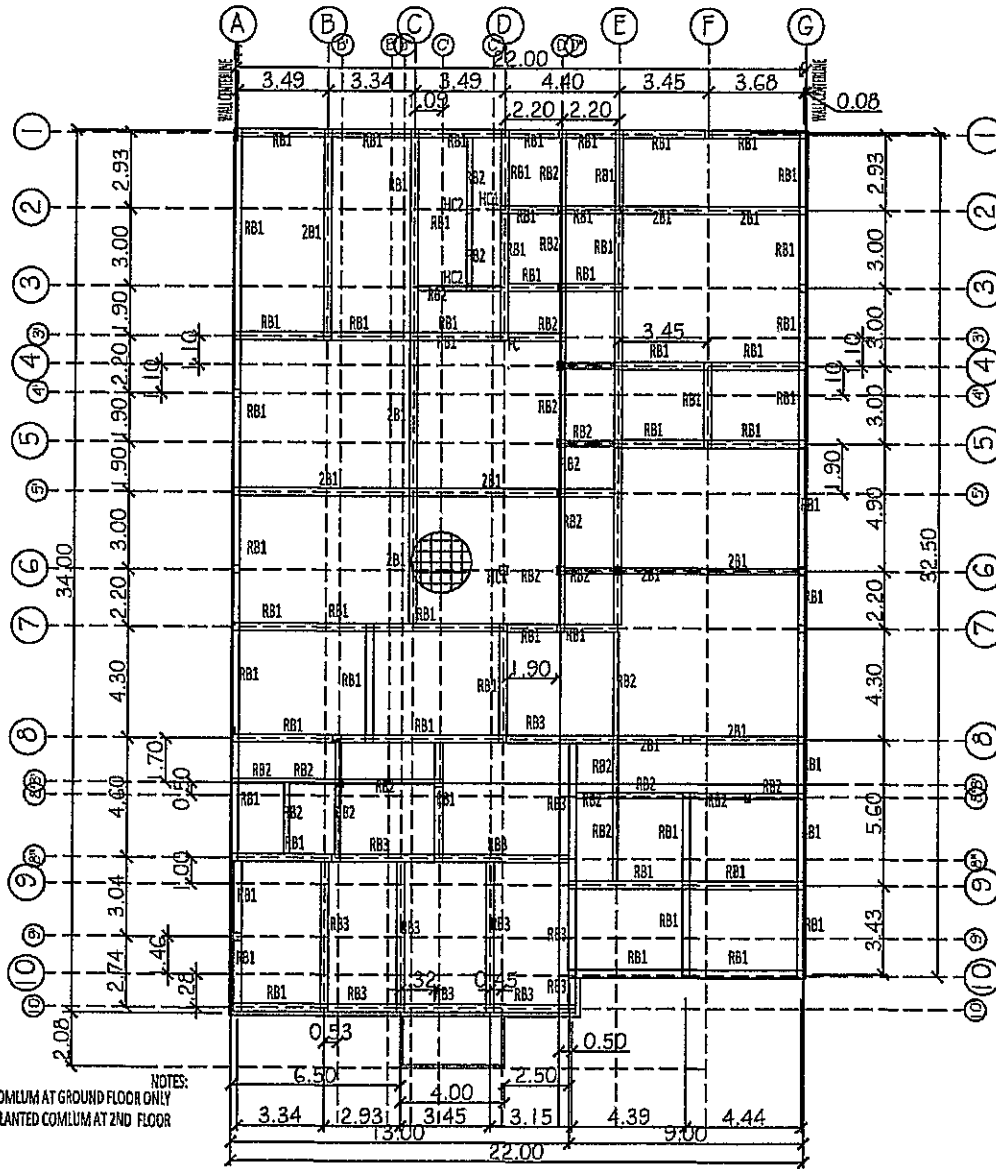
1 FOUNDATION PLAN

1:200

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PRC#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECCIA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecija		TRMP:	CESAR M. MACALINAG Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDEA PhD Executive Director, Philmech		S1
			PTR#:					15
			OR:					41
			AT:					

100mm THICK
CONCRETE SLAB
WITH 12mmØ TEMP.
BARS TOP SPACED
@ 0.20m O.C.
B/WAYS

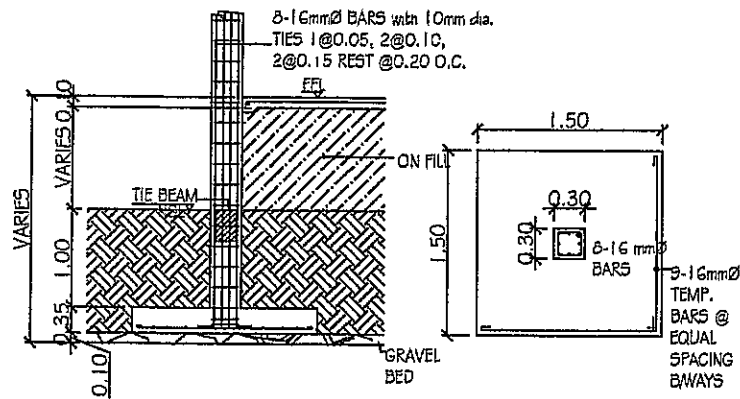
NOTES:
HC1 - COMULUM AT GROUND FLOOR ONLY
HC2 - PLANTED COMULUM AT 2ND FLOOR



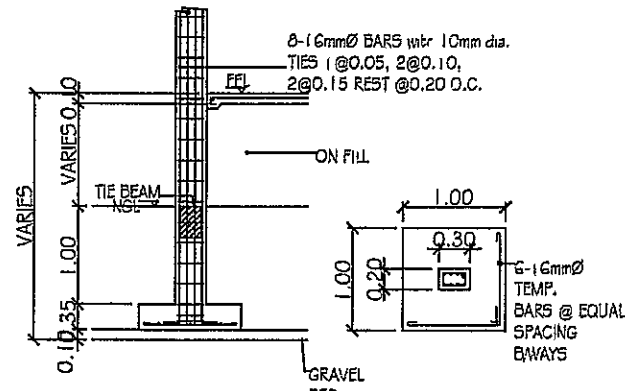
1 ROOF DECK FRAMING PLAN

1:200

OWNER/IMPLEMENTING AGENCY: PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PROJECT TITLE: PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecja	DESIGNED BY:	PRCN: TIN#: PTR#: ON: AT:	CONSULTANT: CESAR M. MACALINAD Civil Engineer	RECOMMENDING APPROVALS: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISO G. ALVINDIA PHD Executive Director, Philmech	DESIGNED BY:	SHEET NO.:
							DATE:	
							REVISIONS:	17
							CHECKED BY:	41

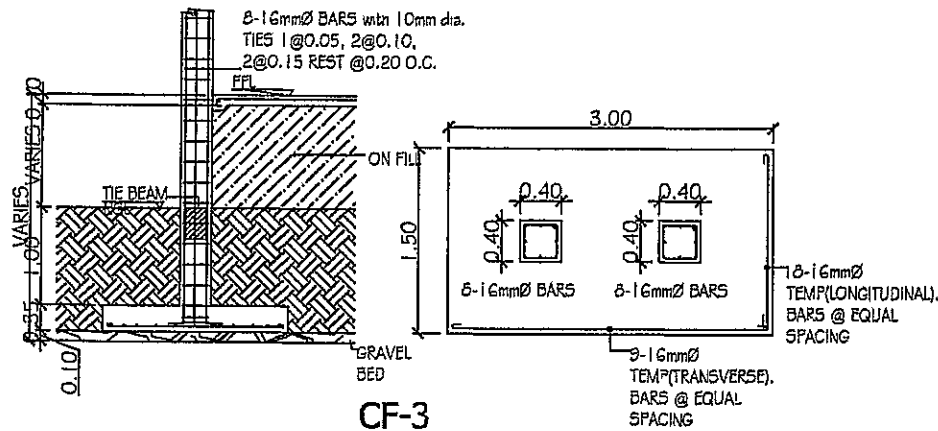
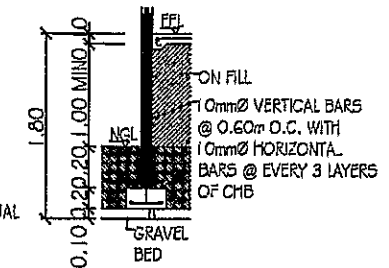


