



SOCIAL SECURITY SYSTEM

PHILIPPINE BIDDING DOCUMENTS

Sixth Edition

Procurement of INFRASTRUCTURE PROJECTS

**RENOVATION OF CANTEEN AND
HEALTH CARE DEPARTMENT &
MEDICAL PROGRAM DEPARTMENT**

ITB-SSS-CIVIL-2024-019

**Government of the Republic of the Philippines
OCTOBER 2024**



EMILY M. BELTRAN
TWG Chairperson

TABLE OF CONTENTS

Glossary of Terms, Abbreviations, and Acronyms.....4

Section I. Invitation to Bid6

Section II. Instructions to Bidders.....9

1. Scope of Bid9

2. Funding Information10

3. Bidding Requirements.....10

4. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices10

5. Eligible Bidders.....10

6. Origin of Associated Goods11

7. Subcontracts11

8. Pre-Bid Conference11

9. Clarification and Amendment of Bidding Documents.....11

10. Documents Comprising the Bid: Eligibility and Technical Components11

11. Documents Comprising the Bid: Financial Component12

12. Alternative Bids12

13. Bid Prices12

14. Bid and Payment Currencies12

15. Bid Security.....12

16. Sealing and Marking of Bids.....12

17. Deadline for Submission of Bids13

18. Opening and Preliminary Examination of Bids13

19. Detailed Evaluation and Comparison of Bids.....13

20. Post Qualification.....13

21. Signing of the Contract13

Section III. Bid Data Sheet..... 14

Section IV. General Conditions of Contract 17

1. Scope of Contract.....18

2. Sectional Completion of Works18

3. Possession of Site.....18

4. The Contractor’s Obligations.....18

5. Performance Security18

6. Site Investigation Reports19

7. Warranty.....19

8. Liability of the Contractor.....19

9. Termination for Other Causes19

10. Dayworks19

11. Program of Work.....19

12. Instructions, Inspections and Audits20

13. Advance Payment.....20

14. Progress Payments20

15. Operating and Maintenance Manuals.....20

Section V. Special Conditions of Contract..... 21

Section VI. Specifications 28

Section VII. Drawings..... 56

Section VIII. Bill of Quantities 129

Section IX. Checklist of Technical and Financial Documents..... 142

Glossary of Terms, Abbreviations, and Acronyms

ABC – Approved Budget for the Contract.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

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

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

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

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

SSS – Social Security System.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



REPUBLIC OF THE PHILIPPINES
SOCIAL SECURITY SYSTEM
East Avenue, Diliman, Quezon City
Tel. Nos. (632)8709-7198
E-mail: ussaptayo@sss.gov.ph*Website <http://www.sss.gov.ph>

Invitation to Bid
ITB-SSS-Civil-2024-019

RENOVATION OF CANTEEN & RENOVATION OF HEALTH CARE DEPARTMENT
AND MEDICAL PROGRAM DEPARTMENT

Approved Budget for the Contract (ABC) & Source of Fund	Delivery/ Completion Period	Price of Bid Documents (non- refundable)	Schedule of Activities Date/Time	
			Pre-bid Conference	Deadline of submission and receipt of bids
Lot 1 – Renovation of Canteen ₱ 16,831,650.00 Included in the APP Update for the month of July (5 th update) with Code PAP 2024-0283	Within one hundred fifty (150) calendar days upon receipt of Notice to Proceed (NTP) and signed contract	₱ 12,500.00	October 28, 2024 (Monday) 1:30 p.m.	November 11, 2024 (Monday) 2:00 p.m.
Lot 2 – Renovation of Health Care Department and Medical Program Department ₱ 14,210,000.00 Included in the APP Update for the month of July (5 th update) with Code PAP 2024-0288		₱ 11,500.00		
Approved 2024 Corporate Operating Budget under Capital Outlay of the Annual Procurement Plan				

1. The **SOCIAL SECURITY SYSTEM (SSS)** now invites bids for the above Procurement Project. **Completion of the Works is required within the period of one hundred fifty (150) calendar days. Bidders should have completed within five (5) years prior to the date of submission and receipt of bids, a contract similar to the Projects.** The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
2. Bids received in excess of the ABC shall be automatically rejected at Bid opening.
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 **SSS** and inspect the Bidding Documents at the address in the last item of the ITB from Monday to Friday, 8:00 a.m. to 5:00 p.m.
5. A complete set of Bidding Documents may be acquired by interested Bidders **starting 19 October 2024 up to the scheduled submission & opening of bids** from the address stated in item 11 of the ITB and upon payment of the applicable fee for the Bidding Documents, in the amount specified above.

The mode of payment will be on a cash basis payable at the SSS Cash Department, SSS Main Bldg., Ground floor, upon accomplishment of SSS Form R-6. The Bidding Documents shall be received personally by the prospective Bidder or his authorized representative.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the SSS, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The SSS will hold a Pre-Bid Conference on the date and time specified above at the Bidding Room, 2nd Floor, SSS Main Bldg., East Avenue, Diliman, Quezon City which shall be open to prospective bidders, but attendance shall not be mandatory.

The Pre-Bid Conference will be conducted through online conference using Microsoft Teams. Kindly e-mail us on or before 25 October 2024, through e-mail address bac@sss.gov.ph, the following:

- a. Name of the representative and e-mail address; and
- b. Technical and administrative queries.

7. Bids must be duly received by the BAC Secretariat at the Bidding Room, 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City on the deadline specified above. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the ITB Clause 14.

Bid opening shall be on the date and time specified above at the Bidding Room, 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City. Bids will be opened in the presence of the Bidders' representatives who choose to attend at the address above. Late bids shall not be accepted.

8. References to the dates and times shall be based on Philippine Standard time. Should any of the above dates fall on a holiday, the deadline shall be extended to the same time on the immediately succeeding business day in Quezon City.
9. The SSS 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 IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
10. The SSS assumes no obligation to compensate or indemnify parties for any expense or loss that they may incur as a result of their participation in the procurement process, nor does SSS BAC guarantees that an award will be made as a result of this invitation. Furthermore, the SSS reserves the right to waive any defects or formality in the responses to the eligibility requirements and to this invitation and reserves the right to accept the proposal most advantageous to the agency.
11. For further information, please refer to:

Bids & Awards Committee

The Secretariat

2nd Flr., SSS Main Bldg., East Ave., Diliman, Q.C.

Tel # (632) 8922-1070; 8920- 6401 local 5492 & 6382

Email – bac@sss.gov.ph

12. Bidding documents may be downloaded from the PROCUREMENT tab at www.sss.gov.ph starting **19 October 2024**.


**THE CHAIRPERSON
BIDS & AWARDS COMMITTEE**

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Social Security System* wishes to receive Bids for the **Renovation of Canteen & Health Care Department and Medical Program Department**, with identification number *ITB-SSS-Civil-2024-019*.

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

2. **Funding Information**

- 2.1. The GOP through the source of funding as indicated below for CY 2024 in the amount of *Thirty-One Million Forty-One Thousand Six Hundred Fifty Pesos (₱31,041,650.00)*.
- 2.2. The source of funding is: Approved 2024 Corporate Operating Budget under Capital Outlay of the APP, as follows:

Lot 1 - Renovation of Canteen	:	Included in the APP Update for the month of July (5th update) with Code PAP 2024-0283
Lot 2 - Renovation of Health Care Department and Medical Program Department	:	Included in the APP Update for the month of July (5th update) with Code PAP 2024-0288

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.

de

- 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 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 **Bidding Room, 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City and/or through online conference using Microsoft Teams** as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 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 **One Hundred Twenty (120) Calendar Days from the Date of the Bid Opening**. 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 15 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	<p>For this purpose, contracts similar to the Projects refers to contracts which have the same major categories of work, which shall be comprised of:</p> <p>a) Civil-architectural and electro-mechanical works as detailed in the Specifications and Bill of Quantities (BOQ) Form, and</p> <p>b) Completed within (5) five years prior to the submission and opening of bids</p>															
7.1	No further instruction.															
10.3	<p>PCAB License and Registration:</p> <p>License Category : C & D</p> <p>Size Range : Small B</p> <p>Classification : General Building</p> <p>The bidder shall have at least five (5) years of experience in construction/ renovation works, as indicated in the BOQ and Specifications.</p>															
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table><tr><th>Key Personnel</th><th>Required no. of years of relevant work experience</th><th>Field of Experience</th></tr><tr><td>Project Manager (Civil Engineer/Architect)</td><td>5 years</td><td>Building Construction / Renovation</td></tr><tr><td>Project Engineer/Architect</td><td>5 years</td><td>Building Construction / Renovation</td></tr><tr><td>Electrical Engineer</td><td>5 years</td><td>Building Construction / Renovation</td></tr><tr><td>Foreman</td><td>5 years</td><td>Building Construction / Renovation</td></tr></table> <p>Except for the Foreman, all key personnel should be PRC-registered engineers / architects in good standing.</p>	Key Personnel	Required no. of years of relevant work experience	Field of Experience	Project Manager (Civil Engineer/Architect)	5 years	Building Construction / Renovation	Project Engineer/Architect	5 years	Building Construction / Renovation	Electrical Engineer	5 years	Building Construction / Renovation	Foreman	5 years	Building Construction / Renovation
Key Personnel	Required no. of years of relevant work experience	Field of Experience														
Project Manager (Civil Engineer/Architect)	5 years	Building Construction / Renovation														
Project Engineer/Architect	5 years	Building Construction / Renovation														
Electrical Engineer	5 years	Building Construction / Renovation														
Foreman	5 years	Building Construction / Renovation														
10.5	<p>The minimum major equipment required for the project:</p> <p>a.) Delivery truck</p> <p>Equipment and hand tools necessary for the completion of the project shall be made available on site (by the winning contractor) during project implementation.</p>															
12	No further instruction.															
15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <p>a. The amount of not less than 2% of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</p> <p>Lot 1 - ₱ 336,633.00</p> <p>Lot 2 - ₱ 284,200.00</p> <p>b. The amount of not less than 5% of ABC if bid security is in Surety Bond:</p> <p>Lot 1 - ₱ 841,582.50</p> <p>Lot 2 - ₱ 710,500.00</p>															

efl

19.2	Partial bids are allowed. The infrastructure project is packaged into 2 lots. Bidder shall have the option of submitting a proposal on any or all lots and evaluation and contract award will be undertaken on a per lot basis. Lots shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	<p>The Lowest Calculated Bidder shall submit the following:</p> <ol style="list-style-type: none"> 1. Registration certificate from Securities and Exchange Commission (SEC) for corporation including Articles of Incorporation and General Information Sheet (GIS), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document 2. 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; 3. Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR) 4. Latest Audited Financial Statements 5. Latest income tax return corresponding to the Audited Financial Statements submitted, filed electronically (EFPS); 6. Quarterly VAT (business tax returns) per Revenue Regulations 3-2005 for the last six (6) months prior to the submission & opening of bids filed electronically (EFPS);
21	No further instruction.

efl

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

3.1 The Procuring Entity shall give possession of all or parts of the Site to the Contractor based on the schedule of delivery indicated in the **SCC**, which corresponds to the execution of the Works. If the Contractor suffers delay or incurs cost from failure on the part of the Procuring Entity to give possession in accordance with the terms of this clause, the Procuring Entity's Representative shall give the Contractor a Contract Time Extension and certify such sum as fair to cover the cost incurred, which sum shall be paid by Procuring Entity.

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

4. The Contractor's Obligations

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

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

5. Performance Security

5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.

- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

6. Site Investigation Reports

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

7. Warranty

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

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

11. Program of Work

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

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

12. Instructions, Inspections and Audits

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

13. Advance Payment

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

14. Progress Payments

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

15. Operating and Maintenance Manuals

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
2	No sectional completion date
3.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor for the duration of the Contract which shall commence upon receipt of the Notice to Proceed and Contract/Job Order.
6	No further instruction
7.2	The defects liability period shall be one (1) year from the project completion up to Final Acceptance by the SSS. During this period, the Contractor shall undertake the repair works, at his own expense, of any damage to the works on account of the use of materials of inferior quality, within ninety (90) days from the time the SSS has issued an order to undertake repair.
8	<p>Liability of the Contractor</p> <p>1. CONFIDENTIALITY. Neither party shall, without the prior written consent of the other, disclose or make available to any person, make public, or use directly or indirectly, except for the performance and implementation of the works, any confidential information, acquired from an information holder in connection with the performance of this Contract, unless: (i) the information is known to the disclosing party, as evidenced by its written records, prior to obtaining the same from the information holder and is not otherwise subject to disclosure restrictions on the disclosing party, (ii) the information is disclosed to the disclosing party by a third party who did not receive the same, directly or indirectly, from an information holder, and who has no obligation of secrecy with respect thereto, or (iii) required to be disclosed by law.</p> <p>The obligation of confidentiality by both parties, as provided herein, shall survive the termination of the Agreement.</p> <p>2. MERGER AND CONSOLIDATION. In case of merger, consolidation or change of ownership of the CONTRACTOR with other company, it is the responsibility of the surviving company/consolidated company/acquiring entity to inform SSS of the change in corporate structure/ownership. Failure to do so shall translate in such company assuming all liabilities of the acquired/merged company under the Agreement.</p> <p>3. FORCE MAJEURE. SUPPLIER shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that CONTRACTOR's delay in performance or other failure to perform its obligations under this Agreement is the result of a force majeure.</p>

	<p>For purposes of this Agreement the terms "force majeure" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or force majeure shall be interpreted to mean an event which CONTRACTOR could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by CONTRACTOR. Such events may include, but not limited to, acts of SSS in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.</p> <p>If a force majeure situation arises, CONTRACTOR shall promptly notify SSS in writing of such condition and the cause thereof. Unless otherwise directed by SSS in writing, CONTRACTOR shall continue to perform its obligations under this Agreement as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the force majeure.</p> <p>4. NON-ASSIGNMENT. CONTRACTOR shall not assign its rights or obligations under this Agreement, in whole or in part, except with SSS's prior written consent. CONTRACTOR shall not subcontract in whole or in part the PROJECT and deliverables subject of this Agreement without the written consent of SSS.</p> <p>5. WAIVER. Failure by either party to insist upon the other strict performance of any of the terms and conditions hereof shall not be deemed a relinquishment or waiver of any subsequent breach or default of the terms and conditions hereof, which can only be deemed made if expressed in writing and signed by its duly authorized representative. No such waiver shall be construed as modification of any of the provisions of the Agreement or as a waiver of any past or future default or breach hereof, except as expressly stated in such waiver.</p> <p>6. CUMULATIVE REMEDIES. Any and all remedies granted to the parties under the applicable laws and the Contract shall be deemed cumulative and may therefore, at the sole option and discretion, be availed of by the aggrieved party simultaneously, successively, or independently.</p> <p>7. NO EMPLOYER-EMPLOYEE RELATIONSHIP. It is expressly and manifestly understood and agreed upon that the employees of CONTRACTOR assigned to perform the PROJECT are not employees of SSS. Neither is there an employer-employee relationship between SSS and CONTRACTOR.</p> <p>The Agreement does not create an employer-employee relationship between SSS and the CONTRACTOR including its personnel; that the services rendered by the personnel assigned by CONTRACTOR to SSS in the performance of its obligation under the contract do not represent government service and will not be credited as such; that its personnel assigned to SSS are not entitled to benefits enjoyed by SSS' officials and employees such as Personal Economic Relief Allowance (PERA), Representation and Transportation Allowance (RATA), ACA, etc.; that these personnel are not related within the third degree of consanguinity or affinity to the contracting officer and appointing authority of SSS; that they have not been previously dismissed from the government service by reason of an administrative case; that they have not reached the compulsory retirement age of sixty-five (65); and that they possess the education,</p>
--	---

	<p>experience and skills required to perform the job. The CONTRACTOR hereby acknowledges that no authority has been given by SSS to hire any person as an employee of the latter. Any instruction given by SSS or any of its personnel to CONTRACTOR's employees are to be construed merely as a measure taken by the former to ensure and enhance the quality of project performed hereunder. The CONTRACTOR shall, at all times, exercise supervision and control over its employees in the performance of its obligations under the contract.</p> <p>8. PARTNERSHIP. Nothing in the contract shall constitute a partnership between the parties. No party or its agents or employees shall be deemed to be the agent, employee or representative of any other party.</p> <p>9. COMPLIANCE WITH SS LAW. CONTRACTOR shall report all its employees to SSS for coverage and their contributions, as well as, all amortizations for salary/education/calamity and other SSS loans shall be updated. Should CONTRACTOR fail to comply with its obligations under the provisions of the SS Law and Employees' Compensation Act, SSS shall have the authority to deduct any unpaid SS and EC contributions, salary, educational, emergency and/or calamity loan amortizations, employer's liability for damages, including interests and penalties from CONTRACTOR's receivables under this Agreement.</p> <p>Further, prescription does not run against SSS for its failure to demand SS contributions or payments from CONTRACTOR. Moreover, CONTRACTOR shall forever hold in trust SS contributions or payments of its employees until the same is fully remitted to SSS.</p> <p>10. COMPLIANCE WITH LABOR LAWS. CONTRACTOR, as employer of the personnel assigned to undertake the PROJECT, shall comply with all its obligations under existing laws and their implementing rules and regulations on the payment of minimum wage, overtime pay, and other labor-related benefits as well as remittances or payment of the appropriate amount or contributions/payment (SSS, EC, Pag-IBIG, PhilHealth and taxes) with concerned government agencies/offices.</p> <p>It is agreed further, that prior to the release of any payment by SSS to SUPPLIER, its President or its duly authorized representative, shall submit a sworn statement that all monies due to all its employees assigned to the PROJECT as well as benefits by law and other related labor legislation have been paid by CONTRACTOR and that he/she assumed full responsibility thereof.</p> <p>11. COMPLIANCE WITH TAX LAWS. CONTRACTOR shall, in compliance with tax laws, pay the applicable taxes in full and on time and shall regularly present to SSS within the duration of the Contract, tax clearance from the Bureau of Internal Revenue (BIR) as well as copy of its income and business tax returns duly stamped by the BIR and duly validated with the tax payments made thereon. Failure by CONTRACTOR to comply with the foregoing shall entitle SSS to suspend payment of the Contract Price.</p>
--	--

	<p>As required under Executive Order (EO) 398, s. 2005, CONTRACTOR shall submit income and business tax returns duly stamped and received by the BIR, before entering and during the duration of this Agreement. CONTRACTOR, through its responsible officer, shall also certify under oath that it is free and clear of all tax liabilities to the government. CONTRACTOR shall pay taxes in full and on time and that failure to do so will entitle SSS to suspend or terminate this Agreement.</p> <p>12. LIQUIDATED DAMAGES. If CONTRACTOR fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in the PBD inclusive of duly granted time extensions if any, SSS shall, without prejudice to its other remedies under this Agreement and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. Once the amount of liquidated damages reaches ten percent (10%), SSS may rescind or terminate this Agreement, without prejudice to other courses of action and remedies open to it.</p> <p>13. HOLD FREE and HARMLESS. SUPPLIER agrees to defend, indemnify, and hold SSS free and harmless from any and all claims, damages, expenses, fines, penalties and/or liabilities of whatever nature and kind, whether in law or equity, that may arise by reason of the implementation of the Agreement. In addition,</p> <p>CONTRACTOR agrees to indemnify SSS for any damage as a result of said implementation.</p> <p>SUPPLIER hereby assumes full responsibility for any injury, including death, loss or damage which may be caused to SSS' employees or property or third person due to CONTRACTOR's employees' fault or negligence, and further binds itself to hold SSS free and harmless from any of such injury or damage. SSS shall not be responsible for any injury, loss or damage which CONTRACTOR or any of its employees may sustain in the performance of CONTRACTOR's obligations under this Agreement.</p> <p>14. SETTLEMENT OF DISPUTES. If any dispute or difference of any kind whatsoever shall arise between SSS and CONTRACTOR in connection with or arising out of this Agreement, the Parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.</p> <p>If after thirty (30) days, the Parties have failed to resolve their dispute or difference by such mutual consultation, then either SSS or CONTRACTOR may give notice to the other Party of its intention to commence arbitration, in accordance with RA No. 876, otherwise known as the "Arbitration Law" and RA No. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004," in order to settle their disputes.</p> <p>No arbitration in respect of this matter may be commenced unless such notice is given.</p> <p>Notwithstanding any reference to arbitration herein, the Parties shall continue to perform their respective obligations under this Agreement unless they otherwise agree.</p>
--	--

	<p>15. VENUE OF ACTIONS. In the event court action is necessary in order to promote Arbitration, such action shall be filed only before the proper courts of Quezon City, to the exclusion of all other venues.</p> <p>16. GOVERNING LAW. The Agreement shall be governed by and interpreted according to the laws of the Republic of the Philippines.</p> <p>17. AMENDMENTS. This Agreement may be amended only in writing and executed by the parties or their duly authorized representatives.</p> <p>18. SEPARABILITY. If any one or more of the provisions contained in the contract or any document executed in connection herewith shall be invalid, illegal or unenforceable in any respect under any applicable law, then: (i) the validity, legality and enforceability of the remaining provisions contained herein or therein shall not in any way be affected or impaired and shall remain in full force and effect; and (ii) the invalid, illegal or unenforceable provision shall be replaced by the parties immediately with a term or provision that is valid, legal and enforceable and that comes closest to expressing the intention of such invalid illegal or unenforceable term of provision.</p> <p>19. BINDING EFFECT. The Agreement shall be binding upon the Parties hereto, their assignee/s and successor/s-in-interest.</p>										
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.										
11.1	The Contractor shall submit the Program of Work to the Engineering and Facilities Management Department (EFMD) within five (5) calendar days after the conduct of pre-construction meeting.										
11.2	<p>The Program of Work update must be submitted within seven (7) calendar days from notice of change in the general methods, arrangements, order, and timing for all the activities, if any.</p> <p>Ten percent (10%) of the progress billing will be withheld on top of applicable ten percent (10%) retention money for late submission of an updated Program of Work.</p>										
13	Advance payment is not Allowed .										
14	<p>Progress payment may be made in four (4) progress billings and upon written request by the Contractor, following the matrix below:</p> <table><tr><th>PROGRESS PAYMENT</th><th>BASIS OF PAYMENT</th></tr><tr><td>1st Billing</td><td>20% or more work accomplishment.</td></tr><tr><td>2nd Billing</td><td>50% or more work accomplishment</td></tr><tr><td>3rd Billing</td><td>75% or more work accomplishment</td></tr><tr><td>4th or Final Billing</td><td>One hundred percent (100%) completion of the project and upon issuance of Certificate of Completion as certified by the EFMD</td></tr></table> <p>Materials and equipment delivered on the site but not completely put in place shall not be included for payment.</p>	PROGRESS PAYMENT	BASIS OF PAYMENT	1 st Billing	20% or more work accomplishment.	2 nd Billing	50% or more work accomplishment	3 rd Billing	75% or more work accomplishment	4 th or Final Billing	One hundred percent (100%) completion of the project and upon issuance of Certificate of Completion as certified by the EFMD
PROGRESS PAYMENT	BASIS OF PAYMENT										
1 st Billing	20% or more work accomplishment.										
2 nd Billing	50% or more work accomplishment										
3 rd Billing	75% or more work accomplishment										
4 th or Final Billing	One hundred percent (100%) completion of the project and upon issuance of Certificate of Completion as certified by the EFMD										

eh

	The retention money and the cumulative value of the work previously certified and paid for shall be deducted from the progress payments as prescribed in item 5 of Annex E of the Revised IRR of RA 9184.
15.1	The contractor must submit the “as built” drawings within fourteen (14) calendar days from the completion of the project.
15.2	SSS shall pay the Final Billing when the “as built” drawings and other required documents are submitted.

Section VI. Specifications

LOT 1 – RENOVATION OF CANTEEN

A. SCOPE OF WORKS

The work contemplated under this contract shall consist of the furnishing of all materials, labor, plant, tools and equipment, permits including the satisfactory performance of all work necessary for the complete execution of all the work as shown on the plans, specifications and other contract documents.

Materials deemed necessary to complete the work but not specifically mentioned in the specifications, working drawings or in the other contract documents are inferred, and shall be supplied and installed by the contractor without extra cost to the owner. Such material shall be of the highest quality available, installed and applied in workmanlike manner at prescribed or appropriate locations.

1. GENERAL REQUIREMENTS

- a. Preparation, reproduction and submission of Signed and Sealed As-Built Plans
- b. Temporary Facilities such as warehouse and barracks

2. SITE PREPARATION WORKS

- a. Mobilization/Demobilization
- b. Demolition/Dismantling of existing masonry wall, drywall partition, portion of perimeter walls, glass partitions/windows, doors and jambs, cabinets, floor finishes, ceiling, electrical fixtures and accessories, wirings, supports, electro-mechanical equipment including wirings, pipings and accessories, cladding, counter, kitchen fixtures and other installations / items affected by the renovation.
- c. Provision of board-up / site enclosure and safety signages
- d. Hauling and disposal of debris and waste materials

3. MASONRY WORKS

- a. Installation of CHB walls including plastering works for toilets, perimeter wall, storage, serving area (with recessed aluminum baseboard) coffee corner and Exit wall to Al Fresco Area including lintel beams and stiffener column.
- b. Restoration/repair of damaged portions of flooring (cracks, crevices, holes), ceiling and walls and affected by demolition & chipping works including leveling of flooring using self leveling compound.
- c. Installation of lavatory counter in synthetic granite finishes with splashboard and sidings.
- d. Installation of solid surface countertop finishes with stainless steel round bar as tracks / grooves for Serving Area
- e. Installation of homogeneous ceramic tiles countertop with splashboard and sidings for Coffee Corner
- f. Installation of porcelain floor tiles at dining area, hallway and entrance area
- g. Installation of floor and wall tiles at toilets, wash area and slop sink including waterproofing

4. CARPENTRY AND ARCHITECTURAL WORKS

- a. Installation of new fiber cement drywall partition on metals framing (between existing and new canteen, rentable kiosk – with recessed aluminum baseboard, Canteen Management Office, lounge area, locker room) including wall cladding and ceiling accent at the entrance, wall cladding in-between canteen & chapel and column cladding.
- b. Provision of sound insulation on drywall partitions / wall cladding as indicated in the plan.
- c. Installation of Pre-laminated MDF board on metal framing accent wall with Faux Green wall panel design at the entrance hallway and Faux green wall panel in Marine plywood at coffee corner, including all necessary hardware and accessories
- d. Installation of Pre-laminated MDF Board in tubular steel framing for overhead shelf at coffee corner
- e. Installation of Pre-laminated Marine Plywood in HPL finishes countertop (front side) for Coffee corner including front and side edges, back cover and logo board

- f. Installation of fibercement board on metal studs for overhead logo, menu and photo board with access door, complete with necessary materials, hardwares & accessories
- g. Installation of Pre-laminated marine plywood in HPL finishes countertop for rentable kiosk including access door complete with all necessary materials, hardwares & accessories
- h. Fabrication and installation of Tubular Steel shelves dining partition
 - AP-1 100mm x 100mm tubular steel in matte paint finish
 - LP-1 Pre-laminated MDF Board on 25mm x 25mm tubular steel frame in matte paint finish
 - Pre-laminated marine Plywood on 25mm x 25mm tubular frame shelves at lounge area
- i. Installation of 12mm thk plywood on existing wood planks flooring at the storage area
- j. Installation of fiber cement board on suspended metal furring system including recessed/drop ceiling.

5. GLASS PARTITIONS, DOORS & WINDOWS

- a. Supply and Installation of Wooden Doors and Jambs complete with lever type lock set, door closer, hardware and accessories.
 - WD-01 Single Leaf flush hollow core wood door with kick plate (1100mm x 2150mm)
 - WD-02 Single Leaf flush hollow core wood door (1100mm x 2150mm)
 - WD-03 Single Leaf flush hollow core (marine) (700mm x 2150mm)
 - WD-04 Louvered Wood Door with KD Solid Wood Frames, stainless door handle (700mm x 2150mm)
 - WD-05 Single Leaf flush hollow core wood double swing door with 6mm tempered clear glass view panel (with vinyl sticker) and kick plate (1100mm x 2150mm)
 - WD-06 Single Leaf flush hollow core wood door with 6mm tempered clear glass view panel with vinyl sticker (1100mm x 2150mm)
- b. Supply and installation of Fire Rated Door with jamb, complete with Panic Device hardware and accessories at emergency exits (1000mm x 2150mm)
 - SD-01 Flush hollow (1100mm x 2150mm)
 - SD-02 Flush hollow core with 6mm thk laminated clear glass view panel and door closer (1100mm x 2150)
- c. Supply and Installation of Glass Door and Glass Partition including accessories.
 - GD-01 Two Single-Leaf Swing Door, 12mm thk Tempered Clear Glass on powder coated FD 100 top and bottom frame with stainless steel handle, complete with patch fittings, hardware and accessories with frosted sticker, fixed glass and transom at Main entrance ((±2550mm x ±2600mm)
- d. Supply and installation of W-01- frameless clear tempered glass 1000mm x 950mm
- e. Supply and installation of glass windows on powder-coated aluminum framing with frosted sticker
 - W-02 12mm thk tempered clear glass (±5700mm x ±2400mm)
 - W-03 12mm thk tempered clear glass (±3600mm x ±2400mm)
 - W-04 12mm thk tempered clear glass (±2650mm x ±2400mm)
 - W-05 12mm thk tempered clear glass (±5650mm x ±2400mm)

6. SPECIALTY WORKS

- a. Supply and installation of Wood Plastic Composite (WPC) panel and board including all necessary hardware and accessories
 - Fluted WPC panel accent 25mm x 165mm x 2900mm at serving area, lounge area and column cladding

- WPC Column / Tubular Slats 50mm x 100mm x 2900mm at Dining Area – Recessed Ceiling, coffee Corner, hallway entrance LP-2, HP-1, Lounge area HP-1 including 100mm x 100mm end/corner support complete with necessary hardware and accessories
 - WPC Drop ceiling at Serving Area, Rentable Kiosk, Self Service Area and Coffee Corner
- b. Supply and installation of Facial Mirror with aluminum frame and plywood backing at lounge area, wash area and toilets
 - c. Supply and installation of indoor directional signages
 - d. Supply and installation of sunscreen roller shades on perimeter glass / windows

7. PLUMBING AND SANITARY WORKS

- a. Supply and installation of plumbing and sanitary fixtures complete with fittings and accessories (water closet, urinal with flush valve, lavatory, faucet, sink, grease trap, handheld bidet, soap holder, tissue holder, hand dryer and other miscellaneous items.
- b. Provision of new waterline roughing ins and sewer line roughing ins and tap to the existing main line (coffee corner, toilets, slop sink and wash area)
- c. Pressure, flow and leak test

8. PAINTING WORKS

- a. Surface preparation (sanding, application of putty, easy tite, primer)
- b. Painting of Masonry Wall (existing and new)
- c. Painting of Double Wall Partition and cladding
- d. Painting of doors and jambs, tubular steel frames, baseboard
- e. Painting of fiber cement board ceiling
- f. Painting of plywood surfaces

9. ARTIFICIAL PLANTS

- a. Supply of Artificial Plants

10. ELECTRICAL WORKS (REFER TO SEPARATE TECHNICAL SPECS)

11. MECHANICAL WORKS (REFER TO SEPARATE TECHNICAL SPECS)

12. EXPANSION OF FIRE EXIT EGRESS

- a. Demolition of existing masonry wall and roofing and other installations / items to be affected by the proposed expansion
- b. Installation of perimeter wall using 150mm thk CHB including stiffener column
- c. Provision of Board up and site protection
Repair / restoration of flooring, roofing and other affected areas

B. WORKMANSHIP

1. All required phases of work shall be done by skilled and competent men who regularly engage or specialize in the type of work specified. Workmanship shall be the very best trade practice.

C. SITE EXAMINATION

1. Examine the site premises and all conditions apparent and visible therein. Consider all such conditions that may affect work.
2. Measure every existing work/structure at site. Verify all given dimensions and deviations. It shall be understood that the work covers all exposed external surfaces regardless of measurements made.

D. PROTECTION OF WORK AND PROPERTY

- 1. Provide adequate protection for existing structures and adjacent areas not affected by the work specified. Place warning signs where work is being undertaken.
- 2. Remove work materials damaged by failure to provide protection. Replace with new work materials at no extra cost to the **OWNER**.

E. CLEANING

- 1. Leave premises clean, neat and orderly. Remove all stains, spots, blemishes, soil dirt from all finished work.
- 2. Remove all excess materials, used containers, tools, equipment and supplies out of the SSS premises during the progress of work and upon completion of work.

F. SUBMITTALS

- 1. Prior to commencement of the project, the contractor shall submit Construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the Department of Labor and Employment, and PERT/CPM.
- 2. Samples of finishes, furnished materials and equivalent materials for approval by the Engineering and Facilities Management Department prior to installation / application.
- 3. Two (2) sets of as-built plans duly signed & sealed by the Contractor's Engineers/Architect together with the electronic file copy using Autocad software.

G. MATERIAL SPECIFICATIONS

PARTICULARS	DESCRIPTION	REMARKS
A. WALLS		
1. Drywall Partition (in-between existing and new canteen, rentable kiosk, lounge area, Canteen Management Office, Locker Room) Baseboard (rentable kiosk)	- 6mm THK Fiber Cement Board Partition - Metal Tracks: 35mm x 76mm x 0.60mm thick - Metal Studs: 50mm x 75mm x 0.60mm thk - aluminum 10mm x 100mm	- submit sample/brochure for approval - submit sample for approval
2. Wall / Column Cladding (Canteen Entrance, Column, in-between Canteen and chapel including storage walls)	- 6mm THK Fiber Cement Board Partition - Metal Tracks: 35mm x 76mm x 0.60mm thick - Metal Studs: 50mm x 75mm x 0.60mm thk	- submit sample/brochure for approval
2. Sound Insulation (walls between existing and new canteen; canteen and chapel including storage walls)	- Rockwool Insulation, 75mm thick, 60kg/cum density, bare type	- submit sample/brochure for approval
3. Masonry Walls (Toilets, Wash Area, Slop sink, lavatory counter, perimeter walls G7 to G13, Storage Room, Serving Area and Exit wall to Al Fresco Area, coffee corner)	- 150mm thick, Concrete Hollow Blocks with concrete lintel beam and stiffener column and smooth plaster painted finish - Cement : Portland - Sand : good quality sand - Reinforcing Bar : ASTM Grade 40 - Tie Wire: GI #16 - Smooth cement plaster finish treated with concrete neutralizer and paint coated	- Non-load bearing blocks w/ class A mortar - Class A mortar with bonding admixture

eh

(Storage Room Extension) Waterproofing (toilets, wash area, slopsink, kitchen)	- Cementitious waterproofing	- submit brochure/ sample for approval
D. STEEL SHELVES / PARTITION		
1. Overhead shelf (coffee corner) and LP-1	- 18mm thk. Pre-laminated MDF board on 25mm x 25mm x 1.2mm tubular frames complete with necessary hardwares and accessories	-as indicated on the plan (submit samples for approval)
2. AP-1	- Tubular steel 100mm x 100mm x 1.2mm in matte paint finish	
3.Shelves at lounge area	- Pre-laminate Marine Plywood (HPL) on 25mm x 25mm x 1.20mm tubular frame -	
E. GLASS PARTITIONS, DOORS & WINDOWS		
1. Wooden Doors	<ul style="list-style-type: none">- WD-01 1100mm x 2150mm x 45mm Single Leaf Flush Type Hollow Core Wood Door with 2" x 4" solid jamb, with kick plate, lever type Lockset, Door Closer, Complete with Hardware and Accessories(Storage Room)- WD-02 – 11000mm x 2150mm x 45mm thk Single Leaf Flush Type Hollow Core Wood Door with 2" x 4" solid jamb, with lever type Lockset, Door Closer, Complete with Hardware and Accessories(Electrical Room)- WD-03 – 700mm x 2150mm x 45mm thk Single Leaf Flush Type Hollow Core (Marine) Wood Door with 2" x 4" solid jamb, with bottom louver, lever type Lockset, Door Closer, Complete with Hardware and Accessories(Toilets)- WD-04 – 700mm x 2150mm x 45mm thk louvered wood door with KD solid wood frames, with stainless steel door handle, complete with Hardware and Accessories (slop sink)- WD-05 – 1100mm x 2150m x 45mm thk Single Leaf Flush Type Hollow Core Wood Door with 2" x 4" solid jamb, 6mm thk tempered clear glass view panel with sticker, kick plate, double swing, lever type Lockset, Door Closer, complete with Hardware and Accessories(Existing kitchen)- WD-06 – 1100mm x 2150mm x 45mm thk Single Leaf Flush Hollow Core Wood Door with 2" x 4" solid jamb, 6mm thk tempered clear glass view panel with sticker, lever type lockset, complete with Hardware and Accessories (Canteen Management Office)	<ul style="list-style-type: none">-as indicated on the plan– submit sample/brochure for approval- Door Closer – submit sample/brochure for approval- Door lockset – submit sample/brochure for approval- Door Handle, Stainless Steel – submit sample for approval- tempered clear glass – submit sample for approval

2. Steel Door (SD-01 and SD-02)	<ul style="list-style-type: none"> - Fire Rated Steel Door ga. 18 x 1100 x 2150 x 45mm thk flush hollow core steel door, 3-hour fire rated with honeycomb insulation, ga 16 jamb, panic device, door closer, hinges and accessories. Pre-painted. - Glass view panel: 6mm laminated clear glass 	-(submit brochure for approval)
3. Glass Doors / Glass Partitions (GD-01)	<ul style="list-style-type: none"> - ±2550mm x ±2600mm, Double Leaf Door 12mm thk tempered clear glass door on powder coated FD100 top and bottom frames with stainless steel door handle, complete with patch fittings hardware and accessories with frosted vinyl sticker, with fixed glass and transom - complete with patch fittings, hardware and accessories (door closer, pivot hinges, push bar, entrance lock, Flush Bolt, 32 x 300mm stainless steel door handle) 	<p>-as indicated on the plan (submit sample / brochure for approval)</p> <p>Door handle – submit sample for approval</p> <p>-as indicated on the plan (submit sample / brochure for approval)</p>
4. Glass Windows (W-01) (W-02, W-03, W-04, W-05)	<ul style="list-style-type: none"> - 12mm thk frameless clear tempered glass window 1000mm x 950mm - 12mm thk tempered clear glass on powder-coated aluminum framing with vinyl frosted sticker ±5700mm x ±2400mm ±3600mm x ±2400mm ±2650mm x ±2400mm ±5650mm x ±2400mm 	-as indicated on the plan (submit sample for approval)
F. SPECIALTY WORKS		
1. Wood Plastic Composite (WPC) Decorative Panel and board	<ul style="list-style-type: none"> - WPC Fluted 25mm x 165mm x 2900mm complete with hardware and accessories - WPC Board 5mm x 1200mm x 2400mm complete with hardware and accessories - WPC Columns 2900mm x 100mm x 50mm complete with hardware and accessories - WPC Columns 2900mm x 100mm x 100mm complete with hardware and accessories 	<p>- Submit sample for approval</p> <p>- Submit sample for approval</p> <p>- Submit sample for approval</p> <p>- Submit sample for approval</p>
2. Countertop finishes		
(Serving Area)	- Solid surface 12mm thick including sidings with stainless steel round bar tracks / grooves	- Submit sample for approval
(Rentable kiosk)	- Pre-laminated marine Plywood (HPL) 18mm thk	- Submit sample for approval
(Coffee Corner)	<ul style="list-style-type: none"> - 600mm x 600mm homogeneous ceramic tiles including splashboard and sidings - Pre-laminated marine Plywood (HPL) 18mm thk (frontside) 	- Submit sample for approval
(Wash Area)	- 600mm x 600mm Porcelain tiles on concrete counter	- Submit sample for approval

(nailers)	- 2" x 2" s4s KD	
3. Facial Mirror (lounge area, wash area, toilets)	<ul style="list-style-type: none"> - 6mm thick with aluminum frame and plywood backing ±5012mm x 1200mm ±3712mm x 1200mm ±2495mm x 800mm 500mm x 600mm 	- Submit sample for approval
4. Sunscreen Roller Shades	<ul style="list-style-type: none"> -Roll-up Polyester /Polymer Shade -Chain Operated Roller System -#10 Plastic Bead Chain Operating Loop -Universal Mounting Brackets (Includes Hardware and Accessories). Provide Head Rail where Applicable. -Extruded Aluminum Roller Tube Made with Alloy 6063-T5 -Standard Roll (White Color – Series 5000) <p>Sunscreen Fabric Specifications:</p> <ul style="list-style-type: none"> - Composition : 30% Polyester, 70% PVC - Openness Factor : 1% - Width : 200cm / 250cm - Length : Approx. 30m/Roll - Thickness : 1.08mm - Weight: 810g/m2 ±5% - Tensile Strength : Warp 291.5kg/Weft 100.3kg - Tearing Strength : Warp 10.9kg /Weft 5.8kg - UV Blockage : 98% - Fire Rating : U.S.A. NFPA 701 - Color Fastness (AATCC16-2003): Class 4.5 - Environmental Certifications : Oeko-Tex ® - Standard 10 	-Submit sample for approval
5. Indoor Signages	<p>Doors / Wall / ceiling mounted signage</p> <ul style="list-style-type: none"> - 3mm thick Acrylic plastic base - 3M vinyl acrylic sticker - Text & Color: refer to plan - Mounting / anchorage : refer to plan <p>Accent Wall (Hallway):</p> <ul style="list-style-type: none"> - 2MM thk Acrylic cut-out letter - Font: Tahoma – Bold / Regular - Interchangeable letter - (refer to plan) <p>Accent Wall (Coffee Dining)</p> <ul style="list-style-type: none"> - 2MM thk Acrylic cut-out letter - Wall mounted - (refer to plan) <p>Lounge Area Sticker</p> <ul style="list-style-type: none"> - vinyl sticker - (refer to plan) 	<p>-submit sample for approval</p> <p>-submit sample for approval</p> <p>-submit sample for approval</p> <p>-submit sample for approval</p>

eh

G. PLUMBING & SANITARY FIXTURES				
1. Pipes and Fittings				
Drain, Waste & Vent Piping	- uPVC, Series 1000 (Orange), 2" dia, 4" dia and fittings, Size depends on the design / plan	- submit approval	sample	for
Water Piping	- PPR Pipe PN20, ½" dia, ¾" dia, 1" dia. and fittings, Size Depends on the Design/Plan	- Submit approval	sample	for
2. Sanitary Fixtures and Accessories				
Water closet	- Water closet with tank coupled 3/6 LPF push button with soft closing sea and cover L690 x W370 x H785mm complete with fittings & accessories Osiris CS402B AW	- submit approval	brochure	for
Urinal	- ceramic, color white complete with flush valve, fittings and accessories	- submit approval	brochure	for
Lavatory	- Undercounter 540x425x170mm complete with fittings and accessories	- submit approval	brochure	for
	- Pedestal type 520mm x 440mm x 205mm, rear flow with lavatory bracket, fittings and accessories	- submit approval	brochure	for
Kitchen Sink	- Single basin, stainless with complete accessories	- submit approval	brochure	for
Handheld Bidet	- Bidet, B00603 Model, Stainless Steel, Handheld with Hose including complete fittings and accessories.	- submit approval	sample	for
Lavatory / Sink Faucet	- Stainless Steel Single Lever Faucet including pop-up drain, p-trap, flexible hose, complete with fittings & accessories	- Submit approval	sample	for
	- Gooseneck faucet, stainless including drain, p-trap, flexible hose, angle valve, complete with fittings and accessories	- submit approval	sample	for
Tissue Paper holder	- Stainless steel paper holder with lid	- Submit approval	sample	for
Soap Holder	- Stainless Soap Holder	- Submit approval	sample	for
Hand soap dispenser	- Automatic, wall mounted 900ml	- submit for approval	sample/brochure	
Hand Dryer	- Automatic with carbon brush motor	- submit for approval	sample/brochure	
Floor Drain	- Stainless steel, 4" x 4"	- submit approval	sample	for
Gate Valve	- 32mm Brass Finish Gate valve	- Submit approval	sample	for
Angle valve	- ½" stainless	- Submit approval	sample	for
Floor drain	- 4" x 4" stainless	- Submit approval	sample	for

H. PAINTING WORKS		
1. Surface Preparation of all painting works	Includes sanding, application of putty, easy tite, primer	
2. Masonry Wall	- 1 coat Permacoat Latex paint - 2 Coats Semi-Gloss Latex Paint - concrete neutralizer - Masonry putty	- submit color swatches for approval
Existing Walls and Columns	- 2 Coats Semi-Gloss Latex Paint	- submit color swatches for approval
3. Fiber cement board New Wall/Cladding / Ceiling	- 1 Coat Primer Paint / Permacoat Flat Latex Paint - Gypsum Putty - 2 Coats Semi-Gloss Latex Paint	- submit color swatches for approval
4. Doors and jambs including access doors for rentable kiosk	- 2 Coats Lacquer Primer Surfacer - Lacquer spot putty - 3 coats automotive lacquer paint	- submit color swatches for approval
Existing Doors and Jambs	- 2 Coats automotive lacquer paint	- submit color swatches for approval
5. Plywood Surfaces	- 1 coat Flatwall Enamel paint - 2 Coats Quick Dry Enamel Paint - glazing putty - Masonry putty	- submit color swatches for approval
6. Tubular steel frames / aluminum baseboard	- Epoxy primer - 2 coats Epoxy paint	- submit color swatches for approval
I. ELECTRICAL WORKS – (w/ separate Technical Specification)		
J. MECHANICAL WORKS – (w/ separate Technical Specifications)		
K. VIDEO SURVEILLANCE (CCTV) – (w/ separate Technical Specifications)		
L. STRUCTURED CABLING WORKS – (w/ separate Technical Specifications)		

ELECTRICAL WORKS

I. GENERAL CONDITIONS:

1. All electrical works shall comply with the plan and specification in accordance with the latest edition of the Philippine Electrical Code (PEC).
2. Rough-in layout concealed between walls and exposed above ceiling shall be IMC and/or Polyvinyl Chloride (PVC) pipes and properly secured with clamps/ mounting supports. Exposed conduit must be RSC.
3. PVC pipe fitting layout shall be provided with appropriate PVC adapter with locknut and glued with PVC solvent and properly anchored with clamps/ supports.
4. Minimum size of conduit to be used shall be 15 mm diameter.

