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REPUBLIC OF THE PHILIPPINES

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES CAVITE CAMPUS

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Management System ISO 9001:2015



Invitation to Bid for Completion of Administration Building

- 1. The Technological University of the Philippines Cavite Campus, through the Corporate Budget for the contract approved by the TUP Board of Regents intends to apply the sum of Eight Million Four Hundred Ninety Five Thousand Four Hundred One Pesos & 99/100 (PhP 8,495,401.99) being the Approved Budget for the Contract (ABC) to payments under the contract for Completion of Administration Building. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2. The *Technological University of the Philippines Cavite Campus* now invites bids for the above Procurement Project. Completion of the Works is required *within 180 calendar days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
- 3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
- 4. Interested bidders may obtain further information from *Technological University of the Philippines Cavite Campus* and inspect the Bidding Documents at the address given below from 8:00-5:00.
- 5. A complete set of Bidding Documents may be acquired by interested bidders on *July 23*, 2021 August 18, 2021 from given address and website/s below upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of PhP 8,500.00.The Procuring Entity shall allow the bidder to present its proof of payment for the fee in person, by facsimile, or through electronic means.
- 6. The *Technological University of the Philippines Cavite Campus* will hold a Pre-Bid Conference¹ on *August 5, 2021* at the TUPC Campus Library at 10:00 am, which shall be open to prospective bidders.
- 7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address as indicated below on or before *August 20*, *2021 at 10:00 am*. Late bids shall not be accepted.

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.

- 8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
- 9. Bid opening shall be on *August 20, 2021* at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
- 10. The *Technological University of the Philippines Cavite Campus* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
- 11. For further information, please refer to:

EDMUNDO G. FRIAS
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Prof. Edmundo G. Frias BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Technological University of the Philippines – Cavite Campus* invites Bids for the *Completion of Administration Building*, with Project Identification Number 2021 - 03.

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 2019 and 2020 in the amount of *PhP* 8,495,401.99.
- 2.2. The source of funding is: Corporate Operating Budget

3. Bidding Requirements

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

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

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

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

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

5. Eligible Bidders

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

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

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

6. Origin of Associated Goods

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

7. Subcontracts

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

The Procuring Entity has prescribed that:

Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on August 5, 2021 at 10:00 am TUPC Campus Library as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the

IB, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents Comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

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

Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security shall be valid until *December 20, 2021*. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be

opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

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

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS), and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause			
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: Single Largest Completed Contract (SLCC) that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC		
7.1	Subcontracting is not allowed.		
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.		
The key personnel must meet the required minimum years of explosions:			
	Key Personnel General Experience Relevant Experience		
10.5	The minimum major equipment requirements are the following:		
	Equipment Capacity Number of Units		
12	[Insert Value Engineering clause if allowed.]		
15.1	The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts: a. The amount of not less than Php 169,908.04, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;		
	b. The amount of not less than PhP 424,770.10 if bid security is in Surety Bond.		
19.2	Partial bids are allowed, as follows: Not Allowed		
20	[List licenses and permits relevant to the Project and the corresponding law requiring it, e.g. Environmental Compliance Certificate, Certification that the project site is not within a geohazard zone, etc.]		
21	Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and Scurve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.		

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

- 4.1. The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the SCC, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.
- 4.2. If possession of a portion is not given by the above date, the Procuring Entity will be deemed to have delayed the start of the relevant activities. The resulting adjustments in contract time to address such delay may be addressed through contract extension provided under Annex "E" of the 2016 revised IRR of RA No. 9184.

4. The Contractor's Obligations

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

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

5. Performance Security

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

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

- 11.1. The Contractor shall submit to the Procuring Entity's Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the SCC.
- 11.2. The Contractor shall submit to the Procuring Entity's Representative for approval an updated Program of Work at intervals no longer than the period stated in the SCC. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity's Representative may withhold the amount stated in the SCC from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause			
2	[If different dates are specified for completion of the Works by section, i.e. "sectional completion," these dates should be listed here.]		
4.1	[Specify the schedule of delivery of the possession of the site to the Contractor, whether full or in part.]		
6	The site investigation reports are: [list here the required site investigation reports.]		
7.2	[Select one, delete the other.]		
	[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:] Fifteen (15) years.		
	[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:] Five (5) years.		
10	[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:] Two (2) years. [Select one, delete the other:]		
	a. Dayworks are applicable at the rate shown in the Contractor's original Bid. b. No dayworks are applicable to the contract.		
11.1	b. No dayworks are applicable to the contract. The Contractor shall submit the Program of Work to the Procuring Entity's Representative within [insert number] days of delivery of the Notice of Award.		
11.2	The amount to be withheld for late submission of an updated Program of Work is [insert amount].		
13	The amount of the advance payment is [insert amount as percentage of the contract price that shall not exceed 15% of the total contract price and schedule of payment].		
14	[If allowed by the Procuring Entity, state:] Materials and equipment delivered on the site but not completely put in place shall be included for payment.		
15.1	The date by which operating and maintenance manuals are required is [date].		

	The date by which "as built" drawings are required is [date].	
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	
	[amount in local currency].	

Section VI. Specifications

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES CAVITE CAMPUS

Carlos Q. Trinidad Ave., Salawag, Dasmariñas City, Cavite

GENERAL SPECIFICATIONS

A. COMPLETION OF ADMINISTRATION BUILDING

I. CONCRETE/MASONRY WORKS

All concrete works shall be done according to standard specifications for concrete, in accordance with the National Building Code.

1. CEMENT

Portland cement shall conform to the "Standard Specifications for Portland Cement" (ASTM C-150).

2. CONCRETE AGGREGATES

Concrete aggregates shall be well graded, clean and hard particles of gravel crushed rocks.

- **a.** Fine aggregates shall be white sand or any washed sand of approve type as approved by the PMC.
- **b.** Coarse aggregates shall be of first class machine crushed stone gravel. Coarse aggregate shall be well graded as to size ranging from 20 mm in size for slabs, beams and columns and 25 mm for foundation works and footings.

3. WATER

Water to be used in mixing concrete shall be clean and free from injurious amount of oil, acids, alkali, organic materials and other deleterious substances.

4. REINFORCING STEEL

All reinforcing steel bars to be used shall be new, and free from rust, oil, defects, grease, or kinks.

All rebars shall be billet steel, structural grade, ASTM A-15 deformed bars, Fy = 230 MPa

All column dowels shall be extended by a minimum of 1 meter from the second floor slab with epoxy primer coating.

5. QUALITY OF CONCRETE

Strength of concrete shall be attained after twenty-eight (28) days with a compressive stress of 20.7 MPa for structural components such as footing, columns, beams and 17.24 MPa for slab on fill.

Proportioning of concrete shall be as follows:

- a. Class "A" (1:2:4) for all concrete footings, columns, and beams.
- b. Class "B" (1:21/2:5) for all concrete slabs on fill.
- c. Mixture of 1:3 and 1:5 is to be used for plastering and mortar respectively.

6. CONSISTENCY, MIXING, DEPOSITING AND CURING OF CONCRETE

- a. Concrete shall be machine mixed and be done in a batch mixer of approved type and will ensure uniform distribution of materials throughout the mass. Job mixing will be allowed only when approved by the IDO and with closed supervision.
- b. Continuous and monolithic pouring is preferred for all slabs and beams. Whenever possible, no construction joint shall be allowed on any parts of the structure without the approval of the engineer in charge of construction. Before depositing concrete, debris shall be removed from the space to be occupied by the concrete and forms shall be thoroughly wetted and buttered.
- c. Exposed surfaces of concrete shall be protected from premature drying by covering with canvass, earth sand and other satisfactory materials and kept thoroughly wetted for a period of at least 10 days after being deposited.
- **7. MASONRY** All concrete hollow blocks shall be sound and free from cracks or other defects that would interfere with the proper placing of the unit or impair the strength of construction. Sizes of blocks shall be 5"x8"x16" unless other specified.

All concrete hollow blocks shall be laid plumb, true to the line and in accurately spaced courses, and shall reveal corners plumb and true and with each course breaking

joint halfway with the course below. Units shall be wetted before laying. Joint shall be 3/8". The mortar on both the horizontal and vertical joints shall be buttered on the block at the time of laying and not flush or grouted in place.

Reinforcement shall consist of 12mm vertical bars at 0.80 meters on center and 12mm horizontal bars placed at every third layer. Reinforcing bars shall have a lap of 40 bar diameter. All cells of concrete hollow blocks shall be filled with 1:5 concrete mortar.

III. FORMS/SCAFFOLDINGS WORKS

Use steel scaffoldings or any approved equal for all scaffolding works for concreting, carpentry, steel works and other elevated portions of building. Plywood form of $\frac{1}{2}$ " thick shall be used for columns and beams.

IV. CARPENTRY WORKS

- Use metal furring and fiber cement boards for ceiling on lobby, waiting area, hallways and eaves. For all the offices, use t-runners and fiber cement boards for the ceiling. See Reflected Ceiling Plan for details.
- 2) For office wall partitions, construction of CHB wall up to 1.0 meters from floor to top of wall. Dry wall composed of fiber cement boards and metal furring.

V. ELECTRICAL WORKS

All works shall comply with the provisions of the latest approved edition of the Philippine Electrical Code.

MATERIALS

- Feeder wiring shall be rigid steel conduit (RSC) and for branch circuit, it shall be made
- b. Minimum size of conductor shall be 3.5 mm² THWN+1.2mm² rated for 230 V and conduit shall be 15 mmø PVC trade size unless otherwise noted or indicated.
- c. All switches, convenience outlets and plates shall be National or any approved equal.
- d. All convenience outlets to be used shall be water proof duplex.
- e. Circuit breaker shall be with its total number of circuits as indicated on the plan.
- f. Panel board shall be bolt-on type

2. INSTALLATION

No branch circuit running shall have a load of more than 80% of its rating. Boxes shall be provided if necessary although not seen in the layout. All splices shall be properly insulated and shall be done only inside boxes. Wall switches shall be installed 1.37m (4' 6") and convenience outlet at 0.30m (12") above floor unless otherwise specified or shown in the plans.

VI. PLUMBING WORKS AND FINISHES

- Fixtures like lavatory and water, closet, urinals and sink to be used shall be of approved type and as requested by the owner.
- 2. Ceramic tiles (24"x24") shall be used for all toilets and shall be as approved by the IDO.
- 3. Toilet walls shall be finished with Ceramic tiles (24"x24") up to a height of 1.8 meters from the finished floor elevation. There is a designated accent wall to be coordinated with the IDO.
- 4. Use phenolic doors and cubicles for all toilets with partitions. Color shall be appoved by the IDO before installation.
- 4. Roughing-in for pipes shall be carried along with the building construction. Correctly located openings of proper sizes shall be provided where required in the walls and floors for the passage of pipes. All items to be embedded in concrete shall be thoroughly clean and free from dust scale and paint. All works shall be done in accordance with the National Plumbing Code.
- 5. Check installed rough-in pipe (sewer and water supply) before the installation of fixtures.

MATERIALS:

- a. Use ½" (12mm) PVC pipe for water lines and ¾" (18mm) PVC pipe for riser or any approved equal as approved by the supervising Engineer.
- b. Use PVC fittings or any approved equivalent.
- c. Use 2", 3" and 4" Neltex PVC pipe for waste line or any approved equal.

VII. STRUCTURAL STEEL WORKS

This work shall consist of furnishing, fabricating, erecting and painting structural steel used to complete the structures in accordance with the plans and the specifications.

1. MATERIALS

- All structural steel angle bars shall conform to ASTM A-36 (fy = 36000 psi). Roof trusses shall be made of 3/16"x3"x3" and 3/16"x2 ½"x2 ½" angle bars.
- Materials for stair railing, balcony, ramp railings, and steel platform shall be as specified on plans.
- Acrylic build-up signage shall be installed at exterior front wall with dimensions specified on plans.

2. FABRICATION

All fabrication including workmanship, cutting, assembling, welding, finishing and tolerances shall be accomplished in accordance with the National Building Code and the National Structural Code of the Philippines. Welding electrodes shall be E 70 XX series.

3. ERECTION

In no case shall any part of the load of a steel superstructure be transferred to a "Concrete Masonry" substructure before the 7th day after the date on which the pouring of the substructure unit is completed.