CF-1

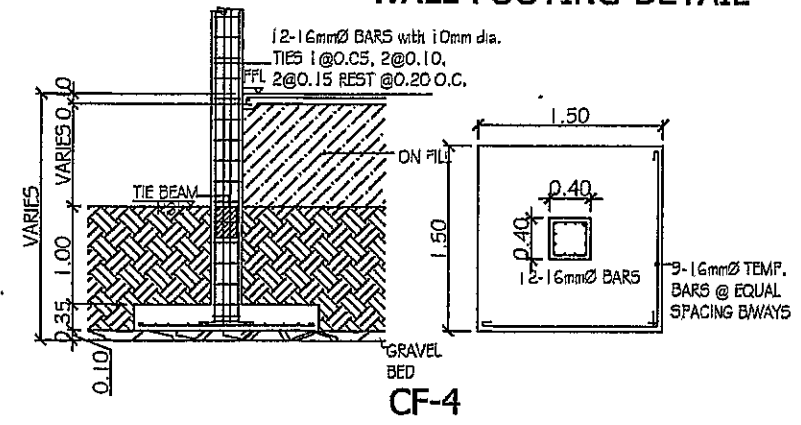


CF-2

WALL-FOOTING-DETAIL



CF-3

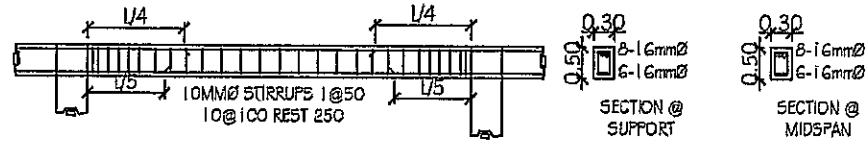


CF-4

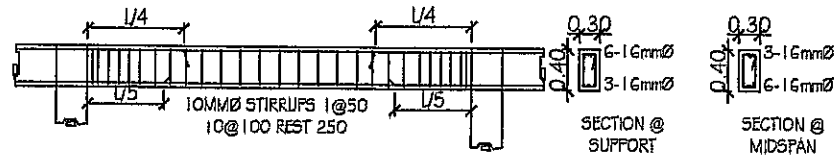
1 DETAIL OF COLUMN FOOTING & WALL FOOTING

Scale: 1:20

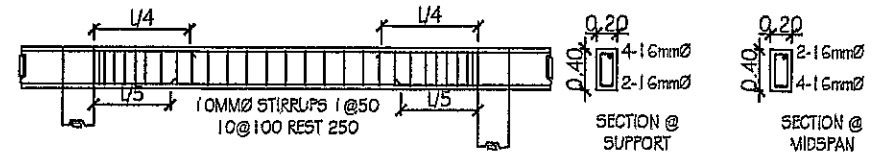
OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	FR/C#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecja		FR/C#: TRM#: PTR#: ON: AT:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DATE: DRAWN BY: CHECKED BY: DESIGNED BY:	S5 19 41



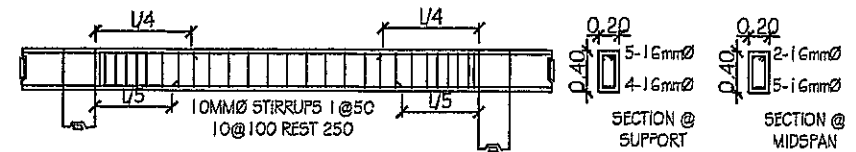
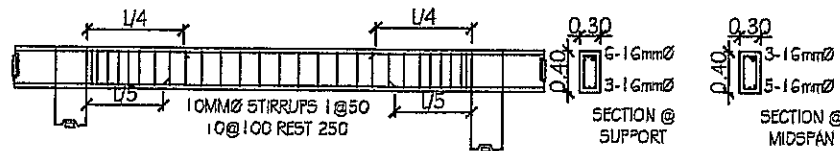
1 **DETAIL/SECTION OF RB-3**
Scale: NTS