- For Normal & UPS Power Circuits-
Lines - Red, Black, Yellow & Blue
Neutral - White

- For Normal Power Circuit - NORMAL POWER

- ## II. ELECTRICAL MATERIAL SPECIFICATIONS:

Materials	Specifications
a. uPVC Pipe Neltex, Emerald, Atlanta or its equivalent	20mmØ
b. Flexible Metallic Conduit (FMC)	20mmØ
c. Intermediate Metal Conduit (IMC)	20mmØ

Materials	Specifications
a. Junction Box	steel sheet gauge 16
b. Utility Box	2" x 4", steel sheet gauge 16 uPVC Plastic Box (Tailee)
c. Wire Gutter	(2500x350x300)mm, GA #16 w/cover

Materials	Specifications
<p>a. 3.5 mm², 5.5 mm², 8.0 mm²</p> <p>b. Convenience Outlet</p>	<p>THHN/ THWN stranded wire, lead free</p> <p>Duplex convenience outlet, 3 prong, parallel slot with ground, 15a, 2P, 230v, for UPS</p>

	<p>Recessed Panel Light (300x300mm), Power: 18watts, Size: 295 x 295 x 10mm, Color Temperature: CoolWhite 4000k</p> <p>Surface mounted, lighting fixture, 1x18watts led tube, 220v, t8, 1800 lumens, 120 light angle, size (300mmx1200)mm with aluminum large cell parabolic louver type and anodized reflector, cool daylight, complete with circuit wiring, Color Temperature: CoolDaylight 6000k</p> <p>Hanging & Surface mounted LED T8 Panel Fixture, T8: 18watts (Replaceable bulb), IP Rating: IP20, Material: PC+Iron, Reflector: Reflective Paper, Color: Black I White, Cutout: 80mm, Dimensions: Length: 1233mm, Width: 60mm, Height: 53mm, Color Temperature: CoolWhite 4000k</p> <p>Led Track Light, Led track light fixtures with 4 x 7 Watts (Replaceable bulb), Color: Black, Color Temperature: CoolWhite 3000k</p> <p>Cove Light Led Strip for Hallway (15m approx.), Led Strip: 3000K, 12V, 12Watts, Color Temperature: WarmWhite 3000k</p> <p>Aluminum Profile Led Strip Under Cabinet, Size: 12 x 13mm, Inter Width: 12mm, Suit for Strip: 8-12mm, Surface: Anodized Silver, PC Cover: Polycarbonate/Frosted/Milky, End Cap and Bracket, Installation: Surface Mounted, Color Temperature: CoolWhite 4000k</p> <p>Emergency Light, 2x3-5W min. LED, 220V, sealed LED acid battery</p>
e. Rechargeable Portable Emergency Light	Entrance/Exit Light 3-5watts (minimum) LED, 220VAC
f. Entrance/Exit/Fire Exit Signage	Exhaust fan, ceiling mounted, 55-watts min., 90-120cfm min., 230v, 60hz., with grill shutter/ louver or its approved type equivalent
g. Exhaust Fan	

4. CIRCUIT BREAKERS / PANEL BOARDS

Materials	Specifications
a. Enclosed Circuit Breaker (ECB)	ECB 30A, 3P, 230VAC, 18kAIC min, 60Hz, Nema 1, surface Mounted, Industrial Type, w/

eh

	<p>grounding terminal block, powder coated gray paint.</p> <p>ECB 20A, 2P, 230VAC, 10kAIC min, 60Hz, Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block, powder, coated gray paint.</p> <p>ECB 50A, 3P, 230V, 18kAIC min, 60Hz, Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block, powder, coated gray paint.</p> <p>ECB 125A, 3P, 230V, 50kAIC min, 60Hz, Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block, powder, coated gray paint.</p>
b. Kilowatt-Hour Meter	Kilowatt-Hour Meter, GEKV2C, 3P & 2P, 230VAC or approved equivalent
c. Lighting/ Power Panel (LPP)	<p>Main: 50AT, 3P, 230V, 18kAIC min, 60Hz</p> <p>Branches:</p> <p>1- 30A, 3P, 230V, 18kAIC min., 60Hz</p> <p>13- 20A, 2P, 230V, 10kAIC min., 60Hz</p> <p>1- SPACE, 3P, 230V</p>
d. Lighting(LP)	<p>Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block, powder coated gray paint</p> <p>Main: 30AT, 3P, 230V, 18kAIC min., 60Hz</p> <p>Branches:</p> <p>12- 20AT, 2P, 230V, 18kAIC min., 60Hz</p> <p>Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block,powder coated gray paint</p>
e. PP A/C	<p>Main: 125AT, 3P, 230V, 50 kAIC min., 60Hz</p> <p>Branches:</p> <p>18- 40AT, 2P, 230V, 18kAIC min., 60Hz</p> <p>Nema 1, surface Mounted, Industrial Type, w/ grounding terminal block,powder coated gray paint</p>

5. CONDUIT SUPPORT & OTHER MISCELLANEOUS & INCIDENTAL MATERIALS
REQUIRED TO COMPLETE THE INSTALLATION

Materials	Specifications
a. Conduit support	Threaded bar with Grip Anchor
b. Conduit clamp	U-bolts/ strapped
c. Mounting of conduit	Angular bar, 1 ¼' x 1 ¼" x ¼"



III ELECTRICAL SCOPE OF WORKS:

- 1 The service provider/ contractor is required to conduct site inspection together with the Building Administration and EFMD Engineer or SSS representative to determine the nature and extent of necessary works, materials, services and consider these are essential and incidental requirement in the implementation of the project.
- 2 The contractor shall be responsible for the thorough coordination with the concern parties and, secure of all necessary work permits that maybe required of the project.
- 3 All works shall be properly coordinated with the Building Owner or SSS representative to discuss all phases of the works/ activities.
- 4 Any changes and/ or modifications of the materials specification and work orders shall be subject to discussion with involve parties to address any conflicts before proceeding of the said changes prior to the approval of the Building Owner and the SSS representative.
- 5 The following layout materials to be used:

Intermediate Metallic Conduit	- Feeder and sub-feeder layout
PVC conduit	- for concealed and above ceiling layout
	- switches shall be mounted embedded on the wall
- 6 Supply and install of new metering system and electrical panel board complete with essential wiring system, terminal lags and other standard accessories, as indicated in the plan.
 - Watt-hour Meter and Current Transformer
 - Enclosed Circuit Breaker (ECB)
 - Main Distribution Panel (MDP)
 - Power Panel for Air-conditioning (PP-A/C)
 - Emergency Lighting/ Power Panel (ELPP)
 - UPS Distribution Panel (UPSDP)
 - ECB for the input and output of UPS unit
- 7 Supply and install of new electrical wiring and layout materials for the power supply of the following equipment, fixtures and devices as indicated in the plans:
 - Duplex Convenience Outlet, 3-prong, parallel slot with grounding terminal for UPS & normal power outlet.
 - Convenience Outlet, Duplex, 3-prong parallel slot, for UPS power outlet
 - Convenience Outlet, Duplex, 3-prong parallel slot, for normal power outlet
 - Convenience Outlet, Single, 3-prong parallel slot, for normal power outlet
 - Lighting Fixtures with Switches
 - Down Lighting Fixtures
 - Portable Emergency Light
 - Entrance/Exit and Fire Exit Signage
 - Exhaust Fan
 - Transfer Fan
- 8 Supply and install of new electrical wiring and layout materials for the power supply of MSS Backdrop/ Horizontal and Vertical Signage provided with individual control switch.
- 9 Hauling out/ transfer and positioning/reinstallation of the existing 10kVA UPS unit and batteries including UPS wiring system and accessories. from old SSS Office to the new relocation site/office,
- 10 Chipping & restoration works for electrical conduit chute that may be indirect to the raceway of the new installed modular tables.
- 11 Supply and install of conduit support/ hangers and shall be rigidly secured with appropriate fittings using appropriate materials.

- 12 All areas affected during implementation of the project by chipping/ boring, dismantling works and other related activities shall be restored to original condition at the owner’s satisfaction at no additional cost to the SSS.
- 13 Supply of labor, materials and devices that are essential to complete the project, may it be mention or not in the Terms of Reference (TOR), specified or not in Bill of Quantity (BOQ) and proposed plan layout.
- 14 Prepare and submission of blue print as-built plans in standard size (20inx30in) duly signed and sealed by the Professional Practitioners (Electrical/ Mechanical Engineer).
- 15 Testing and commissioning of the electrical wiring system, fixtures and other devices.

IV FIRE DETECTION AND ALARM SYSTEM (FDAS) SPECIFICATION

MATERIAL SPECIFICATIONS


Materials	Minimum Specification
Smoke Detector	Conventional Photoelectric, 24VDC
Heat Detector	Conventional Rate of Rise Temperature, 24VDC
Manual Pull Station	Single Action, Break Glass Operation with Key Lock or Tool to Reset, Surface/ semi-flush Mounted or its equivalent approved type
Speaker/ horn	Indoor, Surface Mounted, Low current, High dB output, or its equivalent approved type
Wire	#14 Shielded Pair/ TF Twisted pair wires 3.5mm², THHN/ THWN stranded wire for power supply


FADS SCOPE OF WORKS:

- 1 Supply and installation of the following materials and integrate to the existing FADS System:
 - a. Smoke Detectors
 - b. Heat Detectors based on the plan layout.
 - c. Manual stations
 - d. Horn with strobe light
- 2 Testing, Commissioning and configuration of the FACP, if necessary.
- 3 Perform other miscellaneous and incidental works and materials needed to complete the project and restoration of all areas affected at the satisfaction of the client.
- 4 Submit all brochures, manuals, guidelines and other materials necessary for the maintenance and operation of the system including the As-built plans duly signed by registered professional practitioners.

IV CCTV MATERIAL SPECIFICATIONS:

Materials	Minimum Specification
CCTV-NVR 32 channel	<div>  </div> <p>Video & Audio input 32 CCTV-IP cameras. Support 4megapixels up to the highest.</p>

	<p>Support third-party network ONVIF and various special functions of IP cameras & among others.</p> <p>Support Video & Audio input output mode, Alarm In/Out, Audio Compression & among others.</p> <p>Decoding Format: H.265/H.265+, H.264/H.264+, MPEG4 & more others.</p> <p>Recording Resolution: 4MP up to highest.</p> <p>Support dual-stream recording & among others.</p> <p>Decoding Capability: up to 16-ch@1080P (30fps) or more @ 4MP up to highest.</p> <p>Synchronous Playback: 1-16-channel or more.</p> <p>Stream Type: Video & Audio, Support Audio Compression & among others.</p> <p>Access Network: 1or2 input RJ-45, 10/100/1000 Mbps self-adaptive Ethernet interfaces.</p> <p>Support Multiple Remote Connections 5 up and to more.</p> <p>Support Protocols TCP/IP, DHCP, IPV4, IPV6, HTTP, HTTPS & among others.</p> <p>Support Security Password Protection, Web Browsers & among others.</p> <p>Serial Interfaces: 1 RS-485 (half-duplex), 1RS-232 (optional)</p> <p>Storages SATA: 4 SATA interfaces or more. Support up to 16 TB capacity for each HDD or higher.</p> <p>With inserted & installed Surveillance Hard disk 2-units by 8-Terabytes each disk total to 16-Terabytes.</p> <p>USB Interface: 2 ports or more.</p> <p>With attached and supply ready to use USB mouse and USB keyboard.</p> <p>HDMI/ VGA or DVI Output: Support 1024X768/60Hz up to higher and simultaneous output or more.</p> <p>NVR Chassis: To be Rack-Mounted on standard Data cabinet.</p> <p>Power Supply: Input 100 to 220/240 VAC (auto volt).</p> <p>Complete Product Packages and Accessories.</p>
<p>CCTV-IP Camera PoE 4MP Mini bullet indoor/outdoor</p>	 <p>Appearance: Mini Bullet Indoor/Outdoor.</p> <p>Camera body & Junction box Material: Metal or Aluminum from the Manufacturer or equivalent.</p> <p>Resolution: 4 Mega Pixel or higher</p> <p>Support the various unique features and special functions of CCTV IP cameras and NVRs.</p> <p>With Built-In Microphone and On-Board Storages microSD and others, support up to 512GB or higher.</p> <p>Network: 1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces.</p> <p>Support Multiple Remote Connections User/Host</p> <p>Support Protocols TCP/IP, DHCP, IPV4, IPV6, HTTP, HTTPS & more others.</p> <p>Support third party ONVIF, WDR, Night Visions & more others.</p> <p>Support Security Password Protection.</p> <p>Support Web Browser</p> <p>Power Supply: RJ45 POE and separate 12VDC input plug (spare).</p>

	<p>Support One-key reset.</p> <p>Support On-board button reset.</p> <p>Video & Audio storages: NVR and others.</p> <p>Protection Level: IP67 or Highest.</p> <p>Complete Product Packages and Accessories</p>
<p>POE Switches Managed Gigabit 24-ports with 2 or 4-SFP slots and RJ45 uplink.</p>	 <p>Supports IEEE802.3af, IEEE802.3at compliant and more others</p> <p>Supports visualized management and remote maintenance with Hierarchical user security protection.</p> <p>Supports web, and network management software based on SNMP.</p> <p>Supports automatic network topology generation and network redundancy application.</p> <p>Support Auto Negotiation MDI/MDIX.</p> <p>Supports long distance power supply and POE protocols, power management policy.</p> <p>All POE 24 ports Gigabit, all-SFP slots, 2 slots RJ45 uplink or equivalent.</p> <p>To be installed in the Data Cabinet Standard Rack.</p> <p>Complete Product Packages and Accessories</p>
<p>Dual Fiber Transceivers</p>	<p>1.25 Gbps or Higher-ups SFP Dual Fiber Transceivers</p> <p>Support up to 10KM or higher, Support IEEE 802.3ab and more.</p>
<p>UTP CAT6 Cables – Indoor</p>	<p>23 AWG Solid Copper Conductors, 305mtrs or 1000ft. in length Box or Spool.</p> <p>Pure copper color White or Gray, PVC complies RoHS, with ISO Certification Test Standard & among others.</p>
<p>RJ 45 connectors for CAT6</p>	<p>Pure Copper Golden Contact 8 Pin, capable for Power Over Ethernet (PoE) by IEEE standard and among others.</p>
<p>Hard disk for Surveillance 8-Terabyte</p>	<p>Interface Type: SATA, Support Speed 5400rpm or higher up</p>
<p>Steel Wall Box Data Cabinet – 12-U (Small Metal Color Black)</p>	<p>Protection ratings IP66 or Higher, with key lock to close or open, with standard rack for Equipment POE and among others heavy duty.</p>
<p>Fiber Optical Switches / SFP</p>	<p>8-SFP ports Gigabit/1000Mbps + 2-GE RJ45 ports Gigabit/1000Mbps.</p> <p>Switching Capacity 20Gbps or Higher</p> <p>Managed or Unmanaged</p> <p>Power Supply 220VAC input or equivalent drive input</p> <p>With certification / CE,FCC,RoHS, UKCA, RCM</p> <p>Standard & Protocols / IEEE 802.3i, 3U, 3ab, 3X, ip.</p>
<p>4 Core Fiber Optic with Patch Panel SC to LC drop cable</p>	<p>Complies RoHS, with ISO Certification Test Standard & among others</p>
<p>Patch Panel 24 ports for CAT6</p>	<p>standard with certification CE, FCC.. and among others</p>

eh

CCTV SCOPE OF WORKS:

- 1 Supply and installation of the following materials for the CCTV System:
 - a. NVR 32 channel
 - b. IP Camera 4MP
 - c. Surveillance Hard disk/8TB per disk
 - d. Fiber Optical Switches 8 ports Gigabit SFP
 - e. SFP gigabit modules dual/duplex transceiver
 - f. LC - LC fiber patch cord 1meter
 - g. SC-LC fiber patch cord 1meter
 - h. POE Managed switches 24 ports w/2 SFP & RJ45 uplink
 - i. non-POE Managed switches 12 ports w2 slot SFP & RJ45 uplink
 - j. Data Cabinet wall mounted (small)
 - k. Patch Panel 24 ports for CAT6
 - l. Cable manager
 - m. Patch panel for fiber optic
- 2 Testing, Commissioning and configuration of the FACP, if necessary.
- 3 Perform other miscellaneous and incidental works and materials needed to complete the project and restoration of all areas affected at the satisfaction of the client.
- 4 Submit all brochures, manuals, guidelines and other materials necessary for the maintenance and operation of the system including the As-built plans duly signed by registered professional practitioners.

V OTHER WORKS

Any damaged incurred during the activity shall be restored / repaired by the Contractor at his own expense and shall be done in a satisfactory and approved manner. Paint dropping and other stains relative to the project shall be removed from all areas.

VI PERMITS AND FEES

- 1 The work under this contract shall be in accordance to the latest requirements of the following:

- Philippine National Building Code
- Philippine Electrical Code
- Local Utility Company

Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local ordinances and these mentioned ordinances are hereby made part of this specification.

- 2 All permits and electrical fees required in this work shall be obtained by and at the expense of the contractor. The Engineer shall be furnished by the contractor, the copy of the final certificate of electrical completion and approval by the government authorities.
- 3 During the progress of work, the contractor shall keep a record of all changes where the actual installation differs from that shown in the contract drawings. Upon completion, the contractor shall finalize the "as-built" drawings on tracing paper and submit to the Engineer for approval before reproduction.

VII SUBMITTALS

- 1 Manufacturer's data, shop drawings and samples required for the specific materials shall be submitted for approval to the Engineer prior to procurement and delivery to job site.
- 2 Manufacturer's data shall be descriptive item catalog cut which shall include the manufacturer's name, trade name, model number, name plate data, and others.
- 3 Shop drawings when required shall show type, size, sectional view, installation details, and elementary and wiring diagrams.

- 4 A certified test results for specific items when deemed necessary shall be submitted to the Engineer by the Contractor.
- 5 Manufacturer’s data or samples should be submitted of the following items:
- Conduits and Fittings
 - Boxes and Accessories
 - Wires and Cables
 - Other items required by the Engineer

VIII STANDARD OF MATERIALS

All materials to be used in this installation shall be of high quality, free to any defect and of proven acceptability for the purpose it is intended for application. It shall conform to the latest applicable standards of the following:

- Philippine Electrical Code
- ASTM and NSC
- PEC and NEC

8.1 Raceways, Conduit Pipes and Fittings

8.1.1 Polyvinyl Chloride (PVC)
PVC conduits conforming to recognized standards for conduit as manufactured by Matsushita or approved equal.

8.1.2 Outlet Boxes and Covers
Terminations of pipes to outlet boxes shall be provided with suitable fitting and other devices especially designed for the purpose.

- Receptacles : 2” x 4” x 2.5”
- Pull Boxes : depends on the number of conductor to occupy the boxes

8.2 Conductors, Wires and Cables

All wires and cables shall be copper, soft drawn and annealed with ninety-eight (98%) percent conductivity. For power systems, the conductors shall be thermoplastic and insulated to withstand a working pressure rated at 230 Volts, THHN/THWN type as indicated in the drawings. The feeder lines to panel boards shall be heat and moisture resistant, with size as indicated in the drawings.

The minimum size to be used in the installation shall be #3.5 mm sq. except for the controls where #2.0 mm sq. may be allowed. All conductors from sizes of #3.5 mm sq. or larger shall be stranded for additional flexibility while in transit inside pipe.

All wires and cables described above shall be of reputable manufactures.

8.3 Electrical and Wiring Devices

8.3.1 Wall Receptacles
Wall receptacles shall be of conventional type with an ampere rating of 15A, 230V, duplex, flush mounted. The mounting height shall be 300 mm above floor finish. It shall be as manufactured by National or approved equivalent.

8.3.2 Wall Plates for Switches and Receptacles
Wall plates for receptacles, in regards to colors shall be the sole choice of the Engineer. The brand shall be the same as specified above.

8.4 Standard of Workmanship

The workmanship required in this section shall be the generally accepted engineering practice standard of safety. Defective workmanship shall be redone outright without extra cost to the Owner. Conduit installations, boxes, fittings and accessories shall conform to the requirements of the Philippine Electrical Code and other standards required locally.

During installation, due to precautions shall be observed to protect the conduit and thread from mechanical injuries. The conduit ends shall be sealed in approved manner during the installation whenever the work is interrupted.

Conduit shall be checked for freedom from obstruction by pulling galvanized wire through the entire run of the conduit. The galvanized wire shall be maintained inside the pipe unit the conductors have been pulled permanently. Termination boxes for conduits shall be free from dirt and other debris which may cause obstructions.

All joints between lengths of conduit shall be water tight with red lead paints or other approved sealing agent.

Conduit shall be held firmly on pipe termination by a pair of locknut and bushing. All outlets shall be truly centered, plumb and leveled. Any discrepancy on outlet location between the electrical plans and the architectural plans shall be submitted to the attention of the Engineer.

Wiring method in general shall be installed inside rigid steel conduit as required in the plan; no such wire shall be pulled inside the pipe if the conduit system is not complete in all aspect, so that the conductor will be protected from damages and abrasion.

Conductors terminated in any kind of outlet box shall have at least 150 mm of wire extended free from the box as allowance for splicing. Color coding shall be observed throughout the installation to provide easy identifications.

Installation of lighting fixtures, wall mounted receptacles and switches shall be given due care as to prevent contact of live wire parts to respective fixtures.

Conductor joints or splices will only be allowed in boxes and should be properly insulated by means of a wire nut fitted to the size of conductor being joined. Splices will never be tolerated inside pipe.

8.5 Material Testing and Workmanship

8.5.1 Grounding

All exposed non-current carrying parts of Electrical Equipment and apparatus shall be properly grounded by means of ground rod driven one (1) meter below the ground level or connect to existing cold water pipe line. All metal conduit system and other parts required at ground potential shall be efficiently grounded. All panel boards' cabinet shall likewise be solidly grounded.

8.5.2 Materials and Workmanship Tests

All wiring system has to be tested for shorts and grounds after the installation has been completed. The Contractor shall furnish all necessary apparatus and testing equipment and will have to make good whatever deficiencies may be found. Test shall be conducted in the presence of the authorized representative of the Owner or the Engineer.

8.6 Guarantee

All materials and accessories furnished/installed under this part of the specifications shall be guaranteed for a period of one (1) year from date of acceptance thereof, and materials and equipment furnished shall be free from any defects in the materials, workmanship and design. At any time within one year after acceptance and upon proper notice the Contractor shall rectify any and all deficiencies including replacement of parts or the entire units without additional cost to the Owners, if such deficiencies have been caused directly or indirectly by inferior materials, faulty workmanship and/or defective design or parts. Expendable items are included in this one-year guarantee. During the guarantee period the Contractor shall perform free monthly inspection for the proper and efficient operation of the electrical system.

MECHANICAL WORKS

SECTION I: GENERAL PROVISIONS

1.0 SUMMARY

This section includes the scope of work, system description and general requirements to complete the air-conditioning systems of the project.

2.0 GENERAL REQUIREMENTS:

The contract drawings indicate the extent and general arrangement of the air conditioning systems. If departures from the drawings are deemed necessary, details of such departures and the reasons therefore shall be submitted to the Engineer and/or his representative for approval. No such departures shall be made without the prior written approval of the Engineer or his authorized representative.

- 2.1 **APPLICABLE STANDARDS:** All materials, machinery, and equipment shall be of the required quality used in good commercial and trade practice and shall be essentially the standard products of reputable manufacturers. The acceptability of these items including their workmanship and method of installation shall be established by the following:
- Philippine National Standard (PNS)
 - The Philippine Mechanical Engineering Code.
 - The Philippine Electrical Code.
 - Fire Code of the Philippines.
 - Building code of the Philippines
 - American Society of Heating, Refrigerating & AC Engineers (ASHRAE).
 - American Society of Mechanical Engineer (ASME).
 - National Fire Protection Associations (NFPA).
 - Air Moving and Conditioning Association (AMCA).
- 2.2 **EQUIPMENT SCHEDULE:** As soon as practicable, after date of the award of the contract, a complete schedule of the equipment proposed for installation shall be submitted for the approval of the Engineer showing dimensions and arrangement of the equipment necessary clearances. The schedule shall include catalogs, diagrams, and drawings. In the event any items or equipment contained in the schedule fails to comply with the specifications, such item may be rejected. ***If applicable***
- 2.3 **SHOP DRAWINGS:** As soon as practicable, after award of the contract and prior to installation, complete shop drawings, showing the sizes and the type of equipment, together with complete duct and piping layout and electrical connections shall be submitted to the Engineer for approval. ***If applicable***
- 2.4 **AS-BUILT PLANS:** "As -Built" drawings is required prior to issuance of certificate of completion. "As -Built" drawings shall be furnished the building owner. The As-Built plan shall be of 20" x 30" blueprint, signed and sealed by a Professional Mechanical Engineer. The As-Built plans shall include all contract drawings with the necessary revisions and modifications resulting in change from the original drawings, supplemented by such schematic, isometric, or other types of drawings as may be necessary to provide a clear understanding of installed systems "AS-BUILT".
5. **LOCAL LAWS AND ORDINANCES:** Aside from herein specified, the equipment and materials to be furnished and the installation of the systems shall conform to local laws, codes and other ordinances that are in force. If necessary, the contractor shall secure a permit to install from authorized agency having a jurisdiction over the place of installation and before final acceptance by the Owner a final certificate of inspection and a permit to operate the system shall be secured from the same government agency. Fees and other expenses due on these permits shall be borne by the contractor.
- 2.6 All tools, equipments, safety gadgets, medical kits shall be provided to ensure safety of the personnel and property against accidents and any untoward incidents that may affect the execution of the project.

3.0 COORDINATION OR WORK DONE BY OTHER TRADES:

- 3.1 It shall be the responsibility of this Contractor to closely coordinate his work with other trade concern to avoid conflicts and to insure the smooth and proper installation of the project.
- 3.2 This contractor shall carefully check space requirements to make sure that his equipment, air ducts, pipes, dampers, motor controllers, etc. can be installed in the space allotted for the same.

4.0 TECHNICAL PUBLICATIONS

The Contractor shall furnish the Owner three (3) copies of the maintenance and operational manual upon completion of the project. The manual shall be bound between hard covers and shall contain but is not limited to the installation and operating instruction, maintenance procedures, illustrations and drawings, detailed descriptions, tests, adjustments, safety precautions and parts list.

5.0 GUARANTEE AND SERVICE

The air conditioning equipment and accessories furnished/installed under this part of the specifications shall be guaranteed for a period of one (1) year from date of acceptance thereof, and materials and equipment furnished shall be free from any defects in the materials, workmanship, and design. At any time within the warranty period after acceptance and upon proper notice, the Contractor shall rectify all deficiencies including replacement of parts or the entire units without additional cost to the Owners/SSS, if such deficiencies have been caused directly or indirectly by inferior materials, faulty workmanship and/or defective design or parts. Expendable items such as oil, refrigerant, belts, filters, etc., are included in this one-year guarantee. During the guarantee period the Contractor shall perform free quarterly cleaning and servicing for all installed units and free monthly inspection for the proper and efficient operation of the system.

6.0 HOUSE KEEPING

Any damaged incurred during the activity shall be restored or repaired by the Contractor at his own expense and shall be done at the satisfaction of the client or SSS. Paint dropping and other stains relative to the project shall be removed from all areas. During the process of the work and on the completion of the project, the Contractor shall remove from premises all dirt, debris, rubbish, and waste materials caused by him in the performance of his work. He shall remove all tools, scaffolding and surplus materials after completion and acceptance of the work. All affected areas that will be damage for the access of roughing-in installation shall restored at its original state or conditions.

SECTION II: MECHANICAL WORKS

DESCRIPTION OF MECHANICAL WORKS:

The air-conditioning units shall be split-type. The fan coil units shall be ceiling cassette for 4TR and 3TR. The Compressor shall be rotary or scroll type compressor. The air-cooled condensing units shall be installed at the outdoor open deck and al fresco dining area.

WORKS INCLUDED:

In general, the work under this section shall include but is not limited to the following principal items:

- a. Supply, delivery and installation of split-type air conditioning units, complete with standard accessories per proposed plan layout with the following equipment details:

OUTDOOR UNIT	COOLING CAPACITY (kW)	INDOOR UNIT	TYPE	REMARKS
ACCU 101	4 TR	FCU 101	CEILING CASSETTE	PROPOSED UNIT
ACCU 102	4 TR	FCU 102	CEILING CASSETTE	PROPOSED UNIT
ACCU 103	4 TR	FCU 103	CEILING CASSETTE	PROPOSED UNIT
ACCU 104	4 TR	FCU 104	CEILING CASSETTE	PROPOSED UNIT
ACCU 105	4 TR	FCU 105	CEILING CASSETTE	PROPOSED UNIT
ACCU 106	4 TR	FCU 106	CEILING CASSETTE	PROPOSED UNIT

eh

ACCU 107	4 TR	FCU 107	CEILING CASSETTE	PROPOSED UNIT
ACCU 108	3 TR	FCU 108	CEILING CASSETTE	PROPOSED UNIT
ACCU 109	3 TR	FCU 109	CEILING CASSETTE	PROPOSED UNIT
ACCU 110	3 TR	FCU 110	CEILING CASSETTE	PROPOSED UNIT
ACCU 111	3 TR	FCU 111	CEILING CASSETTE	PROPOSED UNIT
ACCU 112	1.5 HP	FCU 112	WALL MOUNTED	PROPOSED UNIT

- b. Supply and installation of two (2) air curtains, two (2) ceiling exhaust fans and four (4) wall exhaust fans per proposed plan layout.
- c. Supply and Installation of Refrigerant Piping System (refer to manufacturer's recommendation for refrigerant pipe sizes), Hard drawn for ALL Units and shall be properly insulated. Supply and Installation of 1inØ Drainage Piping System, complete with fittings and essential accessories and rigidly secured with appropriate supports and mounting brackets.
- d. Fabrication and installation of FCU and ACCU platforms and refrigerant hangers.
- e. Fabricated platforms, mounting brackets, supports and other metal structures shall be painted with epoxy primer and finish with QDE paint suitable for outdoor application. Provide rubber pads for all mounting platforms.
- f. Furnish and installation of refrigerant, flushing agents and other consumables.
- g. Supply and installation of brand-new feeder line from Air-con Power Panel up to Outdoor Units including Enclosed Circuit Breakers (ECB's) and electrical field and control wiring system from indoor units up to outdoor units. Supply and installation of other electrical components that may not be included in the bill of quantities but necessary to complete the project.
- h. Supply and installation of materials and other services not mentioned but are necessary to be rendered to complete the installation of electro-mechanical equipments and facilities and all other works/services.
- i. Conduct appropriate testing and commissioning of all air-conditioning units and make sure that all mechanical and electrical parameters are operating in good working condition. Submit complete report of equipment operation supported with measured and recorded electrical and mechanical parameters obtained during the testing and commissioning.
- j. The contractor is required to perform/conduct complete maintenance servicing and cleaning of all brand-new A/C equipment within the warranty period.

DESCRIPTION OF MECHANICAL EQUIPMENT

1.0 AIR-COOLED CONDENSING UNITS

- a. Units shall have capacity and configuration as shown on the drawings and as manufactured by a reputable manufacturer. All units shall be furnished factory assembled, tested, and piped complete with compressors, fans, motors, integrally wired control panel, starters, appropriate vibration isolators, steel base, and refrigerant control accessories. Unit shall have heavy gauge corrosion protected weatherproofed casing.
- b. Compressors shall be scroll type and rated to operate at not more than 3,500 RPM at full load. Units shall be equipped with reversible oil pumps, shut-off valves, oil level sight glass, high- and low-pressure cut-outs, oil safety switches and crankcase heaters to control oil dilution during shut-down.
- c. Condenser coils shall be seamless copper with mechanically bonded aluminum plate fins. Coil size, refrigerant circuiting and number of rows deep shall be compatible with the compressor displacement and capacity at the specified operating conditions with minimum refrigerant pressure drop.
- d. Condenser fans shall be statically, and dynamically balanced propeller type fans directly driven by totally enclosed and inherently protected motors.

- e. Motor starters, control components and power terminal shall be grouped in an accessible control box inside the unit casing. Electrical components shall be pre-wired and control circuits shall be independently protected with fuses or breakers. Compressor protection shall include automatic relays to prevent excessive compressor short cycling.
- f. A complete operating charge of R-32 and compressor oil shall be furnished.

2.0 FAN COIL UNITS

- a. Units shall be ceiling mounted or suspended and wall mounted units as specified in the equipment schedule.
- b. Unit shall have capacity at the operating conditions specified. They shall include the evaporator coil, expansion valve, centrifugal type air circulation blower, permanent type air filter, condensate drip pans, and insulated decorative cabinet with discharge plenum, supply and return air grilles.
- c. Fan motors shall be equipped with overload protection.
- d. Provide appropriate layout for the drainage system based on the manufacturer's standard recommendations, provide common drain pipe header for the consolidated drainage system with at least 2inØ, complete with p-trap, clean-out and other fittings. Avoid using 90deg elbow or T-connectors.
- e. Individual drain system must be equipped with drain pumps and with appropriate clean-out fitting. Use 1inØ PVC pipe drain line as applicable.

BASIC MATERIALS AND METHODS

1.0 REFRIGERANT PIPING

- a. Refrigerant piping shall be type L, hard-drawn seamless copper, suitable for a working pressure of 1200-2600kPa/174-377psig for all units (refer to manufacturer's recommendation for refrigerant pipe sizes). Fittings shall be wrought copper or brass designed for use with high temperature solder and suitable for a working pressure of not less than 2413kPa/350psig. Joints from soldered to threaded joints shall be made with standard adapter fittings using high temperature solder. Pipes or tubing shall be cut accurately to measurements established at the building lines. All piping shall be laid straight, and no pipe shall be laid against other metal without insulation. After cutting, the tubing shall be reamed, all burrs removed, and the internal surfaces thoroughly cleaned. While soldering pipes and fittings together, a continuous flow of inert nitrogen gas must be applied to sweep the internal surface of the tubing to avoid the formation of oxide inside.
- b. Condensate drain piping shall be of PVC pipe and sized to liberally dispose of the condensate to the nearest floor drain. A P-trap with a clean out plugs shall be provided at the outlet for each drain pan.
- c. Pipe supports, and hangers shall be provided and fabricated in a workmanship manner out of steel angles, rods and flat bars. Metal to metal contact between pipes and hangers must be avoided by providing a 3mm. Thick rubber in between.
- d. Supports on horizontal lines shall be spaced at not more than 1.80 meters on center. All piping must be properly anchored so that no stress placed on equipment connection by expansion.
- e. Pipe sleeves shall be of standard PVC pipes with sufficient diameter to provide a minimum clearance of 6mm around the pipe and in case of insulated pipe approximately 6mm around the insulation. Pipe sleeves shall be installed whenever a pipe passes masonry or concrete and should not be permitted to pass through bearing walls, beams, or columns.

- f. Piping insulation shall be applied on all refrigerant suction and condensate drain lines. Insulation material shall be flexible elastomeric pipe insulation 2.5mm thick. Joints shall be sealed with appropriate contact adhesive. All refrigerant pipes shall be wrapped by polyethylene film cladding together with the wiring conduit.
- f. Refrigerant pipe sizes to be installed should be confirmed with the equipment supplier prior to installation at the job site.
- h. Upon completion of the installation, the entire refrigerant circuit shall be pressure and leak tested. Dry nitrogen gas should be used with a tracer of the type of refrigerant charge of the system. The high and low side shall be subjected to a pressure of 350 psig. These test pressures should be maintained for 24 hours, and any leaks found within the period must be immediately corrected. Leak detector to be used shall either be halide or electronic type. Dehydration should be in accordance with the equipment manufacturer recommendations. The triple evacuation should be employed bringing down the vacuum to 0.180-inch mercury absolute in each step or equivalent to 32° F indicated by the wet bulb vacuum indicator.

2.0 REFRIGERANT VALVES

- a. Refrigerant valves shall be installed in the suction and discharge lines adjacent to the compressor and on the liquid line discharge side of the condenser. The valves shall be wrought copper or brass for use with R-32, suitable for a working pressure of 2413kPa.
- b. Thermostatic expansion valves of the proper capacity shall be installed in the refrigerant supply line to the evaporator. They shall be of the diaphragm type, externally equalized and must be of such optimum size as to maintain a full active evaporator under all load conditions and yet reduce the possibility of flooding the refrigerant to the compressors during part load conditions.
- c. Dehydrators in combination with strainers shall be installed in the refrigerant line on the inlet side of the thermostatic expansion and solenoid valves. They shall have brass or copper bodies designed for a working pressure of 2413 KPa.
- d. Sight glasses shall be combination of liquid and moisture indicators and shall be installed in the refrigerant lines to indicate whether the systems are properly charged and or with dry refrigerant in the system.

3.0 CONTROL SYSTEM

- a. Operation of the air conditioning system shall be fully automatic. They shall be capable of maintaining at full or partial loads inside conditions of 25°C D.B. (plus or minus 1.11 C) and 50% relative humidity (plus or minus 5% RH). Room thermostat shall control the operation of the compressor thru relays.
- b. The controls shall be wired in such a way that whenever a condensing unit is in operation the fan coil unit is also in operation.
- c. The compressor crankcase heater must be of such capacity as to provide sufficient heat to the oil in the crankcase during inoperative periods so that serious oil foaming and slogging shall be prevented. The heater must be automatically energized whenever compressor operation stops and de-energized when the compressor starts.

4.0 WIRING

All electric power and control wiring necessary to be provided by the Contractor shall be accomplished in accordance with the requirements of the electrical plans and specifications and shall conform to the PEC. Wiring system including materials shall also comply with the Manufacturer's Recommendation.

5.0 PAINTING AND FINISHING

Pipe hangers, duct hangers, un-insulated piping and other ferrous metal work that have not received factory painting shall be thoroughly cleaned and apply two (2) coats of rust preventive paint such as epoxy primer or red oxide.

6.0 VIBRATION ABSORBING FOUNDATION

All items for mechanical equipment shall be properly isolated from the building structure by means of vibration absorbing foundation. Each foundation shall include an adequate number of standard vibration isolation units. The Contractor is advised to submit a shop drawing of the proposed steel platform for the condensing units at the roof that is signed and sealed by a structural engineer for approval by the Architect prior to fabrication.

7.0 TESTING AND BALANCING

Upon completion of installation and when the system is ready for operation, capacity and general test shall be conducted by a competent and experienced engineer to be furnished by the Contractor. These tests shall demonstrate the specified capacities of the equipment and in accordance with the manufacturer’s recommendation.

All instruments to be used shall be of the Industrial Grade, recently calibrated and of the proper type to suit the type of system being tested and balanced.

All piping shall be pressure tested at 1½ times the design working pressure. The pressure shall be held for 24 hours, and no pressure loss shall appear at the end of this period. All leaks shall be repaired and test repeated.

During this test, the Contractor shall demonstrate to the satisfaction of the Owner that all parts are installed correctly and operating properly. The Contractor shall be responsible for the satisfactory performance and all operating parameters such as temperature, current, voltage, electrical controls, etc.

SECTION III: FIRE PROTECTION WORKS

DESCRIPTION OF FIRE PROTECTION WORKS:

The Fire Protection works include the relocation of the existing sprinkler heads as per approved Reflected Ceiling Plan (RCP) layout.

DESCRIPTION OF WORKS:

In general, the work under this section shall include but is not limited to the following principal items:

- a. Supply and installation of new branchlines for the new fire protection layout. Dismantling of existing branchlines and sprinkler heads. Relocation of one (1) fire hose cabinet including testing and commissioning of the system.
- b. Supply and installation of new eighty six (86) pieces pendent sprinkler heads.

BASIC MATERIALS AND METHODS:

1.0 SPRINKLER HEADS

Sprinkler heads shall be pendent type, 155°F or 68°C rating, 5.6K, Quick Response Type with escutcheon plate UL, FM certified.

2.0 PIPING

Pipes shall be Black Iron Pipe, Schedule 40, ASTM A53, ERW, suitable for a working pressure of a maximum 300psi.

3.0 HANGERS AND SUPPORTS

Hangers shall be clevis hangers with approved sizes as per NFPA Standards.

4.0 PAINTING AND FINISHING

All pipings shall be painted with red oxide primer with two (2) coats of International Red Enamel finish by the fire protection contractor.

5.0 TESTING AND COMMISSIONING

All piping shall be pressure tested at 1½ times the design working pressure. The pressure shall be held for 24 hours, and no pressure loss shall appear at the end of this period. All leaks shall be repaired and test repeated.

LOT 2 – RENOVATION OF HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT

A. SCOPE OF WORKS

The work contemplated under this contract shall consist of the furnishing of all materials, labor, plant, tools and equipment, permits including the satisfactory performance of all work necessary for the complete execution of all the work as shown on the plans, specifications and other contract documents.

Materials deemed necessary to complete the work but not specifically mentioned in the specifications, working drawings or in the other contract documents are inferred, and shall be supplied and installed by the contractor without extra cost to the owner. Such material shall be of the highest quality available, installed and applied in workmanlike manner at prescribed or appropriate locations

1. General Requirements

- 1.1 Reproduction of construction plans and preparation/printing of signed-and-sealed as-built plans
- 1.2 Temporary Facilities: warehouse & barracks

2. Site Preparation

- 2.1 Dismantling of existing drywall partitions, masonry walls, glass windows, doors & jamb, cabinets, floor finishes, raised flooring, ceiling, concrete counters, electrical fixtures & accessories, wirings, air-conditioning units, supports, pipes and other installations/items affected by the renovation (refer to the plan).
- 2.2 Restoration / repair of damaged portions of flooring (cracks, crevices, holes) walls and other areas/surfaces affected by demolition & chipping works including leveling of flooring using self-leveling compound
- 2.3 Temporary board-up/site enclosure, protective covering for furniture/equipment and other safety requirements i.e. signages
- 2.4 Hauling & Disposal of waste/unusable materials, debris, etc.