VIII. FENESTRATIONS

1. DOORS & WINDOW

a. All doors and windows shall be of as specified on the schedule of doors and windows on plan.

IX. FLOOR / WALL FINISHES

INTERIOR:

TILES	DESCRIPTION	LOCATION
FLOOR	24"X24" ceramic tiles	First and second floor
FLOOR	24" x 24" ceramic tiles	Comfort Room floor
WALL	24" x 24" ceramic wall tiles	Comfort Room
WALLS FRONTING THE HALLWAYS	CHB wall as base with dry wall and glass partition	Offices

EXTERIOR:

DESCRIPTION	LOCATION	
Painted plain cement plaster finish	Exterior wall	
Aluminum Composite Panel	Entrance (Accent wall from natural ground floor to top)	
Painted C-purlins on Steel Tubular Frames	Brise Soleil as Sun buffers (façade)	
2-2"x6" C-purlins to serve as posts	Vertical Posts as Brise Soleil (façade)	

X. EXTERIOR MISCELLANEOUS FINISHES

TUP LOGO

Material to be used shall be acrylic build up with light. Diameter as shown in the detail drawings.

XI. FINISHING HARDWARES

All hardware shall be suitable to the services required to fully equip all satisfactions of doors, windows, toilet, etc. Whenever available, locally made meeting these specifications are preferred although equivalent imported brands may be accepted and used.

Lockset, door hinges, showerhead, shower valve, faucets, hose bib, etc. shall be based on the recommendation of the engineer or the owner.

XII. PAINTING

PREPARATION

- All surfaces to be painted shall be examined carefully before beginning any work and see that all work of other trades or subcontractor are installed in workmanlike condition to achieved paint, stain or particular finish.
- Before proceeding with any painting or finishing, thoroughly clean, sand, and seal if
 necessary by removing from all surfaces all dust, dirt, grease, or other foreign substances
 which would affect either the satisfactory execution or permanency of the work. Such
 cleaning of shall be done after the general cleaning executed under the separate division
 of the work.
- 3. Only skilled painter shall be employed in the work. All workmanship shall be executed in accordance with best acceptable practices.
- 4. Finish hardware, lighting fixtures, plates and other similar item shall be removed by workmen skilled in these trades, or otherwise protected during painting operation or reposition upon completion of each space.
- 5. Neither paint nor any other finish treatment shall be applied over wet or damp surfaces. Allow at least two (2) days from drying preceding coat before applying succeeding coat.
- Begin work only when resident IDO representative inspected and approved prepared surface otherwise no credit for coat applied shall be given. The contractor shall assume responsibility to recoat work in question. Notify IDO when particular coat applied is complete, ready for inspection and approval.

Schedule of painting shall be as follows:

- 1. All masonry wall cement-finished surface one (1) coat neutralizer and two (2) coats of latex paint.
- 2. Fiber cement surface ceiling or wall partitions two (2) coats of semi-gloss enamel.
- 3. Wooden doors and door jambs shall be coated by putty.
- 4. Steel and metal works one (1) coat epoxy primer and two (2) coats quick-drying enamel.
- 5. Paint color should be approved by the IDO first before execution.
- 6. The paint to be used shall be Boysen or any approved equal.

XIII. MECHANICAL WORKS

PWD Lift - Minimum Specifications:

- 1) DRIVE SYSTEM: MAX Capacity 150kg / 1-2 Persons
- 2) CAPACITY: TRAVEL: Standard: Up to 4500mm
- 3) NO of FLOORS: Standard: 2 Maximum with intermediate landing option
- 4) SUPPLY VOLTAGE: 240v 1PH 50HZ

For all other mechanical works refer to working drawings and estimate

XIV. ELECTRONICS AND OTHER TECHNICALWORKS

Please refer to Cost Estimates for the specifications. For approval of the IDO.

Prepared by:

Approved by:

icii. Jeilily Kareraer

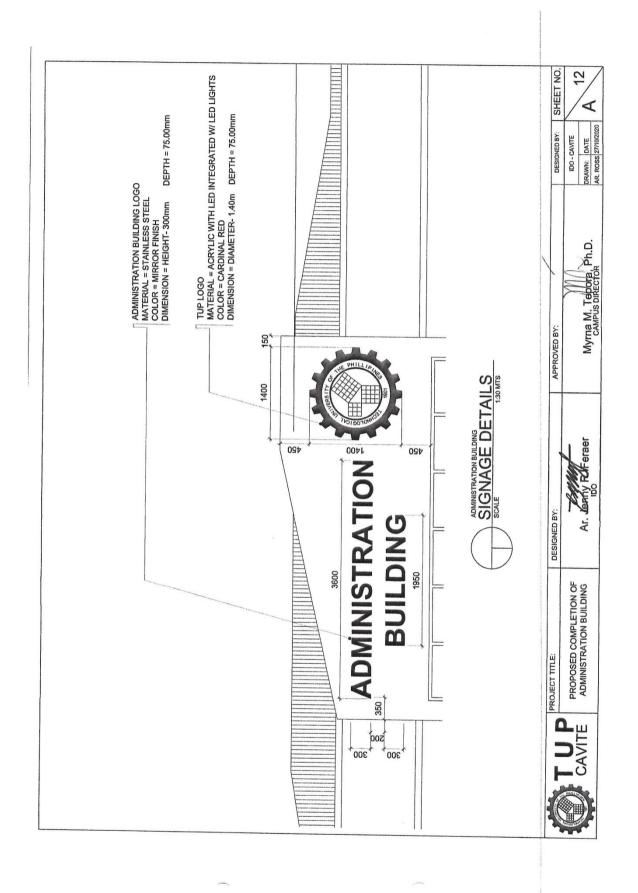
Myrna M. Tepora, Ph.D

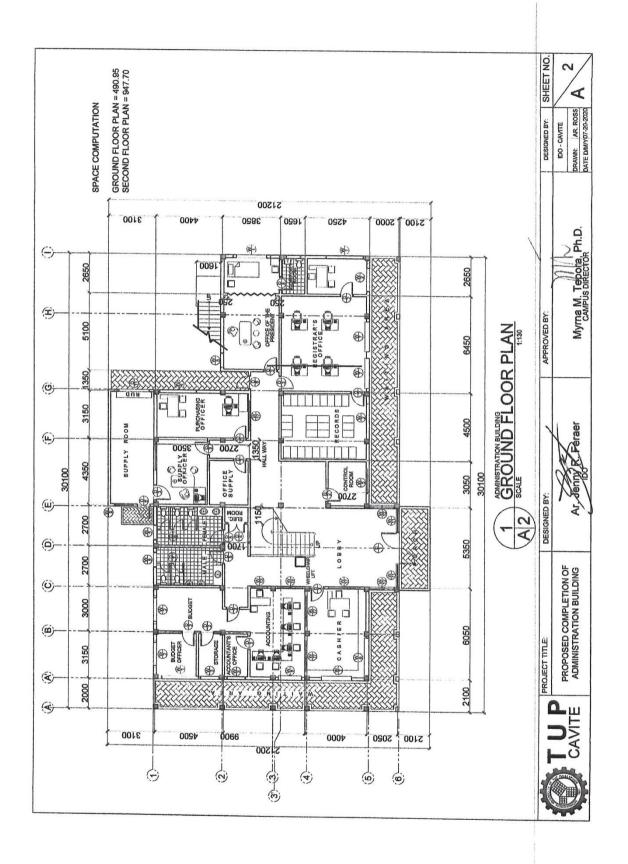
IDO Chairman

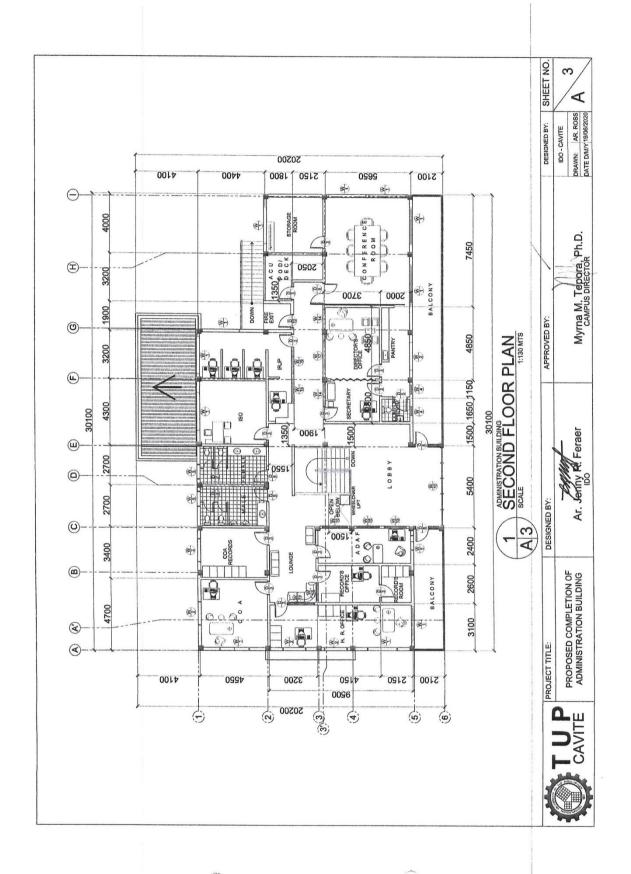
Executive Director

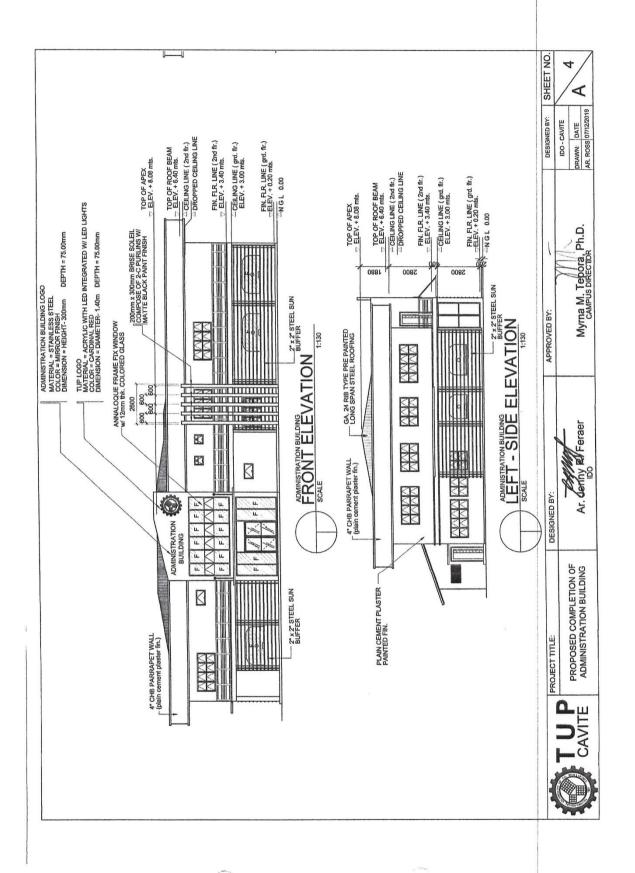
Section VII. Drawings

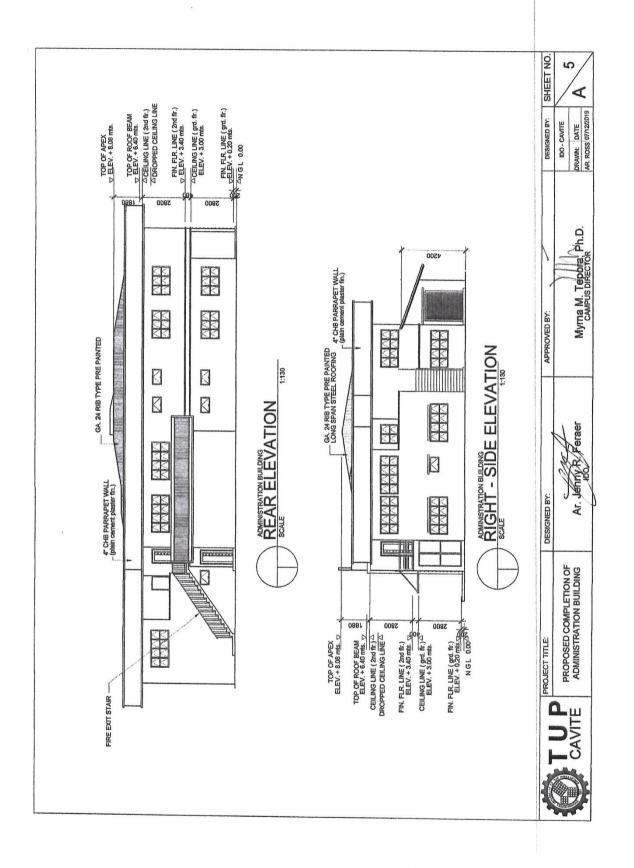


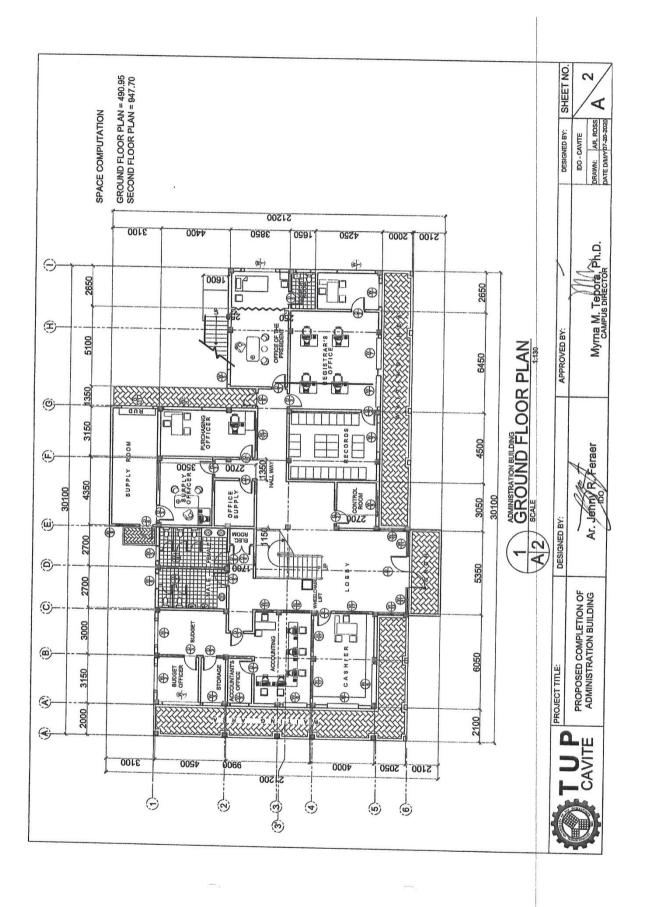


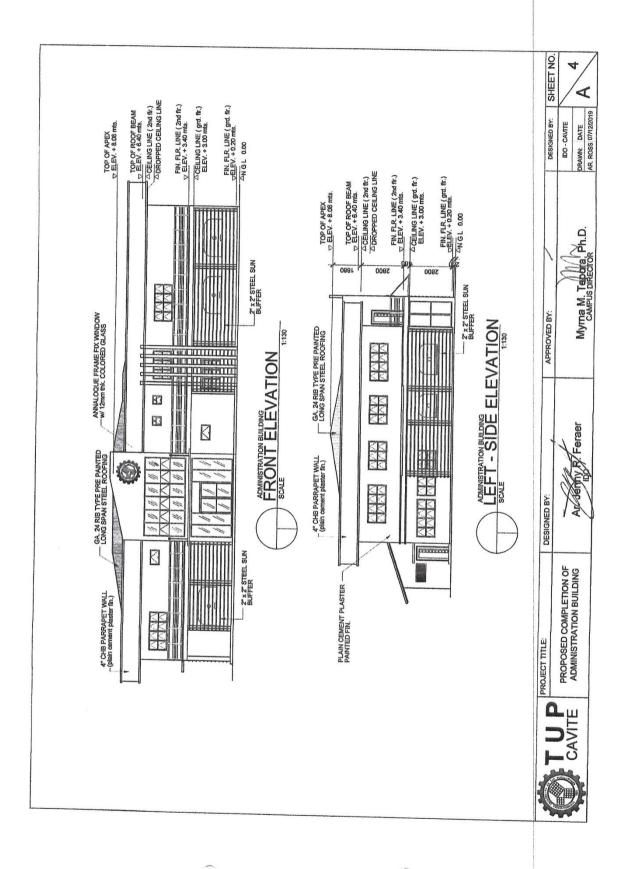


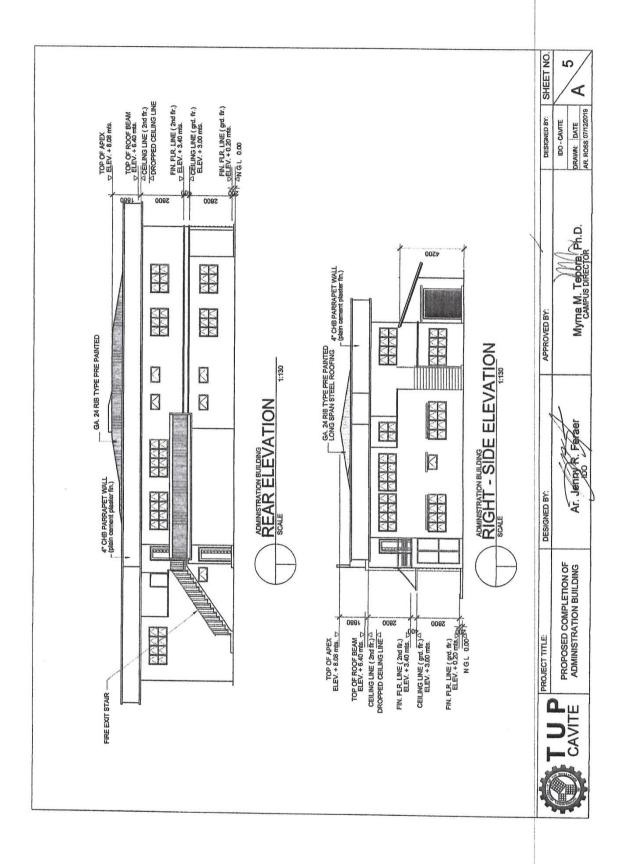


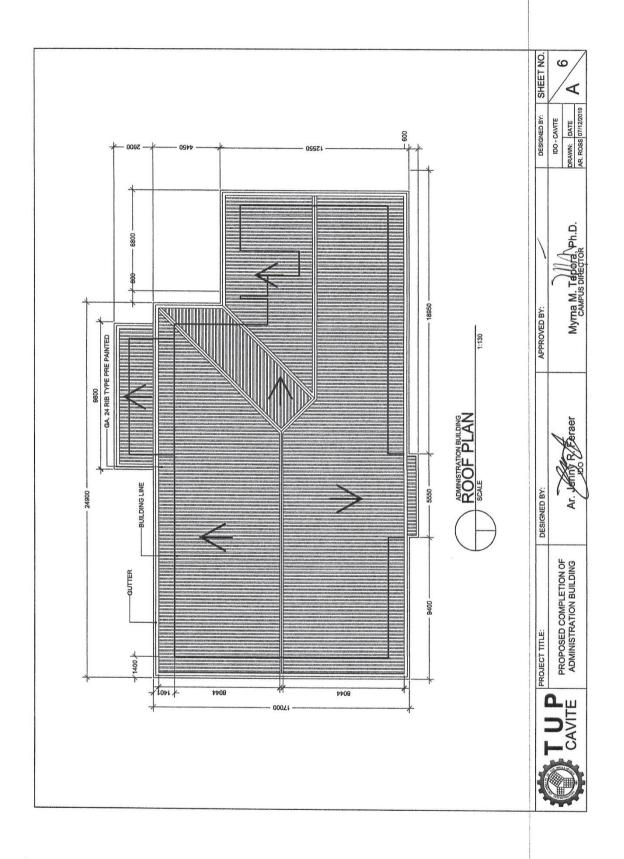


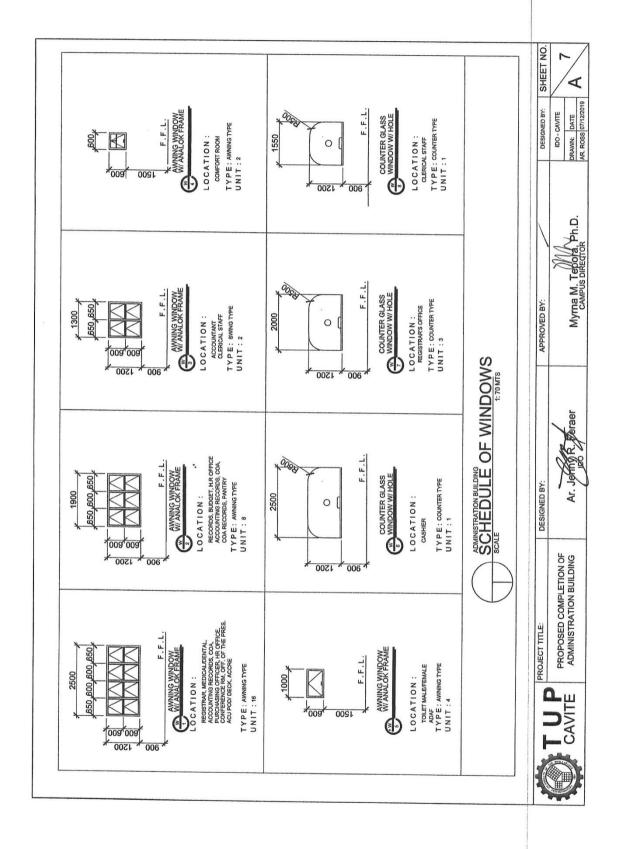


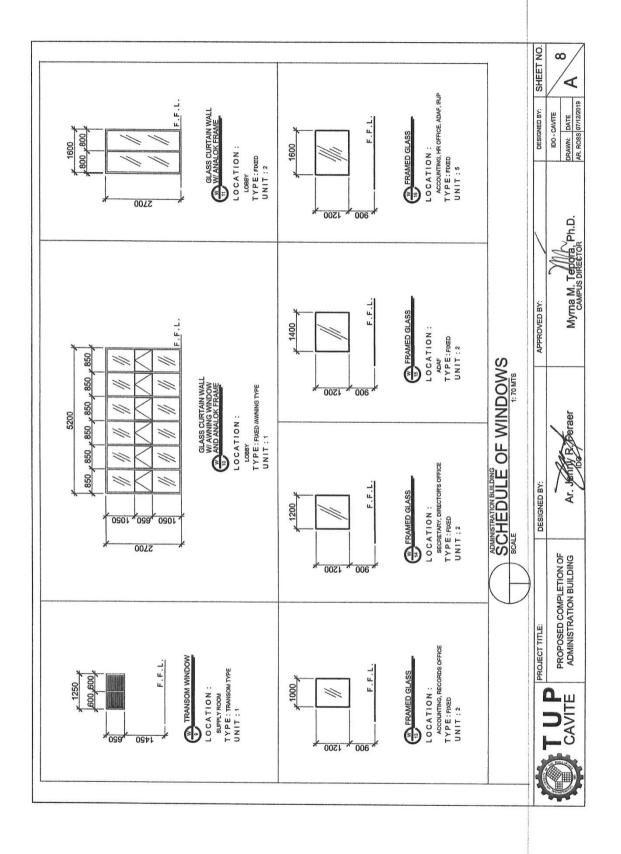


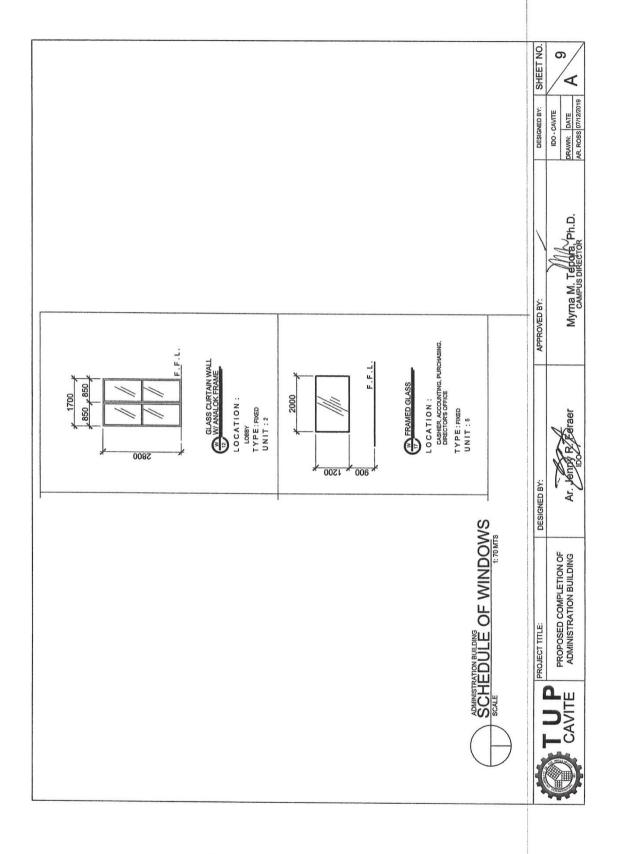


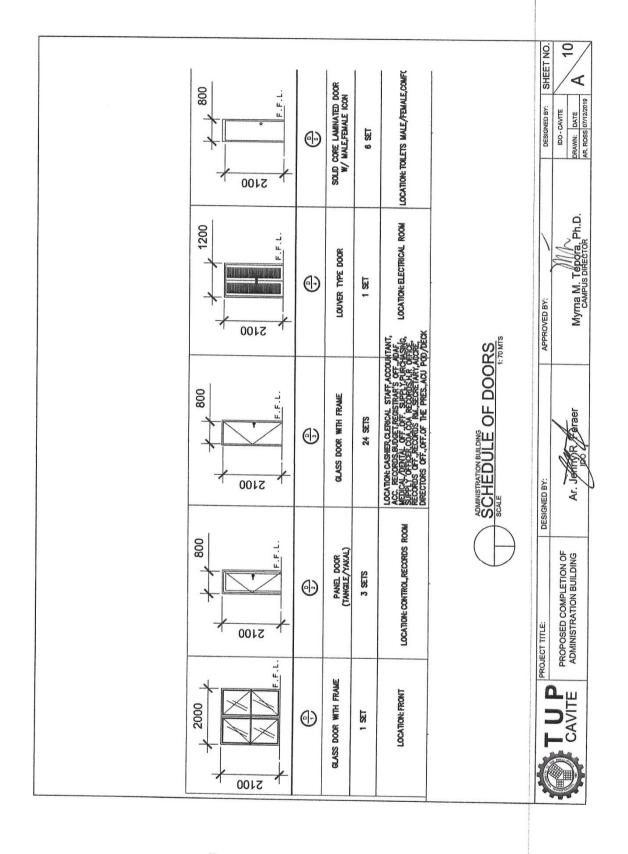


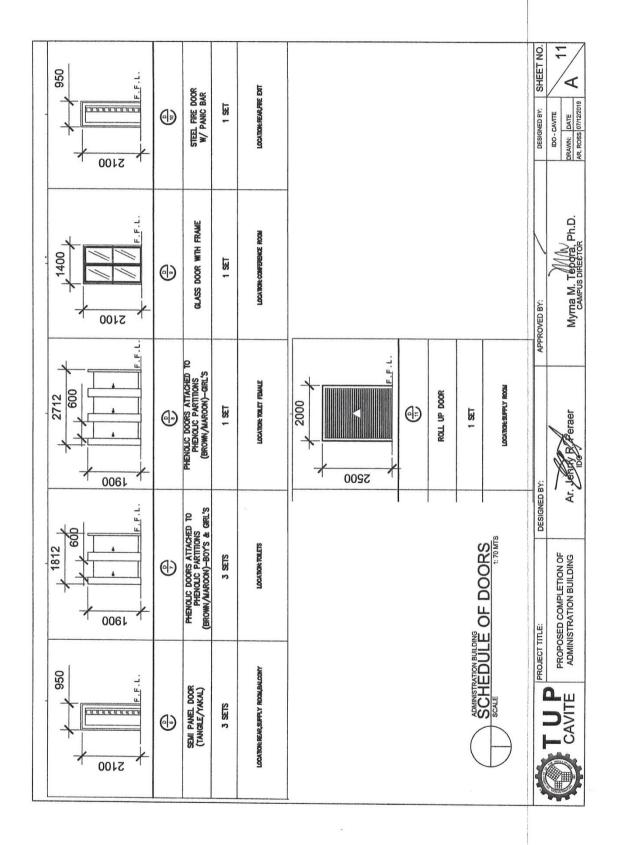


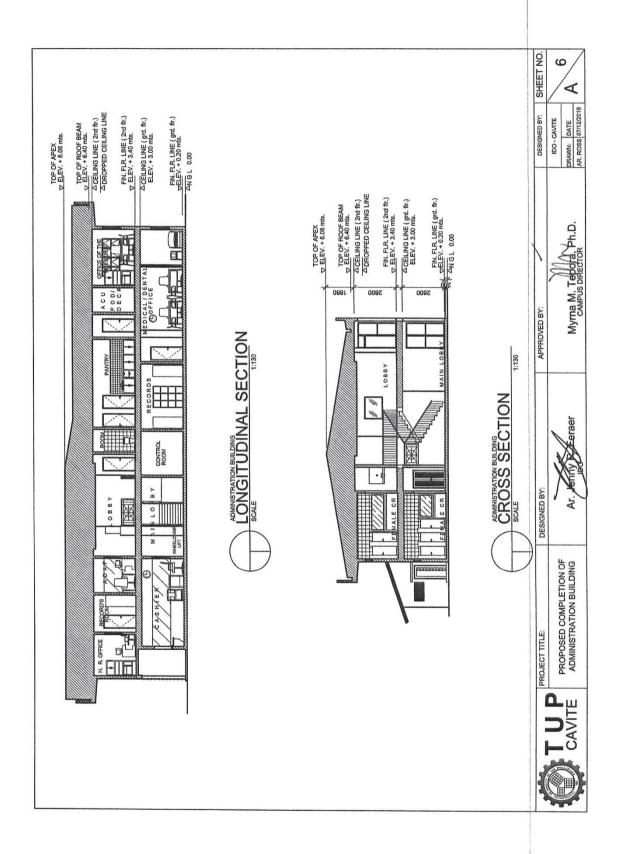












SPECIFICATION & GENERAL NOTES

- 1. ALL ELECTRICAL WORKS HEREIN SHALL COMPLY WITH THE PROVISION OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, RULES AND REGULATION OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF THE ELECTRICAL LAWS AND ORDINANCES AND WITH THE RULES AND REGULATIONS OF THE UTILITY COMPANY CONCERNED.
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER
- ALL MATERIALS AND EQUIPMENT TO BE USED SHALL BE NEW AND OF APPROVED TYPE FOR BOTH LOCATION AND PURPOSES INTENDED TO