2 **DETAIL/SECTION OF RB-1**
Scale: NTS

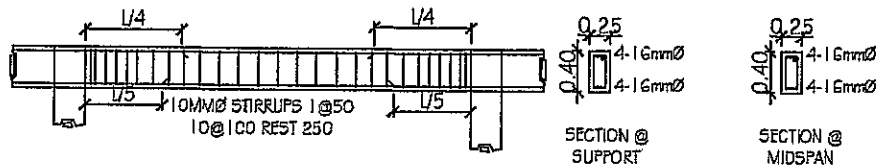


3 **DETAIL/SECTION OF RB-2**
Scale: NTS

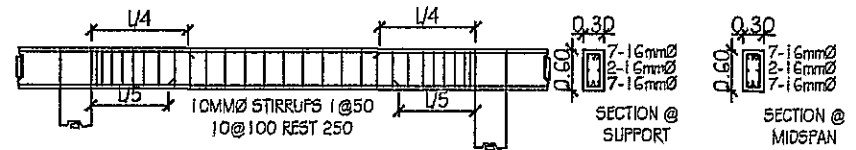


4 **DETAIL/SECTION OF B-1**
Scale: NTS

5 **DETAIL/SECTION OF B-2**
Scale: NTS

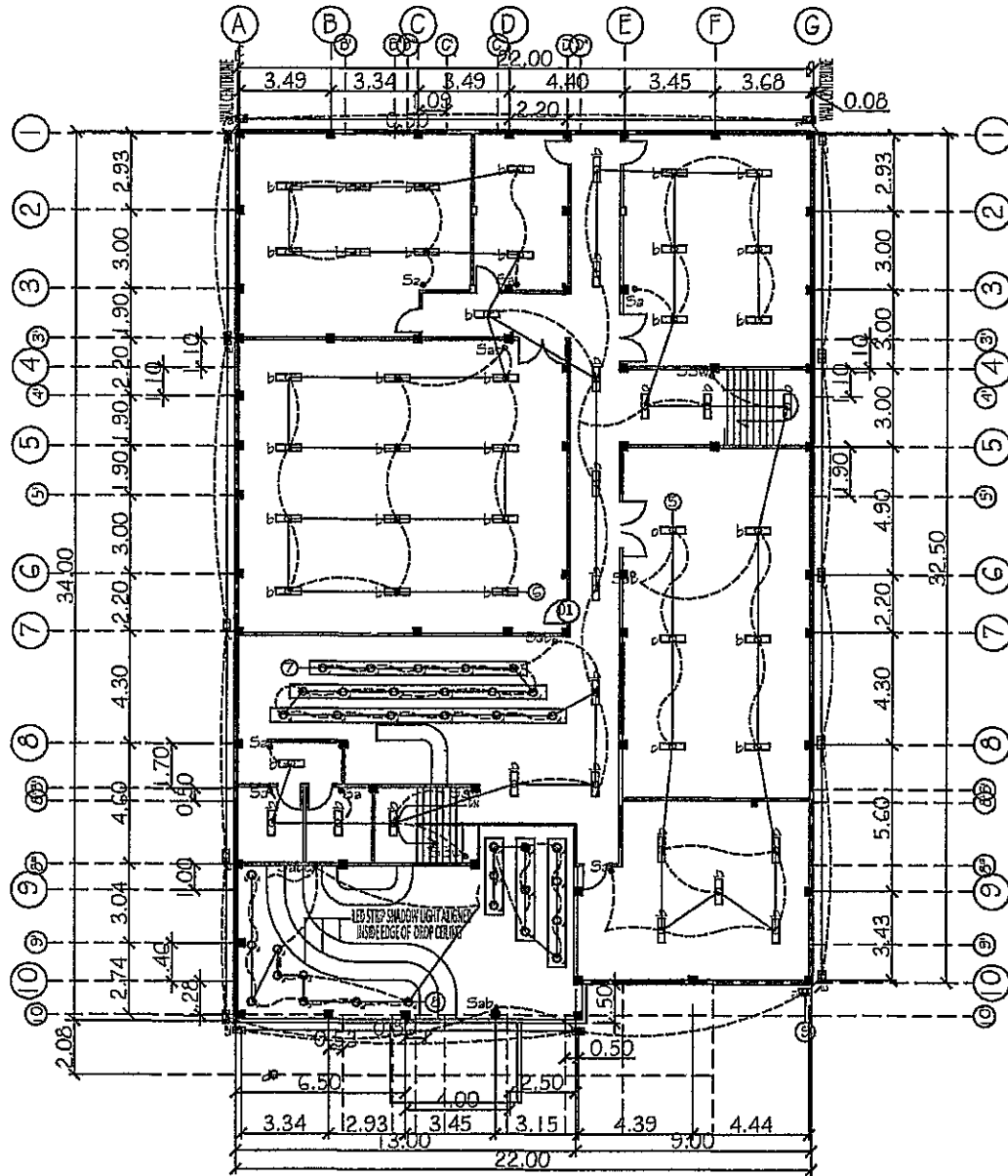


6 **DETAIL/SECTION OF TB-1**
Scale: NTS



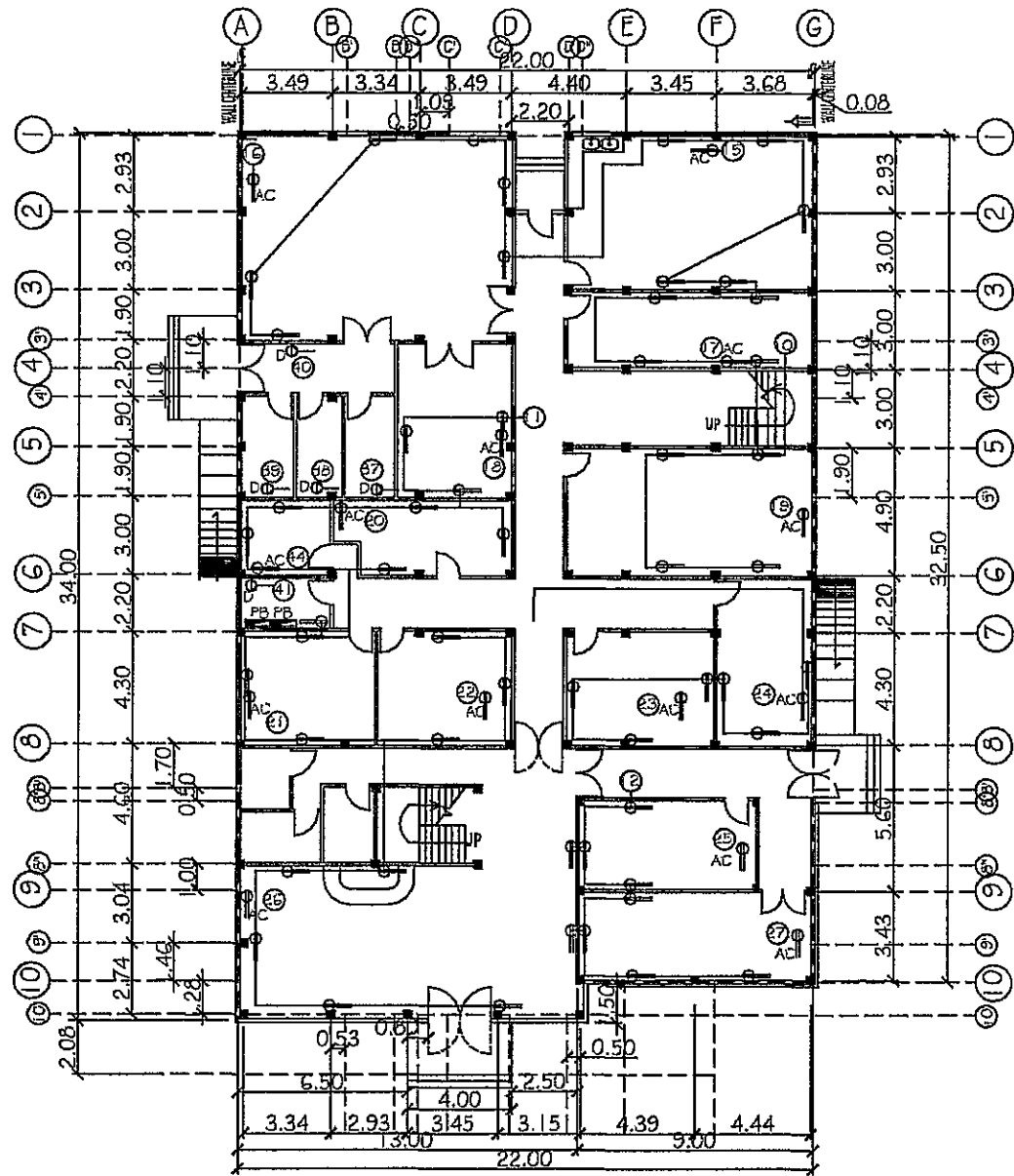
7 **TYP DETAIL/SECTION OF 2B-1**
Scale: NTS

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	REVISION BY:	SHEET NO.:	
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIDA	PHILMECH, CILSU Campus, Science City of Munoz, Nueva Ecija		CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DATE:	56	
						CHKD BY:		
						DESIGNED BY:		20
						DATE:		
						CHKD BY:		
DATE:								