3. Civil/Architectural Works

- 3.1 Wall
 - a) Reinforced Concrete Wall 6" thick (X-Ray Room)
 - b) Installation of new 6mm fiber cement drywall partition on metal studs framing (MPD & HCD Department Manager's Room, MPD Pantry, PMD Storage Rm, Central Supply Rm, Dental Clinic & Staff Area, Laboratory, Conference Room , HCD Storage Rm and ECG Rooms, HCD Pantry Backdrop and Treatment Room Side Wall) (Two Face)
 - c) Installation of 150mm Thk CHB Wall in Plain Cement Plaster (Painted Finish) (Pantry)

3.2 Ceiling

- a) Restoration / repair/ replacement of damaged portions of ceiling, alignment of framing including necessary support for portion of ceiling to be retained (MPD Pantry, MPD CR, MPD Storage, MPD Supply Room, ECG, HCD Pantry, X-Ray Reading Room, HCD Storage Area, HCD CR)
- b) Installation of acoustic ceiling board on CMT powder coated aluminum frame (Medical Program Department Staff, Department Manager (MPD), Health Care Department Staff Area, Department Manager Office (HCD), Dental Clinic Staff, Laboratory Staff, Conference Room) Acoustic Board, Fine Fissured design, 2' x 4' x 5/8" thk. ,CMT - Main Tee 1" x 1 1/2 " x 12' , CMT - Cross Tee 1" x 1" x 2',CMT – Wall angle 1" x 1" x 10', Hanger Rod, #8, Power load & Drive Pin (threaded),Steel angle 50mm x 50mm x 6mm thk, Concrete Nail, 1"
- c) Installation of Fiber cement board on CMT powder coated aluminum frame (Dental Clinic, laboratory, Treatment Room) Fiber Cement Board, 0.60m x 0.60m x 6mm (Moisture Resistant),CMT - Main Tee 1" x 1 1/2 " x 12' , CMT - Cross Tee 1" x 1" x 2', CMT – Wall angle 1" x 1" x 10', Power load & Drive Pin (threaded), Steel angle 50mm x 50mm x 6mm thk, Hanger Rod, #8, Concrete Nail, 1"
- d) Installation of Fiber cement board on light metal frames painted finish (Drop Ceiling @ Nurse Station, Hallway, Xray Room) Fiber Cement Board, 1.2m x 2.4m x 6mm (Moisture Resistant), Carrying Channel, 12mm x 38mm x 5m, ga.20, Double Furring Channel, 19mm x 50mm x 5m, ga.25, 1/8" x 3/8" (4-4) blind rivets, W-Clip, Suspension Clip & Rod Joiner #8, Power load & Drive Pin (threaded), Steel angle 50mm x 50mm x 6mm thk, Hanger Rod, #8, Ficem screw 1" (Needle pt.), Concrete Nail, 1"
- e) Provision of Cable Tray, Hangers, etc. including all necessary supports to complete the new ceiling works

3.3 Repair of Existing Doors

- a) Repair of existing doors and jambs and provision of door lockset, door closer, replacement of hinges including necessary works to complete the projects (WD-01, WD-04, WD-05)

3.4 Fabrication of Cabinet

- a) Fabrication and installation of overhead and counter cabinets (20mm thk Marine plywood 4' x 8', 0.60mm thick HPL 4' x 8', 1" x 1" x 8' wood edging, 2" x 4" x 8' KD Tanguile s4s, Stainless steel pull handle, Wood Glue, Concealed hinge, Expansion shield with lag screw, Assorted nails) (MPD Pantry, HCD Pharmacy, Dental Clinic, Laboratory, ECG, Control Room, Treatment Room)
- b) Repair and Repainting of Existing Cabinets and Replacement of hardware (Stainless steel pull handle, Concealed hinge, Expansion shield with lag screw) (MPD Pantry, MPD Staff Area, Laboratory)

4. Tile Works

- 4.1 Carpet tile 500mm x 500mm x 7mm thick - Conference Room
- 4.2 Installation of vinyl planks floor tiles (150mm x 900mm x 3mm, Apo wood grain finish) as indicated in the plan (Department Managers Office and OVP MSD)
- 4.3 Installation of floor and wall tiles at toilets including application of Cementitious Water Proofing (3 Coats) on flooring
- 4.4 Installation of Porcelain Tile on lavatory counters as indicated in the plan (Pantry, Dental Clinic, Laboratory)
- 4.5 Installation of Homogeneous Vinyl Tiles (300mm x 300mm x 3mm thk) - MPD Pantry, MPD Storage Rm, MPD General Office Area, Central Supply Room, DM Staff Area, HCD Pantry, HCD Storage Room, X-Ray Reading Room
- 4.6 Installation of Homogeneous 2mm thick PVC Vinyl Flooring with Seamless joint and Slip/wear/chemical resistant, including application of Self-leveling Primer, Self-Leveling compound and Adhesive - (HCD General Office Area, Lobby/Nurse Station, Dental Clinic, Dental Clinic Staff Area, Laboratory, Laboratory Staff Area, ECG Rooms 1 & 2, Treatment Room, Hallways, X-ray Room and Control Room, Waiting Area)

5. Wooden Doors, Glass Doors, Glass Windows and Glass Partition

- 5.1 Supply and Installation of Wooden Doors & Jambs including accessories

- a) WD-02 - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (2-Sets)
 - b) WD-03 - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver with 6mm fixed clear glass (200mm W x 800mm H) including door lockset, Door Closer and Stainless Hinges (3-Sets)
 - c) WD-06 - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (2-Sets)
 - d) WD-07 - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (1-Set)
- 5.2 Supply and Installation of Tempered Glass Door including accessories
- a) GD-01, GD-02, GD-06 Glass - Double Leaf Frameless Glass Doors (12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia. and Lockset. Complete w/ Patch Fittings, Hardware & Accessories, w/ Vinyl Frosted Sticker, cut-out vinyl sticker signage and stainless steel door stopper with rubber bumper (Executive/General Offices)
 - b) GD-03, GD-04, GD-05 - Single Leaf Frameless Glass Doors (12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia. and Lockset. Complete w/ Patch Fittings, Hardware & Accessories, w/ Frosted Sticker, cut-out vinyl sticker signage and stainless steel door stopper with rubber bumper (Executive/General Offices)
- 5.3 Supply and Installation of Tempered Glass Partition including accessories
- a) GSF/03, GSF/04, GSF/05, GSF/06, GSF/07, GSF/08, GSF/09, GSF/10- Glass Wall Partitions (6mm thk tempered fixed clear glass panel on powder coated aluminum framing (Executive/General Offices) with vinyl frosted Sticker
 - b) GSF/01 and GSF/02 - Glass Wall Partitions (12mm thk tempered fixed clear glass panel on powder coated aluminum perimeter framing and frameless on interior panel (Executive/General Offices) with vinyl frosted Sticker
- 5.4 Supply and Installation of Tempered Glass Window including accessories
- a) W-1 6mm thk x ± 1200 mm W x 1300mm H tempered fixed clear glass panel on powder coated aluminum perimeter framing (Laboratory Counter)
 - b) WD-2 Supply and Installation of 6mm thk x 600mm W x 1000mm H Tempered Clear Transom Glass (2-sets)
 - c) W-03, Replacement of Existing Damage Window Glass and Repainting of framing including application of structural clear sealant (Perimeter Window)
3 Units- Upper Glass (575mmH x 970mmW)
9 Units - Lower Glass (1185mmH x 970mmW)

6. Plumbing and Sanitary Works

6.1 Plumbing and Sanitary Fixtures

7. Painting Works

- 7.1 Surface preparation and application of paint including miscellaneous materials i.e. thinners, tinting colors, rags, paint brush, roller pan, putty, masking tape & other consumables
- 7.2 Drywall partitions -(Permacoat Flat Latex Paint ,1 Coat, Permacoat Semi-Gloss Latex Paint, 2 Coats
- 7.3 Concrete wall and column(Permacoat Flat Latex Paint ,1 Coat, Permacoat Semi-Gloss Latex Paint, 2 Coats
- 7.4 Painting of doors & jambs, cabinets and counter Lacquer primer surfacer,1 coat, Automotive Lacquer paint, 2 coats, Clear gloss lacquer paint, 2 coats
- 7.5 Painting of Ceiling (Permacoat Flat Latex Paint ,1 Coat, Semi-Gloss Latex Paint, 2 Coats

8. Specialty Works

- 8.1 Supply and installation of sunscreen roller shades on perimeter window transparency 1% - Rear Windows
- 8.2 W-02, Provision of viewing window at x-ray control room (Lead Glass with radiation shielded steel frame (10mm thk, x 1000mm H x 600mm W) @ 2.4mm Pb)

- 8.3 Supply and Installation of Black out Medical Curtain with 1" dia Stainless Curtain Rod and Hanger
- 8.4 Supply and Installation of Vinyl wallpaper, 0.3mm thick OVP-MSD
- 8.5 Supply and Installation of Laminates 1.5mm thick OVP-MSD
- 8.6 Supply and Installation of Wall Mounted Acrylic Office Signages 3mm thk. with 1/2" dia. Stand-off bolt Anchorage (Chrome finish)
 - a) Medical Program Department:(Storage Rm, Pantry, Comfort Rm.)
 - b) Health Care Department: (ECG Rm. 1 & 2, Central Supply Rm., Pantry, X-ray Rm., Control Rm, Storage Rm., X- ray Reading Rm., Comfort Rm., Warning Notice X-ray Rm. Door)
- 8.7 Supply and Installation of Ceiling Mounted Acrylic Office Signages 3mm thk on Stainless Steel Signage Hanger with adjustable Clip/Clamp
 - a) Medical Program Department:(Quality Assurance Section, Program Development Enhancement)
 - b) Health Care Department: (Extraction Area, X-Ray Rm, Laboratory Rm., Receiving of Specimen, Waiting Area, Employees Hospitalization Reimbursement Section, Department Manager)

9. Electro-Mechanical Works

- 9.1 Lighting layout
 - a) Conduit and Fittings
 - b) Boxes/Gutters with Cover
 - c) Wires/Cables/Wiring Devices
- 9.2 Panel Boards/ECB/Breakers
 - a) MPD-HCD
 - b) HCD Power Panel
 - c) ECB (MPD-HCD)
 - d) ECB (HCD-XRAY)
- 9.3 Conduits/ supports, boxes, cable trays, wire gutters, panel board covers, breakers, ECB, and other incidental items and consumable materials including other related works and activities to complete the project
- 9.4 Relocation of all affected FDAS devices, and paging including necessary wires, conduits
- 9.5 Air-Conditioning Layout to EE room
 - a) Conduit and Fittings
 - b) Boxes/Gutters with Cover
 - c) Wires and Cables
- 9.6 Air-con Outlet for window type, 230V, 3 Prong w/ grounding, flush mounted, parallel slot, complete with cover
- 9.7 Conduits/ supports, boxes, cable trays, gutters, other incidental items and consumable materials and other related works and activities to complete the installation.
- 9.8 Relocation of all existing affected air-conditioning units including other necessary works and materials needed to complete the installation
- 9.9 Supply and Installation of Air curtain complete set including necessary wirings, conduits and other materials and works to complete the functionality of the system

10) Structured Cabling Works

- 9.10 Installation of Cabling Components
- 9.11 Installation of Roughing-ins

B. WORKMANSHIP

The work throughout shall be executed in the best and most thorough manner under the direction of and to the satisfaction of the SSS Engineer or Representative who will interpret the meaning of the drawings and specifications and shall have the authority to reject any

works and materials, which in their judgment, are not in full accordance therewith required phases of work shall be done by skilled and competent men who are engaged or specialized in the type of work specified.

C. SITE EXAMINATION

Prospective bidders are required to conduct site inspection before the submission and opening of bid to determine all incidental materials and activities that are necessary to be furnished and executed to complete the project.

Examine the site premises and all conditions apparent and visible therein. Consider all such conditions that may affect work. Measure every existing work/structure at site. Verify all given dimensions and deviations in the plans/drawings and Bill of Quantities. It shall be understood that the work covers all exposed external surface regardless of measurements made.

D. PROTECTION OF WORK AND PROPERTY

The contractor shall ensure protection of existing structures, properties and other areas not affected by the work specified. Any damage incurred during the activity shall be restored/repaired by the Contractor at their own expense, and it shall be done in a satisfactory and approved manner.

Place warning signs where work is being undertaken. Remove work materials damaged by failure to provide protection, and replace with new work materials at no cost to the Owner.

E. SUBMITTALS

The Contractor shall submit samples of finishes, furnished materials and equivalent materials for approval of SSS Implementing Unit prior to installation or application.

F. QUALITY OF MATERIALS

All materials shall be new, free from defects, passed and conformed to International Standard and Philippine Standard set forth by Bureau of Product Standards - Department of Trade and Industry.

G. CLEANING

Leave premises clean, neat and orderly. Remove all excess materials, soil, used containers, tools, equipment and supplies out of the SSS premises during the progress of work and upon completion of work.

H. AS-BUILT PLAN AND ELECTRONIC FILE

Three (3) sets as-built plans (11" x 17" or A3 paper size) duly signed and sealed by the Contractor's Civil Engineer or Architect.
The contractor shall likewise submit electronic file copy of as-built plan using AutoCAD software on USB Flash Drive.

I. MATERIAL SPECIFICATIONS

PARTICULARS	DESCRIPTION	REMARKS
1.Civil / Architectural Works		
A. Carpentry Works		
Reinforce Concrete Wall (X-Ray Room)	- 150mm Thk Reinforce concrete wall On 10mm dia reinforce steel bars	-Class A mixture -Grade 40 (12mm below)

<p>Drywall Partition Two Face</p> <p><i>(MPD & HCD Department Manager's Room, MPD Pantry, PMD Storage Rm, Central Supply Rm, Dental Clinic & Staff Area, Laboratory, Conference Room , HCD Storage Rm and ECG Rooms, HCD Pantry Backdrop and Treatment Room Side Wall)</i></p>	<ul style="list-style-type: none"> -6mm thick fiber cement board -Metal Tracks top and bottom (Gauge 24) -Metal Studs (Vertical and Horizontal Framing) (Gauge 24) 	<ul style="list-style-type: none"> -Fiber Cement Board -Metal Track -Metal Stud
<p>Concrete Hollow Blocks Wall on Cement Plaster <i>(Pantry)</i></p>	<ul style="list-style-type: none"> -150mm CHB - 25mm Thk Plaster Finish both sides - 10mm dia Reinforcement steel bar space every 3-layers hor. and 600mm Vert. 	<ul style="list-style-type: none"> -Non-load bearing blocks -Class A mixture (Cement mortar) -Grade 40 (Reinforcement 12mm below)
<p>Restoration / repair/ replacement of damaged portions of ceiling, alignment of framing including necessary support for portion of ceiling to be retained</p> <p><i>(MPD Pantry, MPD CR, MPD Storage, MPD Supply Room, ECG, HCD Pantry, X-Ray Reading Room, HCD Storage Area, HCD CR)</i></p>	<ul style="list-style-type: none"> -reuse existing acoustic board -Carrying Channel, 12mm x 38mm x 5m, ga.20, (Additional support) - Double Furring Channel, 19mm x 50mm x 5m, ga.25 (Additional support) - W-Clip -# 16 G.I. Tie Wire 	<ul style="list-style-type: none"> -Use additional frame or approved equivalent -Ensure proper alignment and provide necessary support
<p>Installation of acoustic ceiling board on CMT powder coated aluminum frame</p> <p><i>(Medical Program Department Staff, Department Manager (MPD), Health Care Department Staff Area, Department Manager Office (HCD), Dental Clinic Staff, Laboratory Staff, Conference Room)</i></p>	<ul style="list-style-type: none"> - 5/8" thk. Acoustic Board - CMT - Main Tee 1" x 1 1/2 " x 12' - CMT - Cross Tee 1" x 1" x 2', CMT – Wall angle 1" x 1" x .5mm x 10' - Hanger Rod, #8, - Powerload & Drive Pin (threaded) - Steel angle 50mm x 50mm x 6mm thk 	<ul style="list-style-type: none"> -Fiber Cement Board -CMT products or approved Equivalent
<p>Installation of Fiber cement board on CMT powder coated aluminum frame</p> <p><i>(Dental Clinic, laboratory, Treatment Room)</i></p>	<ul style="list-style-type: none"> - 6mm thk Fiber Cement Board (Moisture Resistant) - CMT - Main Tee 1" x 1 1/2 " x 12' - CMT - Cross Tee 1" x 1" x 2', CMT – Wall angle 1" x 1" x 10' - Powerload & Drive Pin (threaded) - Steel angle 50mm x 50mm x 6mm thk, - Hanger Rod, #8, 	<ul style="list-style-type: none"> -Fiber Cement Board -CMT products or approved Equivalent
<p>Installation of Fiber cement board on light metal frames <i>(Drop Ceiling @ Nurse Station, Hallway, X-ray Room)</i></p>	<ul style="list-style-type: none"> - 6mm Fiber Cement Board (Moisture Resistant) - Carrying Channel, 12mm x 38mm x 5m, ga.20, - Double Furring Channel, 19mm x 50mm x 5m, ga.25 - W-Clip - Suspension Clip & Rod Joiner #8 - Power load & Drive Pin (threaded) - Steel angle 50mm x 50mm x 6mm thk - Hanger Rod, #8 	<ul style="list-style-type: none"> -Fiber Cement Board -CMT products or approved Equivalent
<p>Repair of existing doors and jambs and provision of door lockset, door closer, replacement of hinges <i>(WD-01, WD-04, WD-05)</i></p>	<ul style="list-style-type: none"> - Door Jamb (refer actual dimension on site) - Soft close door closer - lever type door knob - Stainless Steel Hinges 	<ul style="list-style-type: none"> -Good Lumber S4S KD Jamb -Submit swatches and/or brochure

Fabrication and installation of overhead and counter cabinets <i>(MPD Pantry, HCD Pharmacy, Dental Clinic, Laboratory, ECG, Control Room, Treatment Room)</i>	<ul style="list-style-type: none"> - ¾" thk Plywood - 0.60mm thick HPL - 1" x 1" x 8' wood edging - 2" x 4" x 8' KD Tanguile s4s, - Stainless steel pull handle - Concealed hinge - Expansion shield with lag screw, 	<ul style="list-style-type: none"> -Marine Plywood -HPL -Submit swatches and/or brochure
Repair and Repainting of Existing Cabinets and Replacement of hardware <i>(MPD Pantry, MPD Staff Area, Laboratory)</i>	<ul style="list-style-type: none"> - Stainless steel pull handle, - Soft close Concealed hinge - Expansion shield with lag screw 	-Ensure proper alignment of accessories and provide necessary support
B. Tile Works		
Carpet tile <i>(Conference Room)</i>	<ul style="list-style-type: none"> - 500mm x 500mm x 7mm thick - Adhesive 	-Submit swatches and/or brochure
Installation of vinyl planks floor tiles <i>(Department Managers Office and OVP MSD)</i>	<p>152.4mm x 914mm x 3mm thick composite vinyl planks flooring, wood grain finish'</p> <p>Vinyl tile adhesive</p>	-Submit swatches and/or brochure
Installation of floor and wall tiles at toilets including application of Cementitious Water Proofing (3 Coats)	<ul style="list-style-type: none"> - 300 x 300 Ceramic Tile - Cementitious water proofing (3 coats) - Cement 	-Submit swatches and/or brochure
Installation of Porcelain Tile on lavatory counters <i>(Pantry, Dental Clinic, Laboratory)</i>	<ul style="list-style-type: none"> - 1200mm x 600mm Porcelain Tile - Tile Adhesive 	-Submit swatches and/or brochure
Installation of Homogeneous Vinyl Tiles <i>(MPD Pantry, MPD Storage Rm, MPD General Office Area, Central Supply Room, Dm Staff Area, HCD Pantry, HCD Storage Room, X-Ray Reading Room)</i>	<ul style="list-style-type: none"> - Homogeneous Vinyl Tiles 300mm x 300mm x 3mm thk - Vinyl Adhesive 	-Submit swatches and/or brochure
Installation of Homogeneous PVC Vinyl Flooring <i>(HCD General Office Area, Lobby/Nurse Station, Dental Clinic, Dental Clinic Staff Area, Laboratory, Laboratory Staff Area, ECG Rooms 1 & 2, Treatment Room, Hallways, X-ray Room and Control Room, Waiting Area)</i>	<ul style="list-style-type: none"> - 2mm thick PVC Vinyl Flooring - Seamless joint and Slip/wear/chemical resistant - Self-leveling - Vinyl Adhesive 	-Submit swatches and/or brochure
<p>Surface preparation for vinyl works:</p> <ul style="list-style-type: none"> - Clean off loose materials such as dust, rust, old adhesive or anything that can be manually removed by using a broom, a chisel, scraper, sandpaper or steel brush. - Repair voids, cracks, nicks, holes, etc. with the proper patching/sealant material or same material as the surface finish. <p>All areas to be vinyl must be dry and thoroughly clean.</p>		
C. Wooden Doors, Glass Doors, Glass Windows and Glass Partition		
Installation of Wooden Doors with Louver WD-02	<ul style="list-style-type: none"> - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including 	- 2" x 6" Door Jamb, S4S KD

WD-03,	<p>door lockset, Door Closer and Stainless Hinges</p> <ul style="list-style-type: none"> - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver with 6mm fixed clear glass (200mm W x 800mm H) including door lockset, Door Closer and Stainless Hinges 	<p>-Submit sample / swatch and/or brochure</p> <p>-2" x 6" Door Jamb, S4S KD</p>
WD-06,	<ul style="list-style-type: none"> - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges 	<p>-Submit sample / swatch and/or brochure</p> <p>-2" x 6" Door Jamb, S4S KD</p>
WD-07	<ul style="list-style-type: none"> - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges 	<p>-Submit sample / swatch and/or brochure</p> <p>-2" x 6" Door Jamb, S4S KD</p> <p>-Submit sample / swatch and/or brochure</p>
Double Leaf Frameless Glass Doors (GD-01, GD-02, GD-06)	<ul style="list-style-type: none"> - 12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia. and Lockset. Complete w/ Patch Fittings, Hardware & Accessories, w/ Vinyl Frosted Sticker 	<p>Any supplier and Submit sample/brochure /swatches for the following:</p> <ul style="list-style-type: none"> - Aluminum frame - Lockset - Door handle - Vinyl sticker - Vinyl cut-out sticker
Single Leaf Frameless Glass Doors (GD-03, GD-04,GD-05)	<ul style="list-style-type: none"> - 12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia and Lockset. Complete w/ Patch Fittings, Hardwares & Accessories, w/ Frosted Sticker and cut-out vinyl sticker signage 	<p>Submit sample/brochure /swatches for the following:</p> <ul style="list-style-type: none"> - Aluminum frame - Lockset - Door handle - Vinyl sticker - Vinyl cut-out sticker

Glass Wall Partitions (GSF/03, GSF/04, GSF/05, GSF/06, GSF/07, GSF/08, GSF/09, GSF/10)	<ul style="list-style-type: none"> - Glass Wall Partitions (6mm thk tempered fixed clear glass panel on powder coated aluminum framing (Executive/General Offices) with vinyl frosted Sticker 	Submit sample/brochure /swatches for the following: <ul style="list-style-type: none"> - Aluminum frame - Lockset - Door handle - Vinyl sticker - Vinyl cut-out sticker
Frameless Glass Wall Partitions (GSF/01 and GSF/02)	<ul style="list-style-type: none"> - 12mm thk frameless tempered glass - Powder coated aluminum perimeter frame - Structural silicon sealant 	Submit sample/brochure /swatches for the following: <ul style="list-style-type: none"> - Aluminum frame - Lockset - Door handle - Vinyl sticker - Vinyl cut-out sticker
Tempered Glass Window (W-1, W-2, W-03)	<ul style="list-style-type: none"> - 6mm thk tempered clear glass on powder coated aluminum frame - Structural silicon sealant 	Submit sample/brochure /swatches for the following: <ul style="list-style-type: none"> - Aluminum frame - Lockset - Door handle - Vinyl sticker - Vinyl cut-out sticker
D. Plumbing and Sanitary Works		
Sanitary Fixtures and Accessories		
<ul style="list-style-type: none"> - Water closet with tank with fittings & accessories 	Elongated Bowl Shape, 4 lit / flush-Solid waste tank w/ Seat Cover, Color: White Stainless Angle Valve Stainless Flexible Hose	- submit brochure for approval
<ul style="list-style-type: none"> - Wall hung lavatory complete with fittings and accessories 	wall hung type w/ lavatory bracket Stainless Angle Valve Stainless Flexible Hose	- submit brochure for approval
<ul style="list-style-type: none"> - Wall Hung Urinal w/ Push Button Flush, w/ complete fittings & accessories 	Flush valve type with water spreader, urinal bracket Stainless Flexible Hose	- submit brochure for approval
<ul style="list-style-type: none"> - Under counter lavatory 540 x 425 x 170mm, complete with fittings and accessories 	Stainless Steel (304) Under counter lavatory Stainless Angle Valve Stainless Flexible Hose Stainless Pop-up drain Stainless P-trap, etc	- submit brochure for approval
<ul style="list-style-type: none"> - Lavatory Faucet, stainless 	Stainless Steel Single faucet	- submit sample for approval

<ul style="list-style-type: none">- Portable Stainless Steel Sink with Cabinet with complete accessories- Stainless Kitchen Sink (SS 304) (Dental Clinic and Laboratory)- Goose Neck faucet, stainless, complete with fittings & accessories (Dental Clinic, Laboratory and Treatment Room)- Handheld Bidet, stainless- Soap Holder, stainless- Tissue Holder, stainless- Floor drain, stainless- Facial Mirror, 6mm thick x 600mm x 800mm with aluminum frame and backing board- Repair/replace damaged plumbing/sanitary lines and Provision of new sanitary and waterlines and tapping from nearest tapping point for Treatment room	<p>Stainless Steel (304) Stainless Angle Valve Stainless Flexible Hose Stainless Pop-up drain Stainless P-trap, etc</p> <p>Stainless Steel (304)</p> <p>Stainless Steel (304) Stainless Angle Valve Stainless Flexible Hose Stainless Pop-up drain Stainless P-trap, etc</p> <p>Stainless Steel (304)</p> <p>Stainless Steel (304)</p> <p>Stainless Steel (304) Drain 4x4</p> <p>6mm THK Mirror, Frameless, w/ ¼” THK Marine Plywood Backing</p> <p>- uPVC, Series 1000 (Orange), Size depends on the design / plan</p> <p>- uPVC, Schedule 40 (blue), Size depends on the design/ Plan</p>	<p>- submit brochure for approval</p> <p>Submit Sample for Approval</p> <p>Submit Sample for Approval</p> <p>- submit sample for approval</p> <p>- submit sample for approval</p> <p>- submit sample for approval</p> <p>- submit sample for approval</p> <p>- submit sample for approval</p>
E. Painting Works		
Drywall partitions and claddings	<ul style="list-style-type: none">-flat latex primer (1 coat)-acry color-semi-gloss latex topcoat (2 coats)-gypsum putty	Submit paint swatches and/or brochure
Concrete wall and column	<ul style="list-style-type: none">- latex primer (1 coat)- semi-gloss latex (2 coat)	
Painting of doors & jambs, cabinets and counter	<ul style="list-style-type: none">- lacquer primer (1 coat)- automotive lacquer paint (2coats)-clear gloss lacquer (2coats)	
Painting of ceiling	<ul style="list-style-type: none">- latex primer (1 coat)- semi-gloss latex (2 coat)	
Surface preparation for painting works: <ul style="list-style-type: none">- Clean off loose materials such as dust, rust, old paint or anything that can be manually removed by using a broom, a chisel, scraper, sandpaper or steel brush.		

<p>- Repair voids, cracks, nicks, holes, etc. with the proper patching/sealant material or same material as the surface finish. All areas to be painted must be dry and thoroughly clean.</p>		
F. Specialty Works		
Sunscreen Roller Shades	<p>Hardware and Mechanism:</p> <ul style="list-style-type: none"> - Roll-up Polyester/Polymer Shade - Chain Operated roller system with #10 plastic bead chain operating loop - Universal mounting brackets (includes hardware and accessories). - Provide headrail where applicable. - Extruded aluminum roller tube made with alloy 6063-T5 Standard Roll - (White Color – Series 5000) <p>Sunscreen Fabric Specifications:</p> <ul style="list-style-type: none"> - Composition : 30% Polyester, 70% PVC - Openness Factor : 1% - Width : 200cm / 250cm - Length : Approx. 30m/roll - Thickness : 1.08mm - Weight: 810g/m2 ±5% - Tensile Strength : warp 291.5kg/weft 100.3kg - Tearing Strength : warp 10.9kg /weft 5.8kg - UV Blockage : 98% - Fire Rating : U.S.A. NFPA 701 - Color Fastness (AATCC16-2003): Class 4.5 - Environmental Certifications : Oeko-Tex ® Standard 100 	Submit mock-up units, fabric sample and brochure
Provision of viewing window at x-ray control room	<ul style="list-style-type: none"> - Lead Glass with radiation shielded steel frame - Lead film 2.4mm Pb - Tempered clear glass 	Submit mock-up units sample and brochure
Medical Curtain	<ul style="list-style-type: none"> - Retractable black out curtain - 1" dia curtain rod (stainless steel) 	Submit sample / swatches and/or brochure
Wall Paper (OVP-MSD)	<ul style="list-style-type: none"> -0.3mm thick vinyl wall paper -vinyl wall paper adhesive 	Submit sample / swatches and/or brochure
<p>Wall Mounted Acrylic Offices Signage</p> <p>a. Medical Program Department:(Storage Rm, Pantry, Comfort Rm.)</p> <p>b. Health Care Department: (ECG Rm. 1 & 2, Central Supply Rm., Pantry, X-ray Rm., Control Rm, Storage Rm., X- ray Reading Rm., Comfort Rm., Warning Notice X-ray Rm. Door)</p>	<ul style="list-style-type: none"> -3mm Thk acrylic panel -1/2" dia. Stand-off bolt (Chrome Finish) 	<p>Submit sample for approval:</p> <ul style="list-style-type: none"> -Vinyl Sticker -Stand-off bolt
Ceiling Mounted Acrylic Offices Signage	-3mm Thk acrylic panel	Submit sample for approval:

a. Medical Program Department:(Quality Assurance Section, Program Development Enhancement) b. Health Care Department: (Extraction Area, X-Ray Rm, Laboratory Rm., Receiving of Specimen, Waiting Area, Employees Hospitalization Reimbursement Section, Department Manager)	-Stainless Steel ceiling-mounted signage hanger with adjustable clip/clamp	-Vinyl Sticker -Signage hanger
4.Electro Mechanical Works (w/ separate technical specifications)		
5.Structured Cabling Works (w/ separate technical specifications)		

Materials and work deemed necessary to complete the project but not specifically mentioned in the Specifications, working drawings or in the other contract documents are inferred and shall be supplied, installed and rendered by the contractor without extra cost to the owner. Such material shall be of the highest quality available, installed and applied in workmanlike manner at prescribed or appropriate locations.

ELECTRICAL WORKS

1.0 GENERAL CONDITIONS:

13. All electrical works shall comply with the plan and specification in accordance with the latest edition of the Philippine Electrical Code (PEC).
14. The contractor shall be responsible for the coordination in securing all necessary permits and requirements in the renovation works.
15. Rough-in layout concealed between walls and exposed above ceiling shall be IMC and/or Polyvinyl Chloride (PVC) pipes and properly secured with clamps/ mounting supports.
16. PVC pipe fitting layout shall be provided with appropriate PVC adapter with locknut and glued with PVC solvent and properly anchored with clamps/ supports.
17. Minimum size of conduit to be used shall be 15mm and 20mm diameter for IMC and PVC, respectively.
18. Minimum size of conduit for long runs exceeding 270º bends shall be 20mm diameter and pull box shall be provided as necessary.
19. Color coding for wiring installations shall be as follows:

For Normal Power Circuits
-
Line 1 - Black wire, 230 VAC
Line 2 - Red wire
Ground - Green wire

For UPS Power Circuits
-
Line 1 - White wire, 230 VAC
Line 2 - White wire
Ground - Green wire
7. Color coding for receptacle outlet device plate covers shall be follows:

For Normal Power Circuit
-
Beige color

For UPS Power Circuits
-
White color
8. All new wiring installations shall be tested and measured parameters shall be recorded and submitted accordingly.

9. Receptacle outlets shall be installed 300mm above finished floor level.
10. Labeling / marking for the proposed branch circuit as indicated in the drawing and panel board directory prior to turnover to the owner.
11. All materials and equipment to be use shall be brand new and must be of the approved type and intended application.
12. Prepare load schedule for all new installations, if necessary incorporate with the existing load schedule and provide legible markings between new and existing schedule of load.

k.

I.

2.0 ELECTRICAL MATERIAL SPECIFICATIONS:

1. CONDUITS & FITTINGS

Materials	Specifications
c. PVC Pipe	20mmØ, 32mmØ PVC Pipe
d. IMC Pipe	32mmØ, 65mmØ IMC Pipe
e. Flexible Metal Conduit with Straight Connector	20mmØ Flexible Metal Conduit

2. BOXES / GUTTERS WITH COVERS

Materials	Specifications
d. Junction Box	2" x 4", steel sheet gauge 16
e. Utility Box	(4X2) Deep Type , GA #18
f. Square Box	G.I. 4ins x 4ins, deep type, w/ cover

3. WIRES / CABLES & DEVICES

Materials	Specifications
h. 175.0 mm², 38.0 mm² , 30.0 mm², 22.0 mm² , 8.0 mm² , 5.5 mm² , 3.5 mm² THHN/THWN	Stranded wire PVC insulated, nylon jacketed, Moisture and Heat Resistant, 600V, 90°C maximum operating temp., Lead Free, Gasoline Resistant, Flame Retardant
i. Convenience outlet (for UPS power)	Duplex, 15Amp, 230VAC, 3-prong, parallel slot, complete with white plate and cover

eh

j. Convenience outlet (for Normal power)	Duplex, 15Amp, 230VAC, 3-prong, parallel slot, complete with beige plate and cover Floor mounted Duplex Convenience Outlets with ground, 20A, 240V
k. Convenience outlet (for Portable Emergency / Exit Lights)	Single Outlet, 230VAC, parallel slot, complete with plate and cover
l. Pop-up floor mounted outlet	Pop-up Floor Mounted, Convenience Outlet, Duplex, 15A, 230V, duplex. grounding universal with safety shutter
m. Switch	Single pole, 15Amp, 230VAC, 60Hz, complete with plate and cover (for one, two & three gang) Three-way switch, 230VAC, 60Hz, complete with plate and cover
n. Lighting Fixture	Recessed Lighting Fixtures,T8, 2x18watts LED, 1620 lumens with built-in driver, bi-pin terminal, 200-250VAC, 60Hz., 140 deg. beam angle (min.), 50,000 burning hours, (600x1200)mm, with aluminum large cell parabolic louver type, anodized reflector, cool daylight, complete with essential wiring Recessed Lighting Fixtures,T8, 1x18watts LED, 1620 lumens with built-in driver, bi-pin terminal, 200-250VAC, 60Hz., 140 deg. beam angle (min.), 50,000 burning hours, (200x1200)mm, with aluminum large cell parabolic louver type, anodized reflector, cool daylight, complete with essential wiring
o. Downlight Fixture	Down Lighting Fixture, Recessed Type, Spun Aluminum with 12watts LED Lamp, 6" dia. Clear Glass complete with essential wirings and standard accessories
p. Track bar with track lights	LED Track Light with track bar, 7W, 220V warm white
q. Cove lighting	Cove lighting, 14 watts, 230V, 60Hz, T5 LED tube, tri color (Day light, warm white, cool white)
r. LED Strip light	LED Strip light, 9W, 220V, day light
s. Rechargeable Portable Emergency Light	10W, 6Vdc with back-up battery rechargeable, LED Bulb
t. Exit & Fire Exit Signage	5W, 6Vdc with back-up battery rechargeable, LED Bulb

u. Exhaust Fan	Tubular Type Exhaust Fan, Ceiling Mounted, 40W, 230Volts, 60Hz
----------------	--

4.

CONDUIT SUPPORTS & OTHER MISCELLANEOUS & INCIDENTAL MATERIALS

REQUIRED TO COMPLETE THE INSTALLATION

Materials	Specifications
d. Conduit support	Threaded bar with Grip Anchor
e. Conduit clamp	U-bolts/ strapped
f. Mounting of conduit	Angular bar, 1 ¼' x 1 ¼" x ¼"

5. CIRCUIT BREAKERS / PANEL

.0

Materials	Specifications
a) Enclosed Circuit Breaker (ECB)	<p>1 - 100Ampere, 3-Pole, 230VAC, 60Hz, 32kAIC, Bolt-on, Industrial Type, Surface Mounted, NEMA-1</p> <p>1 - 300Ampere, 3-Pole,230 VAC, 60Hz, 50kAIC, Bolt-on, Industrial Type, Surface Mounted, NEMA1</p>
b) Main Distribution Panel (MDP)	<p>Main: 300Ampere, 3-Pole, 230VAC, 60Hz, 50kAIC, NEMA-1</p> <p>Branches:</p> <p>1- 125Ampere, 3-Pole, 230VAC, 60Hz,25kAIC</p> <p>3- 100Ampere, 3-Pole, 230VAC, 60Hz, 25Kaic</p> <p>Surface Mounted, Bolt-on, Industrial Type, w/ grounding terminal block, powder coated gray paint</p>
c) HCD Power Panel (HCD PP)	<p>Main: 125Ampere, 3-Pole, 230VAC, 60Hz, 25KAIC, NEMA-1</p> <p>Branches:</p> <p>6- 30A, 2P, 230VAC, 60Hz, 18kAIC</p> <p>12 – 20A, 2P, 230VAC, 60Hz,(SPARE)</p> <p>.0Surface Mounted, Bolt-on, Industrial Type, w/ grounding terminal block, powder coated gray paint</p>

3.0 SCOPE OF WORKS: Electrical Works

1.
- The service provider/ contractor is *required* to conduct site inspection together with the Building Administration and EFMD Engineer or SSS representative to determine the nature and extent of

eh

necessary works, materials, services and consider these essential and incidental requirement in the implementation of the project.

2. The contractor shall be responsible for the thorough coordination with the concern parties and secure of all necessary work permits that maybe required for the project.
3. All works shall be properly coordinated with the Building Owner or SSS representative to discuss all phases of the works/ activities.
4. Any changes and/ or modifications of the materials specification and work orders shall be subject to discussion with involve parties to address any conflicts before proceeding to the said changes prior to the approval of the Building Owner and the SSS representative.
5. Dismantle of *a//* electrical wiring devices, panels, conduits, wirings and other existing layout not necessary for the new office design/ layout. All dismantled materials shall be turned-over to the assigned SSS representative for proper safekeeping.
6. Supply and installation of brand new electrical fixtures and devices complete with essential electrical wiring's, conduits and fittings for the power supply as indicated in the plan of the following fixtures and devices:
 - a. Switches
 - b. Direct Lighting Fixtures
 - c. Down Light Fixtures
 - d. Portable Emergency Lights
 - e. Exit signage
 - f. Exhaust fan
 - g. Air Curtain
 - h. Duplex convenience Outlets (Parallel Slot with ground)
 - i. Floor Mounted Outlet
 - j. LED T5 and strip lights (for cove lighting)
 - k. Xray warning light
 - l. Track bar with Track lights
7. Relocation of all affected paging and FDAS devices including necessary wires and pipes to complete the works
8. Supply and installation of other incidental materials relative to other related works and activities to complete the installation and shall be shouldered to the sole account of the contractor.
9. Conduits, cable trays, wire gutters and boxes shall be installed with appropriate supports and fittings and shall be rigidly secured using appropriate materials. Panel directory shall be properly labeled.
10. Relocation of all affected AC diffusers and returns including aluminum ductings and other necessary materials/accessories and works to complete the installation.
11. Repainting of all existing diffusers and returns.
12. Relocation of all existing affected sprinklers including pipes, elbow and necessary materials and works to complete the installation.
13. Relocation of all existing affected airconditioning units including other necessary works and materials needed to complete the installation.

14. Supply and Installation of Air curtain complete set including necessary wirings, conduits and other materials and works
15. All areas affected during implementation of the project by chipping, dismantling, relocation works and other related activities shall be restored to original condition at the owner's satisfaction at no additional cost to the SSS.
16. Supply of labor, materials and devices that are *essential* for the completion of the project, may it be mentioned or not in the Terms of Reference (TOR), specified or not in Bill of Quantity (BOQ) and proposed plan layout.
17. Preparation and submission of blue print as-built plans in standard size (20inx30in) duly signed and sealed by the Professional Practitioners (Electrical Engineer).
18. Testing and commissioning of electromechanical equipment and facilities and submission of the start-up operation test result of the installed air-conditioning units.

4.0 PERMITS AND FEES

1. The work under this contract shall be in accordance to the latest requirements of the following:
 - Philippine National Building Code
 - Philippine Electrical Code
 - Local Utility Company

Nothing contained in these specifications or shown on the drawings shall be construed as to conflict with the National and Local ordinances and these mentioned ordinances are hereby made part of this specification.
2. All permits and electrical fees required in this work shall be obtained by and at the expense of the contractor. The Engineer shall be furnished by the contractor, the copy of the final certificate of electrical completion and approval by the government authorities.
3. During the progress of work, the contractor shall keep a record of all changes where the actual installation differs from that shown in the contract drawings. Upon completion, the contractor shall finalize the "as-built" drawings on tracing paper and submit to the Engineer for approval before reproduction.

5.0 SUBMITTALS

1. Manufacturer's data, shop drawings and samples required for the specific materials shall be submitted for approval to the Engineer prior to procurement and delivery to job site.
2. Manufacturer's data shall be descriptive item catalog cut which shall include the manufacturer's name, trade name, model number, name plate data, and others.
3. Shop drawings when required shall show type, size, sectional view, installation details, and elementary and wiring diagrams.
4. A certified test results for specific items when deemed necessary shall be submitted to the Engineer by the Contractor.
5. Manufacturer's data or samples should be submitted of the following items:
 - Conduits and Fittings
 - Boxes and Accessories
 - Wires and Cables
 - Other items required by the Engineer

6.0 STANDARD OF MATERIALS

All materials to be used in this installation shall be of high quality, free to any defect and of proven acceptability for the purpose it is intended for application. It shall conform to the latest applicable standards of the following:

- Philippine Electrical Code
- ASTM and NSC
- PEC and NEC

6.1 Raceways, Conduit Pipes and Fittings

6.1.1 Polyvinyl Chloride (PVC)

PVC conduits conforming to recognized standards for conduit as manufactured by Matsushita or approved equal.

6.1.2 Outlet Boxes and Covers

Terminations of pipes to outlet boxes shall be provided with suitable fitting and other devices especially designed for the purpose.

- Receptacles : 2" x 4" x 2.5"
- Pull Boxes : depends on the number of conductor to occupy the boxes

6.2 Conductors, Wires and Cables

All wires and cables shall be copper, soft drawn and annealed with ninety-eight (98%) percent conductivity. For power systems, the conductors shall be thermoplastic and insulated to withstand a working pressure rated at 230 Volts, THHN/THWN type as indicated in the drawings. The feeder lines to panel boards shall be heat and moisture resistant, with size as indicated in the drawings.

The minimum size to be used in the installation shall be #3.5 mm sq. except for the controls where #2.0 mm sq. may be allowed. All conductors from sizes of #3.5 mm sq. or larger shall be stranded for additional flexibility while in transit inside pipe.

All wires and cables described above shall be of reputable manufactures.

6.3 Electrical and Wiring Devices

6.3.1 Wall Receptacles

Wall receptacles shall be of conventional type with an ampere rating of 15A, 230V, duplex, flush mounted. The mounting height shall be 300 mm above floor finish. It shall be as manufactured by National, Jimbo, Toshiba or approved equal.

6.3.2 Wall Plates for Switches and Receptacles

Wall plates for receptacles, in regards to colors shall be the sole choice of the Engineer. The brand shall be the same as specified above.

6.4 Standard of Workmanship

The workmanship required in this section shall be the generally accepted engineering practice standard of safety. Defective workmanship shall be redone outright without extra cost to the Owner. Conduit installations, boxes, fittings and accessories shall conform to the requirements of the Philippine Electrical Code and other standards required locally.

During installation, due precautions shall be observed to protect the conduit and thread from mechanical injuries. The conduit ends shall be sealed in approved manner during the installation whenever the work is interrupted.

Conduit shall be checked for freedom from obstruction by pulling galvanized wire through the entire run of the conduit. The galvanized wire shall be maintained inside the pipe until the conductors have been pulled permanently. Termination boxes for conduits shall be free from dirt and other debris which may cause obstructions.

All joints between lengths of conduit shall be water tight with red lead paints or other approved sealing agent.

Conduit shall be held firmly on pipe termination by a pair of locknut and bushing. All outlets shall be truly centered, plumb and leveled. Any discrepancy on outlet location between the electrical plans and the architectural plans shall be called to the attention of the Engineer.

Wiring method in general shall be installed inside rigid steel conduit as required in the plan; no such wire shall be pulled inside the pipe if the conduit system is not complete in all aspect, so that the conductor will be protected from damages and abrasion.

Conductors terminated in any kind of outlet box shall have at least 150 mm of wire extended free from the box as allowance for splicing. Color coding shall be observed throughout the installation to provide easy identifications.

Installation of lighting fixtures, wall mounted receptacles and switches shall be given due care as to prevent contact of live wire parts to respective fixtures.

Conductor joints or splices will only be allowed in boxes and should be properly insulated by means of a wire nut fitted to the size of conductor being joined. Splices will never be tolerated inside pipe.

6.5 Material Testing and Workmanship

6.5.1 Grounding

All exposed non-current carrying parts of Electrical Equipment and apparatus shall be properly grounded by means of ground rod driven one (1) meter below the ground level or connect to existing cold water pipe line. All metal conduit system and other parts required at ground potential shall be efficiently grounded. All panel boards' cabinet shall likewise be solidly grounded.

6.5.2 Materials and Workmanship Tests

All wiring system has to be tested for shorts and grounds after the installation has been completed. The Contractor shall furnish all necessary apparatus and testing equipment and will have to make good whatever deficiencies may be found. Test shall be conducted in the presence of the authorized representative of the Owner or the Engineer.

6.6 Guarantee

All materials and accessories furnished/installed under this part of the specifications shall be guaranteed for a period of one (1) year from date of acceptance thereof, and materials and equipment furnished shall be free from any defects in the materials, workmanship and design. At any time within one year after acceptance and upon proper notice the Contractor shall rectify any and all deficiencies including replacement of parts or the entire units without additional cost to the Owners, if such deficiencies have been caused directly or indirectly by inferior materials, faulty workmanship and/or defective design or parts. Expendable items are included in this one year guarantee. During the guarantee period the Contractor shall perform free monthly inspection for the proper and efficient operation of the electrical system.