- THE TYPE OF SERVICE SHALL BE THREE PHASE, 3-WIRE, 230 VOLTS AND 60 CYCLES
- BOXES SHALL BE PVC AND APPROVED PRODUCT OF REPUTABLE MANUFACTURER
- 6. ALL WIRES SHALL BE COPPER, PVC INSULATED AND NYLON JACKETED TYPE "THHN" UNLESS OTHERWISE INDICATED. THE MINIMUM SIZE FOR POWER SHALL BE 3.5 mm.sq. AND FOR LIGHTING 3.5 mm.sq. GROUND WIRES SHALL BE AS INDICATED OR AS SPECIFIED ELSEWHERE IN THE PLAN.

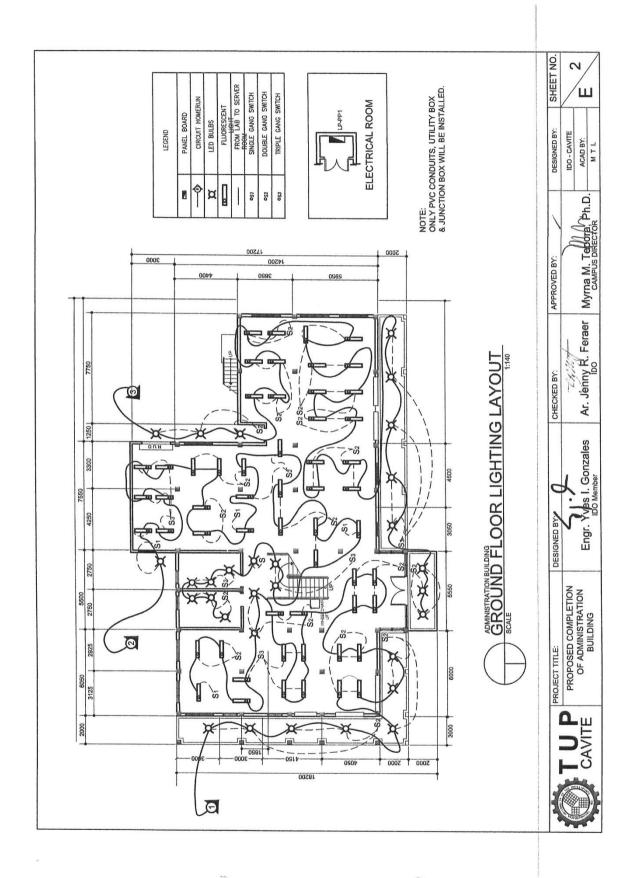
- PVC CONDUITS SHALL BE SCHEDULE 40 ATLANTA BRAND OR APPROVED EQUIVALENT
- PANEL BOARD SHOULD BE FLUSH MOUNTED, CIRCUIT BREAKER SHOULD BE PLUG-IN TYPE

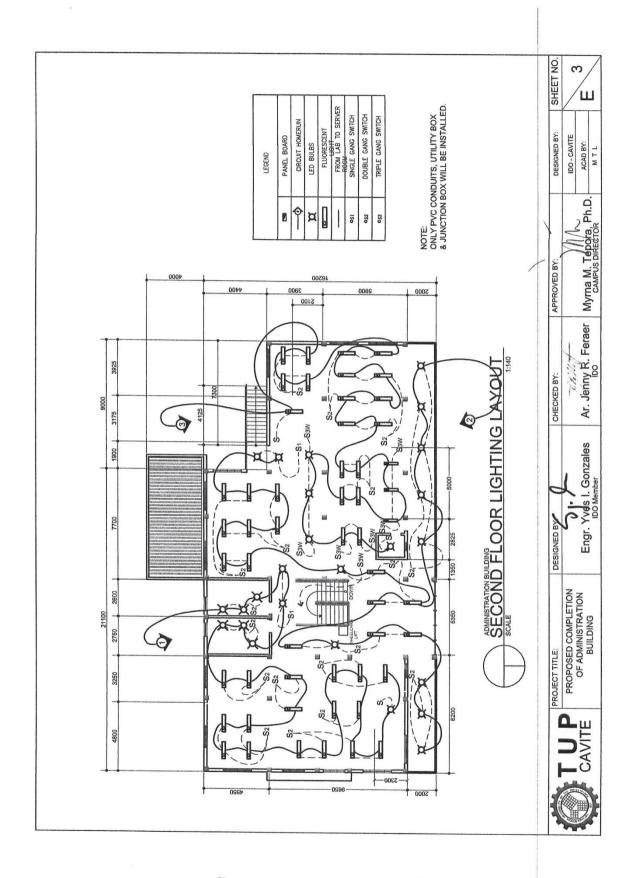
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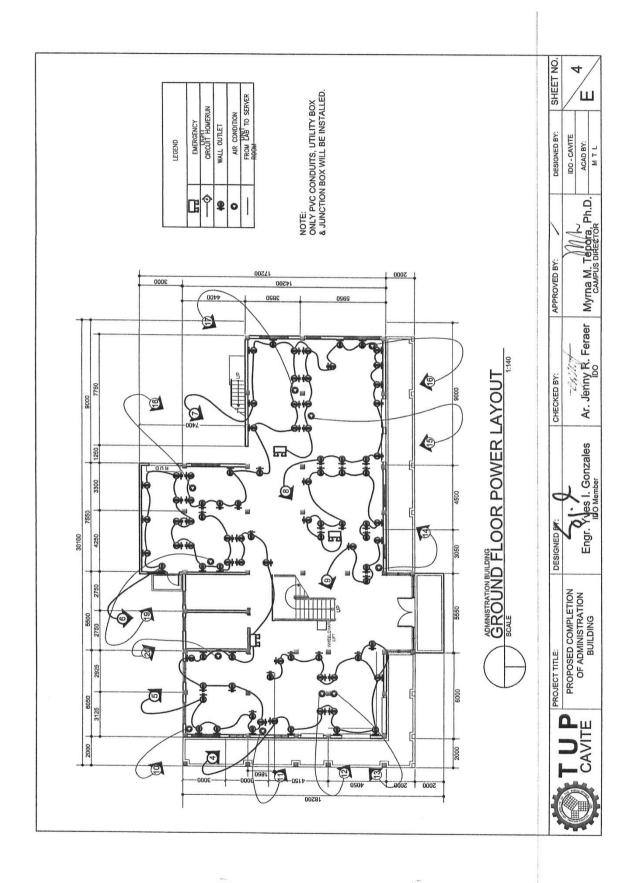
- THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY AND ALSO THE ACTUAL LOCATION OF TELEPHONE SYSTEM ENTRANCE FOR CONNECTION TO THE LOCAL TELEPHONE CABLE FACILITIES.
 THE MOLINTING HEIGHTS OF WIDING DEVICES SHALL BE AS EQUILOMS:
 - 10. THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS;
 A. LIGHT SWITCHES
 B. CONVENIENCE OUTLET
 C. PANEL BOARDS AND CABINETS
 ALL MOUNTING HEIGHTS SHALL BE CONFIRMED WITH THE ENGINEER
 PRIOR TO INSTALLATION
- FOR EACH SPARE BRANCH CIRCUIT IN PANEL BOARDS PROVIDE ONE 20mm DIAMETER CONDUITS TERMINATED TO A 100 mm OCTAGONAL BOX ABOVE CEILING..