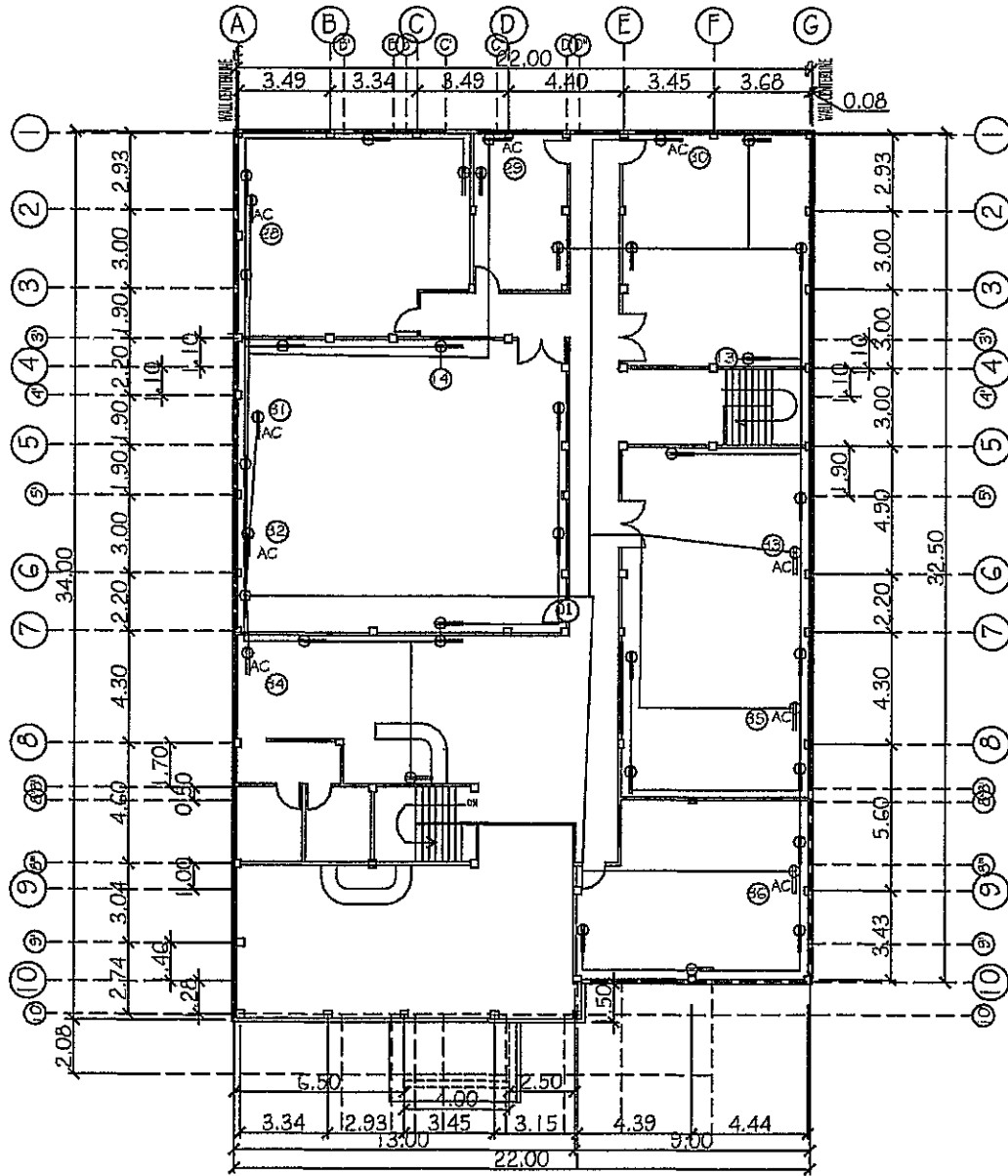


CE ELECTRICAL LIGHTING LAYOUT

OWNER/IMPLEMENTING AGENCY: PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECDA	PROJECT TITLE: PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecja	DESIGNED BY: 	PRC#: _____ TIN#: _____ PTR#: _____ ON: _____ AT: _____	CONSULTANT: CESAR M. MACALINAO Civil Engineer	RECOMMENDING APPROVAL: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISIO G. ALVINDIA PHD Executive Director, Philmech	ORDER NO: DATE: ISSUE NO: REVISIONS: ORDER BY:	SHEET NO: E3 23 / 41
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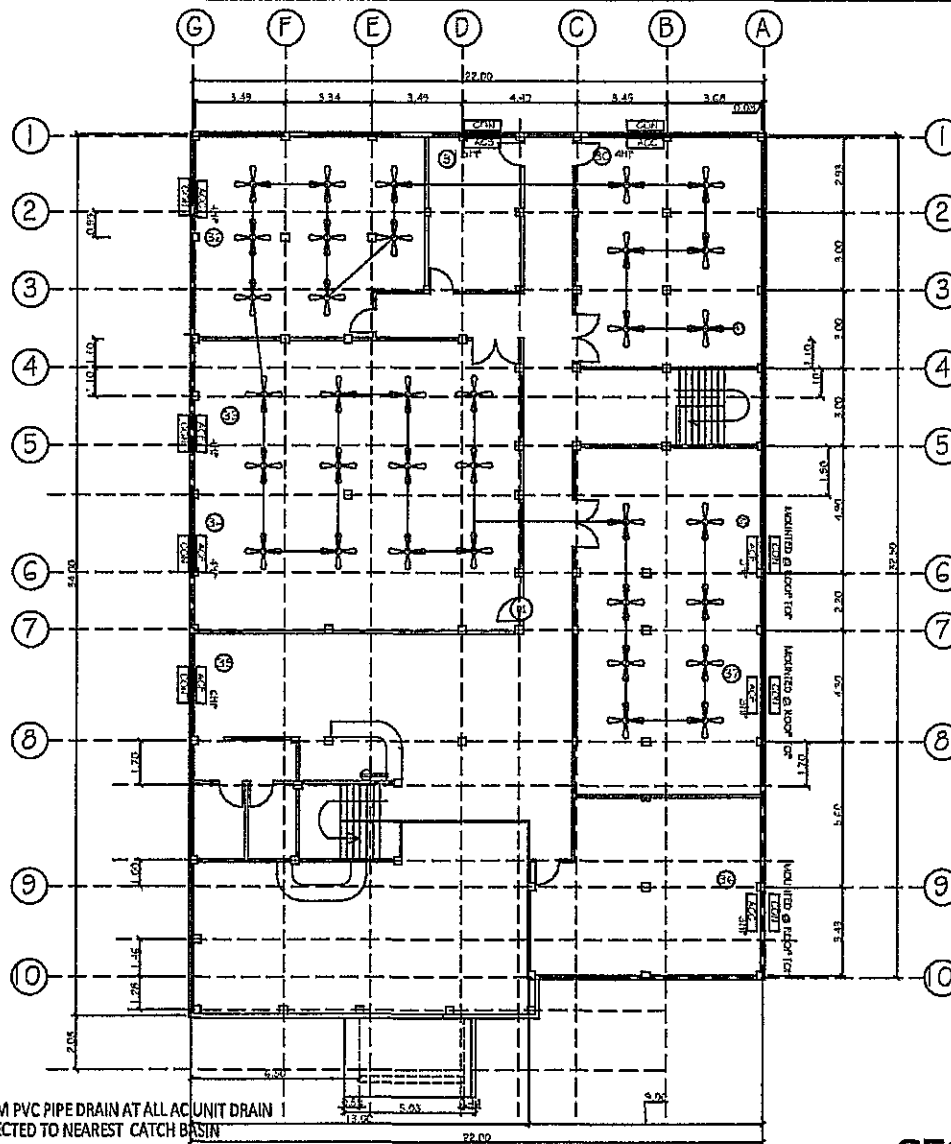


OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNER'S:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECCJA	PHILMECH, CULSU Campus, Science City of Muñoz, Nueva Ecija		CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DATE: CHECKED BY: REVISIONS: DATE:	E4 24 41



SE ELECTRICAL POWER LAYOUT

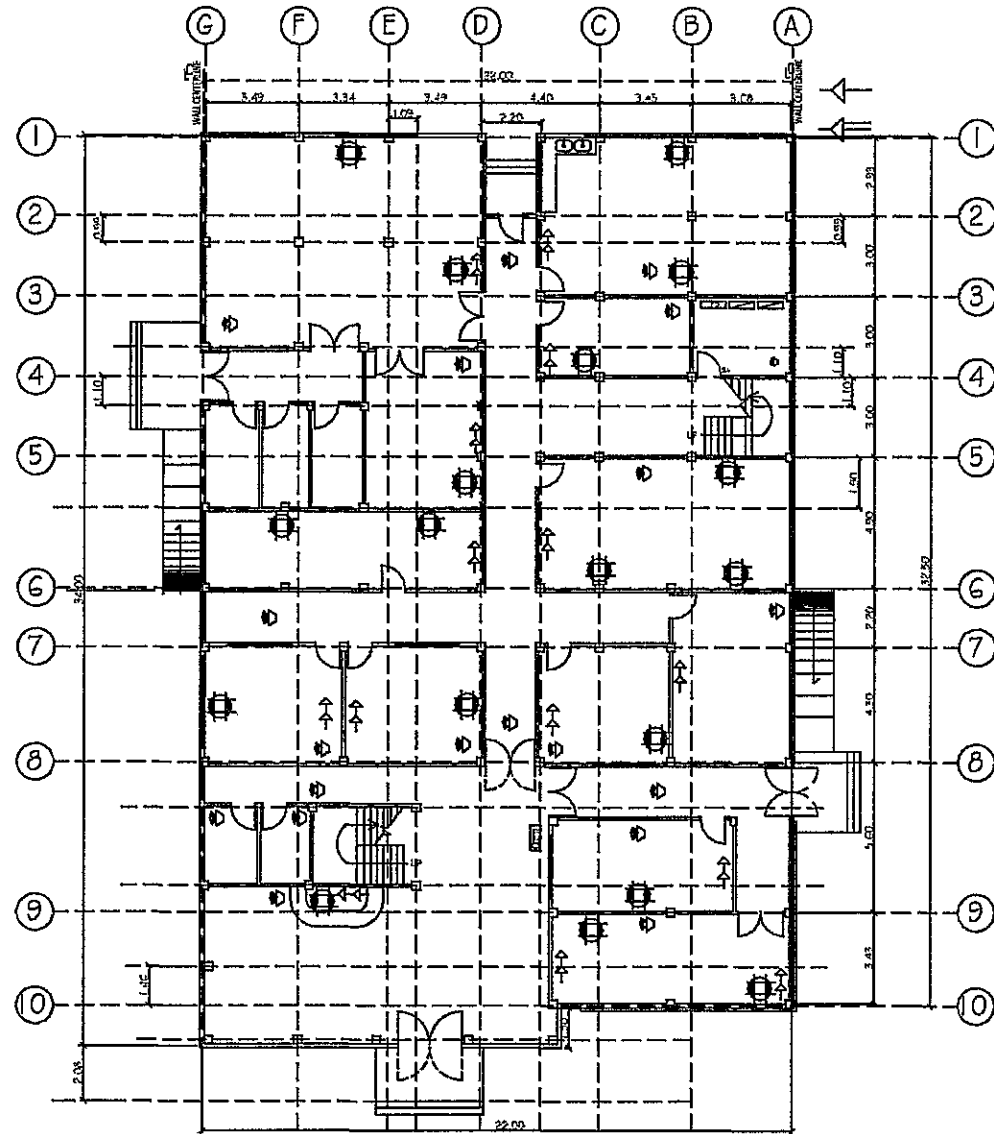
OWNER/EMPLOYING AGENCY: PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PROJECT TITLE: PHILMECH, CSMU Campus, Science City of Munoz, Nueva Ecja	DESIGNED BY: 	PRC#: _____ TIN#: _____ PTR#: _____ ON: _____ AT: _____	CONSULTANT: CESAR M. MACALINAD Civil Engineer	RECOMMENDING APPROVAL: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DRAWN BY: DATE: CAPD BY: CHECKED BY:	SHEET NO.: E5 25 / 41
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1 SECOND FLOOR COOLING LAYOUT