Section VII. Drawings

LOT 1 – RENOVATION OF CANTEEN



ENTRANCE HALLWAY



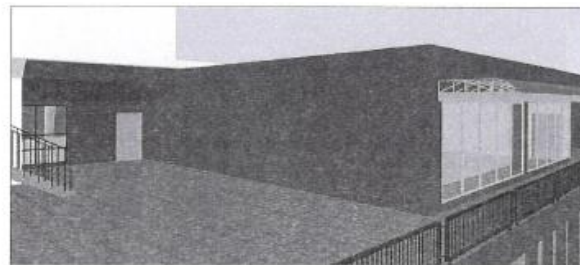
COFFEE AREA DINING



DINING HALL



DINING HALL



FIRE EXIT EGRESS

1
A-00
NOT TO SCALE

PERSPECTIVES

TABLE OF CONTENTS		
ARCHITECTURAL	STRUCTURAL	
A-00 PERSPECTIVE, TABLE OF CONTENTS	S-01 CONSTRUCTION NOTES	
A-01 PROPOSED (NEW CANTEEN) FLOOR PLAN	S-02 CHB WALL STRUCTURAL DETAILS	
A-02 PROPOSED (MODIFICATION OF FIRE EXIT EGRESS) FLOOR PLAN	S-03 CONCRETE COUNTER STRUCTURAL DETAILS	
A-03 PROPOSED (NEW CANTEEN) DIMENSION PLAN	PLUMBING	
A-04 PROPOSED (MODIFICATION OF FIRE EXIT EGRESS) DIMENSION PLAN	P-01 COMFORT ROOM WATER LINE LAYOUT AND SEWER LINE LAYOUT	
A-05 PROPOSED (NEW CANTEEN) DEMOLITION PLAN	P-01 COFFEE KIOSK WATER LINE LAYOUT AND SEWER LINE LAYOUT	
A-06 PROPOSED (MODIFICATION OF FIRE EXIT EGRESS) DEMOLITION PLAN	ELECTRICAL	
A-07 PROPOSED (NEW CANTEEN) FINISHES PLAN	EE-01 GENERAL NOTES, LEGEND & SYMBOLS	
A-08 PROPOSED (MODIFICATION OF FIRE EXIT EGRESS) FINISHES PLAN	EE-02 SINGLE LINE DIAGRAM	
A-09 PROPOSED (NEW CANTEEN) DESIGNATION PLAN	EE-03 SCHEDULE OF LOAD	
A-10 PROPOSED (MODIFICATION OF FIRE EXIT EGRESS) DESIGNATION PLAN	EE-04 SCHEDULE OF LOAD	
A-11 PROPOSED (NEW CANTEEN) FURNITURE PLAN	EE-05 PROPOSED LIGHTING LAYOUT	
A-12 PROPOSED (NEW CANTEEN) REFLECTED CEILING PLAN	EE-06 PROPOSED POWER LAYOUT	
A-13 SECTIONS	EE-07 PROPOSED FDAS LAYOUT	
A-14 SECTIONS	EE-08 PROPOSED PAGING LOUD SPEAKER LAYOUT	
A-15 SCHEDULE OF DOORS	EE-09 PROPOSED CCTV LAYOUT	
A-16 SCHEDULE OF WINDOWS	EE-10 DETAILED DRAWING	
A-17 COMFORT ROOM LAYOUT, SLOP SINK AND COMMON WASH AREA BLOW-UP DETAILS	MECHANICAL	
A-18 FEMALE COMFORT ROOM DETAILS	M-01 GENERAL NOTES & EQUIPMENT SCHEDULE	
A-19 MALE COMFORT ROOM DETAILS	M-02 MISCELLANEOUS DETAILS	
A-20 COFFEE CORNER DETAILS	M-03 PROPOSED MECHANICAL LAYOUT	
A-21 COFFEE CORNER DETAILS	FIRE PROTECTION	
A-22 SERVING AREA (A) DETAILS	FP-01 GENERAL NOTES & MISCELLANEOUS DETAILS	
A-23 SERVING AREA (B) DETAILS	FP-02 PROPOSED FIRE PROTECTION LAYOUT	
A-24 RENTABLE KIOSKS DETAILS		
A-25 RENTABLE KIOSKS DETAILS		
A-26 WALL ACCENT (BOOTH SEATING) DETAILS, COLUMN CLADDING (W/ GROOVE) DETAIL		
A-27 ENTRANCE HALLWAY ACCENT WALL AND DINING HALL ENTRANCE DETAILS		
A-28 COFFEE CORNER OVERHEAD CABINET/SHELF DETAILS, SIGNAGES DETAILS, PARTITION DETAIL		
A-29 PARTITION DETAILS		
A-30 STICKER DESIGN DETAIL, COFFEE DINING WALL ACCENT DESIGN DETAILS		
A-31 ENTRANCE HALLWAY ACCENT WALL (BLOW-UP) DESIGN DETAILS		



PROJECT TITLE:
**RENOVATION OF CANTEEN
(RELOCATION)**

LOCATION:
2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City

RECOMMENDING APPROVAL:

WENDELINO V. COMBOY JR.
VICE PRESIDENT, REGIONAL
CONCURRENT ACTING HEAD, PMO

APPROVED BY:

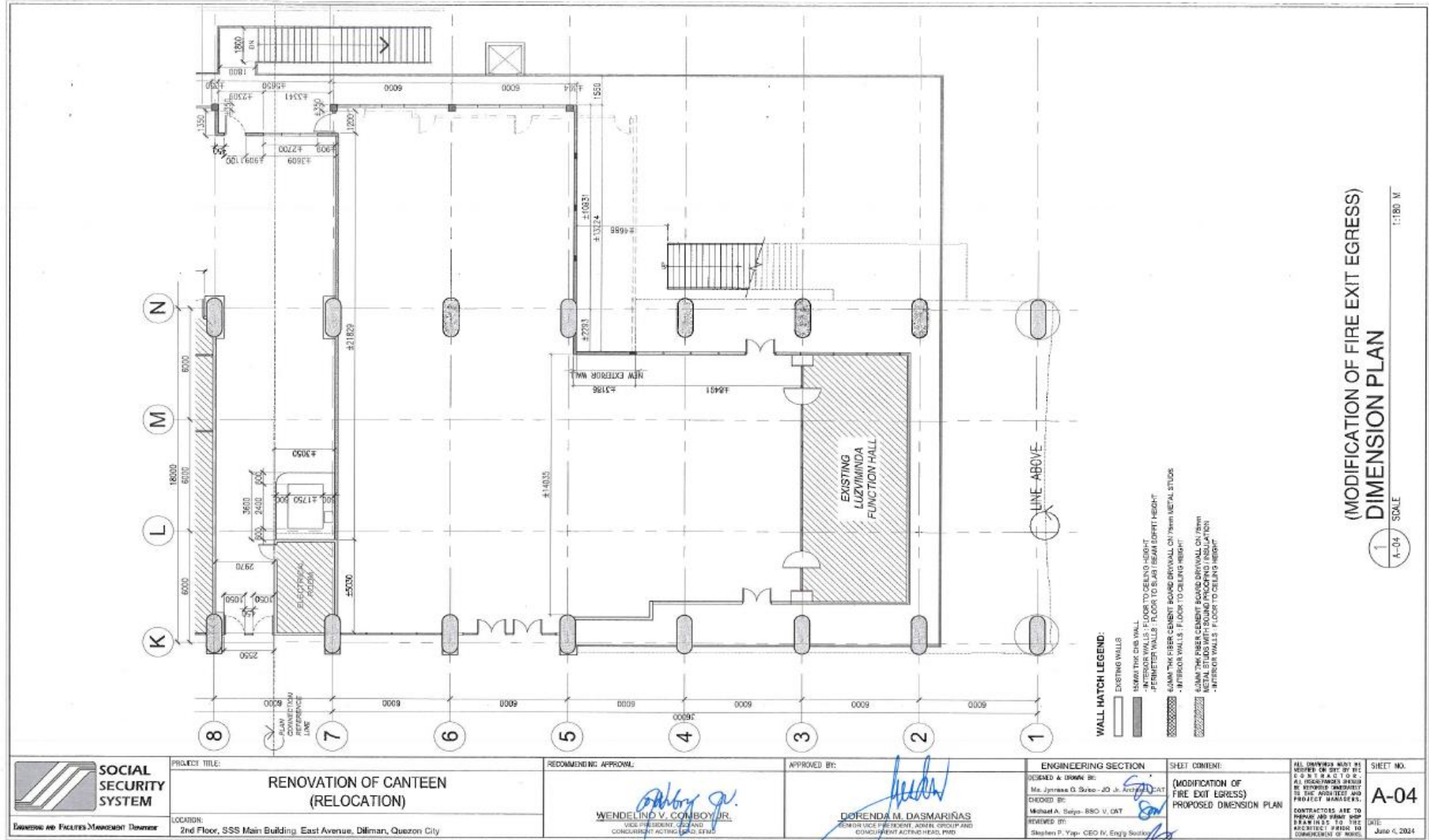
DOREANDA M. DASMARINAS
SENIOR SPECIAL PROJECT MANAGER
CONCURRENT ACTING HEAD, PMO

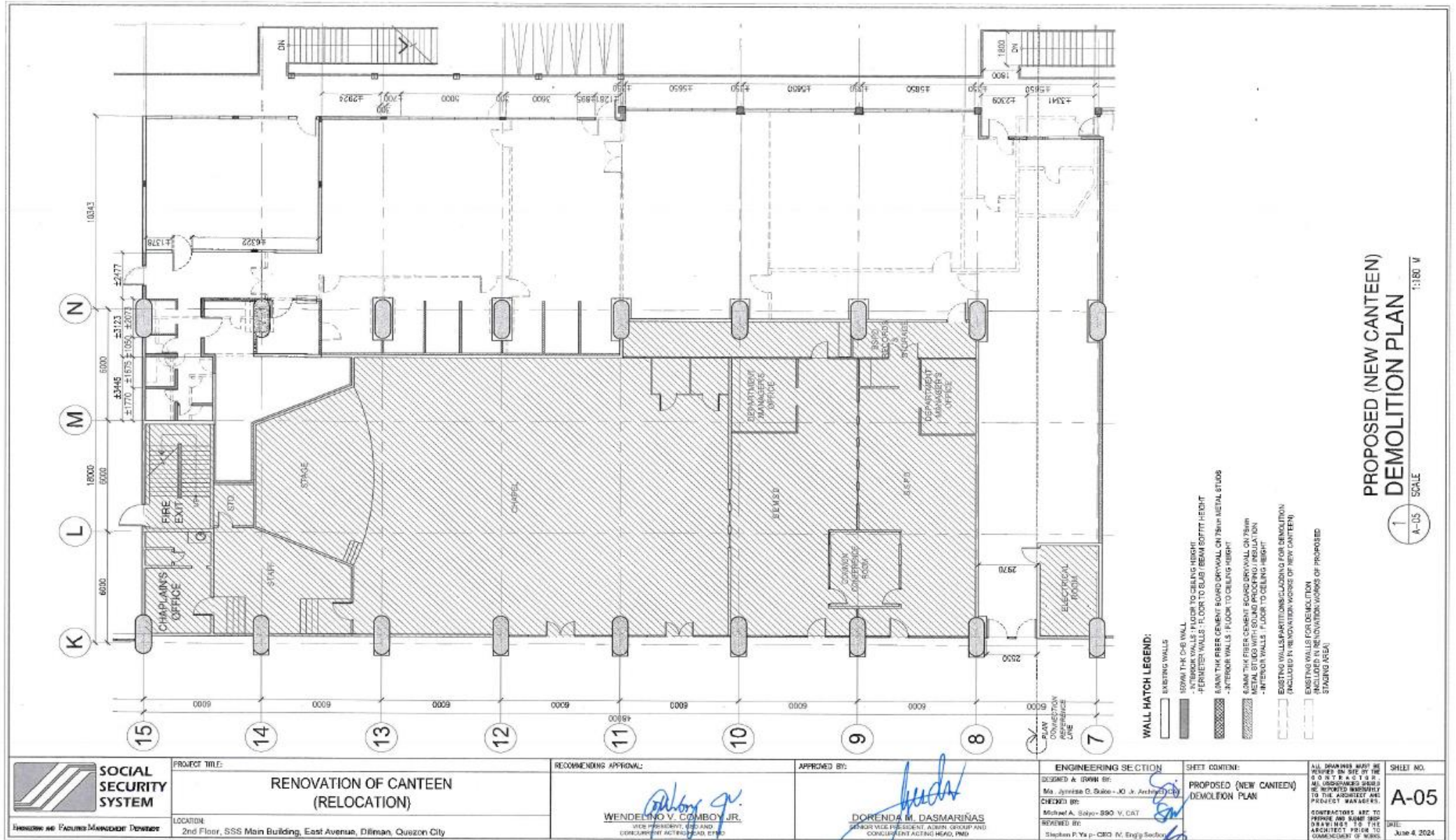
ENGINEERING SECTION
DESIGNED & DRAWN BY:
Eda, Jyrene G. Salas - JO. A. - ARCHITECT
CHECKED BY:
Michael A. Gayo - SED V. CAT
REVIEWED BY:
Stephen P. Yap - CED IV, Engrg. Secd

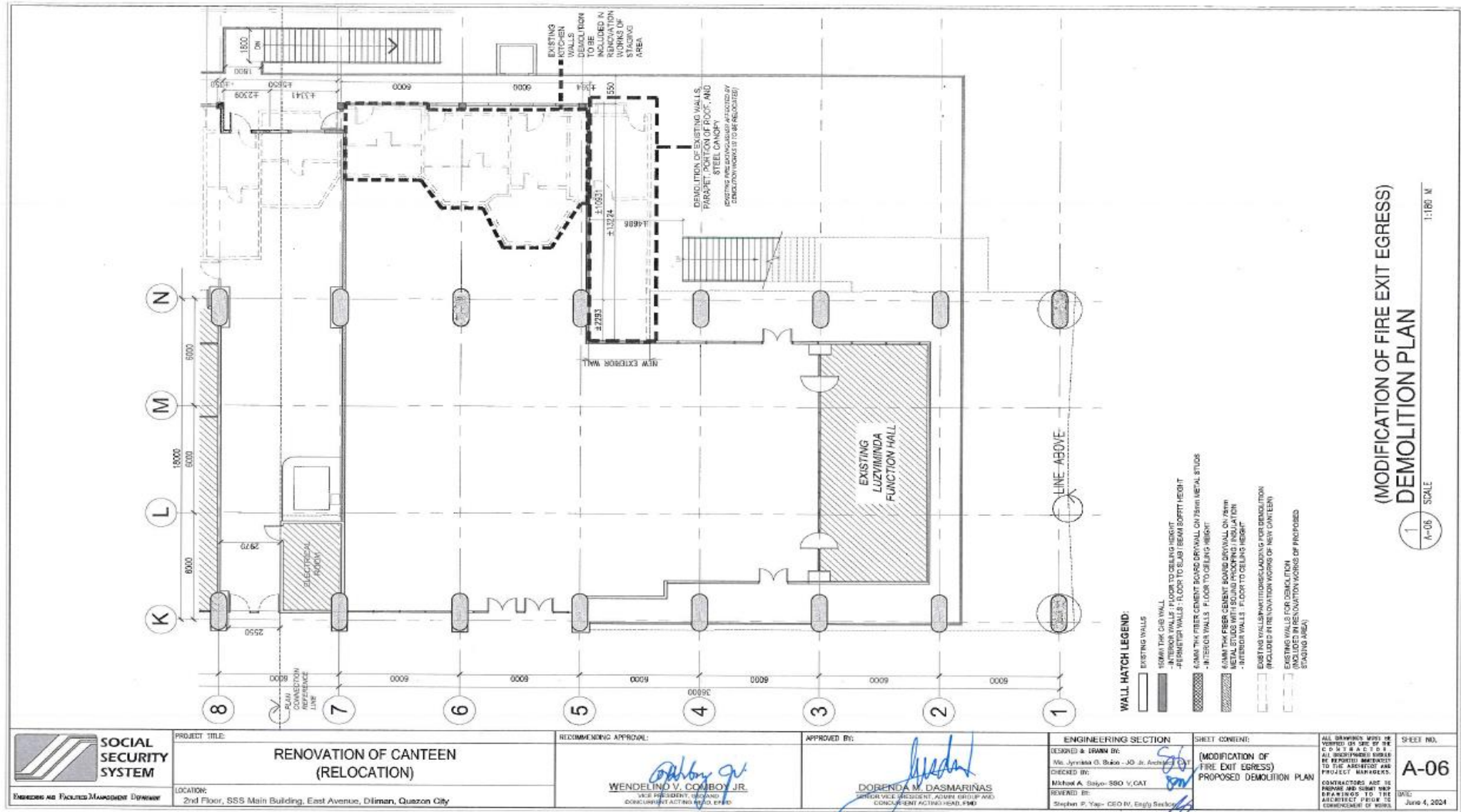
SHEET COMMENT:
PERSPECTIVES
TABLE OF CONTENTS

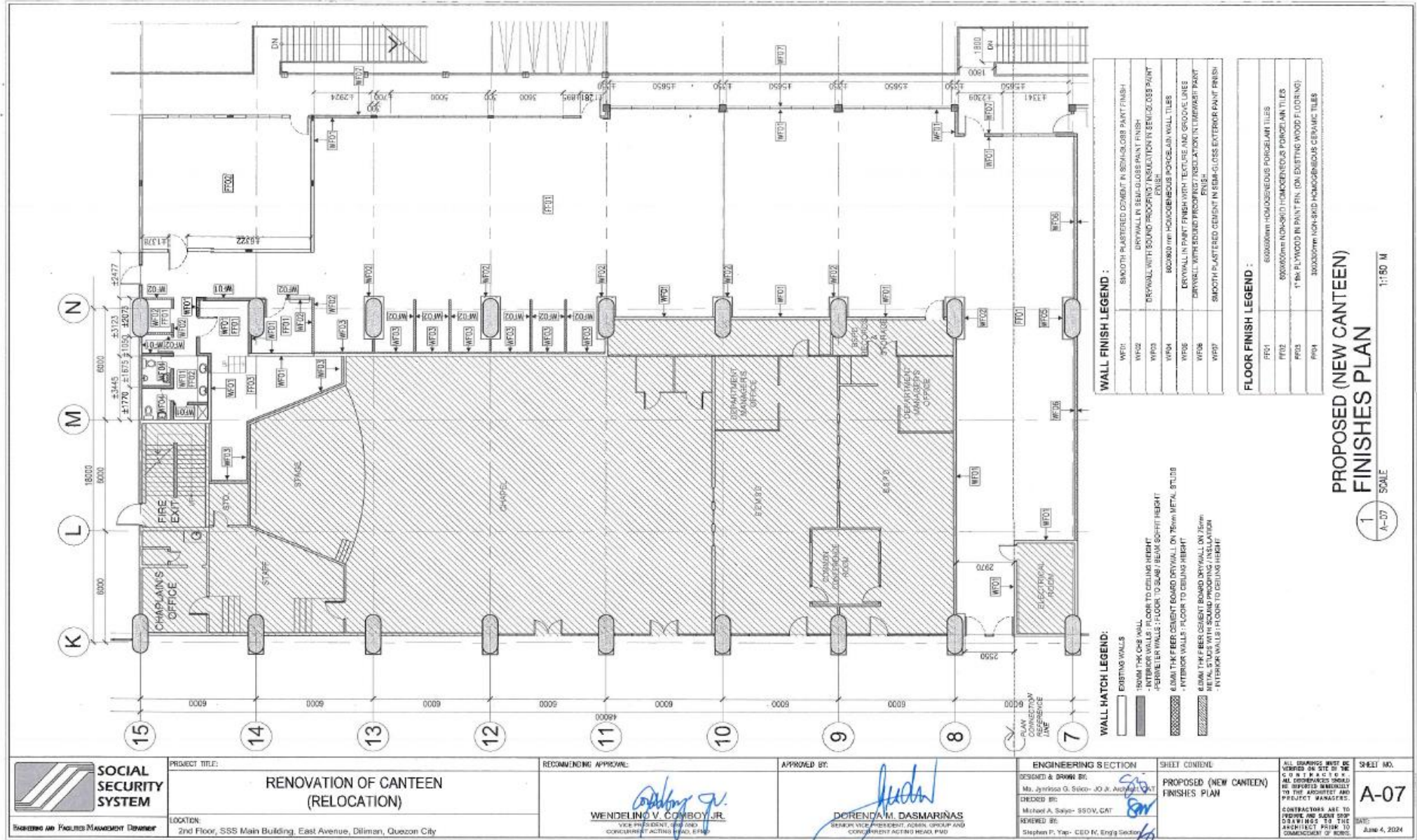
ALL DRAWINGS MUST BE
CHECKED OR USED BY THE
CONTRACTOR. ALL
CONTRACTORS SHOULD
BE INFORMED IMMEDIATELY
TO THE ARCHITECT AND
PROJECT MANAGER.
CONTRACTORS ARE TO
PROVIDE AND PRINT SHIP
DRAWINGS TO THE
ARCHITECT PRIOR TO
COMMENCEMENT OF WORK.
DATE:
JUNE 4, 2024

SHEET NO.
A-00









PROJECT TITLE:
RENOVATION OF CANTEEN (RELOCATION)

LOCATION:
2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City

RECOMMENDING APPROVAL:
[Signature]
WENDELINO V. CONBOY JR.
VICE PRESIDENT, CDD AND CONCURRENT ACTING HEAD, EPM

APPROVED BY:
[Signature]
DORENDA M. DASMARINAS
SENIOR VICE PRESIDENT, ADMIN. GROUP AND CONCURRENT ACTING HEAD, PMO

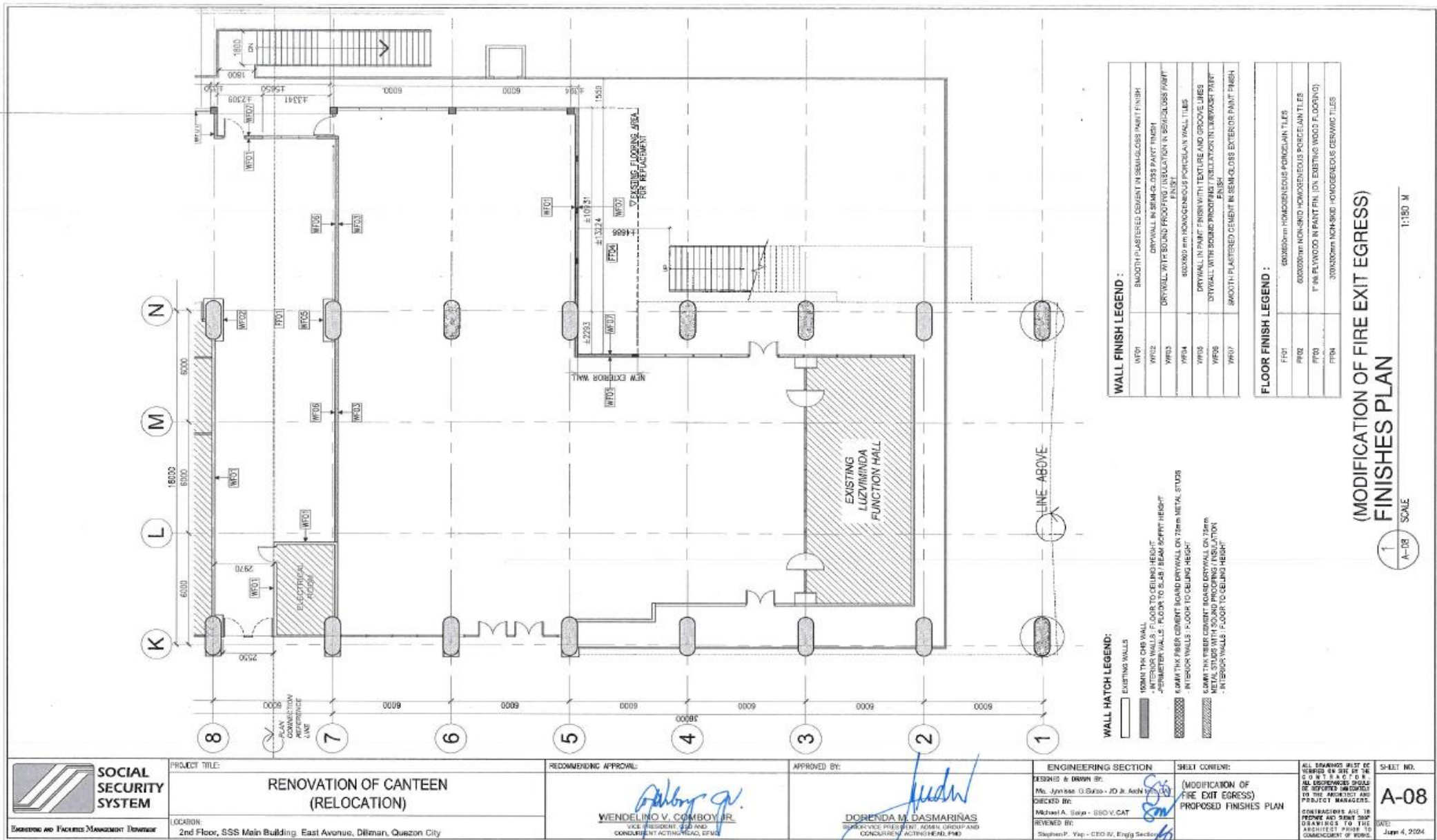
ENGINEERING SECTION
DESIGNED & DRAWN BY:
Mr. Jynelissa G. Salcedo - JO & A. Architect, Inc.
CHECKED BY:
Michael A. Salas - SSOV, CAT
REVIEWED BY:
Stephen P. Yap - CEO IV, Engrg. Section

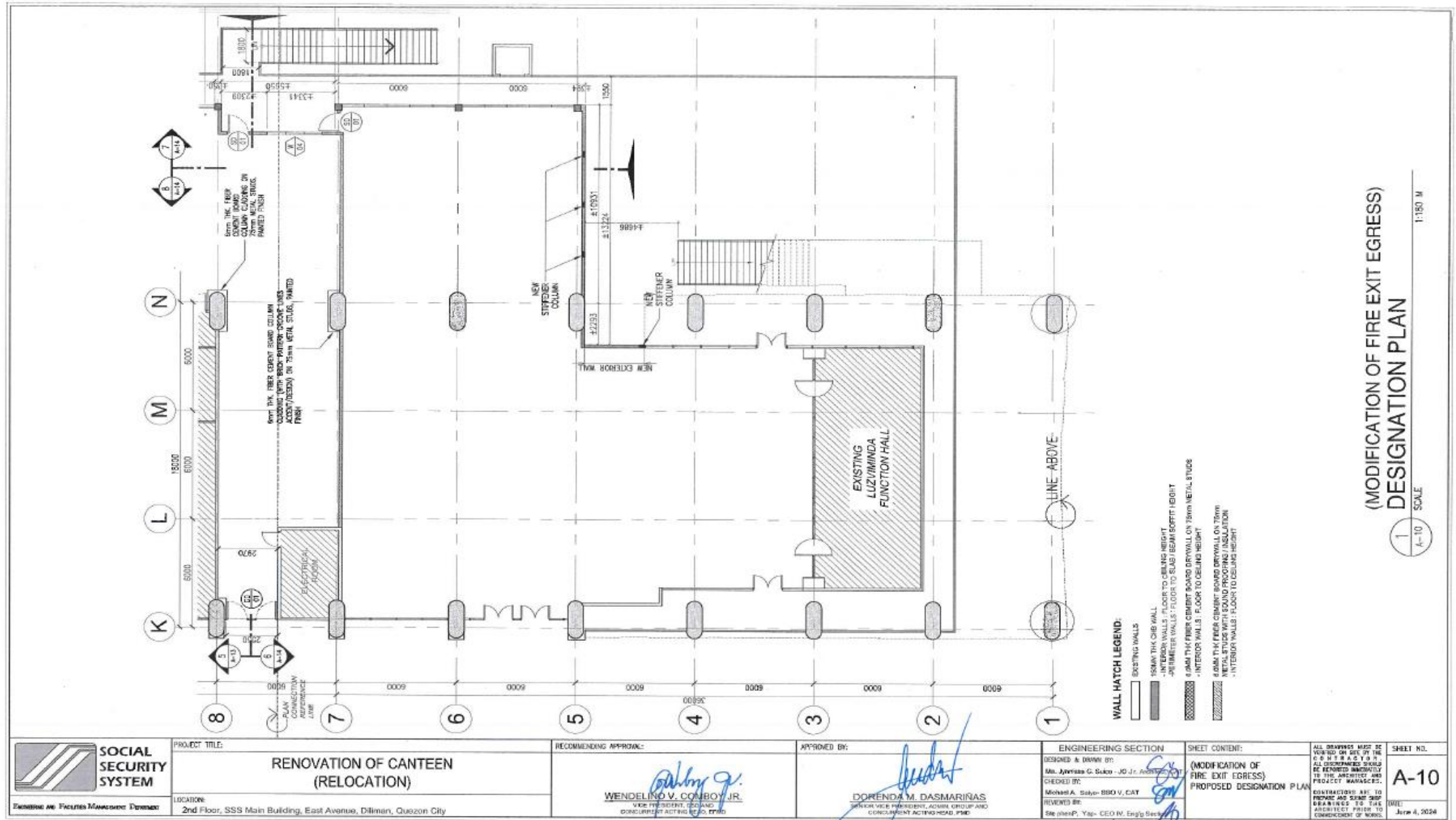
SHEET CONTENT:
PROPOSED (NEW CANTEEN) FINISHES PLAN

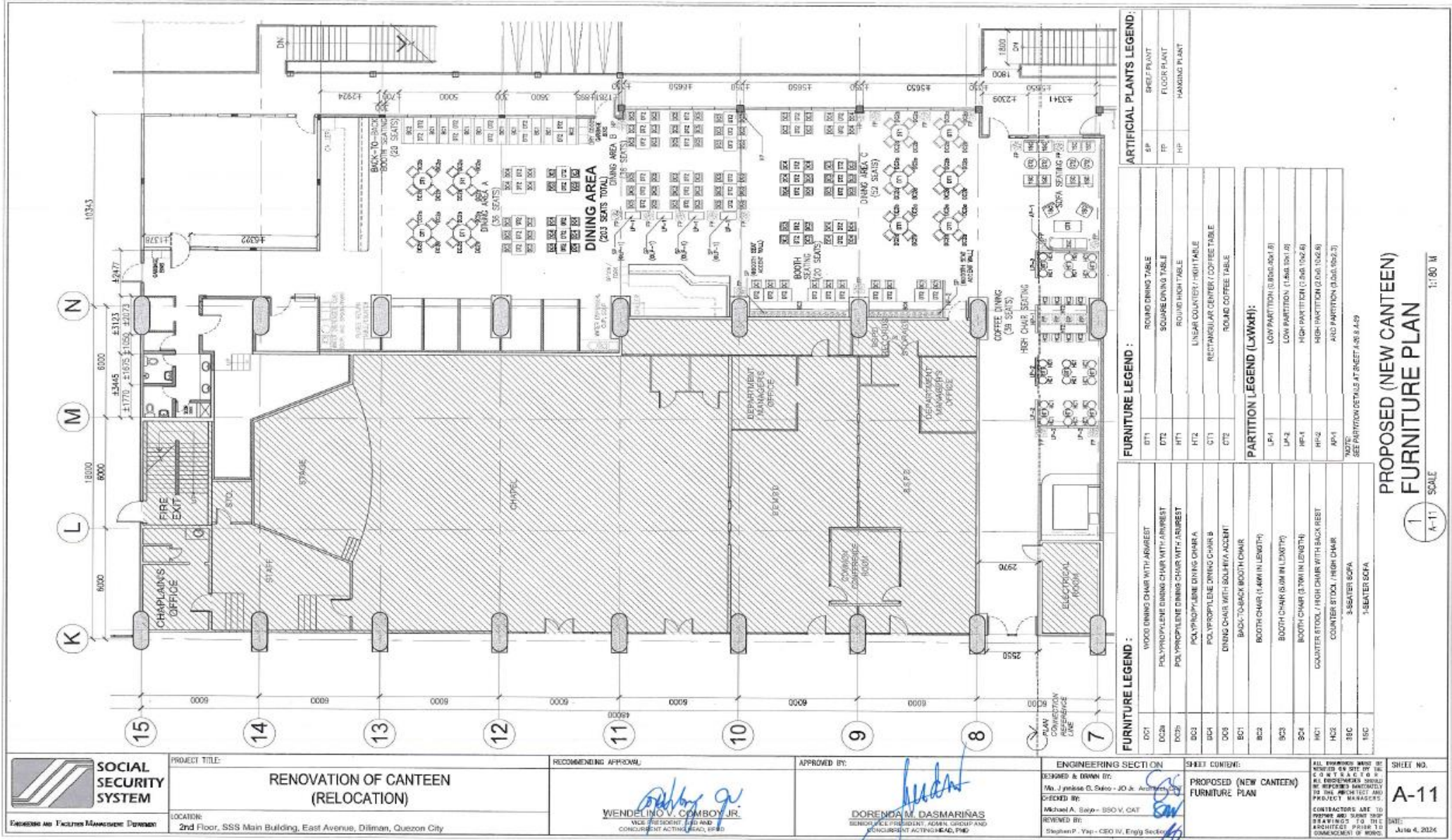
ALL DRAWINGS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO FURNISH AND SUBMIT ONE SET OF DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

DATE: **JUNE 4, 2024**

SHEET NO.: **A-07**







GENERAL NOTES:

1.0 GENERAL:

- 1.1 ALL DIMENSIONS ARE SHOWN IN MILLIMETERS, ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- 1.2 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK. THIS SHALL INCLUDE THE LOCATIONS AND DIMENSIONS OF BROOKS, RIGGERS, SLEEVES, CORERS, OPENINGS, EMBEDDED OR A ATTACHED ITEMS, ETC. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- 1.3 ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS OR DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 1.4 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION UNLESS SO STATED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURES, ADJACENT PROPERTIES, WORKMEN AND OTHER PERSONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND/OR THE ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURES OR CAUSE DISTRESS IN THE STRUCTURES.
- 1.5 TYPICAL DETAILS AND GENERAL NOTES ON S-1 APPLY TO ALL PARTS OF THE JOB UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

2.0 STANDARDS AND REFERENCES:

- THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT:
- 2.1 AMERICAN CONCRETE INSTITUTE (ACI PUBLICATIONS):
ACI 308-RS BUILD CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 318-17 (90) DESIGN HANDBOOK, VOL. 1
ACI 318-17A (90) DESIGN HANDBOOK, VOL. 2
ACI 318-84 MANUAL OF STANDARD PRACTICE FOR DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 - 2.2 AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
 - 2.3 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) VOL. 1, SEVENTH EDITION, 2005
 - 2.4 UNIFORM BUILDING CODE (UBC), VOL. 2 1997 EDITION

3.0 BASIC DESIGN LOADS:

- 3.1 DEAD LOADS (DL)
3.1.1 - METAL ROOFING 56 Pa
3.1.2 - ELECTRICAL/MECHANICAL UTILITIES 240 Pa
3.1.3 - TRUSS & BRACINGS SELF WEIGHT OR AS COMPIED
3.1.4 - FURIN 100 Pa
3.1.5 - CONCRETE 24 kN/m³
3.1.6 - STEEL 77.3 kN/m³
- 3.2 LIVE LOADS (LL)
- ROOF 1000 Pa
- COMMON AREA 4800 Pa
- STOCK ROOMS 2500 Pa
- 3.3 WIND LOAD (WL)
WIND LOADS ARE CALCULATED BASED ON THE RECOMMENDATIONS OF THE NSCP-2015 WITH A MINIMUM BASIC WIND SPEED OF 220 KPH.
- 3.4 SEISMIC LOAD, E
SEISMIC LOADS FOR BUILDING ARE CALCULATED BASED ON THE RECOMMENDATION OF THE NSCP VOL. 1, 7TH ED.
SEISMIC SOURCE TYPE C
SOIL PROFILE
SEISMIC COEFFICIENT, C_w 0.04
SEISMIC COEFFICIENT, C_s 0.44
SEISMIC ZONE FACTOR (ZONE 4)
IMPORTANCE FACTOR I = 1.0
NUMERICAL COEFFICIENT R = 8.5
NEAR SOURCE FACTOR, N_v N_v = 1.0
NEAR SOURCE FACTOR, N_h N_h = 1.0

4.0 MATERIALS:

- 4.1 NORMAL WEIGHT CONCRETE:
4.1.1 CONCRETE USED IN THIS WORK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28 DAYS FOR ALL REINFORCED CONCRETE ELEMENTS AS FOLLOWS:
FOR FOUNDATION $f'_c = 28 \text{ MPa (4000 Psi)}$
FOR SLAB AND BEAM $f'_c = 21 \text{ MPa (3000 Psi)}$
- 4.1.2 ALL CONCRETE SHALL BE DEPOSITED, NURTURED AND CURED IN ACCORDANCE WITH ACI STANDARD 318-85.
- 4.1.3 CONCRETE COVER OVER REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI STANDARD 318-85.
- 4.1.4 BEFORE CONCRETE IS PLACED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATIVE TO THE WORK.

4.2 REINFORCING BARS:

- 4.2.1 UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL REINFORCING BARS SHALL BE DEFORMED WITH A MINIMUM YIELD STRENGTH:
 $f_y = 275 \text{ MPa (40000 Psi)}$ FOR 8mm & SMALLER
 $f_y = 414 \text{ MPa (60000 Psi)}$ FOR 8mm & LARGER
- 4.2.2 ALL REINFORCING BARS SHALL BE CLEAN OR RUST, GREASE OR OTHER MATERIALS WHICH TEND TO IMPAIR BOND.
- 4.2.3 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
- 4.2.4 LAPPED SPICES SHALL BE STAGGERED WHERE POSSIBLE.
- 4.2.5 UNLESS INDICATED OTHERWISE, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI STANDARD 318-85.
- 4.2.6 UNLESS SHOWN OTHERWISE ON PLANS, SPICES SHALL BE AS FOLLOWS:
BEAMS: TOP AND BOTTOM BARS SHALL NOT BE SPICED WITHIN THE COLUMN OR WITHIN A DISTANCE OF THREE TIMES THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. STIRRUPS SPACING EXCEEDING THE LAP SPICES SHALL BE 100mm. THE SPICE LENGTH SHALL NOT BE LESS THAN THE LENGTH IN ITEM 4.2.9 BELOW.
COLUMNS: SPICES WHEN PERMITTED SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT AND LAP SPICE SHALL NOT BE LESS THAN 40 BAR DIAMETER. THE USE OF APPROVED MECHANICAL DEVICES MAY BE SPICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPICES SHALL BE 400MM.
CHB WALLS: VERTICAL BARS SHALL BE SPICED AT THE TOP OF WALL FOOTING OR THE BEAM AND AT THE BOTTOM OF RC UPRIGHT BEAM & BEAMS. SPICED LENGTHS SHALL BE 600MM MIN.
- 4.2.7 UNLESS INDICATED OTHERWISE ALL BEAMS TERMINATING AT THE COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN. TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE NOT LESS THAN 300MM.
- 4.2.8 SHOP DRAWINGS FOR BENDING AND CUTTING OF REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO FABRICATION.
- 4.2.9 SPICE LENGTH OF REINFORCEMENT BARS SHALL BE AS FOLLOWS:

SIZE OF REBARS	SPICE LENGTH (mm)
#10	400
#12	480
#16	640
#20	800
#25	1000

4.2.10 STANDARD HOOK:

BEND ANGLE	SHAPE	BAR DIA. (d)	DIA. OF INSIDE HOOK (D)	REBAR END LENGTH (A)
90°		< 25	6d	12d
		> 25 AND < 32	8d	
135° (STIRRUPS AND TIES)		< 16	4d	6d or 75 MIN.
		> 16 AND < 25	6d	
180°		< 25	6d	4d or 65 MIN.
		> 25 AND < 32	8d	

4.4 CONCRETE HOLLOW BLOCKS (CHB):

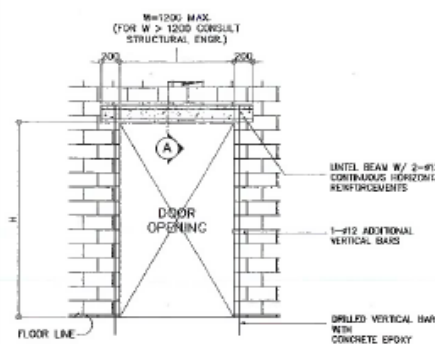
- 4.4.1 CHB USED IN THESE WORKS SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 28 DAYS AS FOLLOWS:
100mm THICK HSB-LOAD BEARING CHB, $f'_m = 2.40 \text{ MPa (350 Psi)}$
- 4.4.2 ALL CELLS SHALL BE SOLIDLY FILLED WITH GROUT. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 17.24 MPa (2500 Psi) @ 28 DAYS.
- 4.4.3 UNLESS OTHERWISE INDICATED, CHB REINFORCEMENT SHALL BE 10mm² HORIZONTAL BARS @ 600mm AND 12mm² VERTICAL BARS @ 800mm.
- 4.5 GRAVEL
4.5.1 MIN. GRAVEL SIZE FOR BEAMS, COLUMNS, SHEARWALLS AND SLABS SHALL BE SMALLER THAN 10mm.

5.0 MASONRY WALLS:

- 5.1 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STD. AND SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES AND UNIFORM BLDG. CODE.
- 5.2 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- 5.3 MORTAR AND GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 270 - TYPE M AND SHALL HAVE A MINIMUM OF 28 DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 17.5 MPa (2500 Psi)
- 5.4 ALL CHB SHALL BE LAYED OUT WITH THE CELLS IN UNSTRUCTURED VERTICAL CONTINUITY. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH MORTAR.
- 5.5 REINFORCEMENT AS TABULATED BELOW, SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN.
- 5.6 MASONRY WALLS SHALL BE PROVIDED WITH BEAM BLOCK AS REQUIRED.

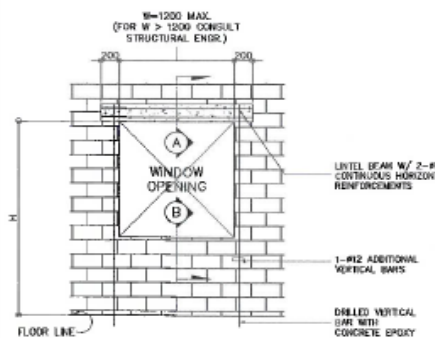
CONSTRUCTION NOTES

SOCIAL SECURITY SYSTEM Financing and Facilities Management Department	PROJECT TITLE: RENOVATION OF CANTEN (RELOCATION)	RECOMMENDING APPROVAL: WENDELING V. COMBOY JR. VICE PRESIDENT, DESIGN AND CONSTRUCTION ACTING HEAD, CIVIL	APPROVED BY: DORENDAM DASMARIÑAS SENIOR VICE PRESIDENT, ADMIN. GROUP AND CONSTRUCTION ACTING HEAD, PMO	ENGINEERING SECTION: DESIGNED & DRAWN BY: Michael A. Salas - SSO V. CAT CHECKED BY: Stephen P. Yap - CEO IV, Engrg Section	SHEET CONTENT: CONSTRUCTION NOTES	ALL OPERATIONS MUST BE DONE IN ACCORDANCE WITH THE CONTRACT AND ALL DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO REPORT AND REPORT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.	SHEET NO. S-01 DATE: June 4, 2024
	LOCATION: 2nd Floor, 855 Main Building, East Avenue, Diliman, Quezon City						



DOOR OPENING ELEVATION

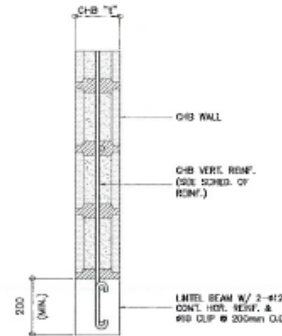
NOTE: OMT EXTRA REINF. FOR OPENING LESS THAN 200MM VERT. & 400MM HOR.



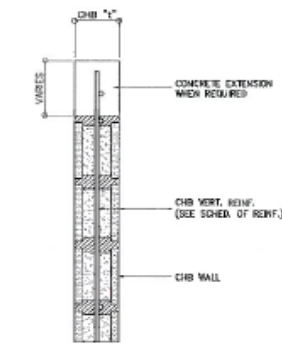
WINDOW OPENING ELEVATION

NOTE: OMT EXTRA REINF. FOR OPENING LESS THAN 200MM VERT. & 400MM HOR.

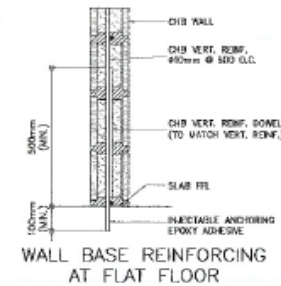
CONCRETE HOLLOW BLOCKS REINFORCEMENT			
BLOCK THICKNESS (MM)	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
100	10MM# BARS @ EVERY 3RD LAYER OF CHB	10MM# BARS AT 600MM. C/C	A. MIN. LAP SPLICE=300MM. LONG B. PROVIDE RIGHT ANGLE REINF. AT CORNERS 900MM. LONG.