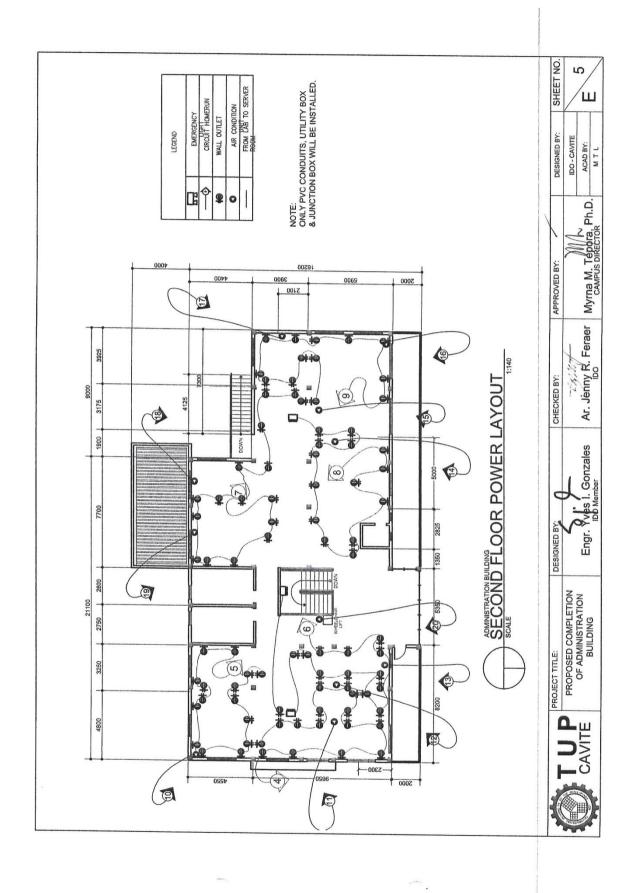


SHEET NO.









APPROVED BY: SHEET NO	ED BY:	CHECKED BY:		0	DESIGNED BY		PROJECT TITLE:
	OOR LOAD COMPUTATION	OMPUT	AD C	OR LC	O FLOC	ADMINISTRATION BULDING GROUND FL SCALE	ADMIN SCALE
		9	а 50mm	WIRE in	WN GRD.	4.56 × 0.80) 4.4 A 8mm ² TF	l _w =('3 × 114.56 × 0.80) + 0.25 (15) lcs = (x3 × 114.56 × 0.80) + 1.35 (15) = 181.24 A = 162.49 A USE: 200 AT 3P 3-80mm ² THWN + 1-38mm ² THWN GRD. WIRE in a 50mm ²
			112.69 114.56 107.69	112.69			TOTAL CONNECTED LOAI
2-8.0mm² THWN + 1-2.0mm² THWN in a 20mmØ	+		C		230	3450	ACU (2.5hp WINDOW TYP
2-8.0mm² THWN + 1-2.0mm² THWN in a 20mmØ 2-8.0mm² THWN + 1-2.0mm² THWN in a 20mmØ	40A,2p 2-8,		15	15	230	3450	18 ACU (2.5hp WINDOW TYPE)
2-8.0mm ² THWN + 1-2.0mm ² THWN in a 20mmØ	+	15			230	3450	ACU (2.5hp WINDOW TYP
2-8.0mm ² THWN + 1-2.0mm ² THWN in a 20mmØ			15		230	3450	
2-8.0mm ² THWN + 1-2.0mm ² THWN in a 20mmØ				15	230	3450	ACU (2.5hp WINDOW TYP
2-5.5mm THWN + 1-2.0mm THWN in a 15mmØ	1		2	10	230	2300	13 ACO (2:31p WINDOW LIFE)
2-8.0mm² THWN + 1-2.0mm² THWN in a 20mmØ 2-8.0mm² THWN + 1-2.0mm² THWN in a 20mmØ	40A,2p 2-8	15	7		230	3450	12 ACU (2.5hp WINDOW TYPE)
2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ	7	+	9		230	2300	ACU (1.5hp WINDOW TYP
2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ	\vdash			12	230	2260	10 ACU (2hp WINDOW TYPE)
2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ		25.04			230	2260	
2-5.5mm² THWN + 1-2.0mm² THWN in a 15mmØ			21.91		230	5040	8 SMALL APLIANCE LOAD (SAL)
2-5.5mm² THWN + 1-2.0mm² THWN in a 15mmØ	+			25.04	230	5760	7 SMALL APLIANCE LOAD (SAL)
2-5.5mm² THWN + 1-2.0mm² THWN in a 15mmØ	30A,2p 2-5	25.04	25.04		230	5760	5 SMALL APLIANCE LOAD (SAL)
2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ			-	23.48	230	5400	4 SMALL APLIANCE LOAD (SAL)
2-3.5mm² THWN in a 15mmØ	_	12.61			230	2900	3 GENERAL LIGHTING LOAD (GLL)
2-3.5mm² THWN in a 15mmØ			12.61		230	2900	2 GENERAL LIGHTING LOAD (GLL)
2-3.5mm² THWN in a 15mmØ	20A.2p 2-3	5	2	12.17	230	2800	1 GENERAL LIGHTING LOAD (GLL)
CONDUCTOR AND CONDUIT SIZE	CB RATING		AMPERE LOAD		POWER VOLTAGE	POWER	LOAD DESCRIPTION
p, 230V	MAIN: 125 AT, 3p, 230V						LP-PP1 (GROUND FLOOR)

LP-PP2 (SECOND FLOOR)						MAIN: 125 AT, 3p, 230V	T, 3p, 230V	
I OAD DESCRIPTION	POWER	POWER VOI TAGE	AMI	AMPERE LOAD	OAD	CB RATING	CONDUCTOR AND CONDUIT SIZE	UIT SIZE
	CVE	VOL 170	AB	BC	S			
1 GENERAL LIGHTING LOAD (GLL)	2600	230	11.30			20A,2p	2-3.5mm2 THWN in a 15mmØ	
2 GENERAL LIGHTING LOAD (GLL)	2600	230		11.30		20A,2p	2-3.5mm2 THWN in a 15mmØ	
3 GENERAL LIGHTING LOAD (GLL)	2600	230			11.30	20A,2p	2-3.5mm ² THWN in a 15mmØ	
4 SMALL APLIANCE LOAD (SAL)	5400	230	23.48			30A,2p	2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ	VN in a 15mmØ
5 SMALL APLIANCE LOAD (SAL)	2400	230		23.48		30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
6 SMALL APLIANCE LOAD (SAL)	5040	230			23.48	30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
7 SMALL APLIANCE LOAD (SAL)	2400	230	21.91			30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
8 SMALL APLIANCE LOAD (SAL)	5040	230		23.48		30A,2p	2-5.5mm ² THWN + 1-2.0mm ² THWN in a 15mmØ	VN in a 15mmØ
9 SMALL APLIANCE LOAD (SAL)	5040	230			21.91	30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
10 ACU (2hp WINDOW TYPE)	2760	230		12		30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
11 ACU (2.5hp CEILING)	3450	230	15			40A,2p	2-8.0mm ² THWN + 1-2.0mm ² THWN in a 20mmØ	VN in a 20mmØ
12 ACU (1.5hp CEILING)	2300	230			10	30A,2p	2-5.5mm² THWN + 1-2.0mm² THWN in a 15mmØ	VN in a 15mmØ
13 ACU (1.5hp CEILING)	2300	230			10	30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
14 ACU (2.5hp CEILING)	3450	230	15			40A,2p	2-8.0mm2 THWN + 1-2.0mm2 THWN in a 20mmØ	VN in a 20mmØ
15 ACU (2.5hp WINDOW TYPE)	3450	230		15		40A,2p	2-8.0mm2 THWN + 1-2.0mm2 THWN in a 20mmØ	VN in a 20mmØ
	3450	230			15	40A,2p	2-8.0mm2 THWN + 1-2.0mm2 THWN in a 20mmØ	VN in a 20mmØ
ACU	2760	230	12			30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
18 ACU (2hp CEILING)	2760	230		12		30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
19 ACU (2hp CEILING)	2760	230			12	30A,2p	2-5.5mm2 THWN + 1-2.0mm2 THWN in a 15mmØ	VN in a 15mmØ
20 LIFT (3 PHASE) 7.5 HP		230	22	22	22	50A,3p	3-8.0mm ² THWN + 1-2.0mm ² THWN in a 20mmØ	VN in a 20mmØ
		0	69.86	97.26	97.26 103.69			
lw=[(√3 X 103.69) + 22] (0.80) + 0.25 (22)	22)	ICB =	× (√3 ×	103.69) + 22] ((ICB = $[(\sqrt{3} \times 103.69) + 22](0.80) + 1.50(22)$	22)	
=166.78 A USE: 200 AT 3P 3-80mm²THWN + 1-14	Imm ² THV	= 194.28 A + $1-14 \text{mm}^2 \text{THWN GRD. WIRE in a } 40 \text{mm}$	194.28 IRE in 8	А в 40mm	Ø			
SEC	STRATION BUILD	FLOOR	LOA	D CC	OMPL	ADMINISTRATION BUILDING SECOND FLOOR LOAD COMPUTATION		
SCALE	A STATE OF THE PROPERTY OF THE					STN		
PROJECT TITLE:		DESIGNED BY:	,		CHECK	CHECKED BY:	APPROVED BY: DE	DESIGNED BY: SHEET NO.
CAVITE OF ADMINISTRATION	FTION	Engr.	Wes I. Gonzales	nzales	Ar.	Ar. Jenny R. Feraer	Myrna M Tenora Ph D	DO - CAVITE ACAD BY:
BOILDING		Pa	O Member			į		MTL