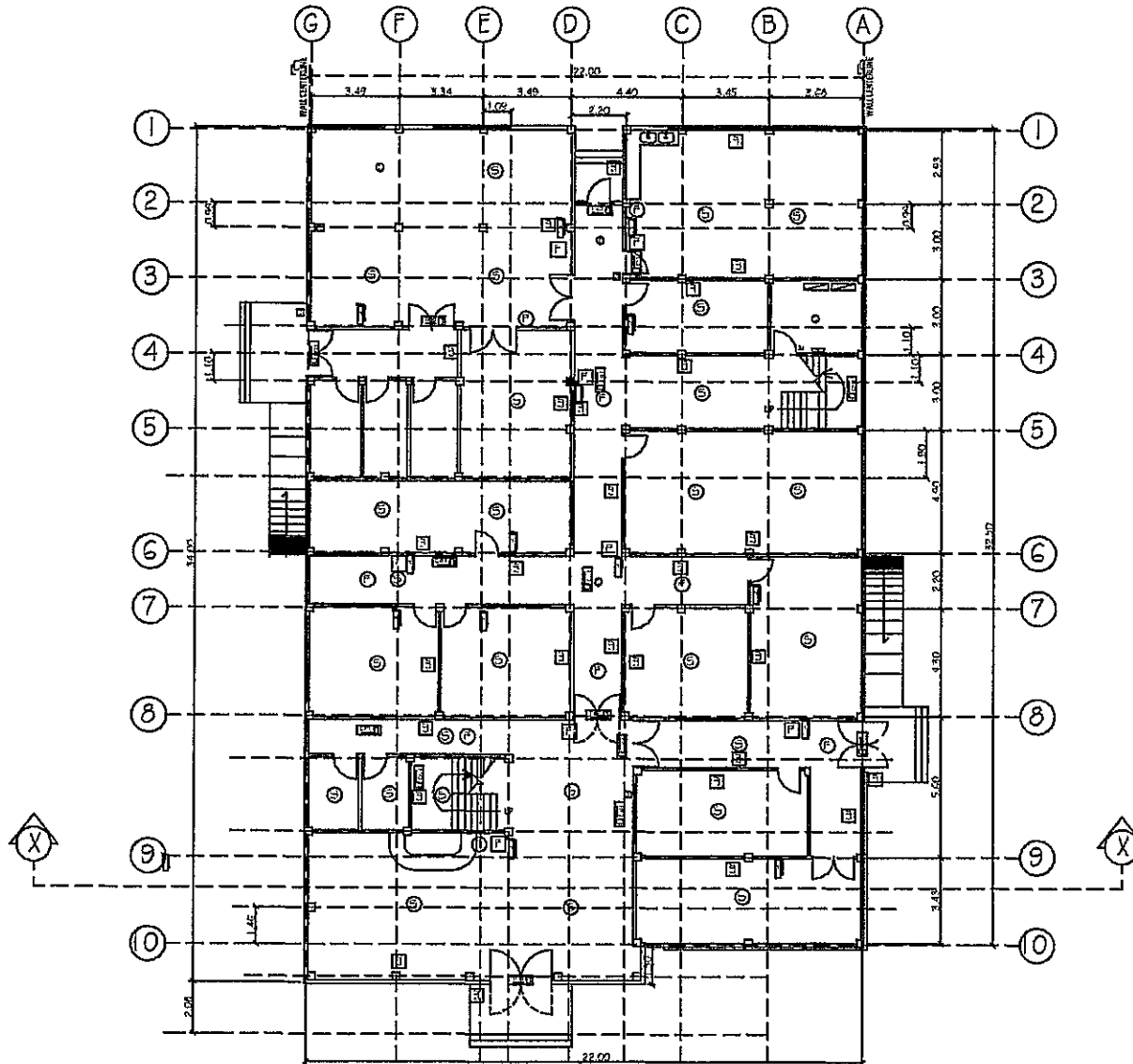
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OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIDA	PHILMECH, CUSU Campus, Science City of Munoz, Nueva Ecija		PREPARED BY: TITLE: PTRF: ON: AT:	CESAR M. MACALINDAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DATE: SCALE: SHEET NO.:	E8 28 41



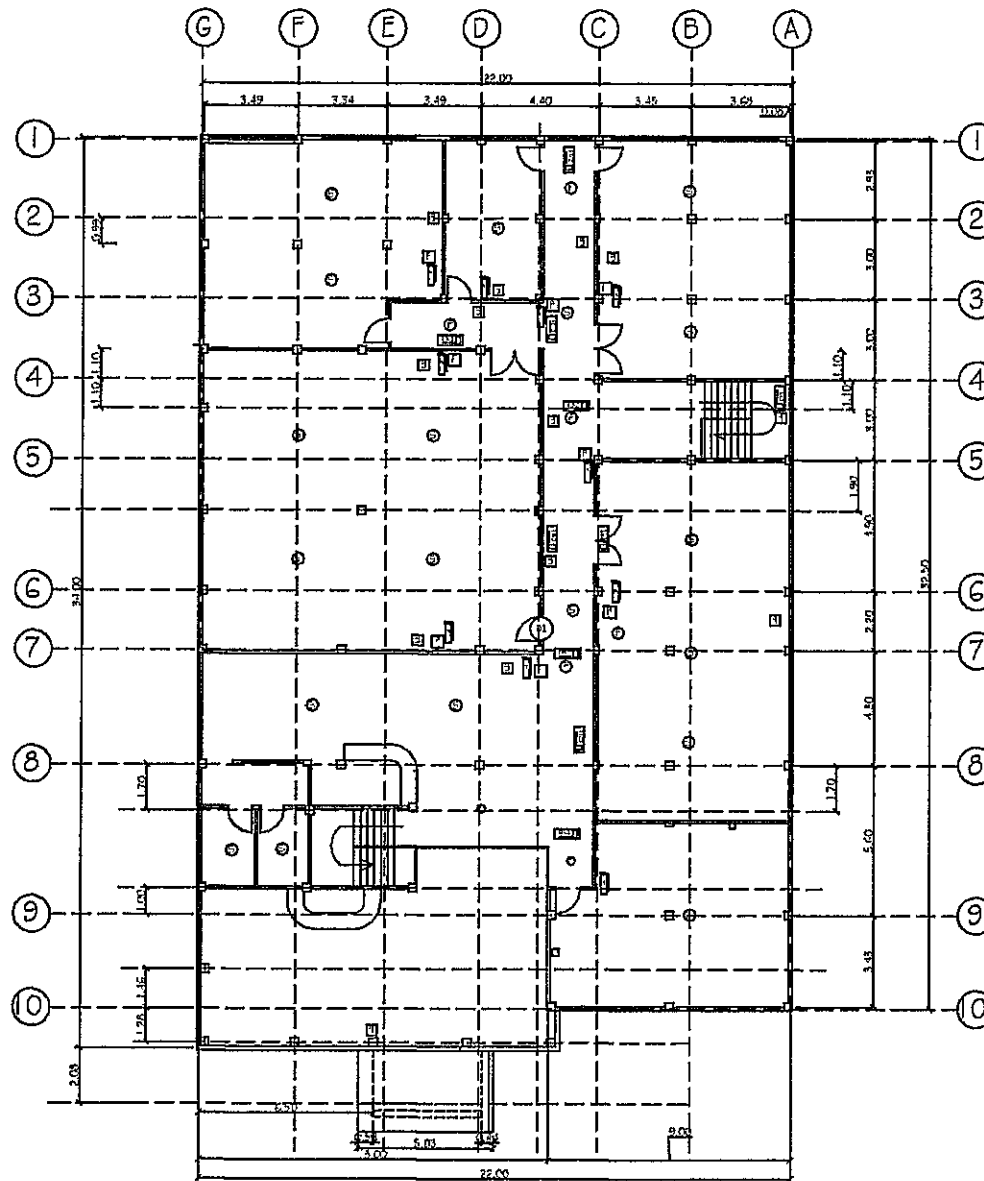
1 GROUND FLOOR COMMUNICATIONS PLAN
1:200

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PREPARED BY:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECija	PHILMECH, CILSU Campus, Science City of Munoz, Nueva Ecija		PRC/:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISO G. ALVINDIA PhD Executive Director, Philmech	DATE:	C1
			TLM/:				PROJECT:	29
			PTM/:				REVISIONS:	41
			ONE:				ORDER BY:	
			AT:					