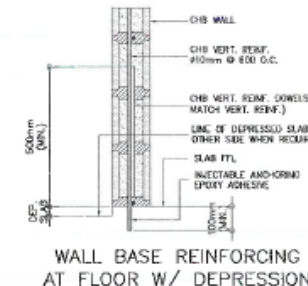
SECTION A



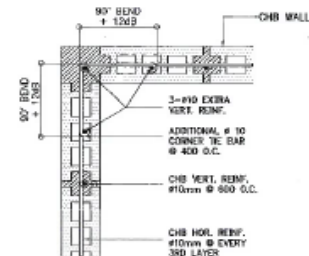
SECTION B



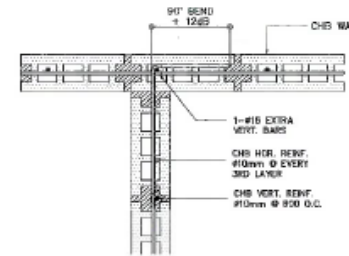
WALL BASE REINFORCING AT FLAT FLOOR



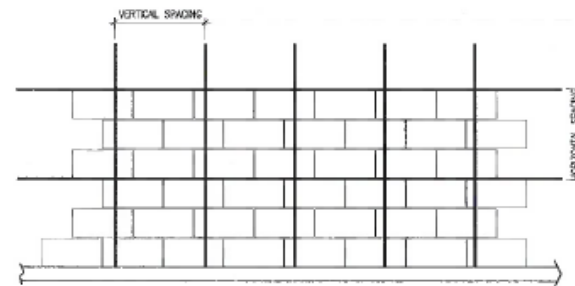
WALL BASE REINFORCING AT FLOOR W/ DEPRESSION



WALL REINFORCING DETAIL AT CORNER

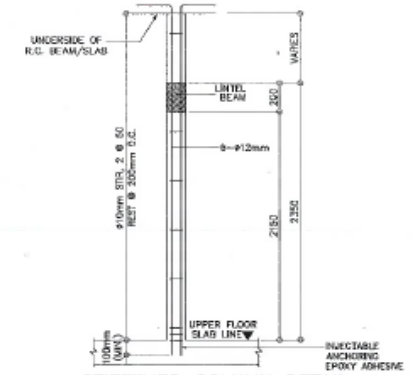


WALL REINFORCING DETAIL AT T-INTERSECTION

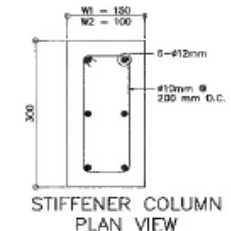


CHB WALL REINFORCEMENTS

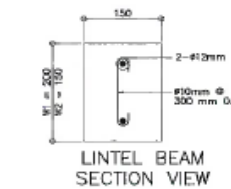
CHB WALL STRUCTURAL DETAILS



STIFFENER COLUMN DETAIL AT UPPER FLOOR LEVEL



STIFFENER COLUMN PLAN VIEW



LINTEL BEAM SECTION VIEW



SOCIAL SECURITY SYSTEM

PROJECT TITLE:
RENOVATION OF CANTEEN (RELOCATION)

LOCATION:
2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City

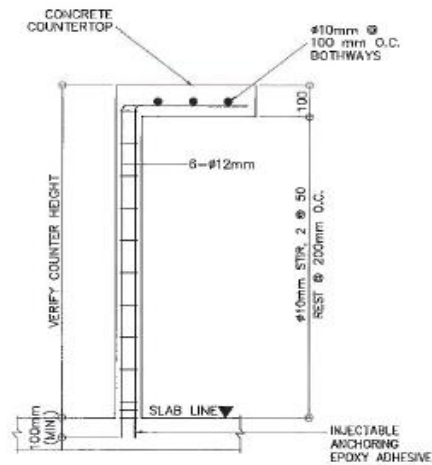
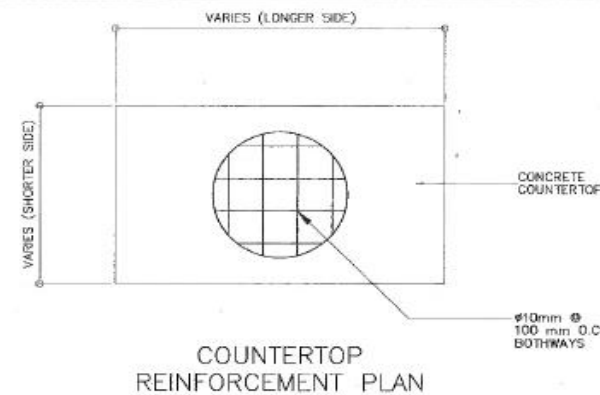
RECOMMENDING APPROVAL:
WENDELINO V. COMBOY JR.
VICE PRESIDENT, HRD AND
CONCURRENT ACTING HEAD, SSS

APPROVED BY:
DOREANDA M. DASMARIÑAS
SENIOR VICE PRESIDENT, ADMIN. GROUP AND
CONCURRENT ACTING HEAD, PWD

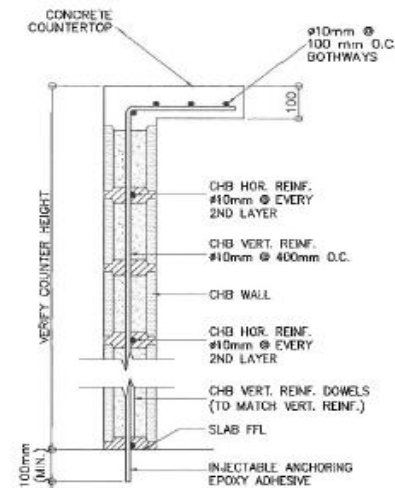
ENGINEERING SECTION
DESIGNED & DRAWN BY:
Mr. Jynessa G. Galan - JO Jr. A. 10/10/2024
CHECKED BY:
Michael A. Salvo - SSO V, CAT
REVIEWED BY:
Stephen P. Yap - CEO IV, Engrg. Division

SHEET CONTENT:
CHB WALL STRUCTURAL DETAILS

ALL DRAWINGS MUST BE
CHECKED BY THE
DESIGNER AND
REVIEWED BY THE
PROJECT MANAGER.
CONTRACTORS ARE TO
VERIFY AND SIGN OFF
DRAWINGS TO THE
REQUIREMENTS OF THE
CONTRACT DOCUMENTS.
DATE:
JAN 14, 2025




CONCR. COUNTER AND STIFFENER COLUMN CONNECTION DETAILS

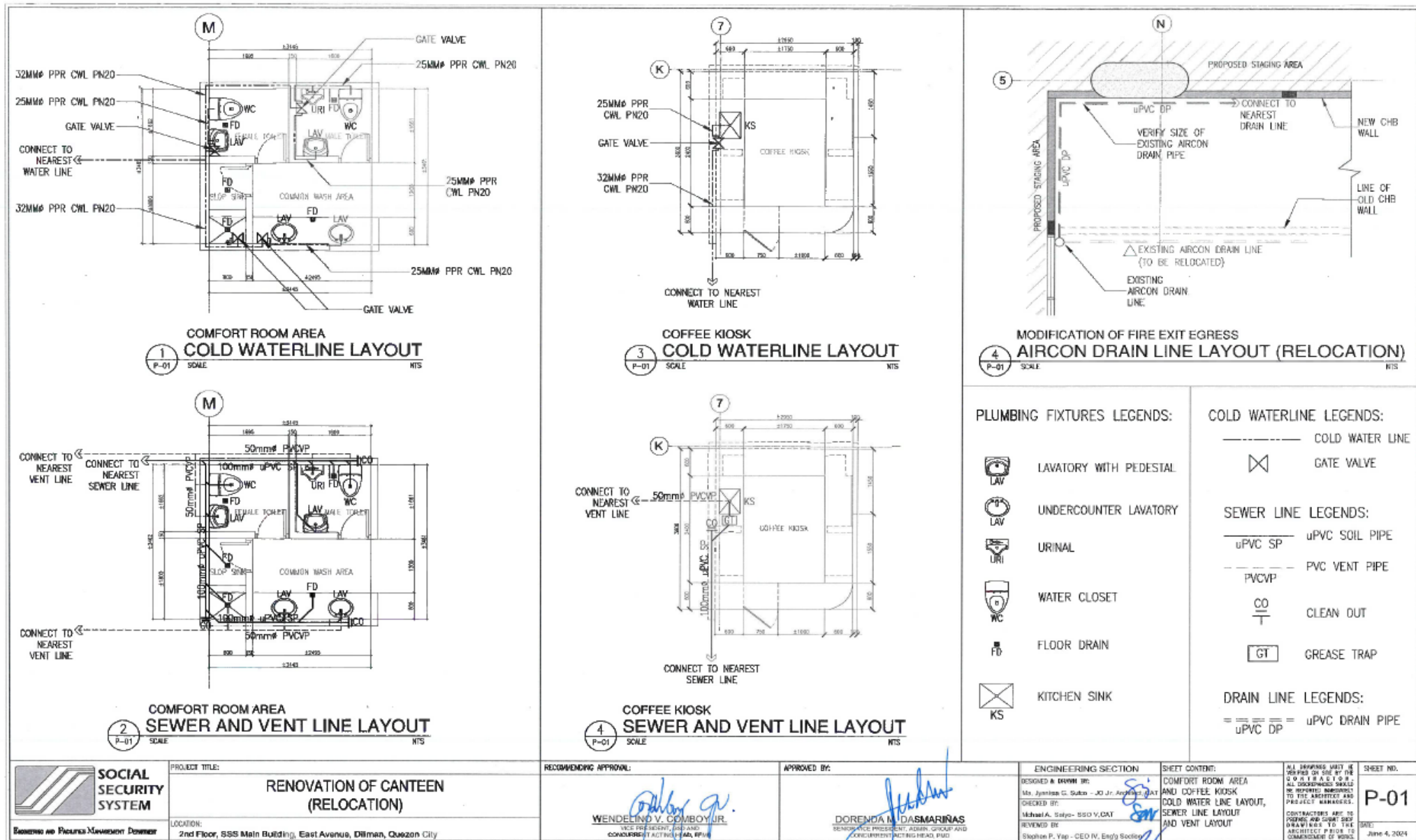


CONCR. COUNTER AND CHB CONNECTION DETAILS

1 CONCRETE COUNTER STRUCTURAL DETAILS
S-03 SCALE NTS

 <p>SOCIAL SECURITY SYSTEM</p> <p>Engineering and Facilities Management Department</p>	<p>PROJECT TITLE:</p> <p>RENOVATION OF CANTEEN (RELOCATION)</p> <p>LOCATION:</p> <p>2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>[Signature]</i></p> <p>WENDELINO V. COMBOY JR. VICE PRESIDENT, GOVERNOR CONCURRENT ACTING HEAD, GFMD</p>	<p>APPROVED BY:</p> <p><i>[Signature]</i></p> <p>DOREANDA M. DASMARINAS SENIOR VICE PRESIDENT, ASIAN GROUP AND CONCURRENT ACTING HEAD, FMD</p>	<p>ENGINEERING SECTION</p> <p>DESIGNED & DRAWN BY:</p> <p>Ms. Jymela G. Sures - JO J. R. R. R. CAT</p> <p>CHECKED BY:</p> <p>Michael A. Salas - SUD V. CAT</p> <p>REVISED BY:</p> <p>Stephens, Yapo - CECI IV, Engr. S. Salas</p>	<p>SHEET CONTENT:</p> <p>CONCRETE COUNTER STRUCTURAL DETAILS</p>	<p>ALL DRAWINGS MUST BE REVIEWED ON SET OF THE C O P Y T P A C T I O N. ALL DISCREPANCIES SHOULD BE RESOLVED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS.</p> <p>CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.</p> <p>SHEET NO.</p> <p>S-03</p> <p>DATE:</p> <p>June 4, 2024</p>
--	--	---	---	---	---	---

[Handwritten signature]






























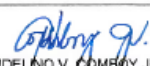
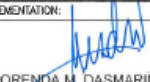

GENERAL NOTES

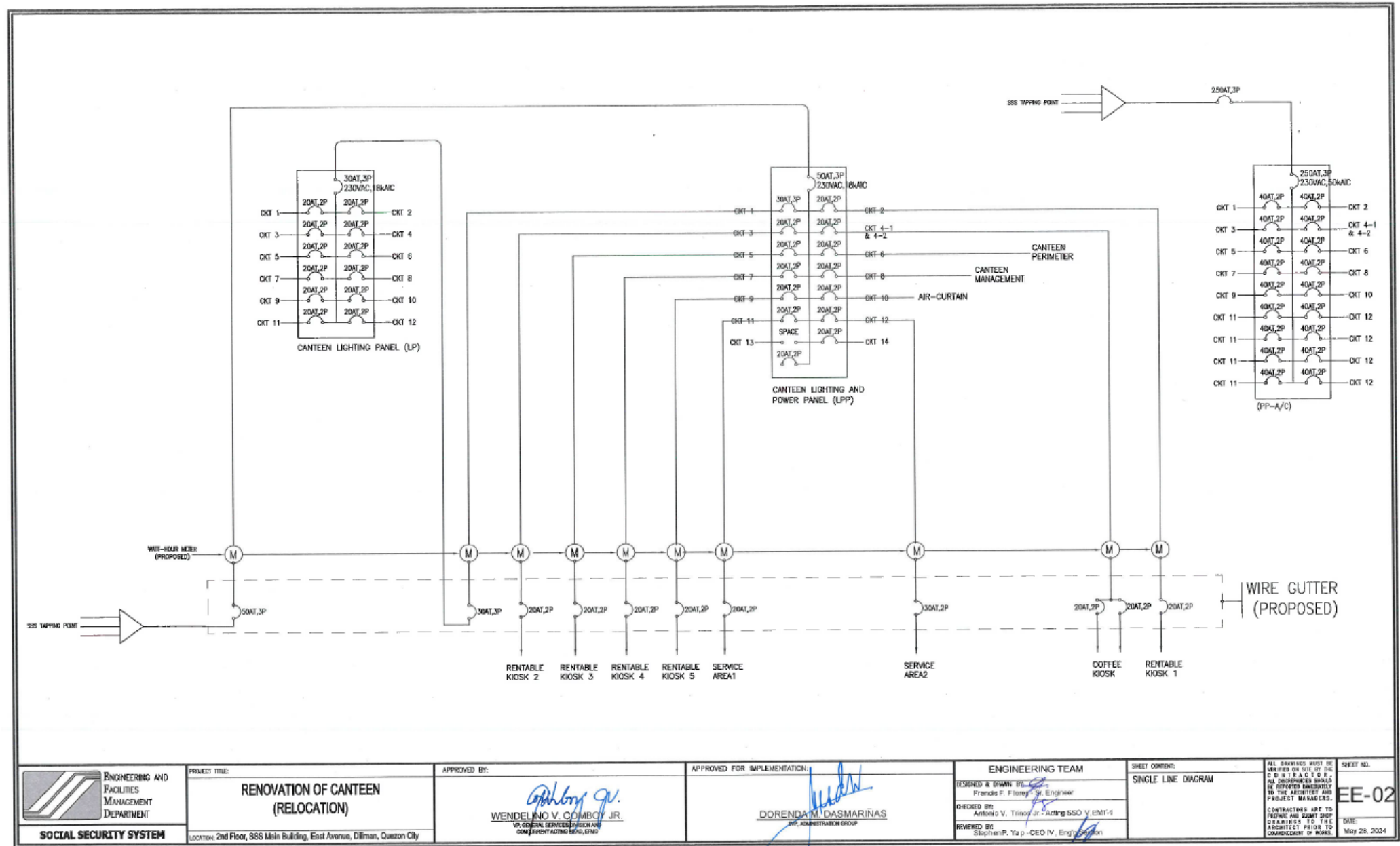
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENT OF THE LOCAL POWER AND TELEPHONE COMPANY.
- SERVICE POWER SHALL BE 230 VOLTS, THREE PHASE, 3 WIRES, 60 HZ + GROUND.
- SMALLEST BRANCH CIRCUIT WIRE SHALL BE 3.5 MM² THHN FOR POWER AND LIGHTING AND SHALL BE INSULATED FOR 600 VOLTS.
- WHENEVER NECESSARY PROVIDE PULL BOX OF PROPER SIZE AND DIMENSION ALTHOUGH NOT INDICATED IN THE PLAN.
- ALL BRANCH CIRCUIT SHALL BE INSTALLED AS INDICATED IN THE PLAN, INDIVIDUAL BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED IN THE SAME CONDUIT.
- ALL SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PEC.
- ROUGHING-IN CONDUITS SHALL BE OF APPROVED TYPE AND APPLICATION, RSC EXPOSED, IMC AND PVC FOR LATERAL AND EMBEDDED LAY-OUT.
- THE ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT AND SURVEY THE SITE TO ASCERTAIN THE LOCAL CONDITION THAT MAY AFFECT DURING THE IMPLEMENTATION OF THE PROJECT.
- ALL AREA AFFECTED BY THE CHIPPING/REMOVAL WORKS SHALL BE PATCHED OR RESTORED TO ITS ORIGINAL AESTHETIC CONDITION.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

PANELBOARD	----	1.40 m ABOVE FINISHED FLOOR
SWITCHES	----	1.40 m ABOVE FINISHED FLOOR
CONVENIENCE OUTLETS	----	0.30 m ABOVE FINISHED FLOOR (FOR WALL MOUNTED)
	----	MODULAR RACEWAY (ON MODULAR WORKSTATIONS)
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE SUPERVISION OF DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

SYMBOLS & LEGEND:

-  DUPLEX CONVENIENCE OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P, 230V BY UPS POWER IN FLUSH MOUNTED TYPE WITH OFF-WHITE PLATE COVER
-  DUPLEX CONVENIENCE OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P, 230V BY NORMAL POWER IN FLUSH MOUNTED TYPE WITH BEIGE PLATE COVER
-  RECESSED LED MULTI-DIRECTIONAL DOWNLIGHT FIXTURE: BULB: GU10 (REPLACEABLE BULB), WATTAGE: 9-12WATTS, MATERIAL: ALUMINUM DIE-CAST, DIMENSIONS: (95MM X 95MM) MIN. (150MM X 150MM) MAX. CUTOUT: Ø 75MM IP RATING: IP20 GLARE CUT-OFF ANGLE: APPROX. 30 DEGREES TILTING ANGLE: 300 COLOR TEMPERATURE: COOLWHITE 4000K & WARMWHITE 3000K
-  SURFACE MOUNTED LED DOWNLIGHT FIXTURES, BULB: GU10 (REPLACEABLE BULB), DIMENSIONS: Ø 73MM X 120MM, COLOR: BLACK I WHITE, WATTAGE: 9-12WATTS, REFLECTOR: BLACK, IP RATING: IP20, MATERIAL: ALUMINUM COLOR TEMPERATURE: COOLWHITE 4000K
-  RECESSED LED MULTI-DIRECTIONAL DOWNLIGHT FIXTURE, BULB: GU10 (REPLACEABLE BULB), WATTAGE: 9-12WATTS, MATERIAL: ALUMINUM DIE-CAST, DIMENSIONS: Ø95MM X 25MM, CUTOUT: Ø 75MM, IP RATING: IP20, GLARE CUT-OFF ANGLE: APPROX. 30 DEGREES, TILTING ANGLE: 30°, COLOR TEMPERATURE: COOLWHITE 4000K & WARMWHITE 3000K
-  RECESSED DOUBLE HEADED LED MULTI-DIRECTIONAL DOWNLIGHT, BULB: 2X LED-MR16-SW/COB (REPLACEABLE BULB), COLOR: WHT/MC/BLK, DIMENSIONS: 202MM X 105MM, MATERIAL: ALUMINUM, CUTOUT: Ø84MM X 180MM, INNER DIAMETER: 2 X 45MMØ, COLOR TEMPERATURE: COOLWHITE 4000K
-  PENDANT LIGHT 1, BULB: E27 (REPLACEABLE BULB), MATERIAL: METAL, COLOR: BLACK, PENDANT CANOPY: BLACK CANOPY, WIRE COLOR: BLACK PVC ROUND WIRE, HEIGHT: 150MM, WIDTH: 195MM, COLOR TEMPERATURE: WARMWHITE 3000K
-  PENDANT LIGHT 2, BULB: E27 (REPLACEABLE BULB), DIMENSIONS: Ø150MM X 380MM, SHADE COLOR: BLACK + WOOD, SHADE MATERIAL: METAL + WOOD, CANOPY COLOR: BLACK, CANOPY MATERIAL: METAL, COLOR TEMPERATURE: WARMWHITE 3000K
-  LED SPOTLIGHT, WATTAGE: 7WATTS, BULB: GU10 (REPLACEABLE BULB), IP RATING: IP20, MATERIAL: ALUMINUM, COLOR: BLACK, DIMENSION: BODY SIZE: Ø65MM X 93MM, BASE SIZE: Ø60MM X 22MM, COLOR TEMPERATURE: WARMWHITE 3000
-  RECESSED PANEL LIGHT (300X300MM), POWER: 18WATTS, SIZE: 295 X 295 X 10MM, COLOR TEMPERATURE: COOLWHITE 4000K
-  SURFACE MOUNTED, LIGHTING FIXTURE, 1X18WATTS LED TUBE, 220V, T8, 1800 LUMENS, 120 LIGHT ANGLE, SIZE (300MMX1200)MM WITH ALUMINUM LARGE CELL PARABOLIC LOUVER TYPE AND ANODIZED REFLECTOR, COOL DAYLIGHT, COMPLETE WITH CIRCUIT WIRING, COLOR TEMPERATURE: COOLDAYLIGHT 6000K
-  HANGING & SURFACE MOUNTED LED T8 PANEL FIXTURE, T8: 18WATTS (REPLACEABLE BULB), IP RATING: IP20, MATERIAL: PC+IRON, REFLECTOR: REFLECTIVE PAPER, COLOR: BLACK I WHITE, CUTOUT: 80MM, DIMENSIONS: LENGTH: 1233MM, WIDTH: 60MM, HEIGHT: 53MM, COLOR TEMPERATURE: COOLWHITE 4000K
-  LED TRACK LIGHT, LED TRACK LIGHT FIXTURES WITH 4 X 7 WATTS (REPLACEABLE BULB), COLOR: BLACK, COLOR TEMPERATURE: COOLWHITE 3000K
-  COVE LIGHT LED STRIP FOR HALLWAY (15M APPROX.), LED STRIP: 3000K, 12V, 12WATTS, COLOR TEMPERATURE: WARMWHITE 3000K
-  ALUMINUM PROFILE LED STRIP UNDER CABINET, SIZE: 12 X 13MM, INTER WIDTH: 12MM, SUIT FOR STRIP: 8-12MM, SURFACE: ANODIZED SILVER, PC COVER: POLYCARBONATE/FROSTED/MILKY, END CAP AND BRACKET, INSTALLATION: SURFACE MOUNTED, COLOR TEMPERATURE: COOLWHITE 4000K
-  EMERGENCY LIGHT, 2X3-SW MIN. LED, 220V, SEALED LEAD AC BATTERY
-  ENTRANCE/EXIT LIGHT 3-WATTS (MINIMUM) LED, 220VAC,
-  EXHAUST FAN, CEILING MOUNTED, 55-WATTS MIN., 90-120CFM MIN., 230V, 60HZ., WITH GRILL SHUTTER/ LOUVER OR ITS APPROVED TYPE EQUIVALENT
-  DISTRIBUTION PANEL
-  ECB, NEMA 3R ENCLOSURE, INDUSTRIAL TYPE (OUTDOOR)
-  ONE GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
-  TWO GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
-  THREE GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
-  CIRCUIT DESIGNATION
-  BRANCH CIRCUIT HOMERUN
-  SPECIALIZED OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P, 230V

 ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT SOCIAL SECURITY SYSTEM	PROJECT TITLE: RENOVATION OF CANTEEN (RELOCATION)	APPROVED BY:  WENDELINO V. COMBES JR. VP, GENERAL SERVICES DIVISION CONSTRUCTION DIVISION	APPROVED FOR IMPLEMENTATION:  DORENDA M. DASMARINÁS SIP, ADMINISTRATION GROUP	ENGINEERING TEAM DESIGNED & DRAWN BY:  Francis F. Flores, Sr. Engineer CHECKED BY: Antonio V. Tinas Jr., Asst. Eng. SSC V, EMT-1 REVIEWED BY: Stephen P. Yap, CEO IV, Engg. Section	SHEET CONTENT: GENERAL NOTES LEGEND & SYMBOL	ALL DRAWINGS MUST BE CORRECTED IN SITE BY THE CONTRACTOR. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGER. CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. DATE: May 28, 2024	SHEET NO. EE-01
	LOCATION: 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City						



(LPP): 50AT/100AF MAIN, THREE PHASE, 230VAC, 60Hz, 18kAIC, SURFACE MOUNTED, BOLT-ON CB NEMA I TYPE (PROPOSED)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	SWITCHES				NO. OF OUTLETS	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	KAIC	VOLT		S ₁	S ₂	S ₃	S ₄			AB	CA	BC	
1	30	3	18	230	LIGHTING PANEL (LP)	-	-	-	-	1	5,695	8.05	8.34	8.36	3-#5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ IMC PIPE
2	20	2	10	230	RENTABLE KIOSK 1	-	-	-	-	3	540	2.35			2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
3	20	2	10	230	RENTABLE KIOSK 2	-	-	-	-	3	540	2.35			2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
4	20	2	10	230	CKT 4-1 & 4-2 (COFFEE KIOSK)	-	-	-	-	3	540		2.35		2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
5	20	2	10	230	RENTABLE KIOSK 3	-	-	-	-	3	540		2.35		2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
6	20	2	10	230	CANTEEN PERIMETER	-	-	-	-	14	2,520			10.96	2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
7	20	2	10	230	RENTABLE KIOSK 4	-	-	-	-	3	540			2.35	2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
8	20	2	10	230	CANTEEN MANAGEMENT	-	-	-	-	3	540	2.35			2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
9	20	2	10	230	RENTABLE KIOSK 5	-	-	-	-	3	540	2.35			2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
10	20	2	10	230	AIR-CURTAIN	-	-	-	-	2	500		2.17		2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
11	20	2	10	230	SERVICE AREA 1	-	-	-	-	3	540		2.35		2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
12	20	2	10	230	SERVICE AREA 2	-	-	-	-	3	540			2.35	2-#3.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mmØ PVC PIPE
13	-	-	-	230	SPACE	-	-	-	-	-	-	-	-	-	-
14	20	2	10	230	SPARE	-	-	-	-	-	1,800		7.83		-
15	20	2	10	230	SPARE	-	-	-	-	-	1,800			7.83	-
TOTAL :						-	-	-	-	44	17,175	25.28	25.39	24.02	3-#8.0mm ² THHN/THWN STRANDED WIRE WITH 1-#3.5mm ² THHN/THWN IN 20mmØ IMC PIPE

COMPUTATION:

TOTAL COMPUTED LOAD:
= 25.39 X 1.732 X 90%
= 39.58 AMPS

SIZE OF DISCONNECT, WIRES AND CONDUIT:
= 1.25(39.58)
= 49.48 AMPS

MAIN: 50 AMPS, THREE PHASE, 230VAC, 60Hz, 18 KAIC
USE : 3-#8.0mm² THHN/THWN STRANDED WIRE WITH
1-#3.5mm² THHN/THWN IN 20mmØ IMC PIPE

(LP): 30AT/50AF MAIN, THREE PHASE, 230VAC, 60Hz, 18kAIC, SURFACE MOUNTED, BOLT-ON CB NEMA I TYPE (PROPOSED)



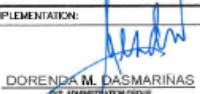
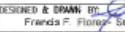
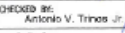

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	SWITCHES				NO. OF OUTLETS	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	KAIC	VOLT		S ₁	S ₂	S ₃	S ₄			AB	CA	BC	
1	20	2	10	230	HALLWAY	-	-	1	-	49	490	2.13			2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
2	20	2	10	230	COFFEE AREA	-	4	1	-	50	467	2.03			2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
3	20	2	10	230	WALL STRIP LIGHT, LOUNGE AREA & SERVING 1	-	1	1	-	33	344		1.50		2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
4	20	2	10	230	DINING C	-	-	1	-	40	574		2.50		2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
5	20	2	10	230	DINING B	-	1	-	-	35	350			1.52	2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
6	20	2	10	230	DINING A	-	-	1	-	40	574			2.50	2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
7	20	2	10	230	TENANTS	8	-	-	-	17	208	0.90			2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
8	20	2	10	230	SERVING 2, TOILET, HALLWAY & CANTEEN MANAGEMENT	9	-	1	-	51	688	2.99			2-#3.5mm ² THHN WIRE IN 20mmØ PVC PIPE
9	20	2	10	230	SPARE	-	-	-	-	-	500		2.17		-
10	20	2	10	230	SPARE	-	-	-	-	-	500		2.17		-
11	20	2	10	230	SPARE	-	-	-	-	-	500			2.17	-
12	20	2	10	230	SPARE	-	-	-	-	-	500			2.17	-
TOTAL :						15	6	6	-	315	5,695	8.05	8.34	8.36	3-#5.5mm ² THHN/THWN STRANDED WIRE WITH 1-#3.5mm ² THHN/THWN IN 20mmØ IMC PIPE

COMPUTATION:

TOTAL COMPUTED LOAD:
= 8.36 X 1.732 X 90%
= 13.03 AMPS

SIZE OF DISCONNECT, WIRES AND CONDUIT:
= 1.25(13.03)
= 16.28 AMPS

MAIN: 30 AMPS, THREE PHASE, 230VAC, 60Hz, 18 KAIC
USE : 3-#5.5mm² THHN/THWN STRANDED WIRE WITH
1-#3.5mm² THHN/THWN IN 20mmØ IMC PIPE

 ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT SOCIAL SECURITY SYSTEM	PROJECT TITLE: RENOVATION OF CANTEEN (RELOCATION)	APPROVED BY:  WENDELINO V. COMBOY JR. <small>VP, GENERAL SERVICES DIVISION AND CONSTRUCTION MANAGEMENT GROUP</small>	APPROVED FOR IMPLEMENTATION:  DOREND M. DASMARINAS <small>SR. ADMINISTRATION GROUP</small>	ENGINEERING TEAM DESIGNED & DRAWN BY:  <small>Friends P. Flores, Sr. Engineer</small> CHECKED BY:  <small>Antonio V. Timos Jr., Asst. SSO V, EMT-1</small> REVIEWED BY:  <small>Stephen P. Yap - CEO IV, Engg. Division</small>	SHEET CONTENT: SCHEDULE OF LOAD	<small>ALL DRAWINGS MUST BE VERIFIED ON SITE BY THE CONSULTANT & E.O.P. ALL INSTRUCTIONS SHOULD BE OBTAINED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGER.</small> <small>CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.</small>	SHEET NO. EE-03 DATE: May 28, 2024
	<small>LOCATION: 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City</small>						

(PP-A/C): 250AT/300AF MAIN, THREE PHASE, 230VAC, 60Hz, 50KAIC, SURFACE MOUNTED, BOLT-ON CB NEMA 1 TYPE (PROPOSED)






CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	FCU NO.	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	KAIC	VOLT				AB	CA	BC	
1	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020	17.48			2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
2	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020	17.48			2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
3	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020		17.48		2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
4	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020		17.48		2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
5	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020			17.48	2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
6	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020			17.48	2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
7	40	2	18	230	4TR CEILING CASSETTE A/C	-	4,020	17.48			2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
8	40	2	18	230	1.5HP WALL MOUNTED MOUNTED A/C	-	1,119	4.87			2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
9	40	2	18	230	3TR CEILING CASSETTE A/C	-	3,015		13.11		2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
10	40	2	18	230	3TR CEILING CASSETTE A/C	-	3,015		13.11		2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
11	40	2	18	230	3TR CEILING CASSETTE A/C	-	3,015			13.11	2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
12	40	2	18	230	3TR CEILING CASSETTE A/C	-	3,015			13.11	2-5.5mm ² THHN WIRE 1-3.5mm ² THHN GROUND IN 20mm ² PVC PIPE
13	40	2	18	230	SPARE	-	4,020	17.48			-
14	40	2	18	230	SPARE	-	4,020	17.48			-
15	40	2	18	230	SPARE	-	4,020		17.48		-
16	40	2	18	230	SPARE	-	4,020		17.48		-
17	40	2	18	230	SPARE	-	4,020			17.48	-
18	40	2	18	230	SPARE	-	4,020			17.48	-
TOTAL :							65,439	92.27	96.14	96.14	3-#125.0mm ² THHN WIRE 1-#14.0mm ² THHN GROUND IN 65mm ² IMC PIPE

COMPUTATION:

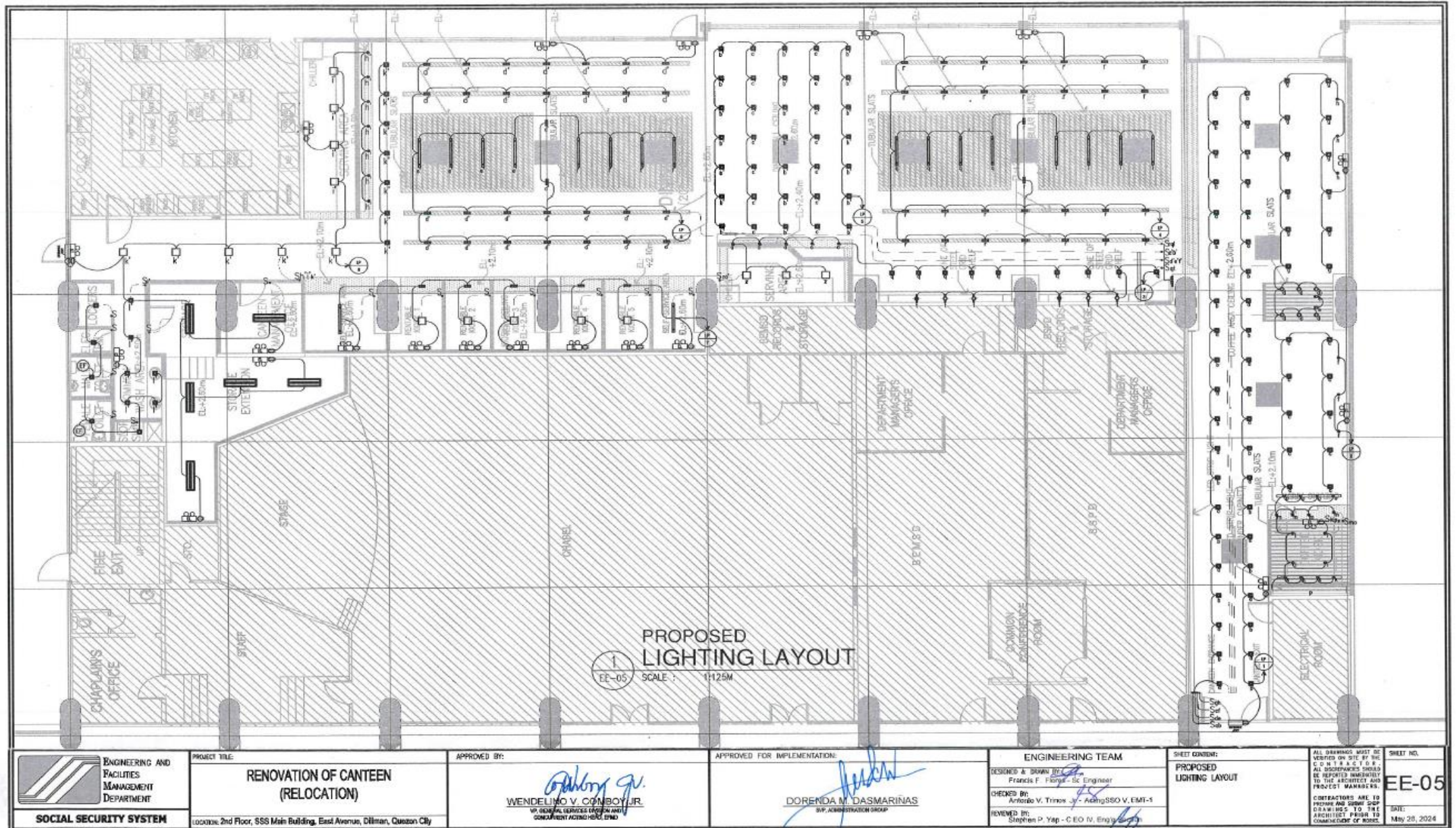
TOTAL COMPUTED LOAD:
= 96.14 X 1.732 + 0.25(17.48)
= 170.88 X 100%

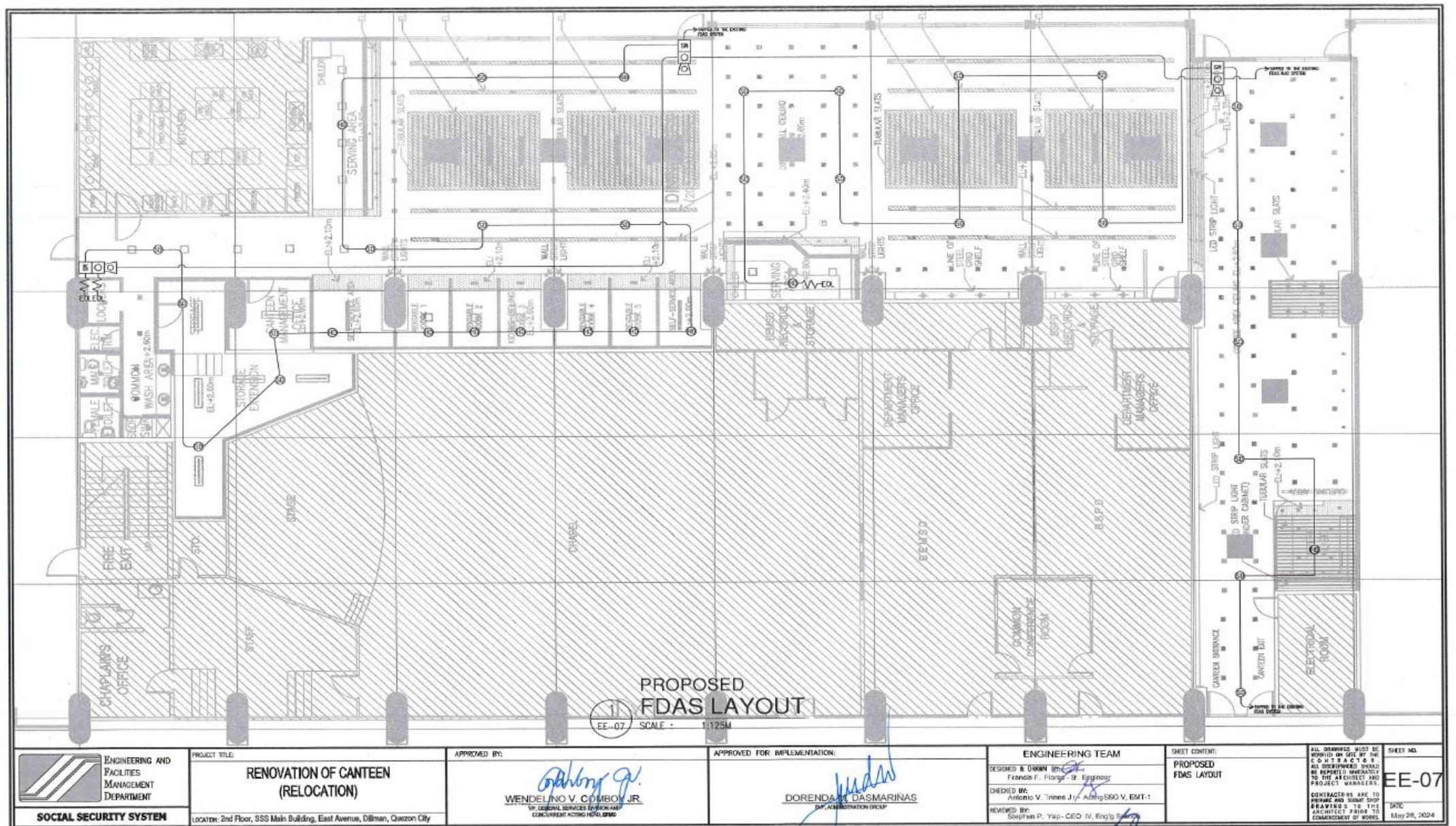
SIZE OF DISCONNECT, WIRES AND CONDUIT:
= 1.25(170.88)
= 213.60 AMPS

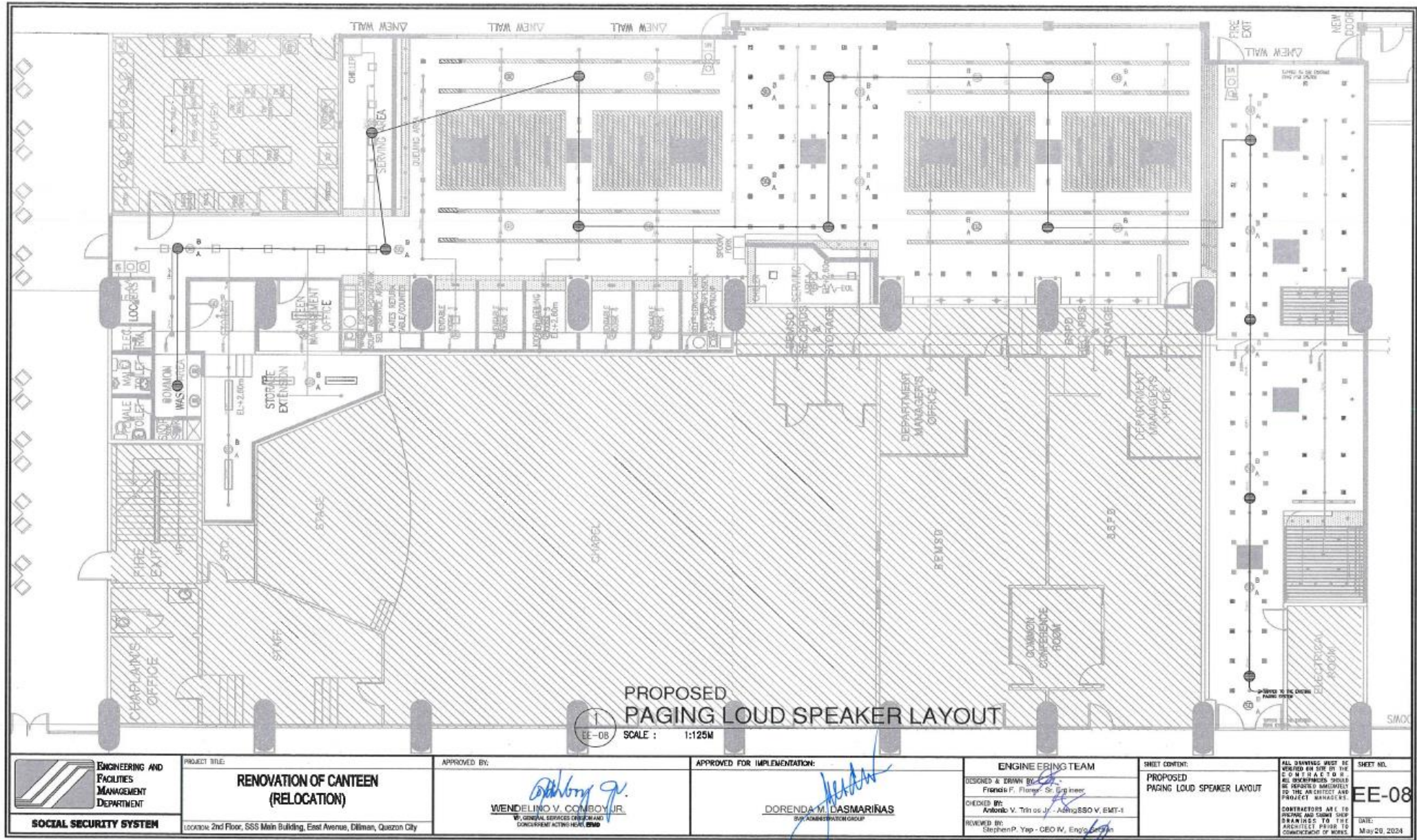
MAIN: 250 AMPS, THREE PHASE, 230VAC, 60HZ., 50 KAIC
USE : 3-#125.0mm² THHN/THWN STRANDED WIRE WITH
1-#14.0mm² THHN/THWN IN 65mm² IMC PIPE

 ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT SOCIAL SECURITY SYSTEM	PROJECT TITLE: RENOVATION OF CANTEEN (RELOCATION)	APPROVED BY:  WENDELINO V. COMBOY JR. <small>VP, GENERAL SERVICES DIVISION AND CONSTRUCTION ACTING CHIEF, BENG</small>	APPROVED FOR IMPLEMENTATION:  DORENDAM. GASMARINAS <small>VP, ADMINISTRATION GROUP</small>	ENGINEERING TEAM DESIGNED & DRAWN BY:  Francis F. Flores, Jr. Engineer CHECKED BY: Antonio V. Trinos, Jr. - Acting SSO V. EMP-1 REVIEWED BY: Stephen P. Yap - CEO IV, Eng's Section 	SHEET CONTENT: SCHEDULE OF LOAD	ALL DRAWINGS MUST BE VERIFIED ON SITE BY THE CONSULTANT. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO INQUIRE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.	SHEET NO. EE-04 DATE: May 28, 2004
	LOCATION: 2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City						

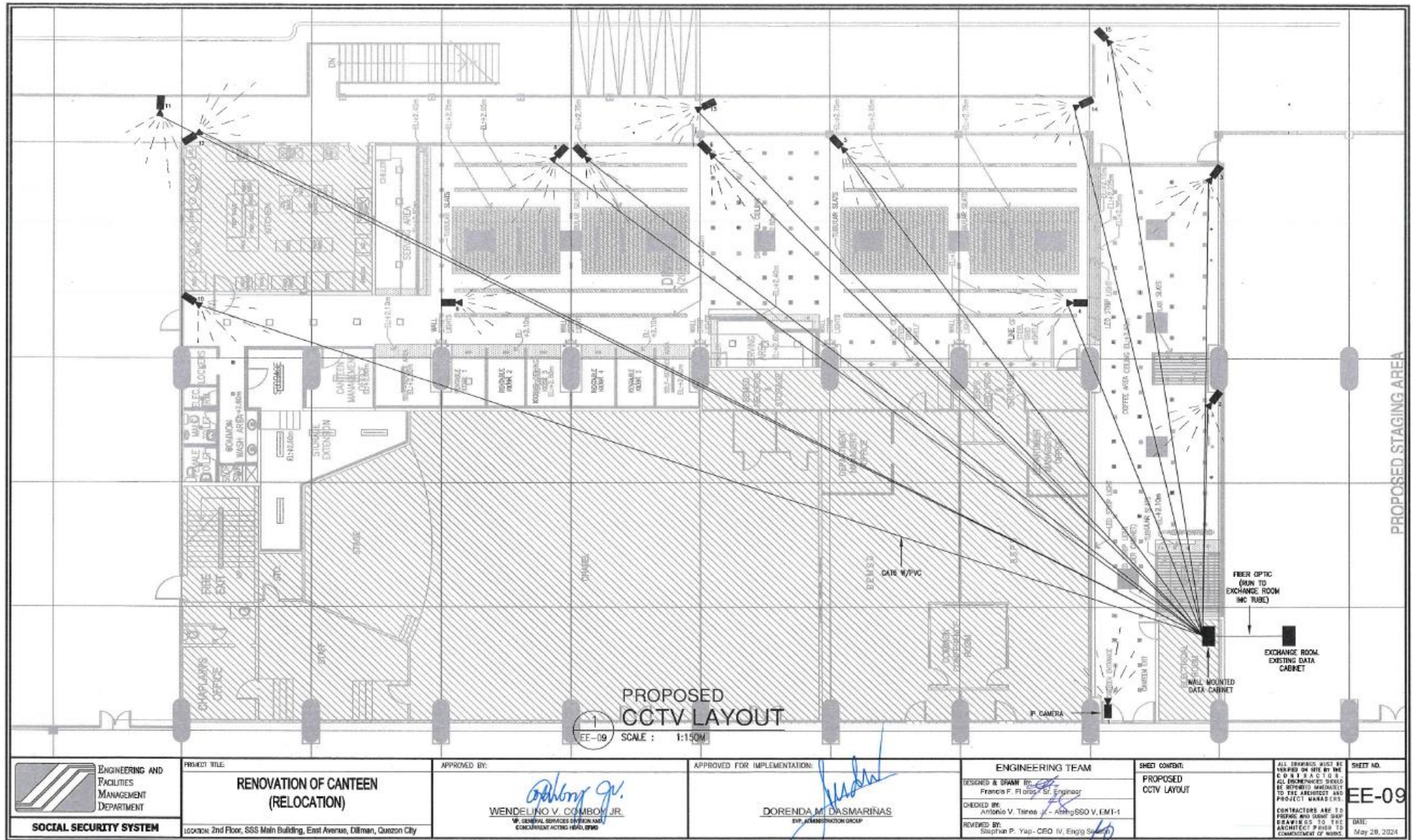
eh








ed



 <p>ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT</p> <p>SOCIAL SECURITY SYSTEM</p>	<p>PROJECT TITLE:</p> <p>RENOVATION OF CANTEEN (RELOCATION)</p> <p>LOCATION: 2nd Floor, SSS Main Building, East Avenue, Dillman, Quezon City</p>	<p>APPROVED BY:</p> <p><i>Wendelino V. Comboy Jr.</i></p> <p>WENDELINO V. COMBOY JR. VP, GENERAL SERVICES DIVISION AND CONCURRENT ACTING HEAD, SSS</p>	<p>APPROVED FOR IMPLEMENTATION:</p> <p><i>Dorenda M. Dasmariñas</i></p> <p>DORENDAM. DASMARINAS SVP, ADMINISTRATION GROUP</p>	<p>ENGINEERING TEAM</p> <p>DESIGNED & DRAWN BY: <i>Francis F. Flores Jr., Engineer</i></p> <p>CHECKED BY: <i>Antonio V. Tirona Jr., ASST. SSO V, EMT-1</i></p> <p>REVIEWED BY: <i>Stephen P. Yap - CEO IV, Engrg. Specialist</i></p>	<p>SHEET CONTENT:</p> <p>PROPOSED CCTV LAYOUT</p>	<p>ALL DRAWINGS MUST BE REVIEWED ON SITE BY THE CONTRACTOR. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS.</p> <p>CONTRACTORS ARE TO PROVIDE AND INSTALL SHIP DRAWING SS-10, THE ARCHITECT PERSH TO COMPLETION OF WORK.</p> <p>SHEET NO. EE-09</p> <p>DATE: May 28, 2024</p>
---	---	---	---	--	--	---

ed

GENERAL NOTES: MECHANICAL WORKS

- ALL MECHANICAL DESIGN AND INSTALLATION WORKS SHALL BE IN ACCORDANCE WITH THE LATEST ASHRAE, SMACNA STANDARDS, PSME CODE, NATIONAL BUILDING CODE AND THE CITY ORDINANCES.
- THE TOTAL SCOPE OF WORK SHALL INCLUDE ALL WORKS DESCRIBED IN PLANS AND LISTED IN THE TECHNICAL SPECIFICATIONS FOR MECHANICAL WORKS.
- THE WORKS SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL TRADES SUPERVISED BY ENGINEERING PRACTITIONER.
- ALL AIR CONDITIONED SPACES SHALL BE MAINTAINED AT 22°C TO 24°C Db @ 50% ±5 RH.
- CONTRACTOR/SUPPLIER SHALL INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE BALANCING, TESTING AND COMMISSIONING OF THE WHOLE VENTILATION AND AIR CONDITIONING SYSTEM AS INSTALLED.
- ALL POWER WIRINGS UP TO CIRCUIT BREAKER SHALL BE BY ELECTRICAL CONTRACTOR AND FROM CIRCUIT BREAKER TO EQUIPMENT BY MECHANICAL CONTRACTOR, SEE NOTE UNDER SEQUENCE OF OPERATION.
- VERIFY LOCATION OF THERMOSTAT IN COORDINATION TO ARCHITECTURAL LOCATION.
- APPROVIDE PIPE SLEEVES FOR ALL PIPING PASSING THROUGH BUILDING STRUCTURE.
- PIPE INSULATION SHALL BE 15mm THK ELASTOMERIC RUBBER FOR DRAIN LINES AND 25mm THK ELASTOMERIC RUBBER WITH VAPOR BARRIER FOR REFRIGERANT LINES.
- PIPE ALL EQUIPMENT CONDENSATE DRAIN LINE TO THE NEAREST FLOOR DRAIN, DRAIN STUB-OUT OR CATCH BASIN PROVIDED BY THE PLUMBING CONTRACTOR. USE MINIMUM OF 25mm, POC DRAIN LINE.
- ALL REFRIGERANT PIPE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING FOR 5TR AND TYPE "M" FOR BELOW 5TR.
- PITCH ALL HORIZONTAL REFRIGERATION LINE WITH A MINIMUM OF 13mm IN 3m IN THE DIRECTION OF REFRIGERANT FLOW.
- PROVIDE OIL TRAP WHEN EVER FAN COIL UNIT ELEVATION IS BELOW THE ACCU.
- USE THE NEXT BIGGER SIZE REFRIGERANT PIPE WHEN THE TOTAL EQUIVALENT LENGTH IS MORE THAN 25M.
- ALL INCIDENTAL MATERIALS AND SERVICES ESSENTIAL TO THE COMPLETION OF THE PROJECT SHALL BE PROVIDED AND RENDERED AT THE CONTRACTOR'S LIABILITY AND RESPONSIBILITIES.
- APPROPRIATE MOUNTING AND SUPPORTS SHALL BE PROVIDED TO RIGIDLY SECURE ALL INSTALLATION.
- ALL EXHAUST FANS TO BE CONNECTED TO A FLEXIBLE DUCT PIPE THEN, TAPPED TO EXISTING EXHAUST STUB-OUT PROVISION.