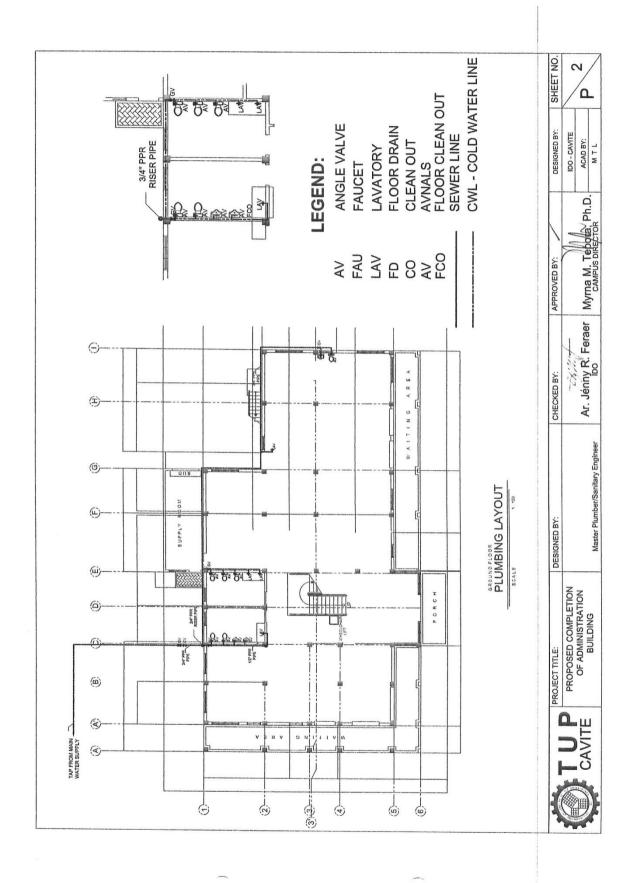
MAIN DISTRIBUTION PANEL (MDP)		DESIGNED BY: CHECKED BY: CHECKED BY: CHICKED BY: DESIGNED BY: DESIGNED BY: DO-CAVITE	OF ADMINISTRATION Engr. Yves I. Gonzales Ar. Jenny Ř. Feraer Myrna M. Těpdra Ph.D. Acaber: E. BUILDING IDO Member IDO Mem
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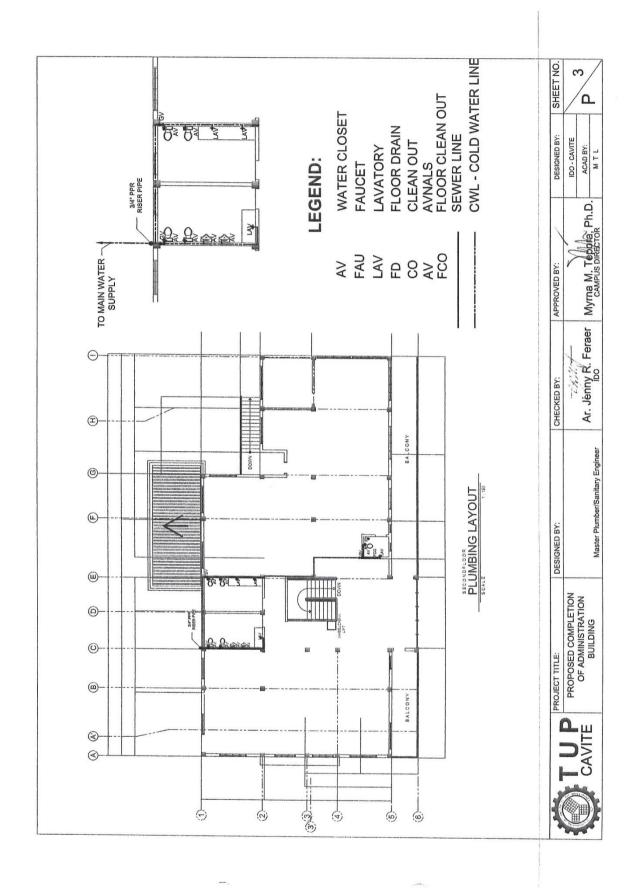
GENERAL NOTES

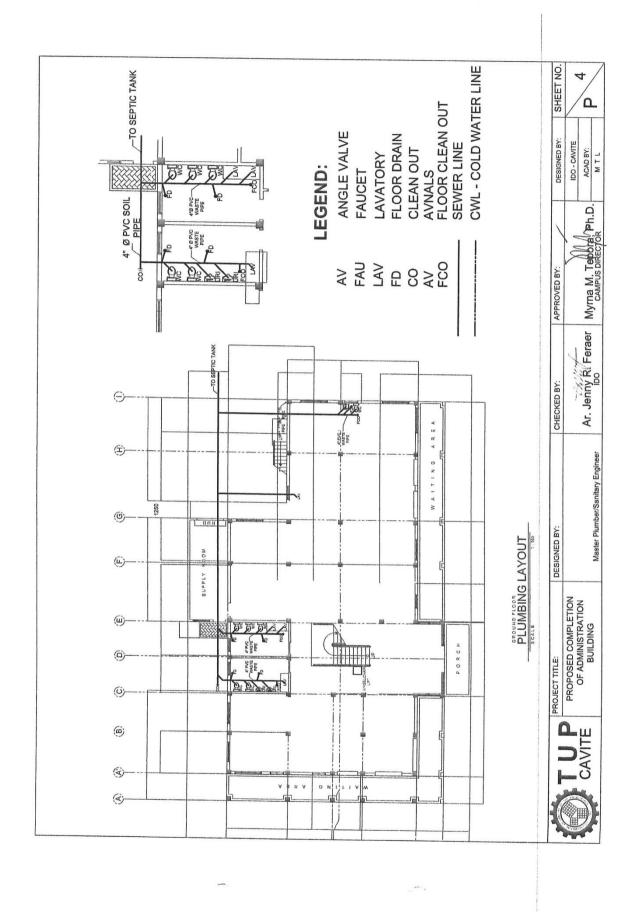
- 1. ALL SANITARY WORKS INCLUDED HEREIN SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE LATEST EDITION OF PHILIPPINE PLUMBING CODE AND THE RULES AND REGULATION OF LOCAL GOVERNMENT.
- COORDINATE THE DRAWING WITH OTHER RALATED DRAWINGS AND SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES TO BE USED SHALL BE WITH PRIOR APPROVAL OF THE ARCHITECT OR ENGINEER.
- 4. PROPOSED SANITARY UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH AND INVERT ELEVATION OF ALL EXISTING PIPES STRUCTURE.
- ALL SLOPE FOR HORIZONTAL BRANCHES (SEWER) SHALL MAINTAIN 1 % AS MINIMUM UNLESS NOTED OTHERWISE.
- 6. ALL FIXTURE SHALL BE VENTED, UNLESS OTHERWISE INDICATED.
- 7. AIR CHAMBER: ALL INDIVIDUAL BRANCHES TO FIXTURE OR GROUP OF FIXTURE AND/OR EQUIPMENT SHALL BE PROVIDED WITH AIR CHAMBER CAPPED VERTICAL PIPE EXTENSION OF DIMENSION AS IN DETAIL.
- 8. ALL SEWER LINE SHALL BE UPVC PIPE SERIES 1000 BY EMERALD OR APPROVED EQUAL.
- 9. ALL MAIN VENT STACK SHALL BE UPVC PIPE SERIES 1000 BY EMERALD OR APPROVED EQUAL.
- 10. ALL CIRCUIT VENT SHALL BE UPVC PIPE SERIES 1000 BY EMERALD OR APPROVED EQUAL.
- 11. ALL COLD WATER LINES SHALL BE POLYPROPYLENE PIPE SHED. 40 OR APPROVED EQUAL.

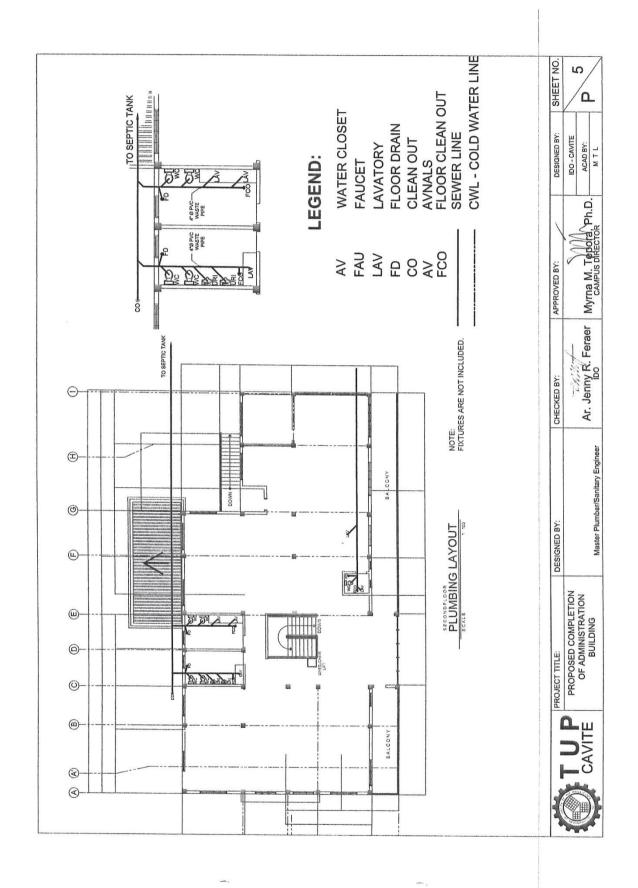
PROPOSED COMPLETION OF ADMINISTRATION OF ADMINISTRATION BUILDING Master Plumber/Sanitary Engineer IDO CAVITE Rr. Jenny R. Feraer Myrna M. Tepoffs, Ph.D. Acod BY: Ar. Jenny R. Feraer Myrna M. Tepoffs, Ph.D. Acod BY: CAMPUS DIRECTOR MY T. L.		SHED. 40 OK APPROVED EQUAL.	ROVED EQUAL.		\		
CAVITE BUILDING Master Plumber/Sanitary Engineer Book Master Plumber/Sanitary Engineer Building Master Building Ma		PROJECT TITLE:	DESIGNED BY:	CHECKED BY:	APPROVED BY:	DESIGNED BY:	SH
Master Plumber/Sanitary Engineer Ar. Jenny R. Feraer Myrna M. Tepofra, Ph.D. Campus Differror	-	PROPOSED COMPLETION		- LXXX	, W	IDO - CAVITE	4
Master Plumber/Sanitary Engineer	CAVITE	OF ADMINISTRATION		Ar. Jenny R. Feraer			۵
		BUILDING	Master Plumber/Sanitary Engineer	, og		MTL	-

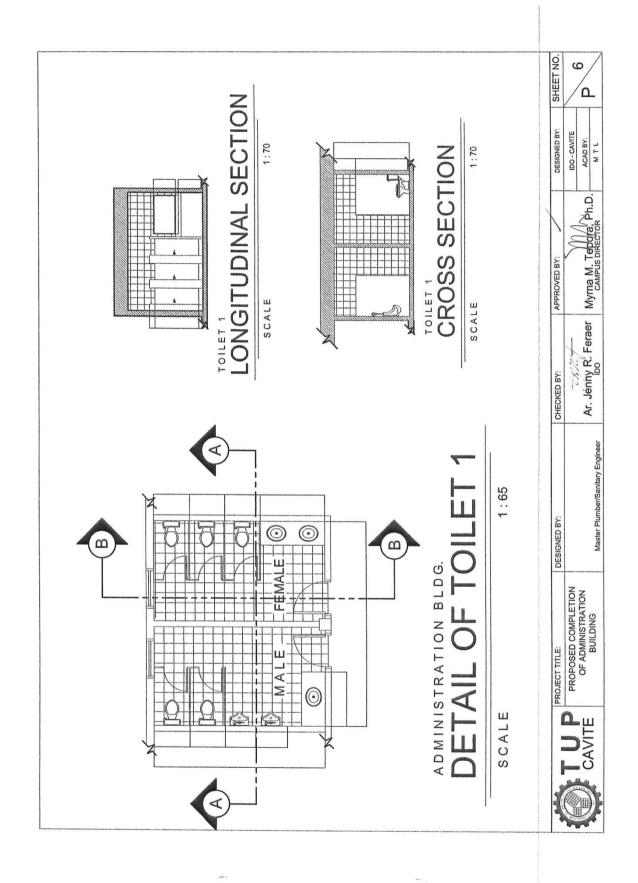
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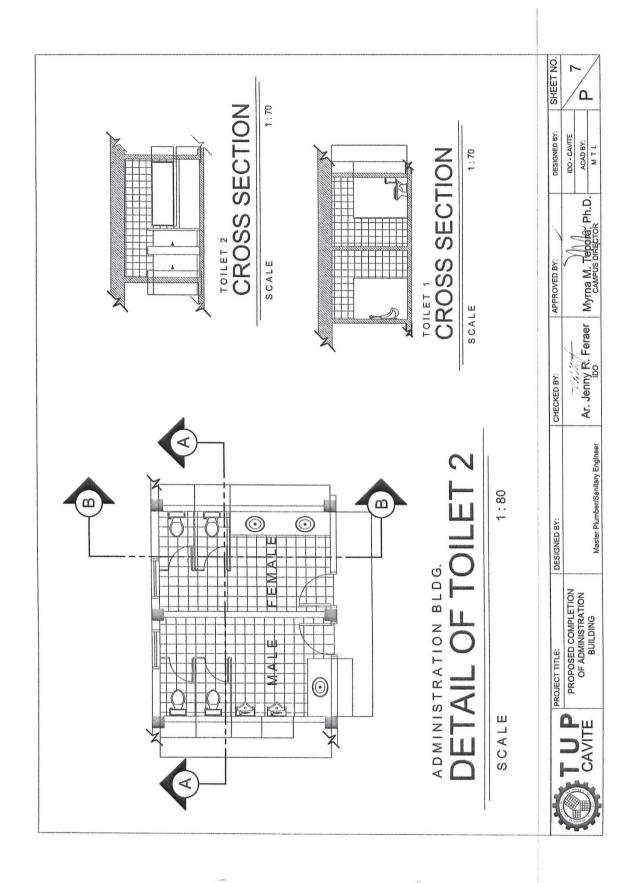