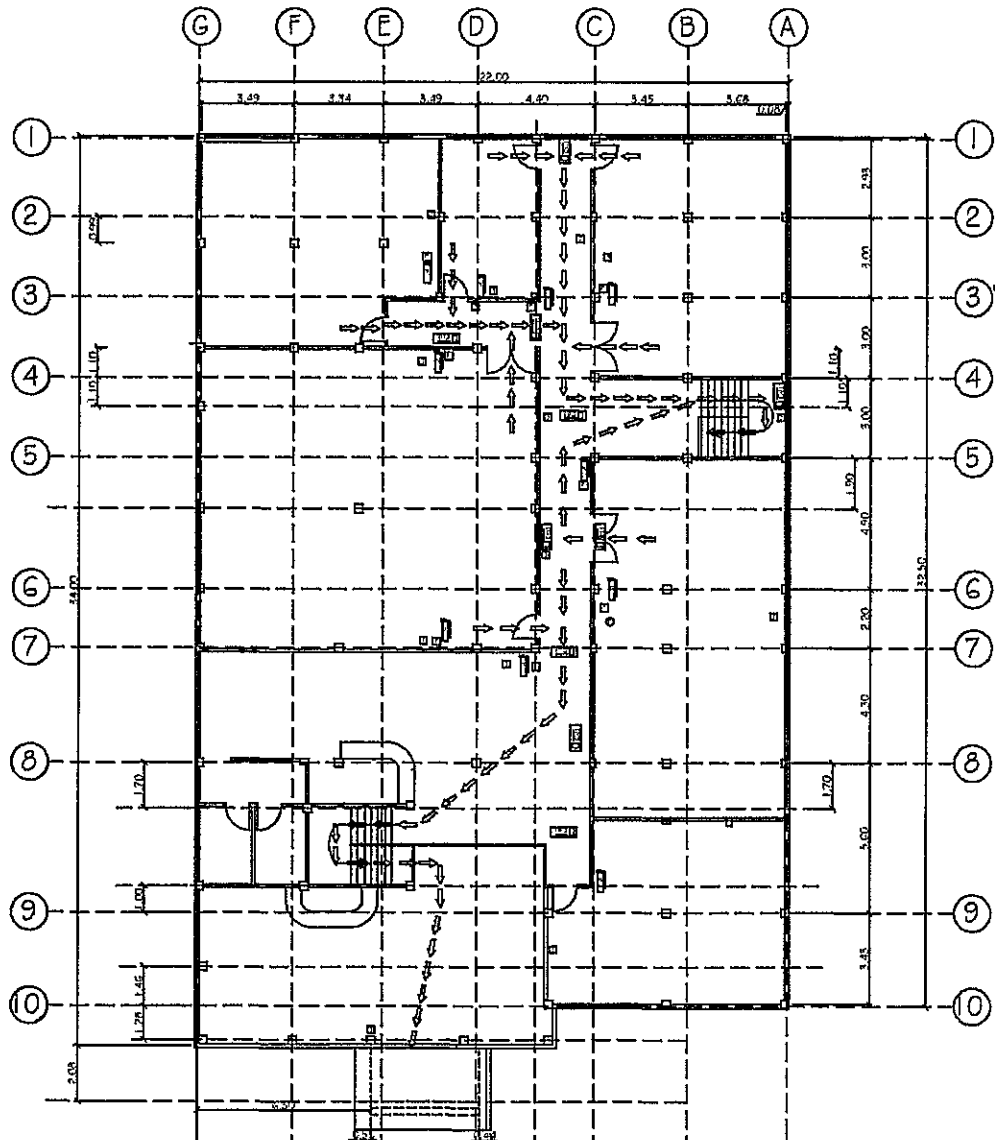
① GROUND FLOOR FIRE PROTECTION PLAN
1:200

OWNER/IMPLEMENTING AGENCY	PROJECT TITLE	DESIGNED BY	PRC#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECJA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecja		TRN#: PTR#: ONE: AT:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIDNISIO G. ALVINDIA PhD Executive Director, Philmech	REVISIONS: CHECKED BY: DATE:	F1 31 41



① SECOND FLOOR FIRE PROTECTION PLAN

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PRC#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	COORDINATOR:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNGOZ, NUEVA ECIDA	PHILMECH, CILSU Campus, Science City of Mungoz, Nueva Ecija		TSN#: PTR#: DN: AT:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DATE: CADD BY: REVISIONS: CHECKED BY:	F2 32 41