EQUIPMENT SCHEDULE FOR AIR-CONDITIONING SYSTEM

DESIGNATION	DESCRIPTION	COOLING CAPACITY		BLOWER FAN DATA				APPROXIMATE PIPING LENGTH (M)	AREA SERVED	DESIGNATION	AIR DISCHARGE	CONDENSER DATA				BREMER DATA		LOCATION	
		TR/HP	RTU/HR	DRIVE	VOLT	PHASE	HERTZ					DRIVE	VOLT	PHASE	HERTZ	AT	PHASE		MAC
FCU 1	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	79	DINING AREA A	ACCU 1	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 2	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	102	DINING AREA A	ACCU 2	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 3	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	112	DINING AREA A	ACCU 3	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 4	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	128	DINING AREA B	ACCU 4	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 5	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	144	DINING AREA C	ACCU 5	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 6	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	160	DINING AREA C	ACCU 6	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO
FCU 7	CEILING CASSETTE	4 TR	48000	DIRECT	220	1	60	154	DINING AREA C	ACCU 7	HORIZONTAL	DIRECT	220	1	60	40	1	18	OPEN DECK
FCU 8	CEILING CASSETTE	3 TR	36000	DIRECT	220	1	60	141	COFFEE DINING	ACCU 8	HORIZONTAL	DIRECT	220	1	60	40	1	18	OPEN DECK
FCU 9	CEILING CASSETTE	3 TR	36000	DIRECT	220	1	60	125	COFFEE DINING	ACCU 9	HORIZONTAL	DIRECT	220	1	60	40	1	18	OPEN DECK
FCU 10	CEILING CASSETTE	3 TR	36000	DIRECT	220	1	60	105	COFFEE DINING	ACCU 10	HORIZONTAL	DIRECT	220	1	60	40	1	18	OPEN DECK
FCU 11	CEILING CASSETTE	3 TR	36000	DIRECT	220	1	60	86	COFFEE DINING	ACCU 11	HORIZONTAL	DIRECT	220	1	60	40	1	18	OPEN DECK
FCU 12	WALL MOUNTED	1.5 HP	18000	DIRECT	220	1	60	86	CANTEEN MANAGEMENT OFFICE	ACCU 12	HORIZONTAL	DIRECT	220	1	60	40	1	18	AL PRESCO

1
M-01

GENERAL NOTES AND EQUIPMENT SCHEDULE

SCALE: NTS

MECHANICAL LEGEND & ABBREVIATION

ACCU	AIR-COOLED CONDENSING UNIT	●●	REFRIGERANT PIPE RISER	EF	EXHAUST FAN
FCU	FAN COIL UNIT		CEILING MOUNTED EXHAUST FAN	AC	AIR CURTAIN
↔	AIR FLOW	—	AIR-CURTAIN	CFM	CUBIC FEET PER MINUTE
□	AIR-COOLED CONDENSING UNIT	KW	KILOWATTS	PH	PHASE
⊗	FAN COIL UNIT	V	VOLTS	HZ	HERTZ
HP	EQUIPMENT NUMBER	HP	HORSE POWER	N	BRAND NEW UNIT

EQUIPMENT SCHEDULE: VENTILATING FANS

DESIGNATION	TYPE	DESCRIPTION	SUPPLY AIR CFM	MOTOR RATINGS WATTS	FAN EFFICIENCY (MINIMUM)	DRIVE	ELECTRICAL CHARACTERISTICS			LOCATION		REMARKS
							VOLTS	PHASE	HERTZ	FLOOR	AREA SERVED	
AC 1 - N	AIR-CURTAIN	3m EFFECTIVE DISTANCE	700 (MINIMUM)	80-120	80	DIRECT	230	1	60	SECOND	MAIN ENTRANCE/EXIT	PROPOSED UNIT
AC 2 - N	AIR-CURTAIN	3m EFFECTIVE DISTANCE	700 (MINIMUM)	80-120	80	DIRECT	230	1	60	SECOND	MAIN ENTRANCE/EXIT	PROPOSED UNIT
EF 1 - N	EXHAUST FAN	CEILING TYPE W/ SHUTTER	200 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	FEMALE TOILET	PROPOSED UNIT
EF 2 - N	EXHAUST FAN	CEILING TYPE W/ SHUTTER	200 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	MALE TOILET	PROPOSED UNIT
WEF 1 - N	EXHAUST FAN	WALL TYPE W/ SHUTTER	500 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	SERVING AREA	PROPOSED UNIT
WEF 2 - N	EXHAUST FAN	WALL TYPE W/ SHUTTER	500 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	DINING AREA A	PROPOSED UNIT
WEF 3 - N	EXHAUST FAN	WALL TYPE W/ SHUTTER	500 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	DINING AREA C	PROPOSED UNIT
WEF 4 - N	EXHAUST FAN	WALL TYPE W/ SHUTTER	500 (MINIMUM)	30-50	80	DIRECT	230	1	60	SECOND	COFFEE DINING	PROPOSED UNIT



PROJECT TITLE:
RENOVATION OF CANTEEN (RELOCATION)

LOCATION:
2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City

RECOMMENDING APPROVAL:

WENDELMO V. COMBOY JR.
VICE PRESIDENT, CIVIL AND
CONCURRENT ACTING HEAD, ADM. GROUP

APPROVED BY:

DOREANDA M. DASMARIÑAS
VP, PROCUREMENT MANAGEMENT DIVISION AND
CONCURRENT ACTING HEAD, ADM. GROUP

ENGINEERING SECTION

DESIGNED & DRAWN BY:
Doreanda M. Dasmariñas, Jr. Engineer, EMT
CHECKED BY:
Armando V. Triana, Jr. - Acting SSS-VP EMT
REVIEWED BY:
Stephen P. Yap, SSS-VP, Engineer

SHEET CONTENT:

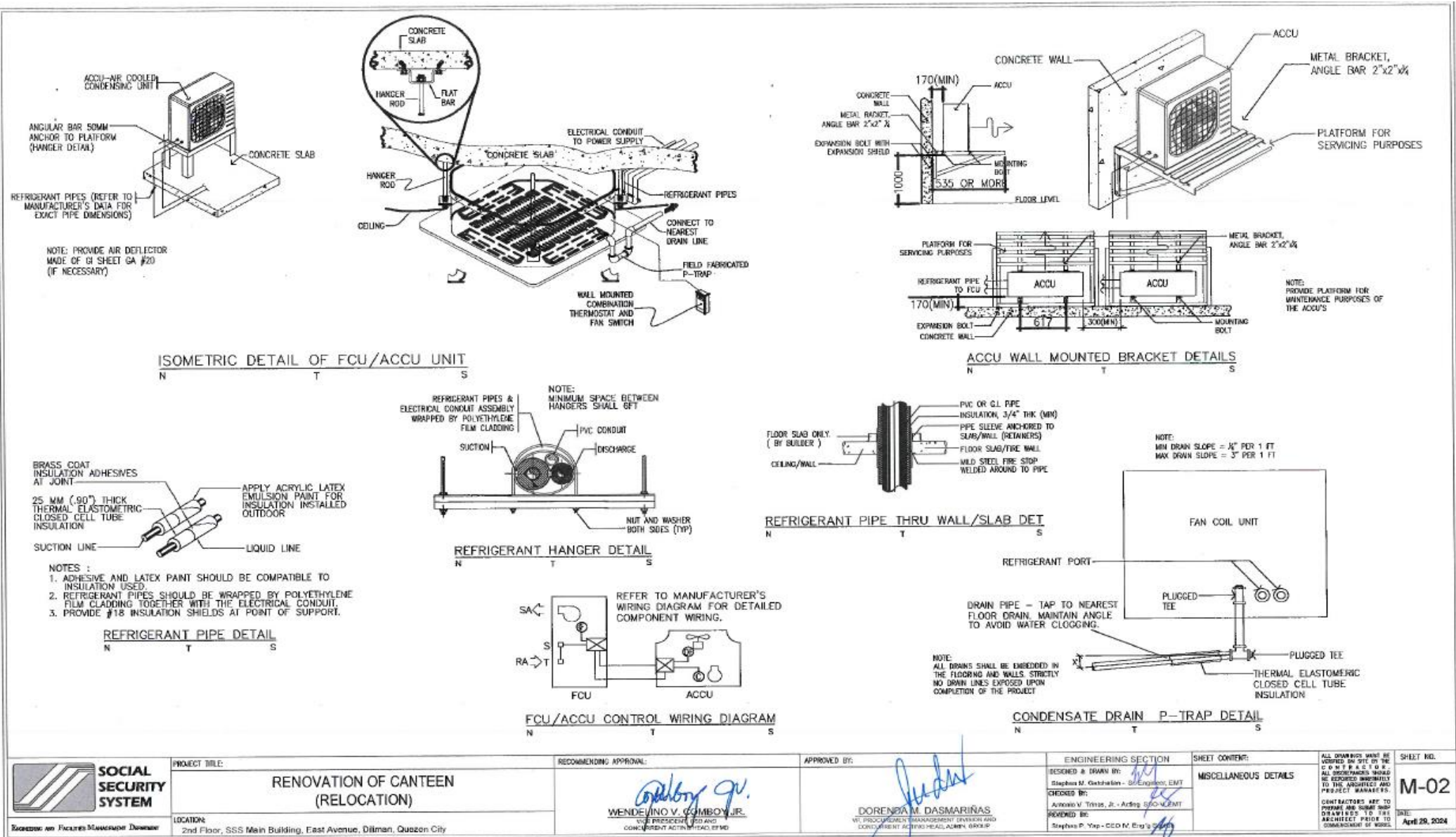
GENERAL NOTES AND
EQUIPMENT SCHEDULE

ALL DRAWINGS MUST BE
REVIEWED FOR SPEC BY THE
CONTRACTOR.
ALL DISCREPANCIES SHOULD
BE REPORTED IMMEDIATELY
TO THE ARCHITECT AND
PROJECT MANAGERS.
CONTRACTORS ARE TO
PROVIDE AND SIGNIFY
DRAWINGS TO THE
ARCHITECT PRIOR TO
COMMENCEMENT OF WORK.

SHEET NO.

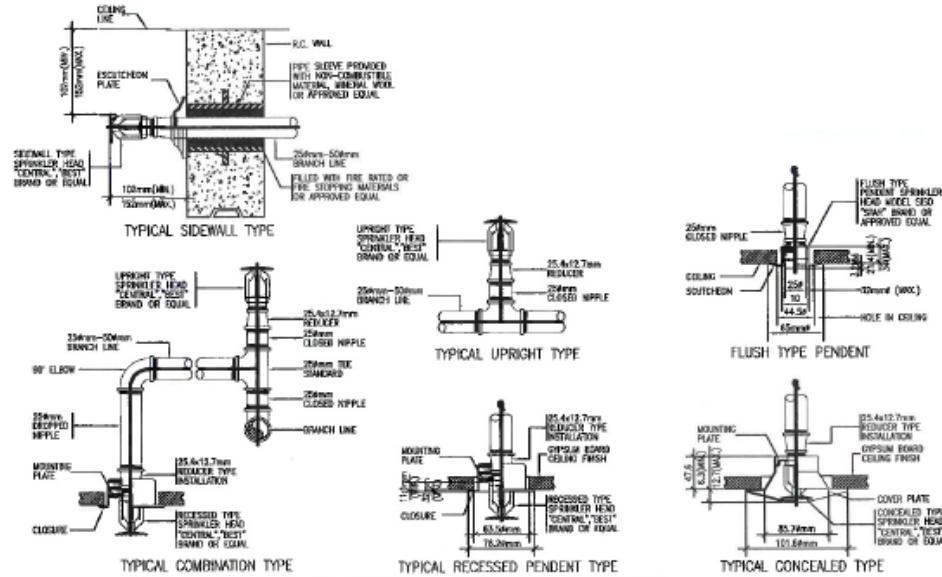
M-01

DATE:
April 25, 2024



GENERAL NOTES: FIRE PROTECTION WORKS

- ALL WORKS HEREIN INCLUDED SHALL BE EXECUTED ACCORDING TO THE PROVISION OF THE FIRE CODE OF THE PHILIPPINES AND NFPA.
- THE WORK SHALL BE EXECUTED IN CLOSE COORDINATION WITH ALL TRADES.
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE EXACT LOCATION AND DIMENSIONS OF ALL REQUIRED WALL AND FLOOR OPENINGS.
- PIPE SUPPORT, HANGERS AND BRACINGS SHALL BE OF THE APPROVED TYPE AND SHALL BE INDEPENDENT FROM CEILINGS AND DUCT SUPPORTS.
- ALL PIPING SHALL BE HYDROTESTED AT 200 psi FOR 2 HOURS BY THE FIRE PROTECTION CONTRACTOR. HYDROSTATIC TESTS SHALL BE DONE ACCORDING TO NFPA STANDARDS.
- ALL PIPINGS SHALL BE PAINTED WITH RED OXIDE PRIMER AND 2 COATS OF RED ENAMEL FINISH BY THE FIRE PROTECTION CONTRACTOR
- SPRINKLER TEMP. RATING SHALL BE 155F FOR ORDINARY ROOMS
- PROVIDE STEEL PIPE SLEEVES ON PIPE PENETRATING CONCRETE WALLS.
- PIPE MATERIAL: BLACK IRON PIPE SCHEDULE 40, ASTM A53, ERW

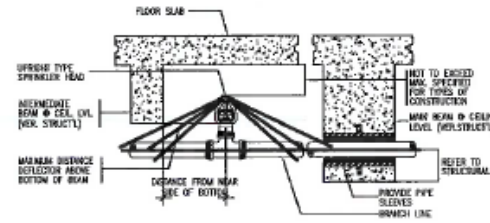


DETAIL OF SPRINKLER HEADS

1
FP-01

GENERAL NOTES AND MISCELLANEOUS DETAILS

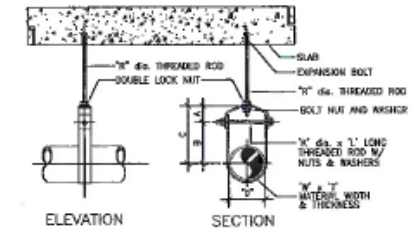
SCALE: NTS



POSITION OF DEFLECTOR WHEN LOCATED ABOVE BOTTOM OF BEAM

DISTANCE FROM SPRINKLER TO SIDE OF BEAM	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF BEAM
0.00 TO LESS THAN 0.3M	0.00M
0.30 TO LESS THAN 0.6M	0.02M
0.60 TO LESS THAN 0.75M	0.05M
0.75 TO LESS THAN 0.91M	0.08M
0.91 TO LESS THAN 1.10M	0.10M
1.10 TO LESS THAN 1.23M	0.15M
1.22 TO LESS THAN 1.37M	0.18M
1.37 TO LESS THAN 1.52M	0.23M
1.52 TO LESS THAN 1.70M	0.28M
1.70 TO LESS THAN 1.80M	0.36M

DETAIL OF SPRINKLER HEADS MOUNTING LOCATED ABOVE / BOTTOM OF BEAMS



CLEVIS HANGERS

TABLE OF DIMENSIONS IN MM

PIPE SIZE D" (MM)	ROD DIA. IN" (MM)	B	C	A MAX.	W x T	K x L
50	0.85	111.12	143	69.30	25 x 3	M10 x 85
75	1.27	105.0	165.1	30.23	40 x 6	M12 x 115
100	1.59	133.35	40	33.27	40 x 6	M12 x 130
150	19.1	176.12	267	50.00	40 x 6	M16 x 190

DETAIL OF PIPE HANGER

3
FP-01



SOCIAL SECURITY SYSTEM

Engineering and Facilities Management Division

PROJECT TITLE:
RENOVATION OF CANTEN (RELOCATION)

LOCATION:
2nd Floor, SSS Main Building, East Avenue, Diliman, Quezon City

RECOMMENDING APPROVAL:

Wendelino V. Comboy Jr.
WENDELINO V. COMBOY JR.
VICE PRESIDENT, GENERAL MANAGER
CONCURRENT ACTING HEAD, GROUP

APPROVED BY:

Dorenda M. Dasmarinas
DOREND M. DASMARINAS
VP, PROCUREMENT MANAGEMENT DIVISION AND
CONCURRENT ACTING HEAD, GROUP

ENGINEERING SECTION

DESIGNED & DRAWN BY:
Stephen M. Galbanian
CHECKED BY:
Armando V. Triana Jr.
REVIEWED BY:
Stephen P. Yap

SHEET CONTENT

GENERAL NOTES AND MISCELLANEOUS DRAWINGS

ALL DRAWINGS MUST BE APPROVED ON SITE BY THE CONTRACTOR. ALL REVISIONS SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS.

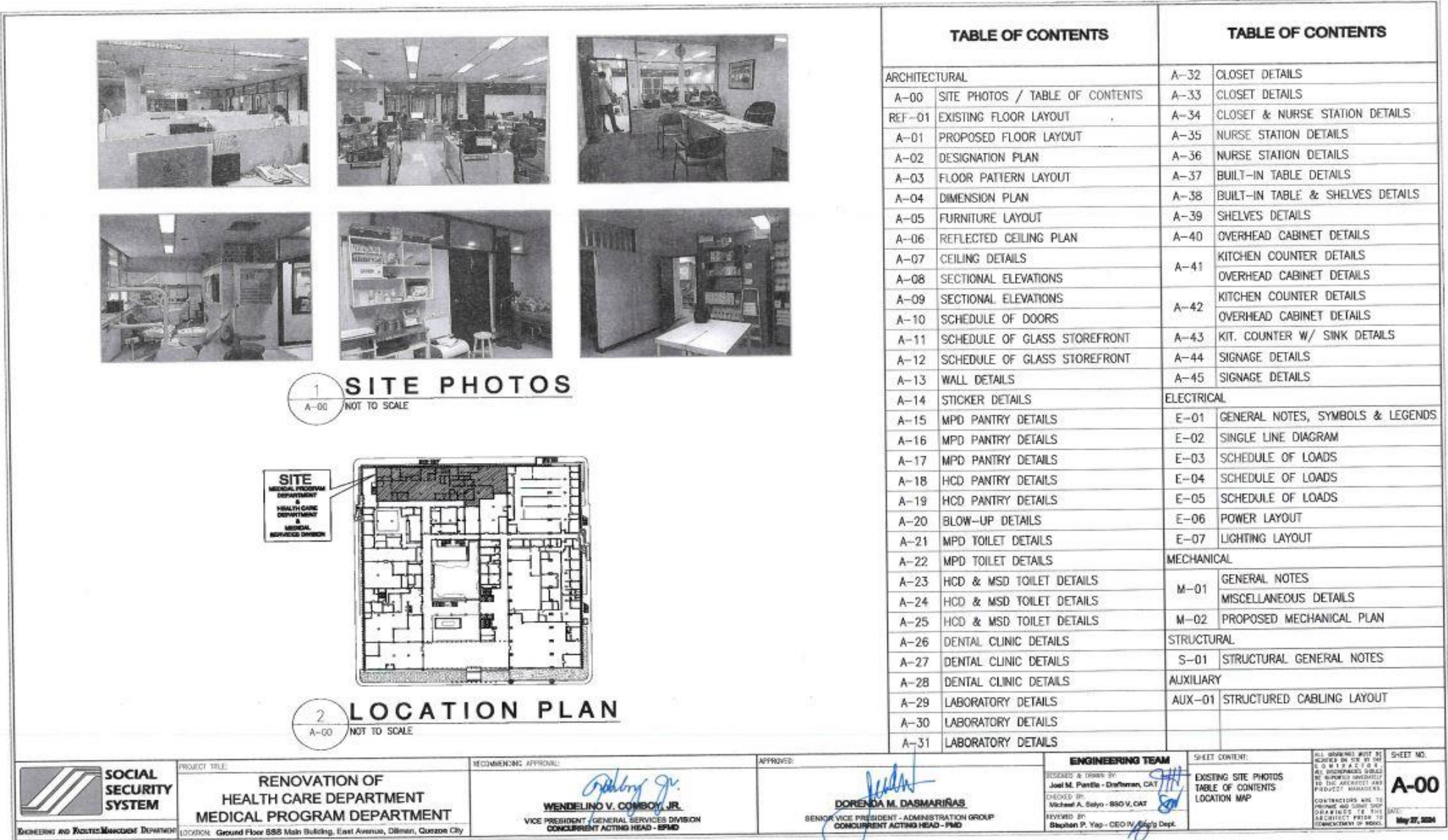
CONTRACTORS ARE TO REVISION AND REVISION SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

SHEET NO.

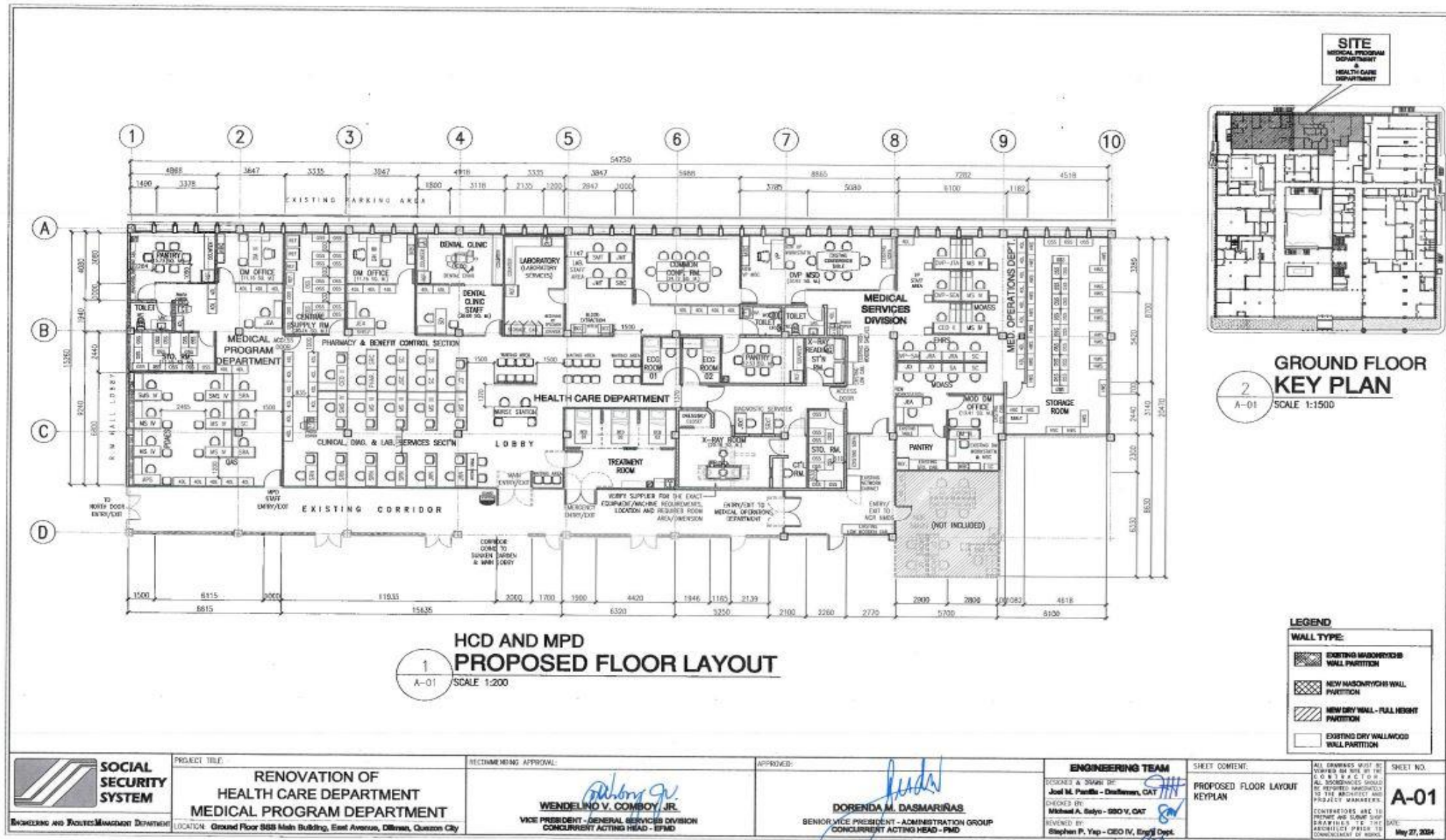
FP-01

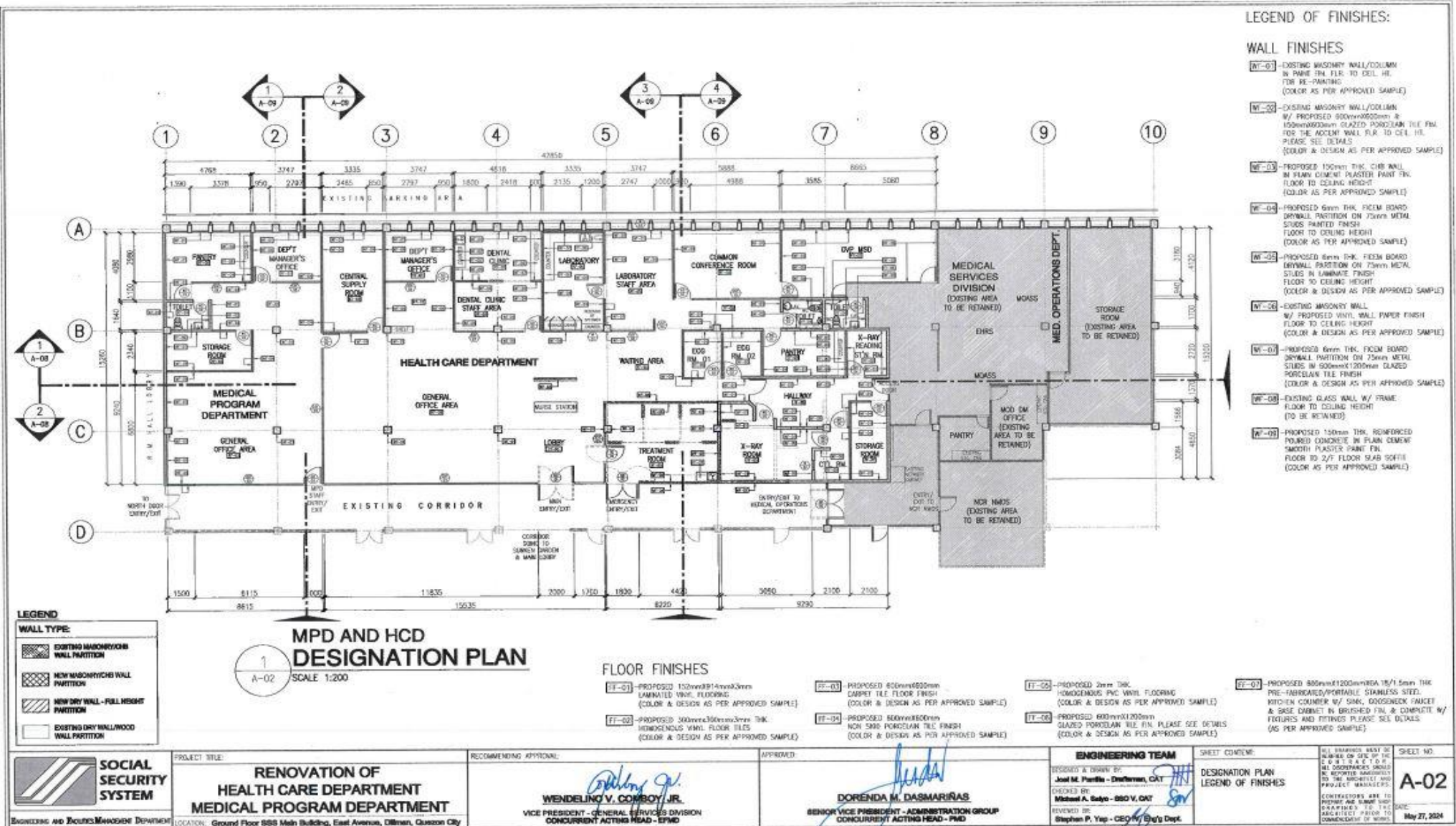
DATE:
April 29, 2024

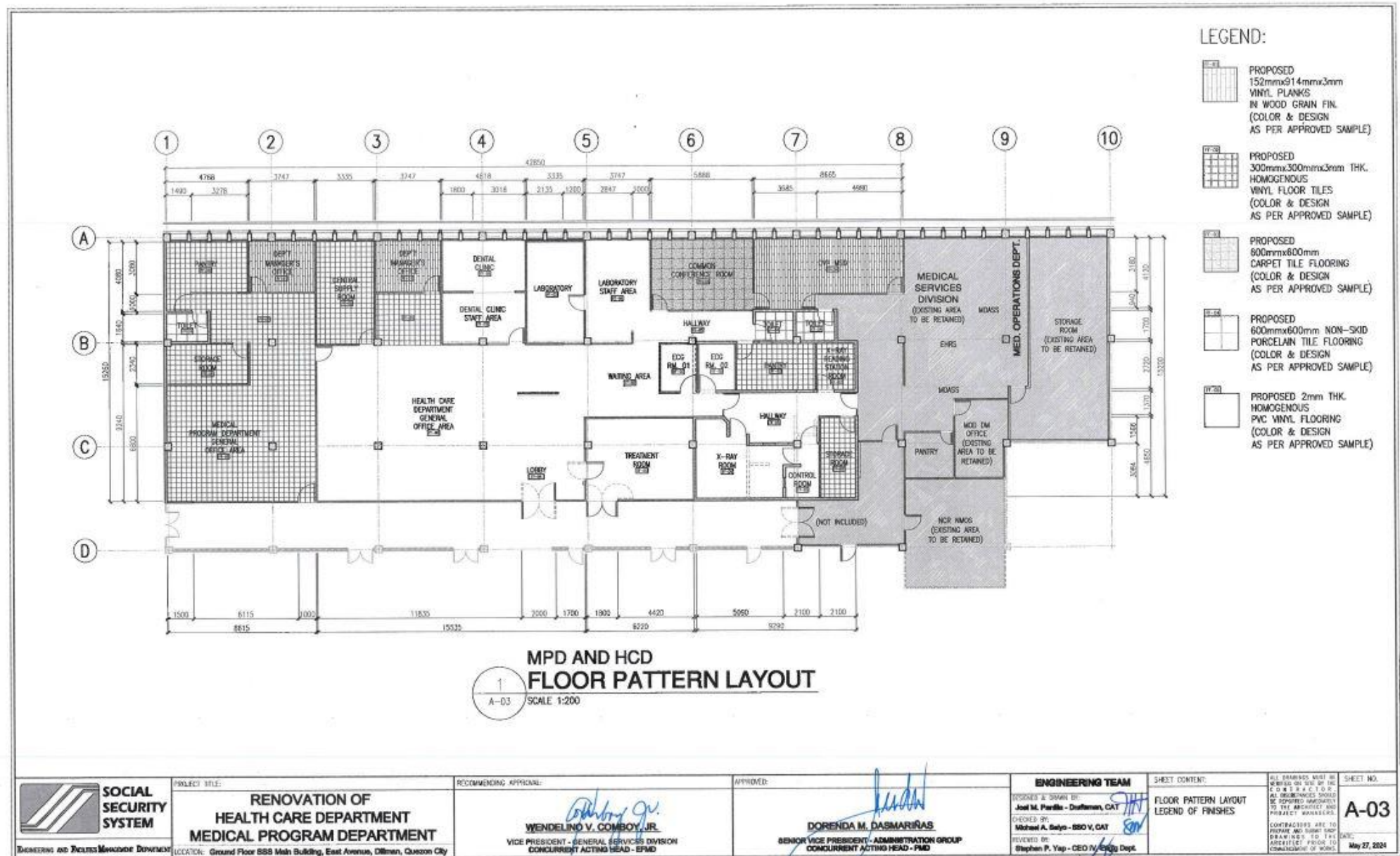
LOT 2 – RENOVATION OF HCD AND MPD



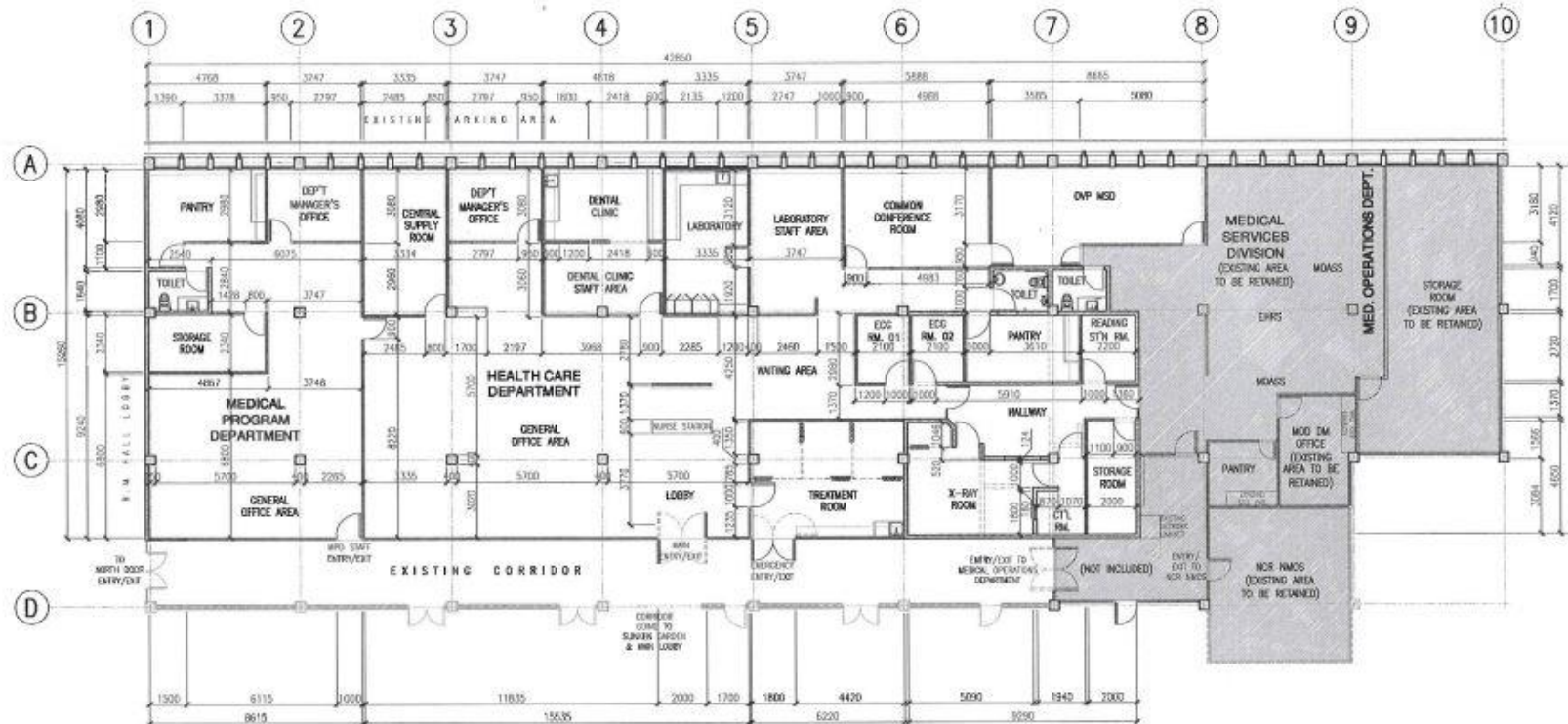
el








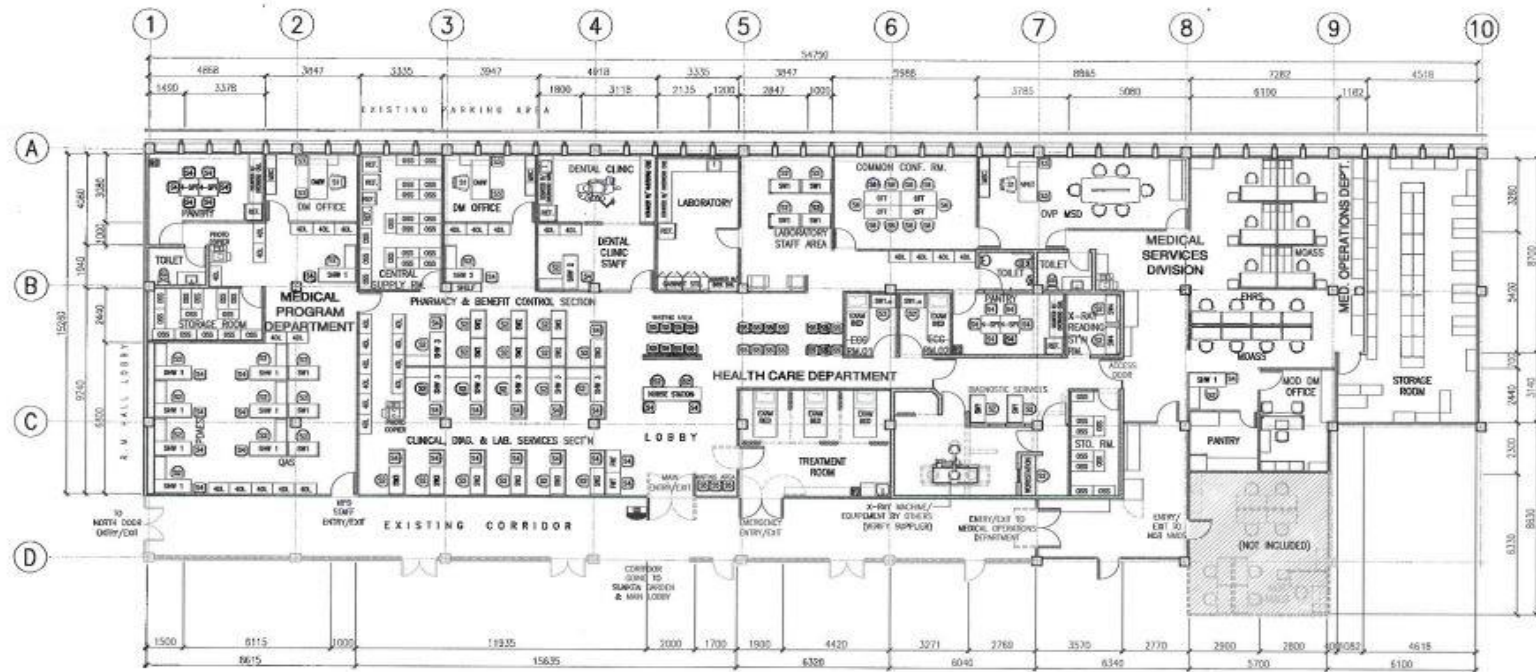


eh



 SOCIAL SECURITY SYSTEM ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT LOCATION: Ground Floor BSB Main Building, East Avenue, Diliman, Quezon City	RECOMMENDING APPROVAL:  WENDELINO V. COMBOY JR. VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - EPMD	APPROVED:  DOREND M. DASMARIÑAS SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMO	ENGINEERING TEAM DESIGNED & DRAWN BY: Josef M. Parilla - Designer, CAT CHECKED BY: Michael A. Salvo - SSO V. DAY REVIEWED BY: Stephen P. Yap - CEO IV, Bldg. Dept.	SHEET CONTENT: DIMENSION PLAN	SHEET NO. A-04 May 27, 2024
---	---	---	--	---	---	---

sh



MPD AND HCD
FURNITURE LAYOUT
 1
 A-05 SCALE 1:200

- MODULAR OFFICE SYSTEM**
- VPET - VP EXECUTIVE TABLE
 - DMET - DM EXECUTIVE TABLE
 - SHW 1 - SECTION HEAD WORKSTATION w/ front and 1-side panel (1 seater)
 - SHW 2 - SECTION HEAD WORKSTATION w/ 2-side panel
 - SHW 3 - SECTION HEAD WORKSTATION w/ 1-side and front w/ extension panels
 - SW1 - STAFF WORKSTATION (1 seater) w/ front & side panel
 - SW1.2 - STAFF WORKSTATION (1m length & 1 seater) w/ front & side panel
 - SW2 - STAFF WORKSTATION (2 seater) w/ front & side panel
 - SW3 - STAFF WORKSTATION w/ 1-side and front w/ extension panels
 - SW4 - STAFF WORKSTATION (1 seater) w/ 2-side panel
- SEATING FURNITURE**
- S1 - EXECUTIVE CHAIR, HIGH BACK
 - S2 - SUPERVISOR & STAFF'S CHAIR, MID BACK
 - S3 - GUEST CHAIR 1, MID BACK, CANTILEVER TYPE (FOR EXECUTIVES)
 - S4 - GUEST CHAIR 2, SLED BASE
 - S5 - STACKABLE CHAIR
 - S6 - CONFERENCE ROOM MEETING TABLE CHAIR, LOW BACK
- CHAIRS AND TABLES**
- FWT - FREE STANDING WRITING TABLE (1.00m x 0.60m)
 - CFT - CONFERENCE FOLDABLE TABLE 4-8FT - 4 SEATER PANTRY TABLE
- STEEL SHELVES, CABINET, DRAWERS**
- OSB - 8 LAYER OPEN STEEL SHELVES
 - ADL - 4 DRAWER LATERAL FILING CABINET
- CONTRACT FURNITURE**
- MBC - MANAGER'S BACK CABINET
 - GS - GUARD'S BOOTH STATION
- OTHERS**
- EXAM BED

 SOCIAL SECURITY SYSTEM <small>ENGINEERING AND FACILITIES MANAGEMENT DIVISION</small>	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL: <div style="text-align: center;"> WENDELINO V. COMBOY JR. <small>VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - EPMD</small> </div>	APPROVED: <div style="text-align: center;"> DORENDA M. DASMARINAS <small>SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMD</small> </div>	ENGINEERING TEAM <small>DESIGNED & DRAWN BY:</small> Joel M. Parilla - Drafterman, CAT <small>CHECKED BY:</small> Michael A. Salvo - SSO V, CAT <small>REVIEWED BY:</small> Stephen P. Yap - CEO IV, Engg Dept.	SHEET CONTENT: FURNITURE LAYOUT	<small>ALL DIMENSIONS MUST BE VERIFIED ON SITE BY THE CONTRACTOR. A. DIMENSIONS SHOULD BE DERIVED UNLESS OTHERWISE SPECIFIED TO THE ARCHITECT AND PROJECT MANAGERS.</small> <small>CONTRACTORS ARE TO FURNISH AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.</small> SHEET NO. A-05 DATE May 27, 2024
	LOCATION: Ground Floor 888 Main Building, East Avenue, Diliman, Quezon City					

EXISTING:

- EXISTING SPRINKLER
(TO BE RETAINED &
FOR CLEANING OR FOR REPAIR)
- EXISTING PABGM
(TO BE RETAINED &
FOR CLEANING OR FOR REPAIR)
- EXISTING SMOKE DETECTOR
(TO BE RETAINED &
FOR CLEANING OR FOR REPAIR)

- EXISTING CEILING MOUNTED
WIFI ACCESS POINT
(TO BE RETAINED & PLEASE
SEE RCP FOR THE
RELOCATED ITEM)

- EXISTING ACU SUPPLY DIFFUSER
(TO BE RETAINED & FOR RE-Painting,
CLEANING OR FOR REPAIR)

- EXISTING RETURN GRILL
(TO BE RETAINED &
FOR CLEANING OR FOR REPAIR)

- EXISTING 150mmx1200mm
RECESSED MOUNTED
FLUORESCENT LIGHTING FIXTURE
(SELECT UNIT IN GOOD CONDITION
FOR RE-USE & TO BE CLEAN)

NOTE:

-PLEASE VERIFY ACTUAL LOCATION & ACTUAL CONDITION (IF
FOR REPAIR & FOR RELOCATION-SEE RCP) OF THE
FANS-SPRINKLER HEAD, SMOKE DETECTOR, CEILING MOUNTED
WIFI ACCESS POINT, PUBLIC ADDRESS SPEAKER/PABGM, ACU
SUPPLY DIFFUSER, RETURN GRILL, ETC.