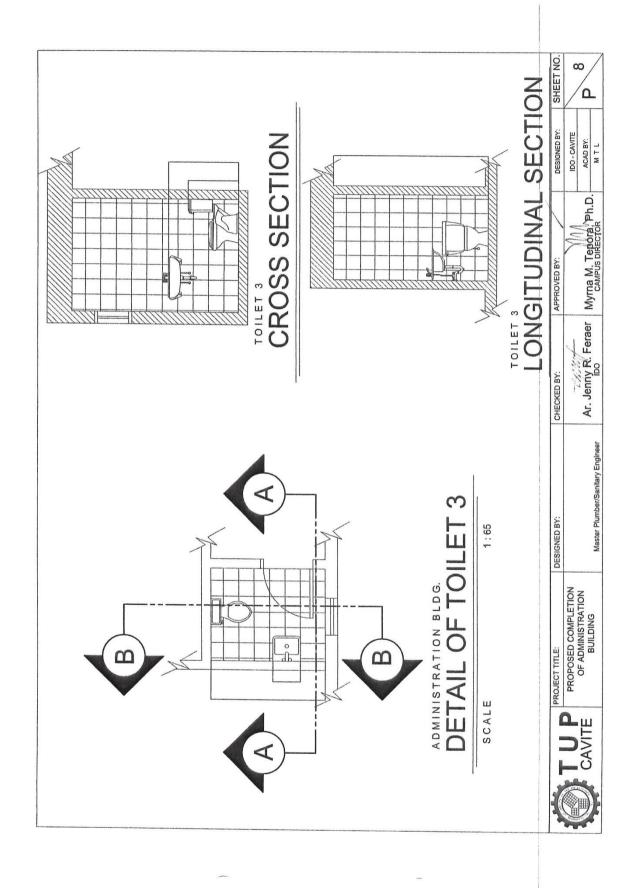


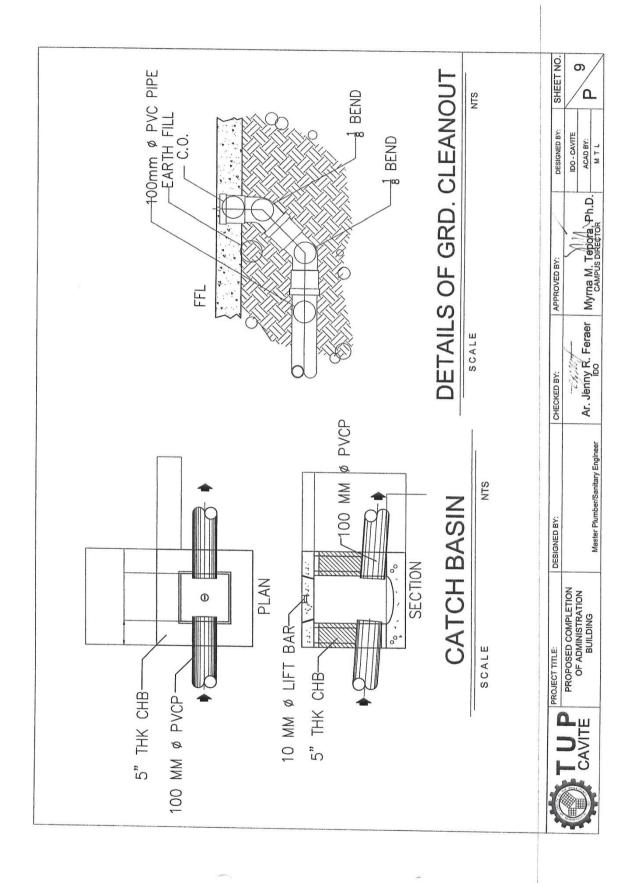


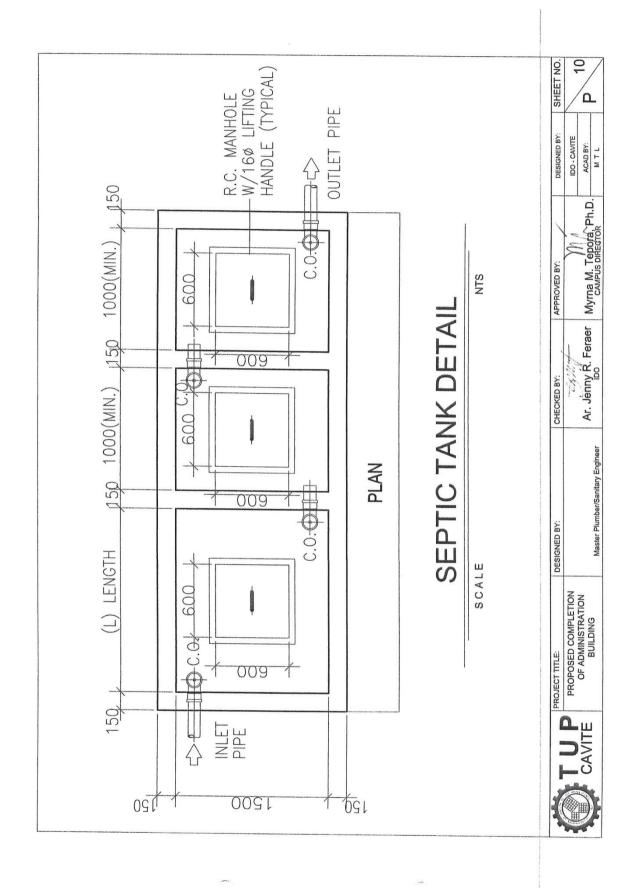


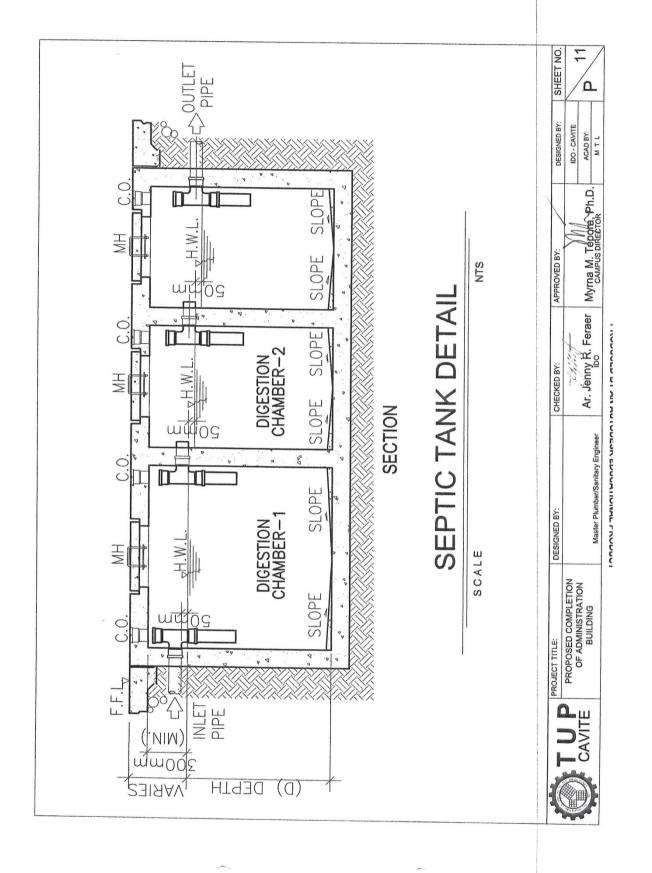












Section VIII. Bill of Quantities



TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES

CAVITE CAMPUS

Carlos Q. Trinidad Ave., Salawag, Dasmariñas City, Cavite

PROGRAM OF WORK FOR THE PROPOSED COMPLETION OF ADMINISTRATION BUILDING

SCOPE OF WORK

1.	CONCRETING AND MASONRY WORKS				
	CHB laying and plastering of the interior walls and th	e likes			
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	Cement	590 bags	/bag	P	
	Sand	35 cu.m	/cu.m	P	-
	Gravel	12 cu.m	/cu.m	P	
	4" thk CHB	5400 pcs	/pc	P	_
			MATERIAL COST	P	-
			LABOR COST		-
			DIRECT COST	P	-
11.	REINFORCEMENT BAR WORKS				
	Reinforcement for CHB laying (dowels)				
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	10mm dia.	390 pcs	/pc	P	•
	Tie wire (no. 16)	2 roll	/roll	P	-
			MATERIAL COST	P	12.5
			LABOR COST		-
			DIRECT COST	P	-
111.	CEILING WORKS/WALL PARTITION				
111.	CEILING WORKS/WALL PARTITION Installation of steel T-runner, hanger and fiber ceme	nt ceiling board, w	all partition		
111.		ent ceiling board, w	all partition		
III.	Installation of steel T-runner, hanger and fiber ceme	ent ceiling board, w	all partition UNIT PRICE		AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS:		300 0 • C 000 000 000 000	Р	AMOUNT -
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION	QTY UNIT	UNIT PRICE /ln.m /pc	P P	AMOUNT - -
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs	QTY UNIT 325 in.m 720 pcs 685 pcs	UNIT PRICE /ln.m /pc /pc	P	AMOUNT
III.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs	UNIT PRICE /In.m /pc /pc /pc	P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring	QTY UNIT 325 in.m 720 pcs 685 pcs 40 pcs 1050 pcs	UNIT PRICE /ln.m /pc /pc /pc /pc	P P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs	UNIT PRICE /In.m /pc /pc /pc /pc	P P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /pc	P P P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /pc /kg	P P P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST	P P P P	AMOUNT
111.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /pc /kg	P P P P	AMOUNT
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST	P P P P P	AMOUNT
III.	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST	P P P P P	AMOUNT
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST	P P P P P	AMOUNT
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows MATERIALS:	OTY UNIT 325 ln.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box 60 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST DIRECT COST	P P P P P	- - - - - - - - -
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows MATERIALS: DESCRIPTION	QTY UNIT 325 ln.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box 60 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /bc /kg MATERIAL COST LABOR COST DIRECT COST	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	AMOUNT
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows MATERIALS: DESCRIPTION 2m x 2.1m Glass door w/analok frame	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box 60 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST DIRECT COST	P P P P P	- - - - - - - - -
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows MATERIALS: DESCRIPTION 2m x 2.1m Glass door w/analok frame 0.8m x 2.1m panel door(Tangile/Yakal)	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box 60 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	- - - - - - - - -
	Installation of steel T-runner, hanger and fiber ceme MATERIALS: DESCRIPTION t-runner 1/2" wall angle wall studs 10mm dia. Plain round bar metal furring 4.5mm thk fiber cement board Blind rivet Ceiling Hangers FENESTRATION WORKS Installation of doors and windows MATERIALS: DESCRIPTION 2m x 2.1m Glass door w/analok frame	QTY UNIT 325 In.m 720 pcs 685 pcs 40 pcs 1050 pcs 625 pcs 15 box 60 pcs	UNIT PRICE /In.m /pc /pc /pc /pc /pc /pc /box /kg MATERIAL COST LABOR COST DIRECT COST	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	- - - - - - - - -