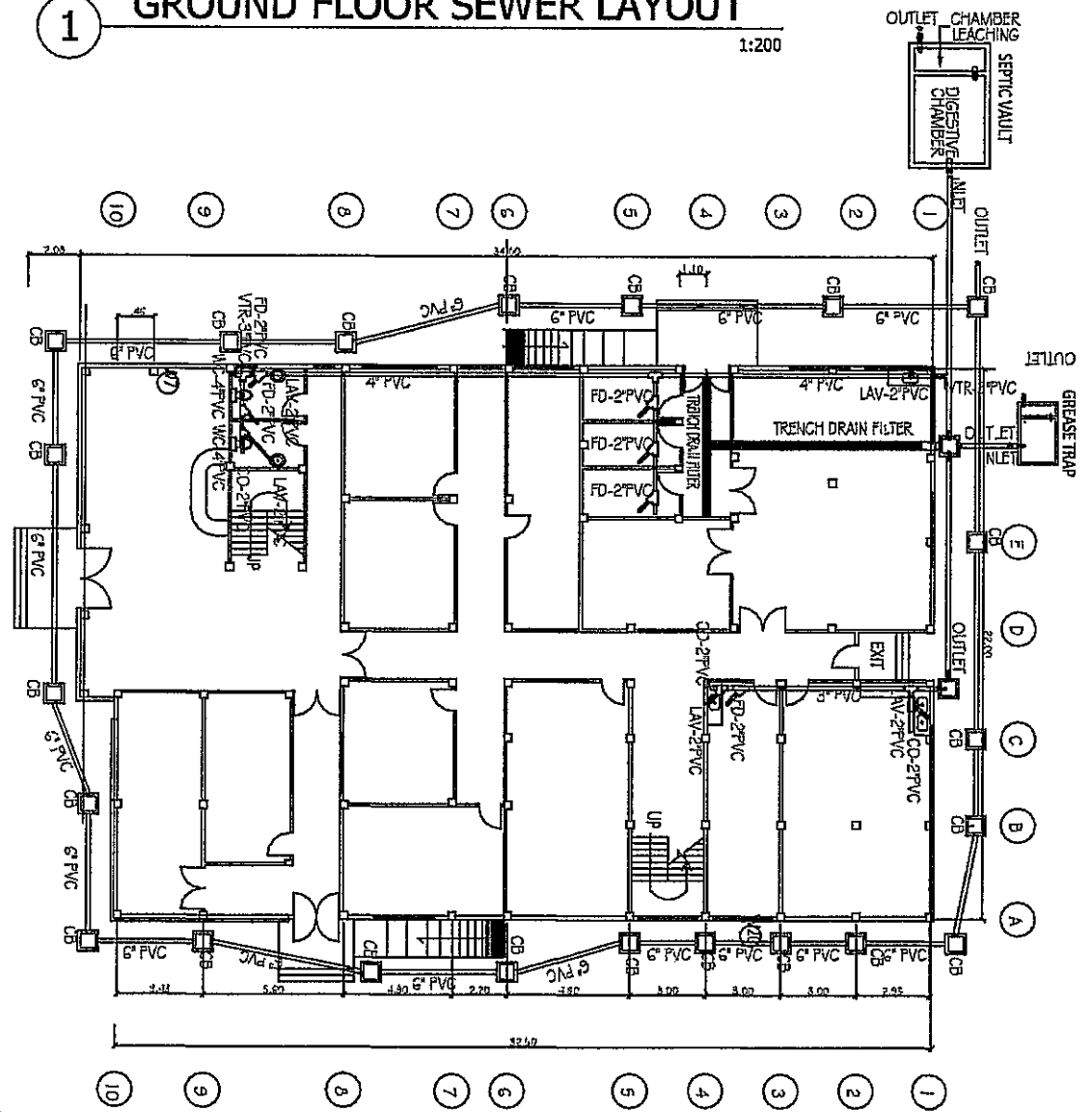


1 SECOND FLOOR EMERGENCY EVACUATION PLAN
1:200

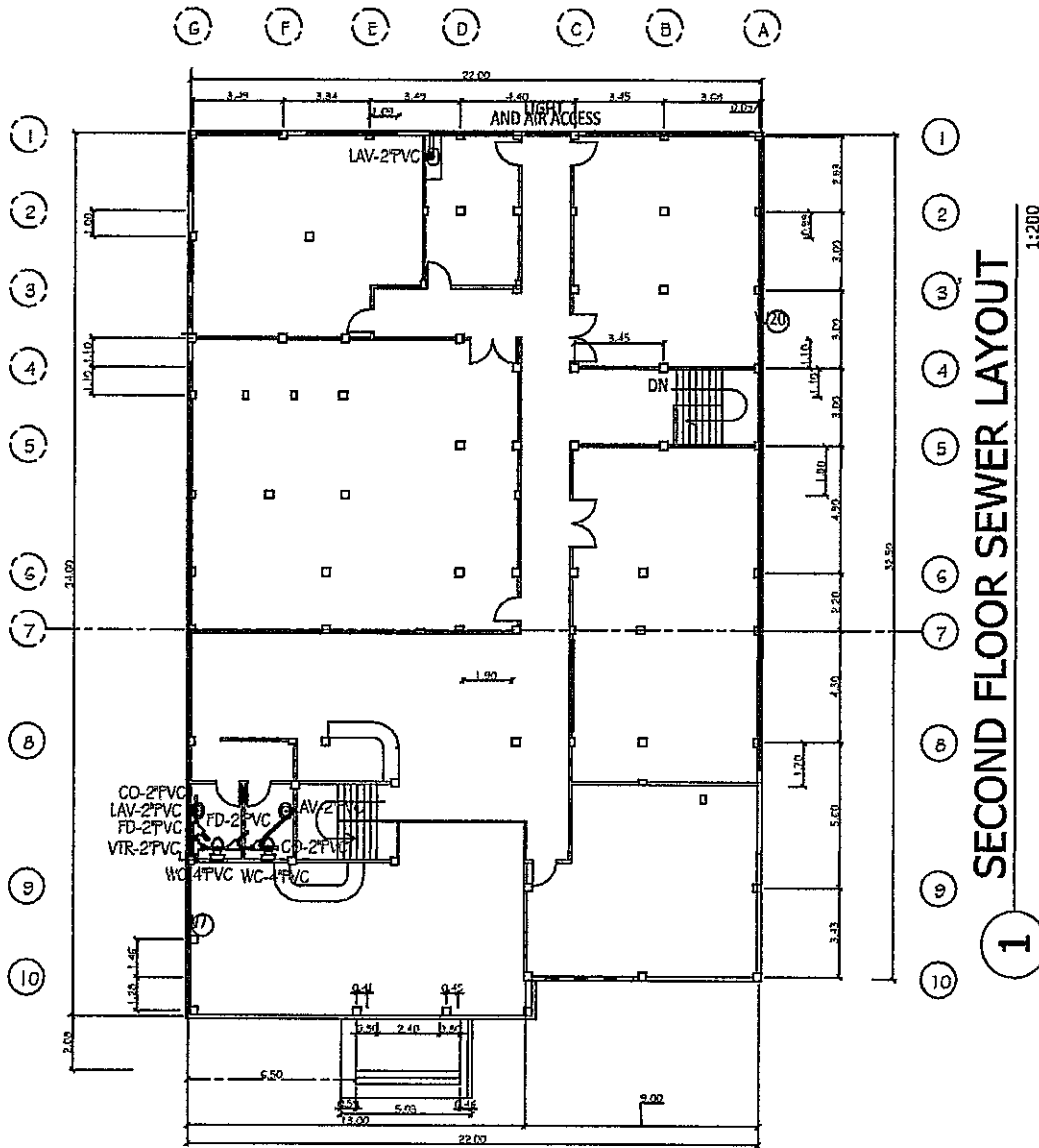
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PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIDA	PHILMECH, CSMU Campus, Science City of Muñoz, Nueva Ecija		PRCP#: TIN#: PTR#: ON: AT:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DATE: CDD#: CDD#: CDD#:	F4 34 41

1 GROUND FLOOR SEWER LAYOUT

1:200



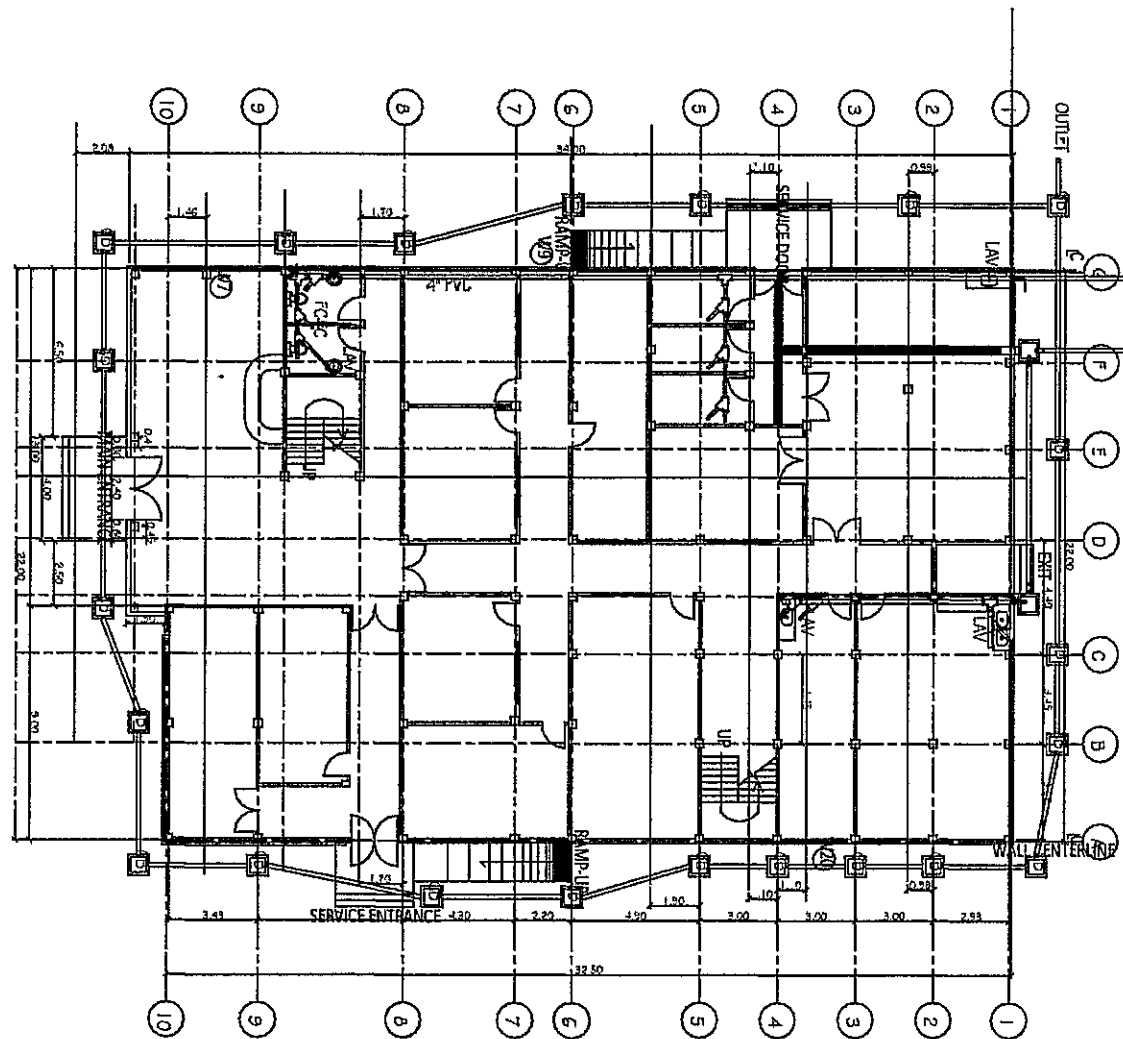
OWNER/IMPLEMENTING AGENCY: PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECDA	PROJECT TITLE: PHILMECH, CISMU Campus, Science City of Munoz, Nueva Ecija	DESIGNED BY: 	PRC#: _____ TIN#: _____ PTR#: _____ ONE _____ AT: _____	CONSULTANT: CESAR M. MACALINAO Civil Engineer	RECOMMENDING APPROVAL: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISIO G. ALVINDIA PhD Executive Director, Philmech	DESIGNER: DATE: _____ CADD PR: _____ CHECKED BY: _____ DATE: _____ SHEET NO. 1 35 41
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1 SECOND FLOOR SEWER LAYOUT