-PLEASE VERIFY ELECTRO-MECHANICAL FOR THE ADDITIONAL
NUMBER OF FANS-SPRINKLER HEAD, SMOKE DETECTOR,
CEILING MOUNTED WIFI ACCESS POINT, PUBLIC ADDRESS
SPEAKER/PABGM, ACU SUPPLY DIFFUSER, RETURN GRILL, ETC.

PROPOSED:

- 600mmx1200mm
RECESSED MOUNTED
FLUORESCENT
LIGHTING FIXTURE

- 150mmx1200mm
RECESSED MOUNTED
FLUORESCENT
LIGHTING FIXTURE

- 180 DEG. BEND
DOWNLIGHT FIXTURE

- DOWNLIGHT FIXTURE

- TS COVE LIGHTING

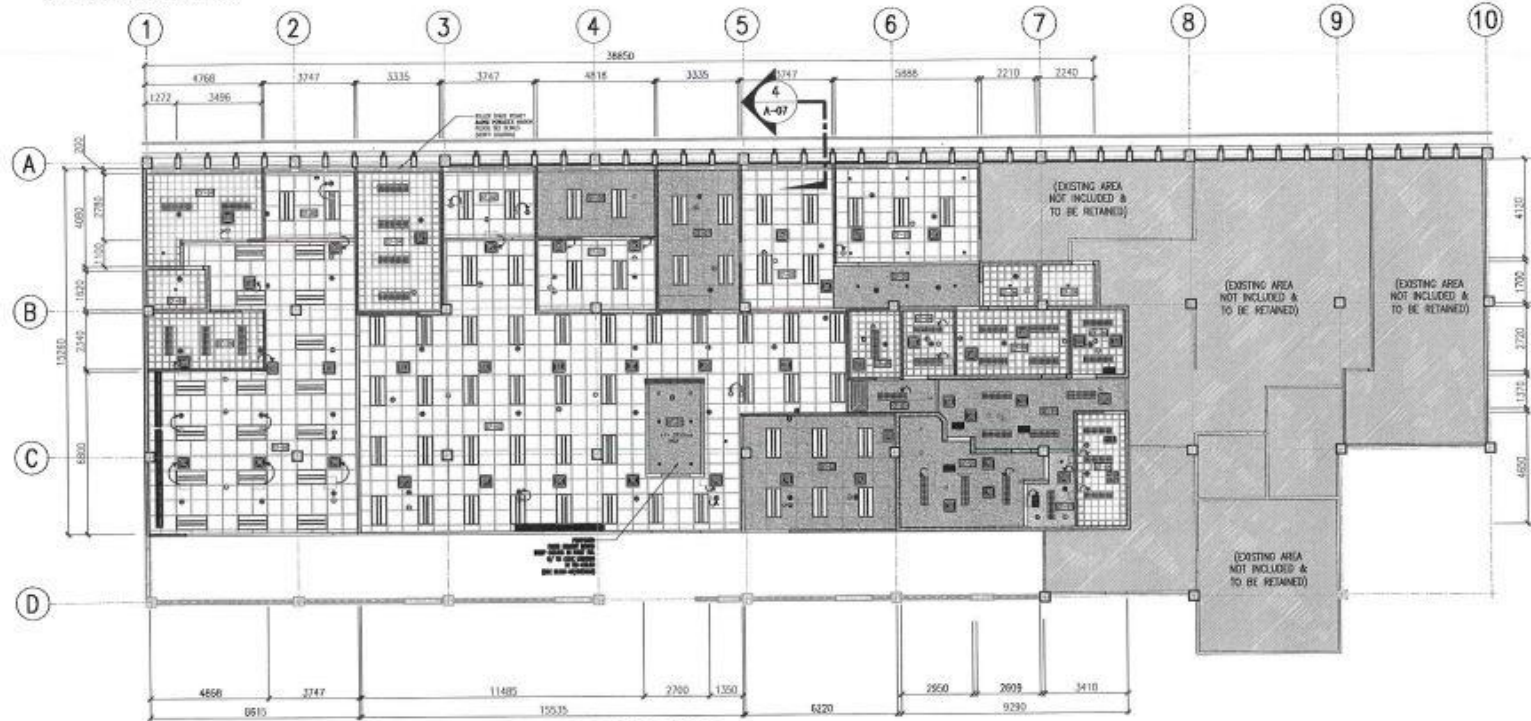
- 6mm THK FIBER
CEMENT BOARD
ON LIGHT METAL
FRAMES PAINTED
FINISH

- 600x600x16mm THK
ACOUSTIC CEILING
BOARD ON CMT
POWDER COATED
ALUMINUM FRAME

- 600x600x6mm THK
MOISTURE RESIST
FIBER CEMENT CEILING
BOARD ON CMT POWDER
COATED ALUMINUM FRAME

- EXISTING CEILING PANEL
PAINTED FINISH
(FOR RE-PAINTING &
FOR REPLACEMENT/
REPAIR OF DAMAGES
PANEL/AREA)

- RELOCATED UNIT
PLEASE SEE RCP
FOR REFERENCE



MPD AND HCD REFLECTED CEILING PLAN

1
A-06
SCALE 1:200



PROJECT TITLE:
**RENOVATION OF
HEALTH CARE DEPARTMENT
MEDICAL PROGRAM DEPARTMENT**

RECOMMENDING APPROVAL:
Wendelino V. Comboy Jr.
WENDELINO V. COMBOY JR.
VICE PRESIDENT - GENERAL SERVICES DIVISION
CONCURRENT ACTING HEAD - EPMO

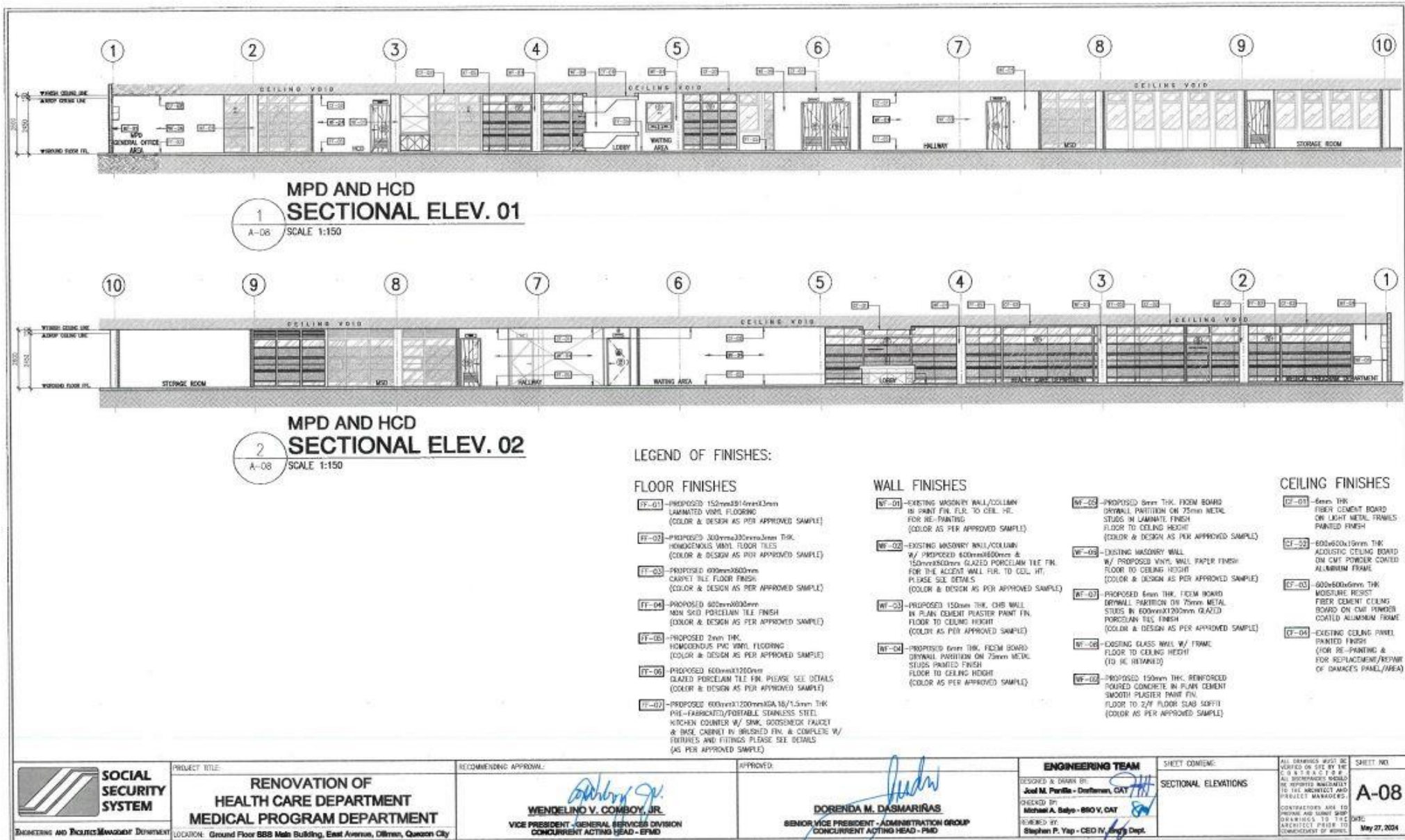
APPROVED:
Dorenda M. Dasmariñas
DORENDA M. DASMARINAS
SENIOR VICE PRESIDENT - ADMINISTRATION GROUP
CONCURRENT ACTING HEAD - PMO

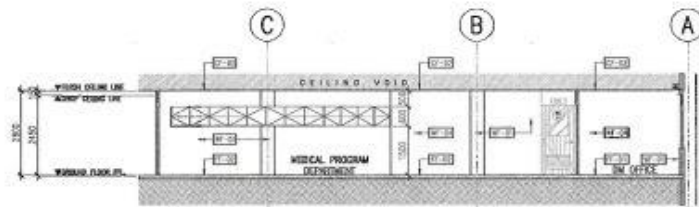
ENGINEERING TEAM
DESIGNED & DRAWN BY:
Joel M. Parilla - Drafter, CAT
CHECKED BY:
Michael A. Salas - EMO V, CAT
REVIEWED BY:
Stephen P. Yap - CEO IV, EMO's Dept.

SHEET CONTENT:
REFLECTED CEILING PLAN

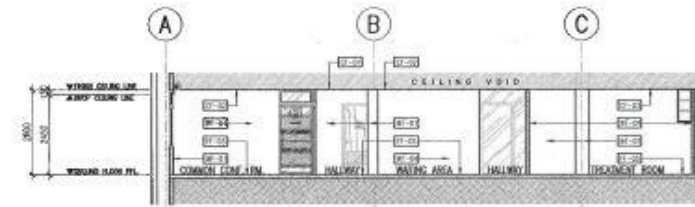
ALL DIMENSIONS MUST BE
VERIFIED ON SITE BY THE
CONTRACTOR. ALL DIMENSIONS
SHALL BE REPORTED IMMEDIATELY
TO THE ARCHITECT AND
PROJECT MANAGER.

SHEET NO.
A-06
DATE:
May 27, 2024

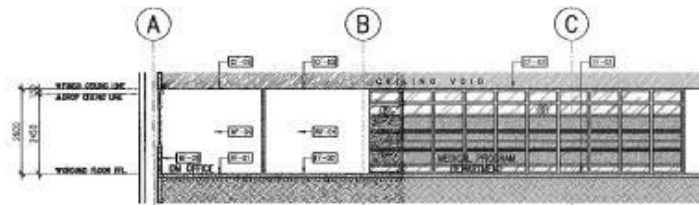




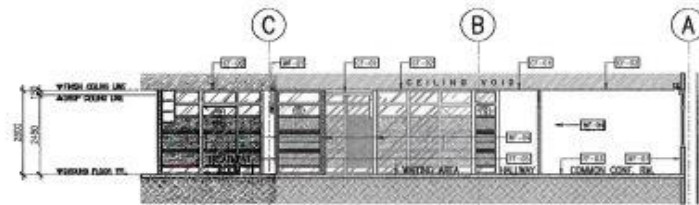
1
A-09
**MPD AND HCD
SECTIONAL ELEV. 03**
SCALE 1:150



4
A-09
**MPD AND HCD
SECTIONAL ELEV. 06**
SCALE 1:150



2
A-09
**MPD AND HCD
SECTIONAL ELEV. 04**
SCALE 1:150



3
A-09
**MPD AND HCD
SECTIONAL ELEV. 05**
SCALE 1:150

LEGEND OF FINISHES:

FLOOR FINISHES

- FF-01 - PROPOSED 152mmx914mmx3mm LAMINATED VINYL FLOORING (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-02 - PROPOSED 300mmx300mmx3mm THK. HOMOGENEOUS VINYL FLOOR TILES (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-03 - PROPOSED 600mmx600mm CARPET TILE FLOOR FINISH (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-04 - PROPOSED 600mmx600mm NON SKID PORCELAIN TILE FINISH (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-05 - PROPOSED 2mm THK. HOMOGENEOUS PVC VINYL FLOORING (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-06 - PROPOSED 150mmx150mmx10mm GLAZED PORCELAIN TILE FIN. PLEASE SEE DETAILS (COLOR & DESIGN AS PER APPROVED SAMPLE)
- FF-07 - PROPOSED 600mmx1200mmx18/21.5mm THK. PRE-FABRICATED/PORTABLE STAINLESS STEEL KITCHEN COUNTER W/ SINK, COORNER FAUCET & BASE CABINET IN BRUSHED FIN. & COMPLETE W/ FIXTURES AND FITTINGS PLEASE SEE DETAILS (AS PER APPROVED SAMPLE)

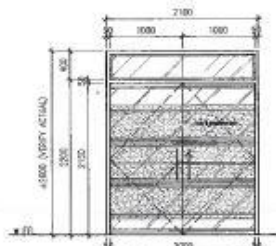
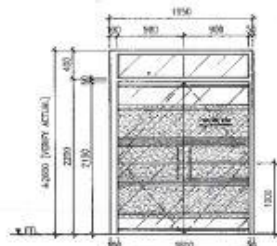
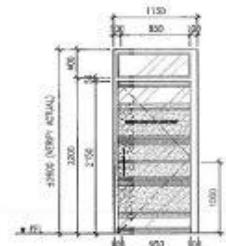
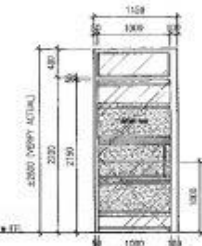
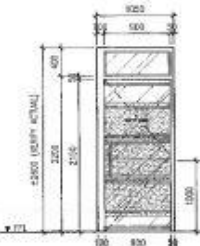
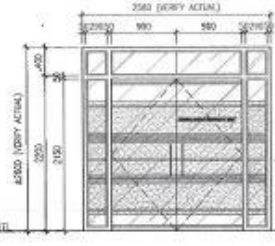
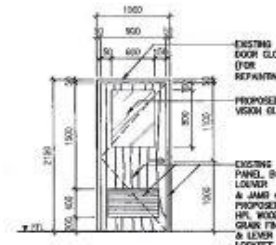
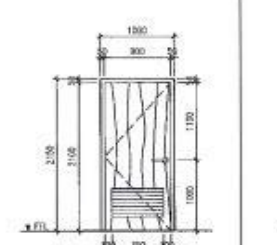
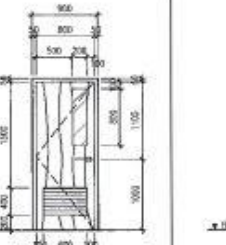
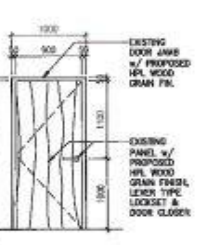
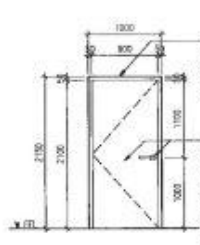
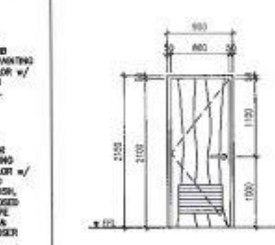

WALL FINISHES

- WF-01 - EXISTING MASONRY WALL/COLUMN IN PLAIN FIN. FLR. TO CEIL. HT. FOR RE-FINISHING (COLOR AS PER APPROVED SAMPLE)
- WF-02 - EXISTING MASONRY WALL/COLUMN W/ PROPOSED 600mmx600mm & 150mmx200mm GLAZED PORCELAIN TILE FIN. FOR THE ACCENT WALL FLR. TO CEIL. HT. PLEASE SEE DETAILS (COLOR & DESIGN AS PER APPROVED SAMPLE)
- WF-03 - PROPOSED 150mm THK. CHB WALL IN PLAIN CEMENT PLASTER PAINT FIN. FLOOR TO CEILING HEIGHT (COLOR AS PER APPROVED SAMPLE)
- WF-04 - PROPOSED 6mm THK. FIRM BOARD DRYWALL PARTITION ON 75mm METAL STUDS PAINTED FINISH (COLOR AS PER APPROVED SAMPLE)
- WF-05 - PROPOSED 6mm THK. FIRM BOARD DRYWALL PARTITION ON 75mm METAL STUDS IN 600mmx1200mm GLAZED PORCELAIN TILE FINISH (COLOR & DESIGN AS PER APPROVED SAMPLE)
- WF-06 - EXISTING GLASS WALL W/ FRAME FLOOR TO CEILING HEIGHT (TO BE RETAINED)
- WF-07 - PROPOSED 150mm THK. REINFORCED POURED CONCRETE IN PLAIN CEMENT SMOOTH PLASTER PAINT FIN. FLOOR TO 2/3 FLOOR SLAB SOFT (COLOR AS PER APPROVED SAMPLE)

CEILING FINISHES


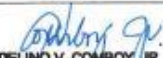




- CF-01 - 6mm THK. FIBER CEMENT BOARD ON LIGHT METAL FRAMES PAINTED FINISH
- CF-02 - 600x600x16mm THK. ACOUSTIC CEILING BOARD ON CHL POWDER COATED ALUMINUM FRAME
- CF-03 - 600x600x16mm THK. MOISTURE RESIST. FIBER CEMENT CEILING BOARD ON CHL POWDER COATED ALUMINUM FRAME
- CF-04 - EXISTING CEILING PANEL. PAINTED FINISH (FOR RE-Painting & FOR REPLACEMENT/REPAIR OF DAMAGES PANEL/AREA)

SOCIAL SECURITY SYSTEM Engineering and Facilities Management Department	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL: WENDELINO V. COMBOY JR. VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - EFMD	APPROVED: DORENDIA M. DASMARINAS SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMD	ENGINEERING TEAM DESIGNED & DRAWN BY: Joel M. Parilla - Drafter, CAT CHECKED BY: Michael A. Salvo - GRG V, CAT REVIEWED BY: Stephen P. Yap - CEO IV, PMD Dept.	SHEET CONTENT: SECTIONAL ELEVATIONS	ALL DRAWINGS MUST BE APPROVED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.	SHEET NO. A-09 May 27, 2024
	LOCATION: Ground Floor 858 Main Building, East Avenue, Diliman, Quezon City						

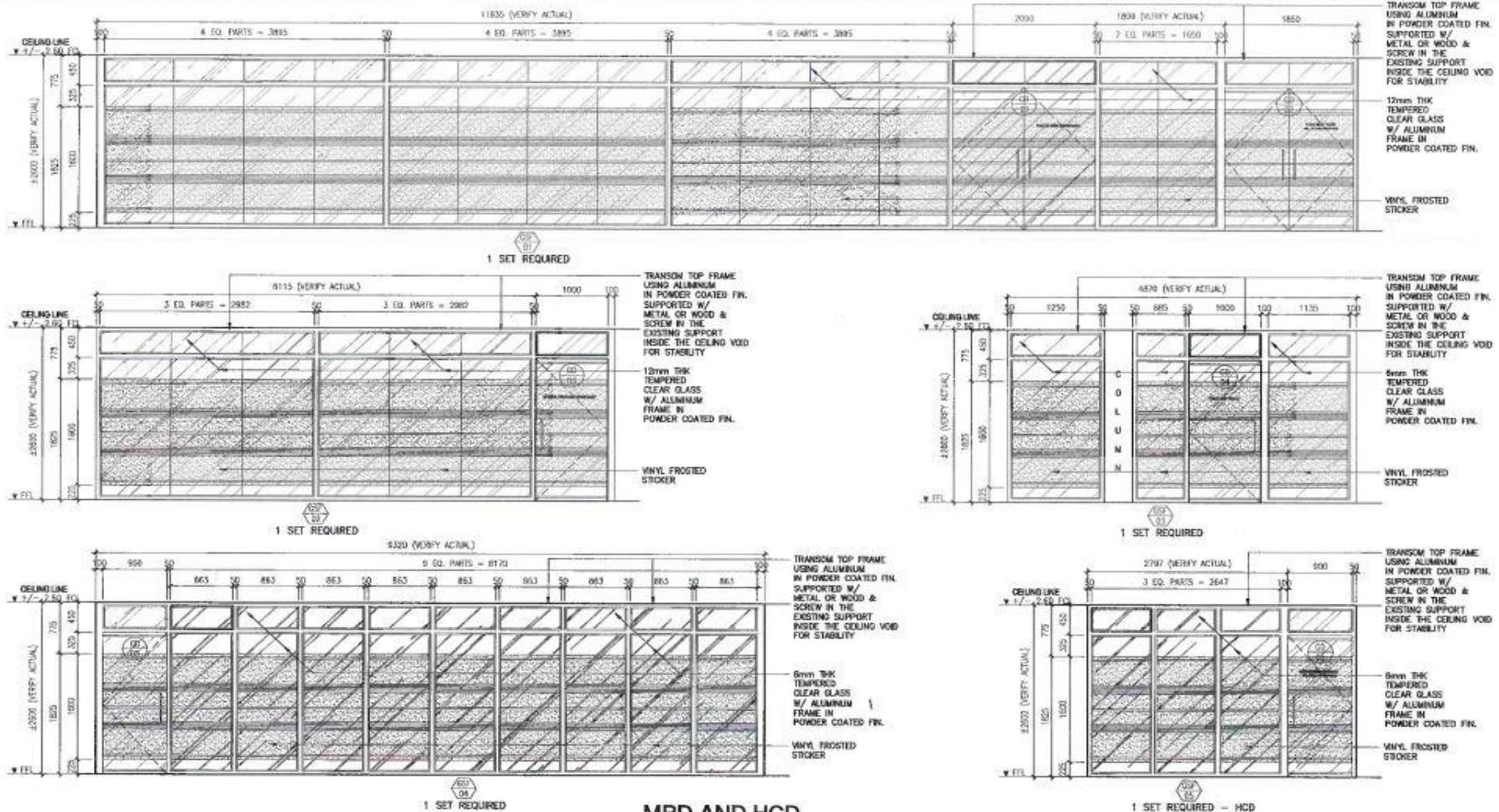
 <p>DESIGNATION: GLASS DOOR 01 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, DOUBLE LEAF & DOUBLE ACTING DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIAMETER H-TYPE STAINLESS STEEL HANDLE, LOCKSETS, COMPLETE w/ HARDWARES AND ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>1 SET REQ'D</p> <p>LOCATION: HCD MAIN ENTRY/EXIT</p>	 <p>DESIGNATION: GLASS DOOR 02 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, DOUBLE LEAF & DOUBLE ACTING DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIAMETER H-TYPE STAINLESS STEEL HANDLE, LOCKSETS, COMPLETE w/ HARDWARES AND ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>1 SET REQ'D</p> <p>LOCATION: TREATMENT ROOM EMERGENCY ENTRY/EXIT</p>	 <p>DESIGNATION: GLASS DOOR 03 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, SINGLE LEAF DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIA. H-TYPE STAINLESS STEEL HANDLE COMPLETE w/ HARDWARES & ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>1 SET REQ'D</p> <p>LOCATION: MPD STAFF ENTRY/EXIT</p>	 <p>DESIGNATION: GLASS DOOR 04 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, SINGLE LEAF DOOR & DOUBLE ACTING DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIA. H-TYPE STAINLESS STEEL HANDLE COMPLETE w/ HARDWARES & ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>1 SET REQ'D</p> <p>LOCATION: HCD TREATMENT ROOM</p>	 <p>DESIGNATION: GLASS DOOR 05 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, SINGLE LEAF DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIA. H-TYPE STAINLESS STEEL HANDLE COMPLETE w/ HARDWARES & ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>7 SETS REQ'D</p> <p>LOCATION: ACCESS DOOR, DENTAL CLINIC, LAB, CONF. RM., DM OFFICE</p>	 <p>DESIGNATION: GLASS DOOR 06 DESCRIPTION: 12mm THK. TEMPERED CLEAR GLASS, DOUBLE LEAF & DOUBLE ACTING DOOR w/ TD-100 TOP & BOTTOM ALUMINUM FRAME IN POWDER COATED FINISH, COMPLETE w/ FITTINGS, GLASS LENGTH & 1" DIAMETER H-TYPE STAINLESS STEEL HANDLE, LOCKSETS, COMPLETE w/ HARDWARES AND ACCESSORIES, w/ VINYL FROSTED STICKER AND CUT-OUT VINYL STICKER SIGNAGE</p> <p>1 SET REQ'D</p> <p>LOCATION: HCD MAIN ENTRY/EXIT</p>	
 <p>DESIGNATION: WOOD DOOR 01 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH & w/ 6mm THK. FIXED CLEAR GLASS VISION PANEL & BOTTOM LOWER, PROPOSED LEVER TYPE LOCKSET, DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>2 SETS REQ'D</p> <p>LOCATION: MPD & HCD PANTRY</p>	 <p>DESIGNATION: WOOD DOOR 02 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH w/ LEVER TYPE LOCKSET, BOTTOM LOWER, DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>2 SETS REQ'D</p> <p>LOCATION: ECG ROOM 01 & 02</p>	 <p>DESIGNATION: WOOD DOOR 03 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH w/ 6mm THK. FIXED CLEAR GLASS VISION PANEL & BOTTOM LOWER, LEVER TYPE LOCKSET & DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>3 SETS REQ'D</p> <p>LOCATION: MPD & HCD STORAGE ROOM</p>	 <p>DESIGNATION: WOOD DOOR 04 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH w/ LEVER TYPE LOCKSET, DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>1 SET REQ'D</p> <p>LOCATION: X-RAY READING STATION R/L</p>	 <p>DESIGNATION: WOOD DOOR 05 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN PAINT FINISH w/ LEVER TYPE LOCKSET, DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>3 SETS REQ'D</p> <p>LOCATION: X-RAY ROOM</p>	 <p>DESIGNATION: WOOD DOOR 06 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH w/ LEVER TYPE LOCKSET, BOTTOM LOWER, DOOR CLOSER COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>2 SETS REQ'D</p> <p>LOCATION: MPD & MPD TOILET</p>	 <p>DESIGNATION: WOOD DOOR 07 DESCRIPTION: FLUSH HOLLOW CORE WOOD DOOR IN HPL WOOD GRAIN FINISH w/ LEVER TYPE LOCKSET, BOTTOM LOWER, DOOR CLOSER & STAINLESS STEEL KICKPLATE, COMPLETE w/ HARDWARES & ACCESSORIES</p> <p>1 SET REQ'D</p> <p>LOCATION: HCD TOILET</p>

MPD AND HCD SCHEDULE OF DOORS

1
A-10
SCALE 1:70


 <p>SOCIAL SECURITY SYSTEM ENGINEERING AND PROJECT MANAGEMENT DEPARTMENT</p>	<p>PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT LOCATION: Ground Floor 555 Main Building, East Avenue, Diliman, Quezon City</p>	<p>RECOMMENDING APPROVAL:  WENDELINO V. COMBOY JR. VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - EPMD</p>	<p>APPROVED:  DORENDIA M. DASMARINÁS SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMD</p>	<p>ENGINEERING TEAM DESIGNED & DRAWN BY:  JOEL M. PARILLA CHECKED BY:  MICHAEL A. BELYA REVISED BY:  STEPHEN P. YAP SRO V. CAT CEO IV, PMD Dept.</p>	<p>SHEET CONTENT: SCHEDULE OF DOORS</p>	<p>ALL DRAWINGS MUST BE CHECKED ON SITE BY THE CONTRACTOR AND REVISIONS SHOULD BE SUBMITTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS CONTRACTORS ARE TO REFRAME AND SHARPEN DRAWINGS TO THE ARCHITECT PRIOR TO CONSTRUCTION OF WORKS.</p> <p>SHEET NO. A-10 DATE: May 27, 2024</p>
--	--	---	--	--	--	--

el

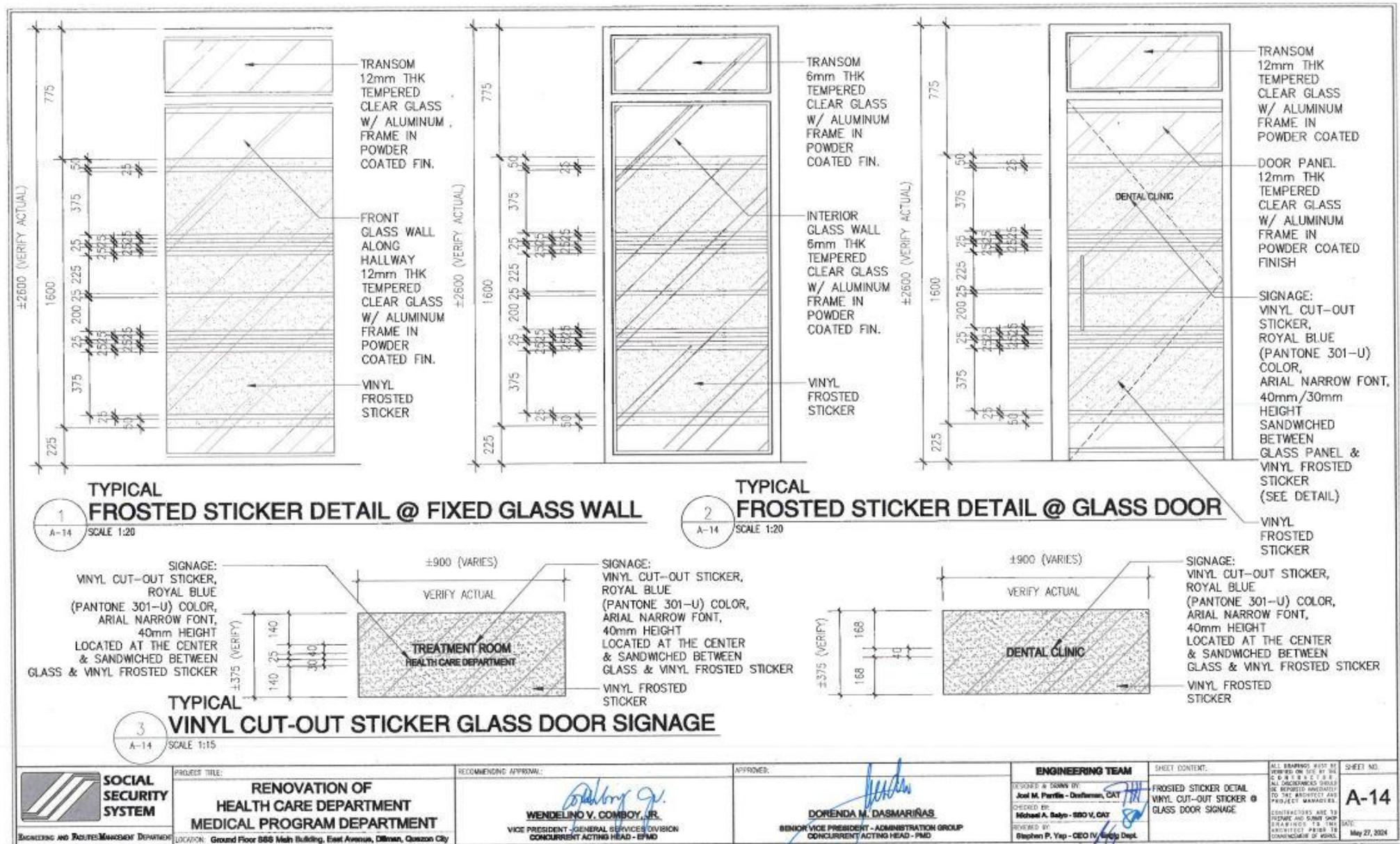


MPD AND HCD SCHEDULE OF GLASS STOREFRONT

1
A-11
SCALE 1:60

 <p>SOCIAL SECURITY SYSTEM</p> <p>ENGINEERING AND FACILITIES MANAGEMENT DIVISION</p>	<p>PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT</p> <p>LOCATION: Ground Floor 888 Main Building, East Avenue, Diliman, Quezon City</p>	<p>RECOMMENDING APPROVAL:</p> <p><i>Wendelino V. Comboy, Jr.</i> WENDELINO V. COMBOY, JR. VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - IFMD</p>	<p>APPROVED:</p> <p><i>Dorenda M. Dasmariñas</i> DORENDIA M. DASMARIÑAS SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMD</p>	<p>ENGINEERING TEAM</p> <p>DESIGNED & DRAWN BY: Joel M. Parilla - Draftman, CAT</p> <p>CHECKED BY: Michael A. Galyo - SDO V, CAT</p> <p>REVIEWED BY: Stephen P. Yap - CEO IV, Eng's Dept.</p>	<p>SHEET CONTENT:</p> <p>SCHEDULE OF GLASS STOREFRONT</p>	<p>ALL DRAWINGS MUST BE REVIEWED BY THE CONTRACTOR AND SUBMITTER TO THE ARCHITECT AND PROJECT MANAGERS.</p> <p>CONTRACTORS ARE TO PROVIDE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.</p> <p>SHEET NO. A-11</p> <p>DATE May 27, 2024</p>
--	---	---	--	---	--	---

del



GENERAL NOTES:

1.0 GENERAL:

- 1.1 ALL DIMENSIONS ARE SHOWN IN MILLIMETERS, ELEVATIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
- 1.2 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE, AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK. THIS SHALL INCLUDE THE LOCATIONS AND DIMENSIONS OF OBSTACLES, RESISTS, SHEET PILES, CURBS, OPENINGS, EMBEDDED OR ATTACHED ITEMS, ETC. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 1.3 ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS OR DETAILS. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 1.4 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE ENGINEER'S INTENT. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION UNLESS SO STATED. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURES, ADJACENT PROPERTIES, WORKMEN AND OTHER PERSONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND/OR THE ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURES OR CAUSE DISTRESS IN THE STRUCTURES.
- 1.5 TYPICAL DETAILS AND GENERAL NOTES ON S-1 APPLY TO ALL PARTS OF THE JOB UNLESS OTHERWISE SHOWN OR NOTED.

2.0 STANDARDS AND REFERENCES:

THE FOLLOWING SHALL GOVERN THE DESIGN, FABRICATION AND CONSTRUCTION OF THE PROJECT:

- 2.1 AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATIONS:
ACI 308-9S BLDG. CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 308-17 (04) DESIGN HANDBOOK, VOL. 1
ACI 308-17A (04) DESIGN HANDBOOK, VOL. 2
ACI 318-14 MANUAL OF STANDARD PRACTICE FOR DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
- 2.2 AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
- 2.3 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES (NSCP) VOL. 1, SEVENTH EDITION 2015
- 2.4 UNIFORM BUILDING CODE (UBC), VOL. 2 1997 EDITION

3.0 BASIC DESIGN LOADS:

- 3.1 DEAD LOADS (DL)
3.1.1 - METAL ROOFING 90 Pa
3.1.2 - ELECTRICAL/MECHANICAL UTILITIES 240 Pa
3.1.3 - TRUSSES & BRACINGS 100 Pa
3.1.4 - FLOORING 24 kN/m²
3.1.5 - CONCRETE 24 kN/m²
3.1.6 - STEEL 77.3 kN/m²
- 3.2 LIVE LOADS (LL)
- ROOF 1000 Pa
- COMMON AREA 4000 Pa
- STOCK ROOMS 7000 Pa
- 3.3 WIND LOAD (WL)
WIND LOADS ARE CALCULATED BASED ON THE RECOMMENDATIONS OF THE NSCP-2015 WITH A MINIMUM BASIC WIND SPEED OF 250 KPH.
- 3.4 SEISMIC LOAD, E
SEISMIC LOADS FOR BUILDING ARE CALCULATED BASED ON THE RECOMMENDATION OF THE NSCP VOL. 1, 7TH ED.
SEISMIC SOURCE TYPE C
SOL. PROFILE
SEISMIC COEFFICIENT, C_s C = 0.64 N_s
SEISMIC COEFFICIENT, C_o G_o = 0.44 N_o
SEISMIC ZONE FACTOR, (ZONE 4) Z = 0.40
IMPORTANCE FACTOR I = 1.0
NUMERICAL COEFFICIENT R = 0.5
NEAR SOURCE FACTOR, N_s N_s = 1.0
NEAR SOURCE FACTOR, N_o N_o = 1.0

4.0 MATERIALS:

4.1 NORMAL WEIGHT CONCRETE:

- 4.1.1 CONCRETE USED IN THIS WORK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS FOR ALL REINFORCED CONCRETE ELEMENTS AS FOLLOWS:
FOR FOUNDATION & 28 MPa (4000 Psi)
FOR SLAB AND STAIR 21 MPa (3000 Psi)
- 4.1.2 ALL CONCRETE SHALL BE DEPOSITED, VIBRATED AND CURED IN ACCORDANCE WITH ACI STANDARD 318-9S.
- 4.1.3 CONCRETE COVER OVER REINFORCING BARS SHALL BE IN ACCORDANCE WITH ACI STANDARD 318-9S.
- 4.1.4 BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATIVE TO THE WORK.

4.2 REINFORCING BARS:

- 4.2.1 UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL REINFORCING BARS SHALL BE SUPPLIED WITH A MINIMUM YIELD STRENGTH:
f_y = 275 MPa (40000 Psi) FOR 60mm & SMALLER
f_y = 414 MPa (60000 Psi) FOR 60mm & LARGER
- 4.2.2 ALL REINFORCING BARS SHALL BE CLEAN OR MUST, OILS OR OTHER MATERIALS WHICH TEND TO IMPAIR BOND.
- 4.2.3 ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT.
- 4.2.4 LAPPED SPICES SHALL BE STAGGERED WHERE POSSIBLE.
- 4.2.5 UNLESS INDICATED OTHERWISE, SPACING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI STANDARD 318-9S.
- 4.2.6 UNLESS SHOWN OTHERWISE ON PLANS, SPICES SHALL BE AS FOLLOWS:
BEAMS: TOP AND BOTTOM BARS SHALL NOT BE SPICED WITHIN THE COLUMN OR WITHIN A DISTANCE OF TWO (2) TIMES THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. STAGGERED SPACING INCLUDING THE LAP SPICES SHALL BE 100mm. THE SPICE LENGTH SHALL NOT BE LESS THAN THE LENGTH IN ITEM 4.2.9 BELOW.
COLUMNS: SPICES WHEN PERMITTED SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT AND LAP SPICE SHALL NOT BE LESS THAN 40 BAR DIAMETER. THE USE OF APPROVED MECHANICAL DEVICES MAY BE SPICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPICES SHALL BE 600mm.

- 4.2.7 CHB WALLS: VERTICAL BARS SHALL BE SPICED AT THE TOP OF WALL, FOOTING OR TO BEAM AND AT THE BOTTOM OF RC LEVEL, BEAM OR BEAMS. SPICED LENGTHS SHALL BE 600mm MIN.
- 4.2.8 UNLESS INDICATED OTHERWISE, ALL BEAMS TERMINATING AT THE COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN. TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE NOT LESS THAN 600mm.

- 4.2.9 SHEET DRUMS FOR BENDING AND CUTTING OF REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER PRIOR TO FABRICATION.
- 4.2.10 SPICE LENGTH OF REINFORCEMENT BARS SHALL BE AS FOLLOWS:

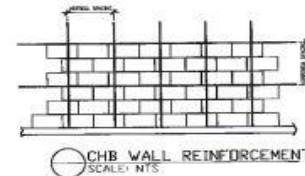
SIZE OF REBARS	SPICE LENGTH [MM]
#10	400
#12	480
#16	640
#20	800
#25	1000

4.3.10 STANDARD HOOK:

BEND ANGLE	SHAPE	BAR DIA. (d)	DIA. OF INSIDE HOOK (D)	REBAR END LENGTH (A)
90°		< 25	6d	12d
		> 25 AND < 32	8d	
135° (STIRRUPS AND TIES)		< 16	4d	6d or 75 MIN.
		> 16 AND < 25	6d	
180°		< 25	6d	4d or 65 MIN.
		> 25 AND < 32	8d	

4.4 CONCRETE HOLLOW BLOCKS (CHB):

- 4.4.1 CHB USED IN THESE WORKS SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS AS FOLLOWS:
300mm THICK NON-LOAD BEARING CHB, f_{cu} = 2.40 MPa (350 Psi)
- 4.4.2 ALL CELLS SHALL BE SOLIDLY FILLED WITH GROUT. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 17.24 MPa (2500 Psi) @ 28 DAYS.
- 4.4.3 UNLESS OTHERWISE INDICATED, CHB REINFORCEMENT SHALL BE 12mmØ HORIZONTAL BARS @ 600mm AND 12mmØ VERTICAL BARS @ 600mm.
- 4.5 GRAVEL
4.5.1 MIN. GRAVEL SIZE FOR BEAMS, COLUMNS, SHEARWALLS AND SLABS SHALL BE SMALLER THAN 10mm.

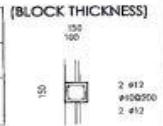


5.0 MASONRY WALLS:

- 5.1 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STD. AND SPECIFICATIONS OF THE STRUCTURAL CODE OF THE PHILIPPINES AND UNIFORM BLOC. CODE.
- 5.2 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N.
- 5.3 MORTAR AND GROUT FOR ALL CONCRETE MASONRY SHALL CONFORM TO ASTM 270 - TYPE M AND SHALL HAVE A MINIMUM OF 28 DAYS STANDARD CYLINDER COMPRESSIVE STRENGTH OF 17.5 MPa (2500 Psi).
- 5.4 ALL CHB SHALL BE LAYED OUT WITH THE CELLS IN UNDESTRUCTURED VERTICAL CONTINUITY. ALL CELLS ESPECIALLY THOSE WITH REINFORCEMENT SHALL BE FILLED WITH MORTAR.
- 5.5 REINFORCEMENT, AS TABLED BELOW, SHALL BE PROVIDED UNLESS OTHERWISE SPECIFIED IN THE PLAN.
- 5.6 MASONRY WALLS SHALL BE PROVIDED WITH BEAM BLOCK AS REQUIRED.

CONCRETE HOLLOW BLOCKS REINFORCEMENT		
BLOCK THICKNESS (MM)	REINFORCEMENT	
	HORIZONTAL	VERTICAL
100	10MM BARS @ EVERY 3RD LAYER OF CHB	10MM BARS @ 1000MM C/C

BLOCK THICKNESS (MM)	BEAM BLOCK REINFORCEMENT	
	HORIZONTAL	VERTICAL
150	Ø 10 @ 600MM O.C.	Ø 12 @ 1000MM O.C.





















SOCIAL SECURITY SYSTEM ENGINEERING AND TRUST MANAGEMENT DEPARTMENT	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL: WENDELINO V. COMBOY, JR. VICE PRESIDENT - GENERAL SERVICES DIVISION CONCURRENT ACTING HEAD - SPMD	APPROVED: DORENDAM. DASMARIÑAS SENIOR VICE PRESIDENT - ADMINISTRATION GROUP CONCURRENT ACTING HEAD - PMO	ENGINEERING TEAM DRAWN BY: JOEL M. PANTILE - Drafterman, CAT III CHECKED BY: MICHAEL A. Salyo - BSO V, CAT III REVIEWED BY: STEPHEN P. Yap - CEO IV, Eng'g Div.	SHEET CONTENT: STRUCTURAL GENERAL NOTES	ALL DRAWINGS MUST BE CHECKED ON SITE BY THE ENGINEER. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO PRINTING AND SHARPENING DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. DATE: May 27, 2024	SHEET NO. S-01
	LOCATION: Ground Floor BBS Main Building, East Avenue, Diliman, Quezon City						

GENERAL NOTES

- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENT OF THE LOCAL POWER AND TELEPHONE COMPANY.
- SERVICE POWER SHALL BE 230 VOLTS, SINGLE PHASE, 3 WIRES, 60 HZ.
- SMALLEST BRANCH CIRCUIT WIRE SHALL BE 3.5 MM² THHN FOR POWER AND LIGHTING AND SHALL BE INSULATED FOR 600 VOLTS.
- WHENEVER NECESSARY PROVIDE PULL BOX OF PROPER SIZE AND DIMENSION ALTHOUGH NOT INDICATED IN THE PLAN.
- ALL BRANCH CIRCUIT SHALL BE INSTALLED AS INDICATED IN THE PLAN, INDIVIDUAL BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED IN THE SAME CONDUIT.
- ALL SWITCHES, PANEL BOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE PEC.
- ROUGHING-IN CONDUITS SHALL BE OF APPROVED TYPE AND APPLICATION, RSC EXPOSED, IMC AND PVC FOR LATERAL AND EMBEDDED LAY-OUT.
- THE ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT AND SURVEY THE SITE TO ASCERTAIN THE LOCAL CONDITION THAT MAY AFFECT DURING THE IMPLEMENTATION OF THE PROJECT.
- ALL AREA AFFECTED BY THE CHIPPING/REMOVAL WORKS SHALL BE PATCHED OR RESTORED TO ITS ORIGINAL AESTHETIC CONDITION.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:

PANELBOARD	----	1.40 m ABOVE FINISHED FLOOR
SWITCHES	----	1.40 m ABOVE FINISHED FLOOR
CONVENIENCE OUTLETS	----	0.30 m ABOVE FINISHED FLOOR (FOR WALL MOUNTED)
	----	MODULAR RACEWAY (ON MODULAR WORKSTATIONS)
- ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE SUPERVISION OF DULY LICENSED ELECTRICAL ENGINEER OR MASTER ELECTRICIAN.