	0.8m x 2.1m Solid core laminated door	6 sets	/set	P	
	0.95m x 2.1m Semi panel door	3 sets	/set	P	-
	Phenolic doors toilet partition door 7	3 sets	/set	Р	
	Phenolic doors toilet partition door 8	1 set	/set	P	_
	1.4m x 2.1m Glass door w/analok frame	1 set	/set	P	
	0.95m x 2.1m steel fire door w/ panic bar	1 sets	/set	P	
	2m x 2.5 roll up door	1 set	/set	Р	
	PVC Accordion door (Directors office & Clinic)	2 set			-
	2.5m x 1.2m awning window w/analok frame		/set	P	-
	1.890m x 1.2m awning window w/analok frame	16 sets	/set	P	*
		8 sets	/set	P	
	1.277m x 1.2m awning window w/analok frame	2 sets	/set	P	-
	0.6m x 0.6m awning window w/analok frame	2 sets	/set	P	-
	1m x 0.6m awning window w/analok frame	8 sets	/set	P	
	2.508m x 1.2m tempered counter glass window w/hole	1 sets	/set	þ	-
	2m x 1.2m tempered counter glass window w/hole	3 sets	/set	P	-
	1.55m x 1.2m tempered counter glass window w/hole	1 sets	/set	P	
	1.25m x .65m transom window	1 sets	/set	P	-
	5.2m x 2.7m glass curtain wall w/awning	1 sets	/set	P	
	1.6m x 2.7m glass curtain wall w/analok frame	2 sets	/set	P	-
	1.7m x 2.8m glass curtan wall w/analok frame	2 sets	/set	P	-
	1m x 1.2m Analok fixed window	2 sets	/set	P	
	1.2m x 1.2m Analok fixed window	2 sets	/set	P	-
	1.4m x 1.2m Analok fixed window	2 sets	/set	P	-
	1.6m x 1.2m Analok fixed window	5 sets	/set	P	
	2m x 1.2m Analok fixed window	5 sets	/set	P	-
			MATERIAL COST	P	-
			LABOR COST		
			DIRECT COST	P	-
٧.	FORMS/SCAFFOLDING WORKS				
	Installation of scaffolding on all concreting, plastering, co	eiling and pain	ting works		
	Installation of forms on all concreting works				
	MATERIALS:				
	DESCRIPTION	QTY	UNIT PRICE		AMOUNT
	1/2" x 4' x 8' plywood	50	pcs	P	
	2" x 2" x 10' coco lumber	200	pcs	P	
	2" x 3" x 10' coco lumber	135	pcs	P	
	H- frame rental	50	pcs	P	
	cwn 1 ½"	25	kg	P	
	cwn 2"	25	kg	P	
	cwn 3"	25	kg	P	
			MATERIAL COST	P	
			LABOR COST		-
			DIRECT COST	P	-
					<u> </u>
VI.	ELECTRICAL WORKS				
	Installation of electrical pipes, wires and fixtures				
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	15mm dia electrical conduit	150 pcs	/pc		
	20mm dia electrical conduit	40 pcs	/pc		-
	15mm coupling	80 pcs	/pc		
	15mm elbow	40 pcs	/pc		-
	20mm coupling	35 pcs	/pc		78
	20mm elbow	15 pcs	/pc		
	2.0mm^2 THWN Wire	300 ln.m	/ln.m		
			,		

	3.5mm^2 THWN Wire	2300 ln.m	/ln.m		
	5.5mm^2 THWN Wire	1120 ln.m	/In.m		
	8.0mm^2 THWN Wire	655 ln.m	/ln.m		
	14.0mm^2 THWN Wire	150 ln.m	/ln.m		
	38.0mm^2 THWN Wire	90 ln.m	/ln.m		
	50mm^2 THWN Wire	40 ln.m	/In.m		
	80mm^2 THWN Wire	150 ln.m	/ln.m		
	Utility box	185 pcs	/pc		
	junction box	157 pcs	/pc		
	Receptacle	55 pcs	/pc		
	Single gang switch	9 set	/set		
	Two gang switch	37 set	/set		-
	Three gang switch	4 set	/set		
	Three way switch	7 set	/set		
	Convenience outlet	175 set	/set		
	ACU outlet	21 set	/set		
	Panel box (20 Holes)	2 pcs	/pc		
	Panel box	2 pcs	/pc		
	20A Circuit Breaker	6 pcs	/pc		
	30A Circuit Breaker	20 pcs	/pc		-
	40A Circuit Breaker	13 pcs	/pc		
	50A Circuit Breaker	1 pcs	/pc		
	150A Circuit Breaker	2 pcs	/pc		
	200A Circuit Breaker	2 pcs	/pc		
	350A Circuit Breaker	1 pcs	/pc		-
	Emergency Light	4 set	/set		
	Modern Crystal LED light lamp	1 set	/set		
	The state of the s	2 500	1.5		
	LED recessed circular downlight	55 ncs	/nc		_
	LED recessed circular downlight LED T8 tube light	55 pcs 109 set	/pc /set		-
	LED recessed circular downlight LED T8 tube light	55 pcs 109 set	/set	P	-
		and the second second	/set MATERIAL COST	P	
		and the second second	/set MATERIAL COST LABOR COST		
		and the second second	/set MATERIAL COST	P	:
	LED T8 tube light	and the second second	/set MATERIAL COST LABOR COST		
	LED T8 tube light PLUMBING WORKS	and the second second	/set MATERIAL COST LABOR COST		<u>:</u>
	LED T8 tube light PLUMBING WORKS Installation of plumbing fixtures	and the second second	/set MATERIAL COST LABOR COST		=
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS:	109 set	/set MATERIAL COST LABOR COST DIRECT COST		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION	109 set	/set MATERIAL COST LABOR COST DIRECT COST		AMOUNT
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet	QTY UNIT	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory	QTY UNIT 11 set 8 set	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink	QTY UNIT 11 set 8 set 2 set	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals	QTY UNIT 11 set 8 set 2 set 4 set	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc		Income and the second
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc		AMOUNT
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc	P	AMOUNT
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc		AMOUNT
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST	P	AMOUNT
	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer	OTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and	OTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and MATERIALS:	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST DIRECT COST	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and MATERIALS: DESCRIPTION	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /set /pc /pc /pc MATERIAL COST LABOR COST DIRECT COST UNIT PRICE	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and MATERIALS: DESCRIPTION 24" x 24" ceramic tile	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /pc /pc /pc MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /pc	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and MATERIALS: DESCRIPTION 24" x 24" ceramic tile 16" x 16" ceramic floor tiles	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs I tollet flooring QTY UNIT 2435 pcs 820 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /pc /pc /pc MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /pc /pc	P	AMOUNT
VII.	PLUMBING WORKS Installation of plumbing fixtures MATERIALS: DESCRIPTION Water closet Lavatory kitchen sink Urinals Faucet Floor drain Gutter strainer FINISHING WORKS/TILE WORKS Installation of tiles on flooring, toilet wall and MATERIALS: DESCRIPTION 24" x 24" ceramic tile	QTY UNIT 11 set 8 set 2 set 4 set 13 pcs 10 pcs 21 pcs	/set MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /set /set /set /pc /pc /pc MATERIAL COST LABOR COST DIRECT COST UNIT PRICE /pc	P	AMOUNT

Tile grout Cement	450 kgs 55 bags	/kg /bag MATERIAL COST LABOR COST DIRECT COST	P	
Painting of interior wall, doors and windows Painting of ceiling boards and ceiling framing system MATERIALS: DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
Flat latex paint Gloss latex paint Enamel paint Polyester body filler(polituff) Concete neutralizer Paint thinner	25 tins 10 tins 5 tin 10 gal 8 gals	/tin /tin /tin /gal /gal		
Paint brush 2" Paint brush 3" Paint roller	10 pcs 10 pcs 10 pcs	/pcs /pcs /pcs MATERIAL COST LABOR COST DIRECT COST	P P	: : : :
Fire Suppression System fire figthing equipment				
MATERIALS: DESCRIPTION smoke detector fire extinguisher	QTY UNIT 45 pcs 10 pcs	UNIT PRICE MATERIAL COST LABOR COST DIRECT COST	P P	AMOUNT
Telecommunication Telephone line, internet access (WIFI) CCTV'S MATERIALS: DESCRIPTION FOC Cable outdoor Armored 50um OM3 4 core Ubiquiti UniFi AC LR Enterprise WiFi Access Point {UAP-AC-LR}	9 units 15 box 4 units	s s s	P	AMOUNT
	PAINTING WORKS Painting of interior wall, doors and windows Painting of ceiling boards and ceiling framing system MATERIALS: DESCRIPTION Epoxy primer Flat latex paint Gloss latex paint Enamel paint Polyester body filler(polituff) Concete neutralizer Paint thinner Paint brush 2" Paint brush 3" Paint roller Fire Suppression System fire figthing equipment MATERIALS: DESCRIPTION smoke detector fire extinguisher Telephone line, internet access (WIFI) CCTV's MATERIALS: DESCRIPTION FOC Cable outdoor Armored 50um OM3 4 core Ubiquiti UniFi AC LR Enterprise WiFi Access Point (UAP-AC-LR)	PAINTING WORKS Painting of interior wall, doors and windows Painting of ceiling boards and ceiling framing system MATERIALS: DESCRIPTION QTY UNIT Epoxy primer 10 gals Flat latex paint 25 tins Gloss latex paint 10 tins Enamel paint 5 tin Polyester body filler(polituff) 10 gal Concete neutralizer 4 gals Paint brush 2" 10 pcs Paint brush 3" 10 pcs Paint brush 3" 10 pcs Paint roller 10 pcs Fire Suppression System fire figthing equipment MATERIALS: DESCRIPTION QTY UNIT smoke detector 45 pcs fire extinguisher 10 pcs Telephone line, internet access (WIFI) CCTV's MATERIALS: DESCRIPTION QTY UNIT smoke detector 45 pcs fire extinguisher 100 pcs Telephone line, internet access (WIFI) CCTV's MATERIALS: DESCRIPTION QTY UNIT FOC Cable outdoor Armored 50um OM3 4 core 100 meter Ubiquiti UniFi AC LR Enterprise WiFi Access Point (UAP- AC-LR) UTP Cable cat 6 15 box Cisco 350 28-port gigabit managed switch with fiber 4 unit 1.25G SC Gigabit Connector 3KM/SKM/20KM GBIC 1.25G SFP module switch ethernet fiber optic transceiver IP Phones 25 units SI units Hilkvision DS2CD1123GO-I Dome camera 27 units GTB CCTV HDD 6 units	Cement SS bags Material Cost LABOR COST DIRECT COST PAINTING WORKS Painting of interior wall, doors and windows Painting of celling boards and ceiling framing system MATERIALS: CTY UNIT UNIT PRICE Exception QTY UNIT UNIT PRICE Expoxy primer 10 gals // // // // // // // // // // // // //	Cement

			DIRECT COST	P	-
XII.	Miscellaneous				
	TUP LOGO, Aluminum Cladding and sun buffer and the likes				
	MATERIALS:				
	DESCRIPTION	QTY UNIT	UNIT PRICE		AMOUNT
	Acrylic build up signage with light	1 lot	ONT PRICE		ANIOUNT
	Aluminum Cladding	1 lot			-
	PWD Lift	1 lot			-
	2"x6" C purlins	15 pcs			-
	2"x 2" Steel sun buffer	65 pcs			-
			MATERIAL COST	P	-
			LABOR COST		-
			DIRECT COST	P	-
					-
		A. TOTAL DIR			
			/CONTIGENCY/MISC	P	•
		The state of the s	**************************************		
		C. CONTRACTO EVAT (12%(A+			
			TIMATED PROJECT CO	G T2	
		TOTALES	I THE PROJECT CO.	91 F	

Engr. Ramon Christopher H. Escalona, PICE,SO2 IDO-Member

Checked by:

AR. Jeriny R. Feraer, UAP,SO2 IDO-Chairman

Approved by:

Myrna M. Tepora, Ph.D. Campus Director

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- 2 (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**
- 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;

<u>or</u>

Special PCAB License in case of Joint Ventures;

and registration for the type and cost of the contract to be bid; and

② (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;

<u>or</u>

?

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
- 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

- 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

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 IVA in the

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

- ② (p) Original of duly signed Bid Prices in the Bill of Quantities; and
- Quly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; and
- (r) Cash Flow by Quarter.