1:200

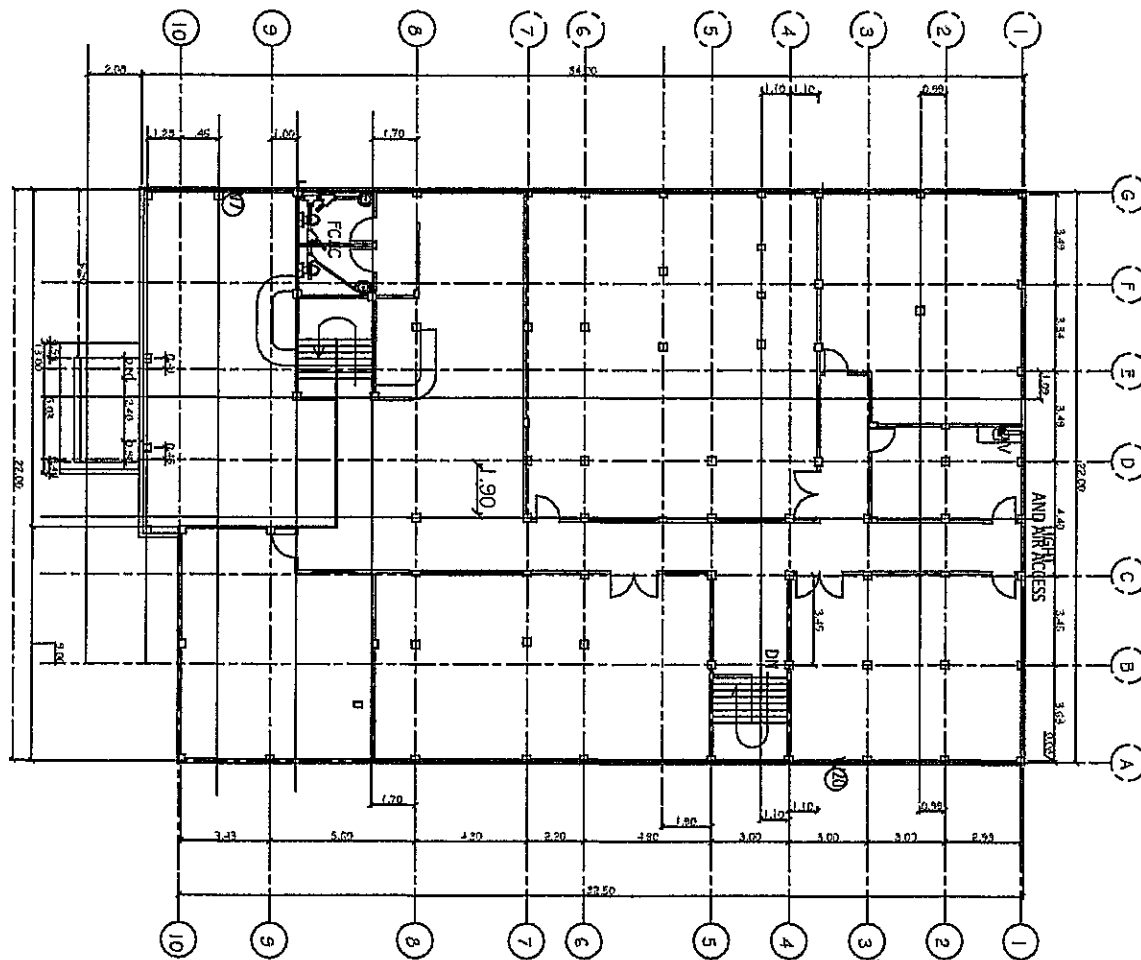
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECCA	PROJECT TITLE: PHLMECH, CSU Campus, Science City of Muñoz, Nueva Ecija	DESIGNED BY: CESAR M. MACALIMAO Civil Engineer	CONSULTANT: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISIO G. ALVARADO PhD Executive Director, Philmech	SHEET NO.: P2
					SHEET NO.: 36 of 41



1 GROUND FLOOR WATER LAYOUT

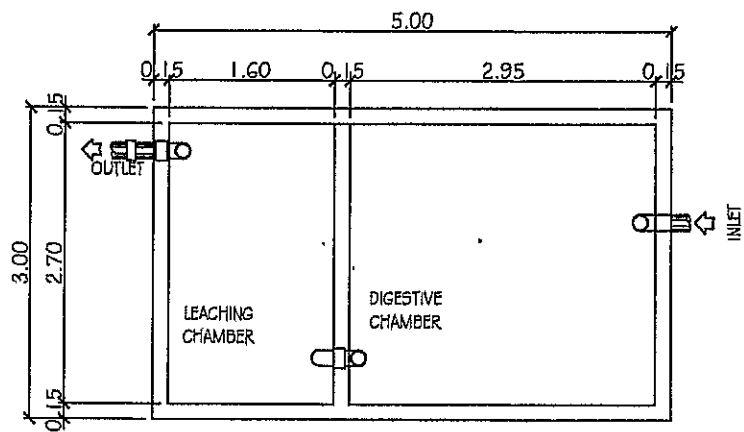
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OWNER/IMPLEMENTING AGENCY: PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIDA	PROJECT TITLE: PHILMECH, CSU Campus, Science City of Munoz, Nueva Ecida	DESIGNED BY:	PRC#:	CONSULTANT: CESAR M. MACALINAO Civil Engineer	RECOMMENDING APPROVAL: ENGR. RAUL F. PAZ Deputy Director, Philmech	APPROVED BY: DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DESIGNED BY:	SHEET NO. 1 P3
			TIN#:				DATE:	
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			ONE:				41	
			AT:					

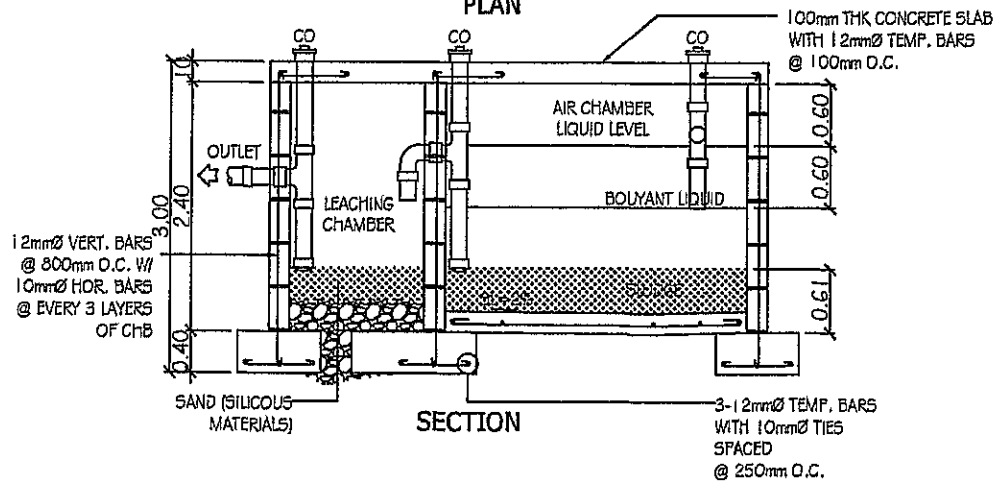


1 2ND FLOOR WATER LAYOUT
1:100

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	PRC#:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEVT & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECIDA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecida		TIN#: PTR#: ON: AT:	CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech	DATE: CHECKED: APPROVED BY: DATE:	P4 38 41

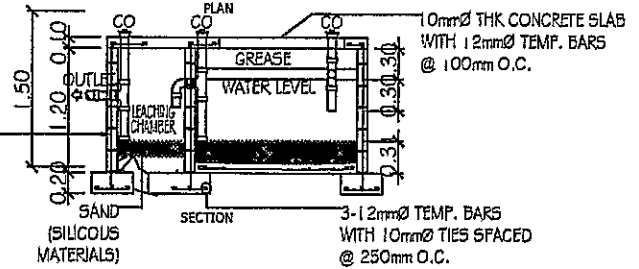
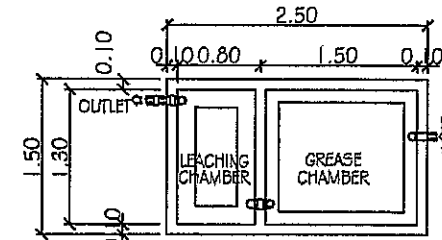


PLAN



SECTION

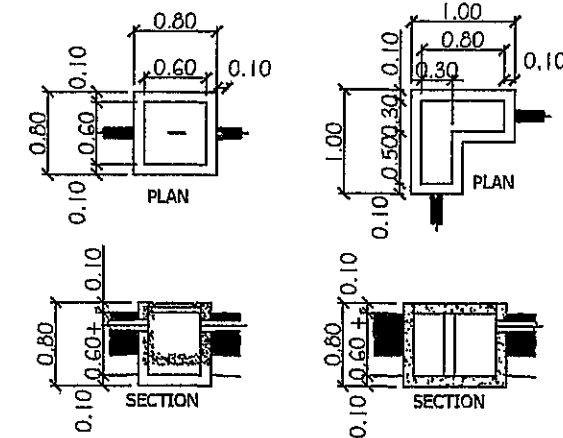
1 **DETAIL OF SEPTIC TANK**
Scale: 1:50



12mmØ VERT. BARS @ 800mm O.C. W/ 10mmØ HOR. BARS @ EVERY 3 LAYERS OF CHB

2 **DETAIL OF GREASE TRAP**

Scale: 1:50



3 **DETAIL OF CATCH BASIN**
Scale: 1:50

OWNER/IMPLEMENTING AGENCY:	PROJECT TITLE:	DESIGNED BY:	CONSULTANT:	RECOMMENDING APPROVAL:	APPROVED BY:	DESIGNED BY:	SHEET NO.:
PHILIPPINE CENTER FOR POSTHARVEST DEV'T & MECHANIZATION SCIENCE CITY OF MUNOZ, NUEVA ECDA	PHILMECH, CLSU Campus, Science City of Munoz, Nueva Ecja		CESAR M. MACALINAO Civil Engineer	ENGR. RAUL F. PAZ Deputy Director, Philmech	DIONISIO G. ALVINDIA PHD Executive Director, Philmech		P6
			PRC#: _____ TIM#: _____ PTR#: _____ ON: _____ AT: _____				40 41