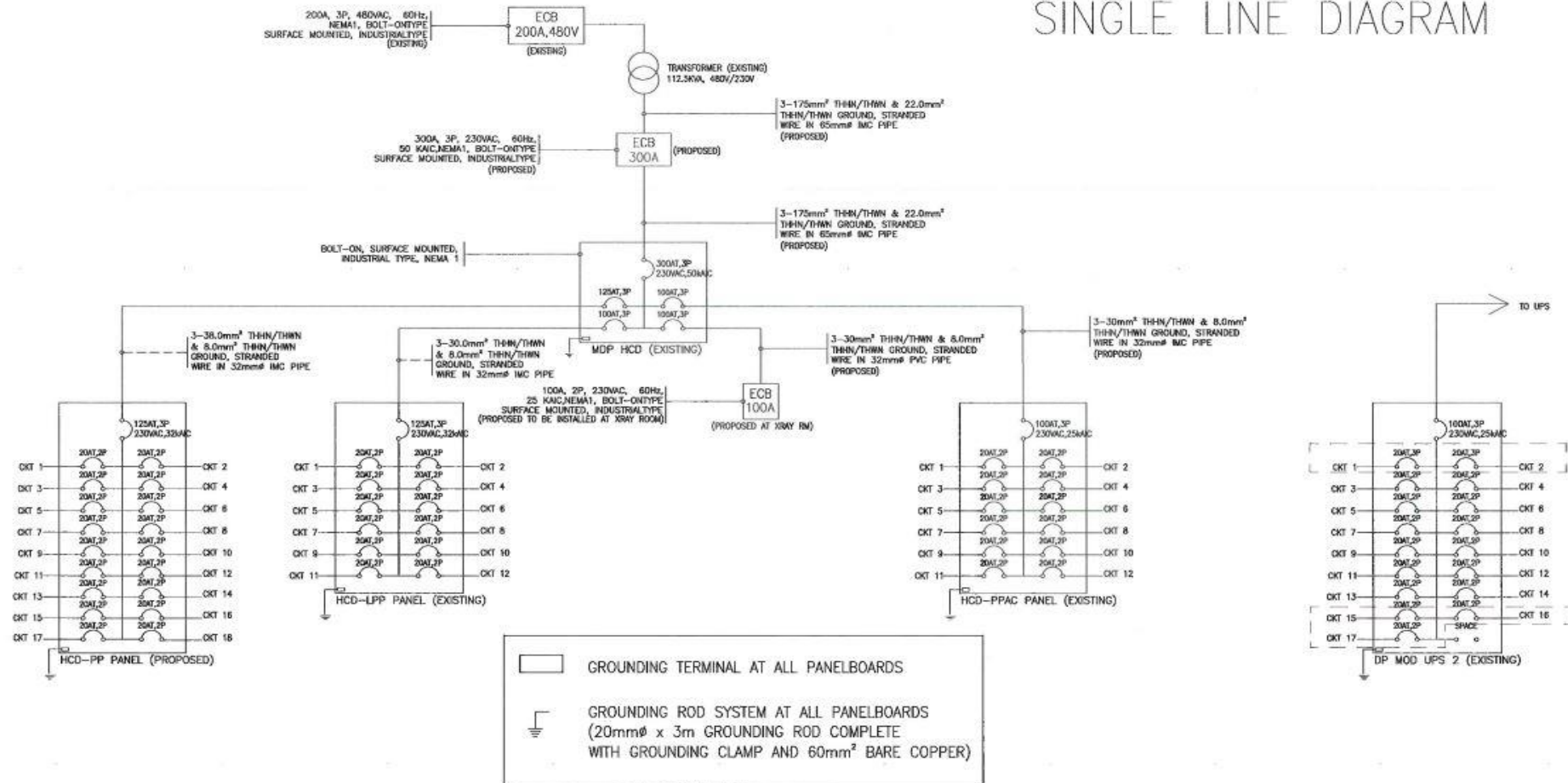
SYMBOLS & LEGEND:

	DUPLEX CONVENIENCE OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P 230V BY UPS POWER IN FLUSH MOUNTED TYPE WITH OFF-WHITE PLATE COVER
	DUPLEX CONVENIENCE OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P 230V BY NORMAL POWER IN FLUSH MOUNTED TYPE WITH BEIGE PLATE COVER
	RECESSED MOUNTED, LIGHTING FIXTURE, 1X18WATTS LED TUBE, 220V, T8, 1800 LUMENS, 120 LIGHT ANGLE, SIZE (150MMX1200)MM WITH ALUMINUM LARGE CELL PARABOLIC LOUVER TYPE AND ANODIZED REFLECTOR, COOL DAYLIGHT, COMPLETE WITH CIRCUIT WIRING
	RECESSED LIGHTING FIXTURES, T8, 2X18WATTS LED, 1800 LUMENS WITH BUILT-IN DRIVER, BI PIN TERMINAL 200-250VAC, 60HZ., 120 DEG. LIGHT ANGLE, 50,000 BURNING HOURS, (600X1200)MM W/ ALUMINUM LARGE CELL PARABOLIC LOUVER TYPE, ANODIZED REFLECTOR,
	COVE LIGHTING, T8, LED, 1X18WATTS LED TUBE, 220V, 1800 LUMENS, 120 LIGHT ANGLE, COOL DAYLIGHT, COMPLETE WITH CIRCUIT WIRING
	DOWN LIGHT, RECESSED TYPE SPUN ALUMINUM WITH 12WATTS LED LAMP, .6" DIA., CLEAR GLASS CONO COVER WITH WHITE MOUNTING RING COMPLETE WITH STANDARD ACCESSORIES AND ESSENTIAL WIRINGS
	EXHAUST FAN, CEILING MOUNTED, 55-WATTS MIN., 90-120CFM MIN., 230V, 60HZ., WITH GRILL SHUTTER/ LOUVER OR ITS APPROVED TYPE EQUIVALENT
	ENTRANCE/EXIT LIGHT 3-5WATTS (MINIMUM) LED, 220VAC,
	TRANSFER FAN, WALL MOUNTED, 33-WATTS MIN., 915CMH MIN., 230V, 60HZ., WITH GRILL SHUTTER/ LOUVER OR ITS APPROVED TYPE EQUIVALENT
	EMERGENCY LIGHT, 2X3-SW MIN. LED, 220V, SEALED LEAD ACID BATTERY
	DISTRIBUTION PANEL
	ECB, NEMA 3R ENCLOSURE, INDUSTRIAL TYPE (OUTDOOR)
	ONE GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
	TWO GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
	THREE GANG SWITCH, SINGLE POLE 15A, 250 V FLUSH TYPE (NATIONAL/PANASONIC BRAND)
	CIRCUIT DESIGNATION
	BRANCH CIRCUIT HOMERUN
	SPECIAL OUTLET, 3 PRONG, PARALLEL SLOT WITH GROUND, 15A, 2P, 230V

 SOCIAL SECURITY SYSTEM <small>ENGINEERING AND PROJECTS MANAGEMENT DEPARTMENT</small>	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL:  WENDELINO V. COMBOY JR. Vice President, General Services Division Concurrent Acting Head, EFMD	APPROVED:  DORENDA M. DASMARINAS Senior Vice President, Administration Group	ENGINEERING TEAM DESIGNED & DRAWN BY: MARK A. Sapugan - EMT CHECKED BY: Antonio Y. Sison Jr. - EMT REVIEWED BY: Stephen P. Yap - CEO IV, Engg Dept.	SHEET CONTENT: GENERAL NOTES SYMBOLS AND LEGENDS	ALL DRAWINGS MUST BE REVIEWED ON SITE BY THE CONTRACTOR. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO PROVIDE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORKS.	SHEET NO. E-01 DATE: MARCH 27, 2024
	LOCATION: Ground Floor SSS Main Building, East Avenue, Diliman, Quezon City						

el

SINGLE LINE DIAGRAM



PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT

LOCATION: Ground Floor SSS Main Building, East Avenue, Diliman, Quezon City

RECOMMENDING APPROVAL: *Wendelino V. Comboy Jr.*
WENDELINO V. COMBOY JR.
Vice President, General Services Division
Concurrent Acting Head, EFMD

APPROVED: *Dorenda M. Dasmariñas*
DORENDAM. DASMARIÑAS
Senior Vice President, Administration Group

ENGINEERING TEAM
DESIGNED & DRAWN BY: *MAHA A. Sapagay Jr.*, Engr, EMT
CHECKED BY: *Antonio V. Tugay Jr.*, Acting SSO V, EMT
REVIEWED BY: *Stephen P. Yap*, CEO IV, Engr, Day

SHEET CONTENT: SINGLE LINE DIAGRAM

ALL DRAWINGS MUST BE VERIFIED BY SSO TO THE CONTRACTOR. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO PREPARE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

SHEET NO. E-02

DATE: MARCH 27, 2024

MDP-HCD: 300AT MAIN, 230VAC, 3P, 50kAIC, 60Hz (PROPOSED)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	kAIC	VOLT			AB	CA	BC	
1	125	3	25	230	HCD POWER PANEL	36,100	53.01	53.96	49.88	3-38mm ² THHN/THWN WIRE & 1-8mm ² GROUND IN 32mm ³ IMC
2	100	3	25	230	HCD - PPAC	27,280	39.03	39.03	40.5	3-30mm ² THHN/THWN WIRE & 1-8.0mm ² GROUND IN 32mm ³ IMC
3	100	3	25	230	HCD LIGHTING AND POWER PANEL	21,845	29.43	29.96	32.47	3-30mm ² THHN/THWN WIRE & 1-8.0mm ² GROUND IN 32mm ³ IMC
4	100	3	25	230	XRAY MACHINE	32,000	50.21	50.21	50.21	3-30mm ² THHN/THWN WIRE & 1-8.0mm ² GROUND IN 32mm ³ IMC
						117,585	171.68	173.16	173.06	3 - 200.0mm ² THHN/THWN WIRE & 1-22.0mm ² GROUND IN 80mm ³ IMC

NOTE: THE WINNING BIDDER MUST PROVIDE NEW PANEL COVER, POWDER COATED WITH PANEL NAME TAGGING

COMPUTATION:

TOTAL COMPUTED LOAD
 $I = 173.16 \times 1.732 \times 0.8$
 $I = 239.79$ Amps

USE : Main: 300AT, Three Phase, 230V, 60Hz, 50kAIC (PROPOSED)
 Branches: 1 - 125AT, 3P, 230VAC, 60Hz., 32KAIC
 4 - 100AT, 3P, 230VAC, 60Hz., 25KAIC
 Surface Mounted, Bolt-on, Industrial Type, NEMA 1

SIZE OF MAIN DISCONNECT, WIRES AND CONDUIT
 $I_c = 1.25 \times 239.79$
 $I_c = 299.73/300$ Amps

HCD LIGHTING AND POWER PANEL (HCD LPP): 100AT MAIN, 2P, 230VAC, 25KAIC (EXISTING)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	# OF OUTLETS /DEVICES	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	kAIC	VOLT				AB	CA	BC	
1	20	2P	10	230	L.O (HCD AND LOBBY)	37	953	4.14			2-3.5mm ² THHN WIRE IN 20mm ³ PVC
2	20	2P	10	230	L.O (OSS, PHARMACY & BENEFIT CONTROL SECTION, CLINICAL, SMO & LAB)	27	822	3.57			2-3.5mm ² THHN WIRE IN 20mm ³ PVC
3	20	2P	10	230	L.O (PANTRY, DR OFFICE, MEDICAL PROGRAM, DEPT, POMES, GAS)	34	963		4.19		2-3.5mm ² THHN WIRE IN 20mm ³ PVC
4	20	2P	10	230	L.O (DENTAL, LABORATORY, COMMON CONFERENCE ROOM, TOILET)	34	932		4.05		2-3.5mm ² THHN WIRE IN 20mm ³ PVC
5	20	2P	18	230	L.O (TREATMENT, DIAGNOSTIC SERVICES, PANTRY, EDC)	33	675			2.93	2-3.5mm ² THHN WIRE IN 20mm ³ PVC
6	20	2P	10	230	SPARE	-	1,800			7.82	
7	20	2P	10	230	SPARE	-	2,500	10.86			
8	20	2P	10	230	SPARE	-	2,500	10.86			
9	20	2P	10	230	SPARE	-	2,500		10.86		
10	20	2P	10	230	SPARE	-	2,500		10.86		
11	20	2P	10	230	SPARE	-	2,500			10.86	
12	20	2P	10	230	SPARE	-	2,500			10.86	
TOTAL VA:						21,845	29.43	29.96	32.47		3-30.0mm ² THHN WIRE AND 8.0mm ² GROUND IN 25mm ³ IMC

NOTE: THE WINNING BIDDER MUST PROVIDE NEW PANEL COVER, POWDER COATED WITH PANEL NAME TAGGING

COMPUTATION:

TOTAL COMPUTED LOAD
 $I = 32.47 \times 1.732 = 56.24$
 $I = 56.24 \times 80\%$
 $I = 44.90$

SIZE OF MAIN DISCONNECT, WIRES AND CONDUIT
 $I_c = 1.25 \times 44.90$
 $I_c = 56.25$ A = 100 Amps

USE : Main: 100AT, Three Phase, 230 VAC, 60Hz. 25KAIC
 Branches: 5 - 20AT 2 Pole, 230VAC, 60Hz., 18KAIC
 13 - 20AT 2 Pole, 230VAC, 60Hz., 18KAIC (Spare)
 Surface Mounted, Bolt-on, Industrial Type, NEMA 1
 : 3-30.0mm² THHN/THWN STRANDED WIRE AND
 1-8.0mm² THHN/THWN IN 25mm³ IMC PIPE

 SOCIAL SECURITY SYSTEM <small>ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT</small>	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT <small>LOCATION: Ground Floor SSS Mah Building, East Avenue, Dikman, Quezon City</small>	RECOMMENDING APPROVAL:  WENDELINO V. COMBOY, JR. <small>Vice President, General Services Division Concurrent Acting Head, EFMD</small>	APPROVED:  DORENDAM BASMARIÑAS <small>Senior Vice President, Administration Group</small>	ENGINEERING TEAM DESIGNED & DRAWN BY:  MARK A. Sapugay - Sr. Engineer, EMT CHECKED BY:  Antonio V. Trilla Jr. - Acting SSO V, EMT REVIEWED BY:  Stephen P. Yap - CLO IV, Eng's Dept.	SHEET CONTENT: LOAD SCHEDULE	<small>ALL DRAWINGS MUST BE VERIFIED ON SITE BY THE C O R T E S I O B. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS.</small> CONTRACTORS ARE TO PROVIDE AND SIGN SHEET DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. DATE: MARCH 27, 2024	SHEET NO. E-03
--	--	---	---	--	--	---	---------------------------------

del

HCD POWER PANEL (HCD PP): 125AT MAIN, 2P, 230VAC, 32KAIC (PROPOSED)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	# OF OUTLETS /DEVICES	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	KVA	VOLT				AB	CA	BC	
1	30	2P	18	230	C.O (CENTRAL SUPPLY ROOM REFRIGERATION)	1	2,500	10.86			2-5.5mm ² THHN WIRE AND 3.5mm ² GROUND IN 20mm ² PVC
2	30	2P	18	230	C.O (CENTRAL SUPPLY ROOM REFRIGERATION)	1	2,500	10.86			2-5.5mm ² THHN WIRE AND 3.5mm ² GROUND IN 20mm ² PVC
3	30	2P	18	230	C.O (CENTRAL SUPPLY ROOM REFRIGERATION)	1	2,500		10.86		2-5.5mm ² THHN WIRE AND 3.5mm ² GROUND IN 20mm ² PVC
4	30	2P	18	230	C.O (CENTRAL SUPPLY ROOM REFRIGERATION)	1	2,500		10.86		2-5.5mm ² THHN WIRE AND 3.5mm ² GROUND IN 20mm ² PVC
5	30	2P	18	230	SPARE	--	2,500			10.86	
6	30	2P	18	230	SPARE	--	2,500			10.86	
7	20	2P	10	230	C.O - (DENTAL SECTION AND LABORATORY SERVICES)	10	1,800	7.82			2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
8	20	2P	10	230	C.O - (PHARMACY AND BENEFIT CONTROL SECTION)	13	2,340	10.17			2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
9	20	2P	10	230	MR CURTAIN	2	2,500		10.86		2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
10	20	2P	10	230	C.O - (CLINICAL, DANG AND LAB SERVICES SECTION)	9	1,620		7.04		2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
11	20	2P	10	230	C.O - (XRAY READING STATION/PANTRY, ECG ROOM, TOILET)	11	1,980			8.61	2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
12	20	2P	10	230	C.O - (TREATMENT ROOM, NURSE STATION)	9	1,620			7.04	2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
13	20	2P	10	230	C.O - (LAB STAFF AREA, COMMON CONFERENCE ROOM)	8	1,440	6.26			2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
14	20	2P	10	230	C.O - (XRAY ROOM, CONTROL ROOM, DIAGNOSTIC SERVICES)	9	1,620	7.04			2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
15	20	2P	10	230	AUTOMATIC DOOR SENSOR	2	1,500		6.52		2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
16	20	2P	10	230	C.O - (WFO - DM OFFICE, PANTRY, CR)	10	1,800		7.82		2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
17	20	2P	10	230	C.O - (DM OFFICE, DENTAL SECTION, HALLWAYS, BLOOD EXTRACTION AREA)	6	1,080			4.69	2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
18	20	2P	10	230	C.O (MEDICAL PROGRAM DEPARTMENT)	10	1,800			7.82	2-3.5mm ² THHN WIRE AND 2.0mm ² GROUND IN 20mm ² PVC
TOTAL VA:							36,100	53.01	53.96	49.88	3-38.0mm ² THHN WIRE AND 8.0mm ² GROUND IN 32mm ² IMC

COMPUTATION:

TOTAL COMPUTED LOAD
 $I = 55.36 \times 1.732 = 95.88$
 $I = 95.88 \times 100\%$
 $I = 95.88A$

SIZE OF MAIN DISCONNECT, WIRES AND CONDUIT

$I_c = 1.25 \times 95.88$
 $I_c = 119.85 A = 125 \text{ Amps}$

USE : Main: 125AT, Three Phase, 230 VAC, 60Hz, 25KAIC
 Branches:
 6 - 30AT 2 Pole, 230VAC, 60Hz., 18KAIC
 12 - 20AT 2 Pole, 230VAC, 60Hz., 18KAIC
 Surface Mounted, Bolt-on, Industrial Type, NEMA 1

: 3-38.0mm² THHN/THWN STRANDED WIRE AND
 1-8.0mm² THHN/THWN IN 32mm² IMC PIPE

HCD PP-A/C (HCD PPAC) : 100AT MAIN, 2P, 230VAC, 25KAIC (EXISTING)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	# OF OUTLETS /DEVICES	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	KVA	VOLT				AB	CA	BC	
1	20	2P	18	230	WINDOW TYPE A/C - PANTRY	--	2,160	9.39			
2	20	2P	18	230	WINDOW TYPE A/C - DM OFFICE	--	2,160	9.39			
3	20	2P	18	230	WINDOW TYPE A/C - OSS	--	2,160		9.39		
4	20	2P	18	230	WINDOW TYPE A/C - WBC	--	2,160		9.39		
5	20	2P	18	230	WINDOW TYPE A/C - DENTAL	--	2,160			9.39	
6	20	2P	18	230	WINDOW TYPE A/C - LABORATORY	--	2,160			9.39	
7	20	2P	18	230	WINDOW TYPE A/C - BLOOD EXTRACTION	--	2,160	9.39			
8	20	2P	18	230	SPARE	--	2,500	10.86			
9	20	2P	18	230	WINDOW TYPE A/C - COMMON CONFERENCE ROOM	--	2,160		9.39		
10	20	2P	18	230	SPARE	--	2,500		10.86		
11	20	2P	18	230	SPARE	--	2,500			10.86	
12	20	2P	18	230	SPARE	--	2,500			10.86	
TOTAL VA:							27,280	39.03	39.03	40.5	3-30.0mm ² THHN WIRE AND 8.0mm ² GROUND IN 25mm ² IMC

COMPUTATION:


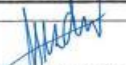
TOTAL COMPUTED LOAD
 $I = 40.5 \times 1.732 = 70.146$
 $I = 70.146 \times 80\%$
 $I = 56.11$

SIZE OF MAIN DISCONNECT, WIRES AND CONDUIT

$I_c = 1.25 \times 56.11$
 $I_c = 70.13 A = 100Amps$

USE : Main: 100AT, Three Phase, 230 VAC, 60Hz, 25KAIC
 Branches:
 12 - 20AT 2 Pole, 230VAC, 60Hz., 18KAIC (SPARE)
 Surface Mounted, Bolt-on, Industrial Type, NEMA 1


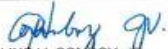

: 3-30.0mm² THHN/THWN STRANDED WIRE AND
 1-8.0mm² THHN/THWN IN 25mm² PVC PIPE

 SOCIAL SECURITY SYSTEM ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL:  WENDELINO V. COMBOY JR. Vice President, General Services Division Concurrent Acting Head, EFMD	APPROVED:  DORENDA M. DASMARINÁS Senior Vice President, Administration Group	ENGINEERING TEAM DESIGNED & DRAWN BY: MARK A. Capugay - Sr. Electrical Engr. CHECKED BY: Antonio V. Trinoso Jr. - Acting SSO V. Engr. REVIEWED BY: Stephen P. Yap - CEO V. Engr.	SHEET CONTENT: LOAD SCHEDULE	ALL DRAWINGS MUST BE REVIEWED ON SITE BY THE CONTRACTOR. NO DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO PROPOSE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORKS.	SHEET NO. E-04 DATE: MARCH 27, 2024
	LOCATION: Ground Floor SSS Main Building, East Avenue, Diliman, Quezon City						

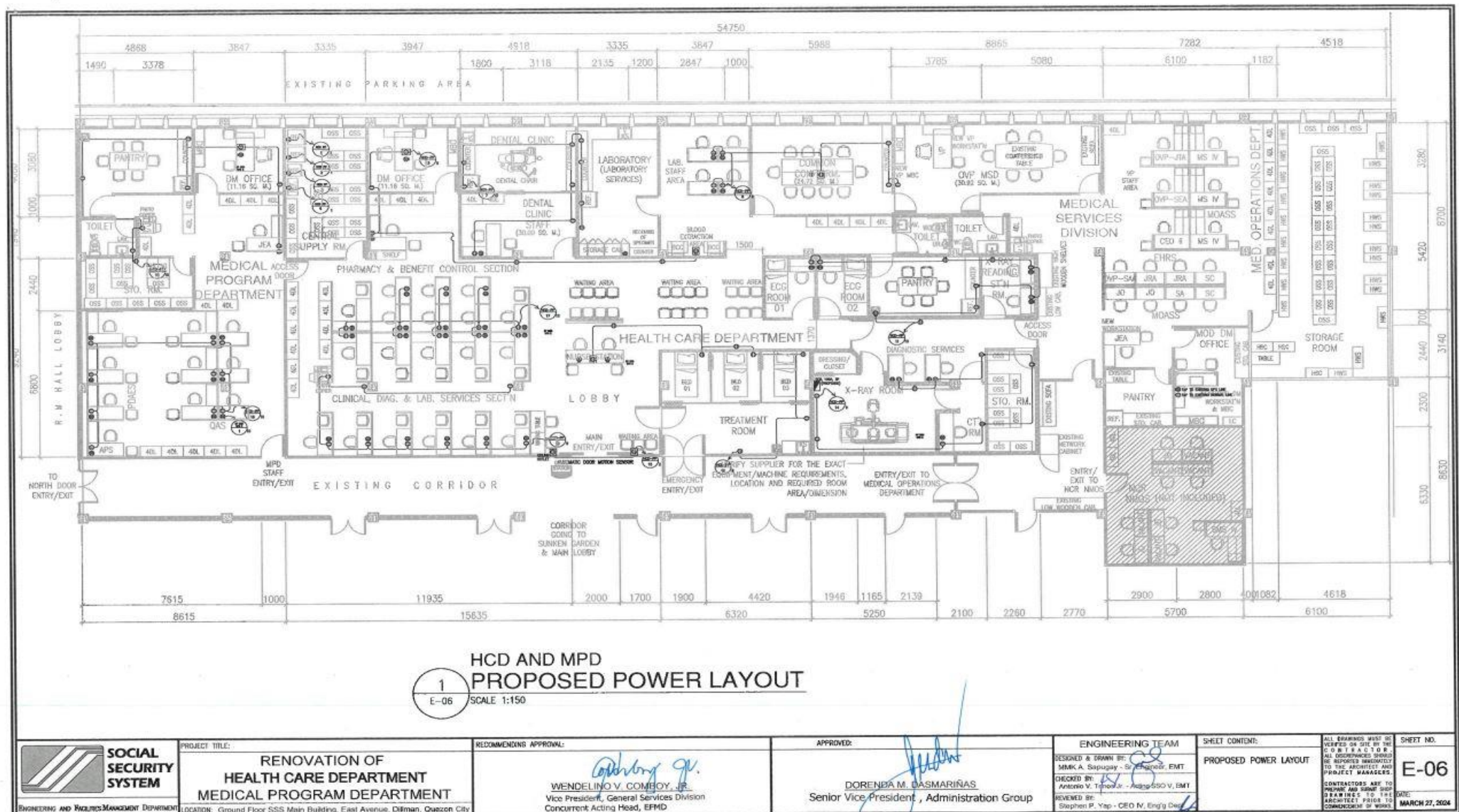
del

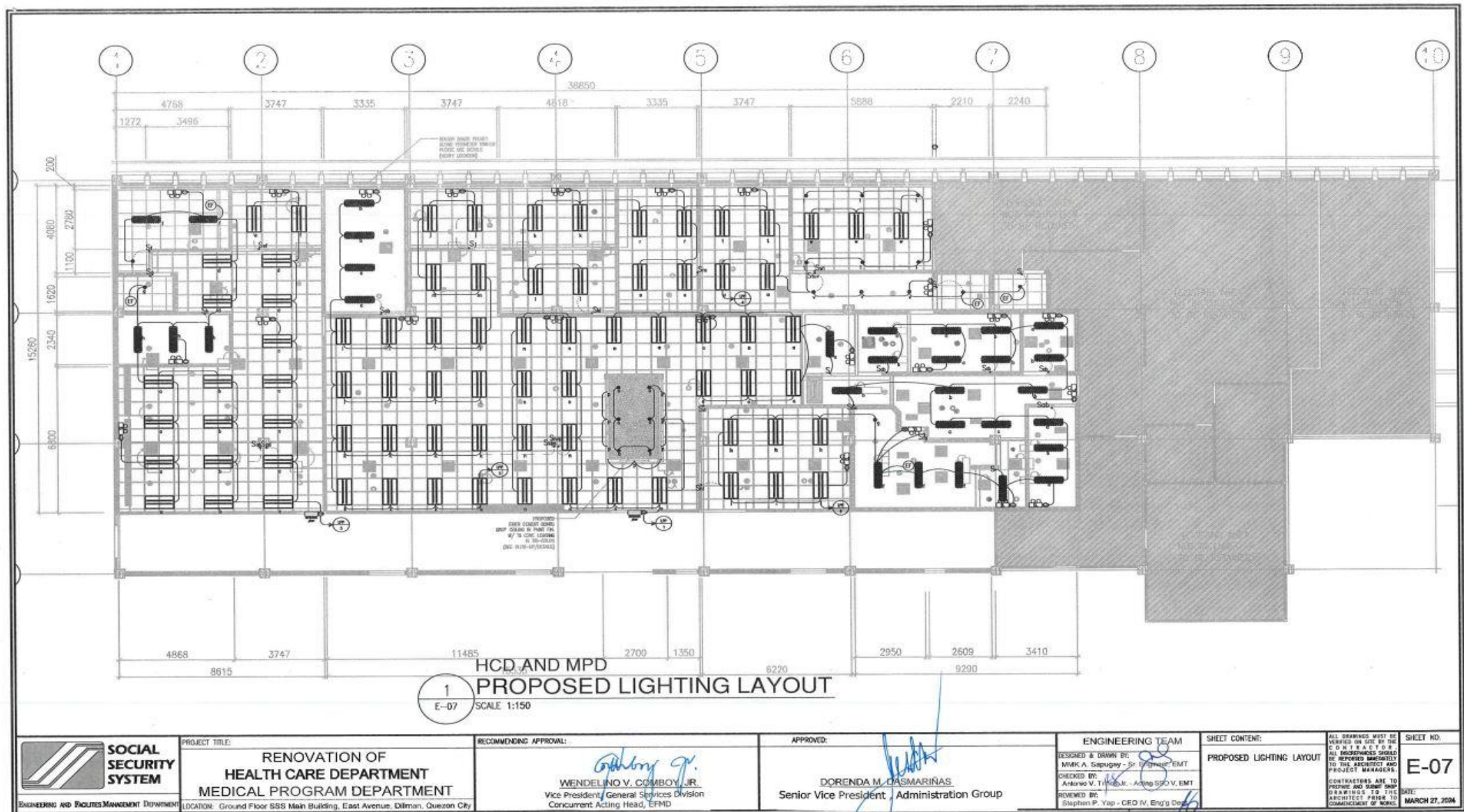
DP MOD UPS2 PANEL : 100AT MAIN, 230VAC, SINGLE PHASE, 18kAIC, 60Hz (EXISTING)

CIRCUIT NO.	BRANCH CIRCUIT				LOAD DESCRIPTION	NO. OF OUTLETS	VOLT AMPERE	AMPERE			SIZE OF WIRES AND CONDUITS
	AT	POLE	kAIC	VOLT				AB	CA	BC	
1	20	3	10	230	CONVENIENCE OUTLET (MEDICAL PROGRAM DEPT, QAS, POAES)	10	1,800	6.26			2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
2	20	3	10	230	CONVENIENCE OUTLET (MEDICAL PROGRAM DEPT, DM OFFICE, PANTRY)	11	1,980	7.04			2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
3	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
4	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
5	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
6	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
7	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
8	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
9	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
10	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
11	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
12	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
13	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
14	20	2	10	230	CONVENIENCE OUTLET (EXISTING WITH LOAD)						2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
15	20	2	10	230	CONVENIENCE OUTLET (HCD CLINICAL, DIAG. AND LAB SERVICES)	9	1,620	7.04			2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
16	20	2	10	230	CONVENIENCE OUTLET (MEDICAL PROGRAM DEPT, DM OFFICE, PANTRY)	13	2,340	7.83			2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
17	20	2	10	230	CONVENIENCE OUTLET (XRAY CONTROL ROOM, DIAGNOSTIC, READING SERVICES, ECG ROOM)	7	1,260	5.47			2-3.5mm ² THHN/THWN WIRE & 1-3.5mm ² GROUND IN 20mm ² PVC
18	-	2	-	-	SPACE	-	-	-			2 - 8.0mm ² THHN/THWN WIRE & 1-5.5mm ² GROUND IN 25mm ² IMC

 SOCIAL SECURITY SYSTEM ENGINEERING AND FACILITIES MANAGEMENT DEPARTMENT	PROJECT TITLE: RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT	RECOMMENDING APPROVAL:  WENDELINO V. COMBOY, JR. Vice President, General Services Division Concurrent Acting Head, EFMD	APPROVED:  DORENDAM. DASMARINAS Senior Vice President, Administration Group	ENGINEERING TEAM DESIGNED & DRAWN BY: MMK A. Sagugay - Sr. Engineer, EMT CHECKED BY: Arnelito V. Trinidad - Acting SSO V, EMT REVIEWED BY: Stephen P. Yap - CEO IV, Eng'g Dept.	SHEET CONTENT: LOAD SCHEDULE	ALL DRAWINGS MUST BE REVISIONS MUST BE NOTED ON USE BY THE CONTRACTOR. ALL REVISIONS SHOULD BE REPORTED IMMEDIATELY TO THE ARCHITECT AND PROJECT MANAGERS. CONTRACTORS ARE TO PROVIDE AND SUBMIT SHOP DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.	SHEET NO. E-05 DATE: MARCH 27, 2024
	LOCATION: Ground Floor SSS Main Building, East Avenue, Diliman, Quezon City						

eh



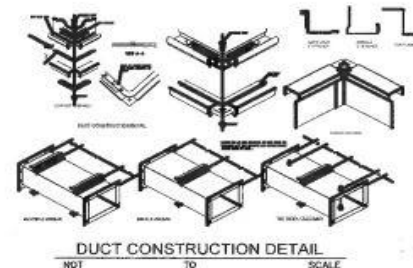
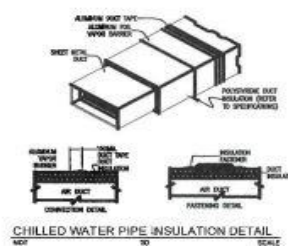
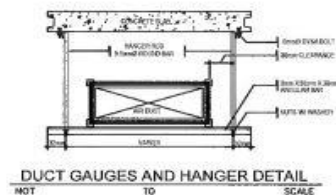
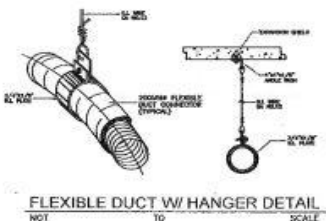
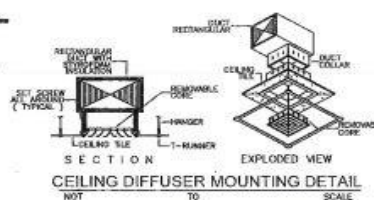
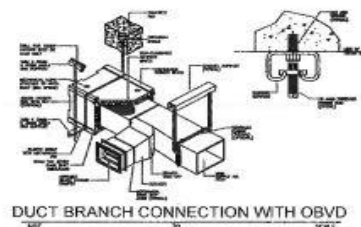


edl

- 1 ALL DUCTS AND ACCESSORIES SHALL BE INSTALLED IN APPROXIMATE LOCATION AS SHOWN ON THE DRAWINGS.
- 2 INSTALLATION OF ALL WORKS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER, IMPROPERLY SETWORK OR FINISH AS DETERMINED BY THE ARCHITECT SHALL BE REMOVED AND REPLACED AT NO EXTRA COST.
- 3 ALL MATERIALS TO BE USED SHALL BE BRAND NEW & CLEAN
- 4 DEVIATIONS AND REVISIONS FROM PLANS SHALL BE REFERRED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- 5 ALL DIMENSION ARE IN MILLIMETER UNLESS OTHERWISE SPECIFIED.
- 6 ALL MECHANICAL WORKS SHALL BE . IN ACCORDANCE WITH THE LATEST MECHANICAL ENGINEER'S CODE AND SQAQA AND ACHRA STANDARD
- 7 MECHANICAL CONTRACTOR SHALL OBSERVED ALWAYS SAFETY AND ORDERLINESS WITH GENERAL CONTRACTOR AND LAND LORD
- 8 MECHANICAL CONTRACTOR SHALL VERIFY SITE PRIOR TO ACTUAL INSTALLATION
- 9 TAPPING TO THE MAIN DUCTS SHALL BE AT TAKE-OFF AND PROPERLY SEALED. TENANT SHALL INSTALL A MANUAL VOLUME BALANCING DAMPER.
- 10 MAXIMUM LENGTH FOR FLEXIBLE DUCT SHALL BE 1M. ALL SUPPORTS AND CONNECTIONS SHALL BE PROPERLY INSTALLED TO PREVENT BLOCKAGES

MATERIALS	SPECIFICATIONS
01. DUCTWORKS, SHEET METAL	A/C : GA. 24 S.G., GALVAN. GALVA. BOND OR APPROVED EQUAL.
02. DUCT INSULATION	A/C : 25MM THK POLYURETHAN DUCT INSULATION.
03. DUCT INS. ADHESIVE	NON - FLAMMABLE.
04. SUPPLY CEILING DIFFUSER	PERFORATED, PLENUMED, W/ ORAL EXTENDED FRAME.
05. DUCT TAPE	ALUMINIUM, 25MM WIDE
06. DUCT SEALANT	NON-FLAMMABLE, WATER BASE SEALANT
07. FLEX. ROUND DUCT	150mm Dia. "WIRE-MOLD" WITH FIRE-RATING INSULATION
08. SUPPLY AIR GRILLE	4-WAY, FIXED BLADE
09. RETURN AIR GRILLE	SINGLE DEFLECTION, FIXED BLADE

ARE.	DESCRIPTION
	4-WAY SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER



1 GEN
M-01 SCALE NTS



WENDELINO V. COMBOY, JR.
VICE PRESIDENT, DDB AND
CONCURRENT ACTING HEAD, EYMD

DORENE M. DASMARINAS
VP, PROCUREMENT MANAGEMENT DIVISION AND
CONCURRENT ACTING HEAD, ADMIN. GROUP

DESIGNED & DRAWN BY:
Stephen H. Gutches - Sr. Engineer, EIT

CHECKED BY:
Antonio V. Trivette, Jr. - Acting EIT-V, DE








REVIEWED BY:
Stephen P. Yen - CEO IV, Enco Services

ALL DRAWINGS MUST BE
IDENTIFIED ON SITE BY THE
CONTRACTOR.
ALL DISCREPANCIES SHOULD
BE REPORTED IMMEDIATELY
TO THE ARCHITECT AND
PROJECT MANAGERS.

CONTRACTORS ARE TO
PREPARE AND SUBMIT SHOP
DRAWINGS TO THE
ARCHITECT PRIOR TO
CONSTRUCTION OF THE

SHEET NO.
M-01
DATE:
April 28, 2024



- | | |
|---|--|
|  | CABLE RACEWAYS |
|  | PULL BOX |
|  | CAT5e DATA & VOICE OUTLET
W/ FACE PLATE |
|  | CAT5e DATA & VOICE
CEILING MOUNTED |
|  | PVC PIPES ABOVE CEILING |
|  | PVC PIPES EMBEDDED
ON FLOORS/WALLS |
|  | EXISTING NETWORK CABINET |

GENERAL NOTES/SCOPE OF WORKS

1. SUPPLY NECESSARY MATERIALS, MANPOWER, TOOLS AND TECHNICAL PERSONNEL FOR THE FULL IMPLEMENTATION OF THE PROJECT.
2. ROUGHING-INS INSTALLED OVER THE CEILING SHALL BE 3"x6" & 2"x4" CABLE RACEWAYS, ON OTHERS PVC PIPES WITH COUPLINGS AND CONNECTORS OF VARIOUS SIZES.
3. SUPPLY AND CABLE PULLING OF CATSE-SOLID UTP CABLES FOR 12W VOICE/DATA NODES, FROM NETWORK CABINET TO HORIZONTAL DISTRIBUTIONS.
4. WHENEVER NECESSARY PROVIDE PULL BOX OF PROPER SIZE AND DIMENSION ALTHOUGH NOT INDICATED IN THE PLAN.
5. SUPPLY OF 6 PCS. CATSE PATCH PANELS FOR DATA AND VOICE.
6. ANY OTHER MATERIALS NECESSARY TO COMPLETE THE PROJECT SHALL BE IN THE ACCOUNTABILITIES OF THE CONTRACTOR.
7. TAGGING, TERMINATION, TESTING, AND COMMISSIONING OF ALL DATA AND VOICE OUTLETS TO HORIZONTAL DISTRIBUTION AND PATCH PANELS TO EXISTING DATA CABINET.
8. ANY DAMAGES INCURRED DURING THE IMPLEMENTATION OF THE PROJECT SHALL BE IN THE ACCOUNT OF THE CONTRACTOR AND SHOULD BE RESTORED TO ITS ORIGINAL APPEARANCE WITHOUT COST TO SSS.
9. TURNOVER AND SUBMISSION OF AS-BUILT PLAN AND DOCUMENTATION.

HCD AND MPD STRUCTURED CABLING LAYOUT

1
ALIX-01

AUX-01 / SCALE 1:200



PROJECT TITLE:	<p>RENOVATION OF HEALTH CARE DEPARTMENT MEDICAL PROGRAM DEPARTMENT</p>
LOCATION:	Ground Floor 666 Main Building, East Avenue, Diliman, Quezon City

LEO CALIXTO C. ABAYON
DEPARTMENT MANAGER III - NDO

MARVIC S. VILLARAMA
CONCURRENT ACTING HEAD, ICT SUPPORT SERVICES DIVISION

DESIGNED BY: Michael A. Crystal
 Michael Albert C. Crystal - NCD / JWP - BPME
 CHECKED BY: Michael Mufson
 Michael Mufson - Governor's Office / MONOR
 REVIEWED BY: Salvador G. Cordal
 Salvador G. Cordal - CEO III

STRUCTURED CABLING LAYOUT

ALL DRAWINGS MUST BE
VERIFIED ON-SITE BY THE
CONTRACTOR.
ALL DISCREPANCIES SHOULD
BE REPORTED IMMEDIATELY TO
THE ARCHITECT AND
PROJECT MANAGER.

CONTRACTORS ARE TO
PREPARE AND SUBMIT SHOP
DRAWINGS TO THE
ARCHITECT PRIOR TO
COMMENCEMENT OF WORK.

AUX.

DATE: **May 20, 2011**

AUX-01

DATE: **May 20, 2004**

Al

Section VIII. Bill of Quantities

LOT 1 – RENOVATION OF CANTEEN

RENOVATION OF CANTEEN

TITLE : RENOVATION OF CANTEEN
LOCATION : 2/F SSS Main Building, East Avenue, Quezon City

BILL OF QUANTITIES												
ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR & EQPT		MOB/ DEMOB	DIRECT COST	INDIRECT COST	VAT	TOTAL COST
				UNIT COST	AMOUNT	UNIT COST	AMOUNT					
(A)	(B)	(C)	(D)	(E)	(F) C x E	(G)	(H) C x G	(I) % x (F+H)	(J) F + H + I	(K) % x J	(L) % x (J + K)	(M) J + K + L
1.	GENERAL REQUIREMENTS											
	1.1 Signed and Sealed As-built plans	1.00	lot	-	-							
	TOTAL COST - GENERAL REQUIREMENTS											
2.	SITE PREPARATION											
	2.1 Demolition / dismantling of existing masonry wall, drywall partiiton, portion of perimeter walls, glass partitions/windows, doors & jambs, cabinets, floor finishes, ceiling, electrical fixtures & accessories, wiring, support, electro-mechanical equipment including wirings, pipings and accessories, cladding, counter, kitchen fixtures and other installations / items affected by the renovation (refer to plan)	1.00	lot	-	-							
	2.2 Temporary facilities/utilities	1.00	lot									
	2.3 Board-up, site protection and safety signages	1.00	lot									
	2.4 Hauling & disposal of debris and waste materials	1.00	lot									
	TOTAL COST - SITE PREPARATION											
3.	MASONRY WORKS											
	3.1 CHB wall including plastering works for toilets, perimeter wall (Grid 07 to Grid 13'), storage, serving area (with recessed aluminum baseboard), coffee corner and Exit wall to Al Fresco Area, including lintel beam and stiffener column	100.00	m²									
	3.2 Leveling of flooring, restoration / repair of damaged portions (such as cracks, crevices, holes) on flooring, ceiling, walls, columns and those affected by demolition & chipping works	685.50	m²									
	3.3 lavatory counter and countertop with following finishes: - concrete lavatory in 20mm thk synthetic granite finishes with backsplash, splashboard and sidings (Wash Area) - 12mm thk solid countertop with stainless steel round bar tracks/grooves (Serving area) - 600mm x 600mm homogeneous ceramic tiles with backsplash, splashboard and sidings (Coffee corner)	1.00	lot									
	3.4 Floor Tiles (Porcelain Tiles 600 x 600mm) for Dining Area, hallway and entrance area	650.00	m²									
	3.5 Floor & wall Tiles (Porcelain 600 x 600mm) for toilets, kitchen and slopsink (slopsink wall tiles: 300mm x 300mm)	105.00	m²									
	3.6 Cementitious waterproofing (toilets, wash area, slopsink and kitchen)	88.30	m²									
	TOTAL COST - MASONRY WORKS											

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR & EQPT		MOB/ DEMOB	DIRECT COST	INDIRECT COST	VAT	TOTAL COST
				UNIT COST	AMOUNT	UNIT COST	AMOUNT					
4.	CARPENTRY AND ARCHITECTURAL WORKS											
	4.1 Drywall Partition using fibercement board on metal framing (in-between existing and new canteen, rentable kiosk - with recessed aluminum baseboard, Canteen Management Office, lounge area, Locker Room) including wall cladding and ceiling accent at the entrance, wall cladding in-between canteen & chapel and column cladding	305.00	m²									
	4.2 Sound Insulation using rockwool, 75mm thick, 60kg/cum density (drywall partition in-between existing and new canteen and in-between canteen and chapel and storage)	130.00	m²									
	Pre-laminated MDF Board on metal framing accent wall with Faux green wall panel design at the entrance hallway and Faux green wall panel in 3/4" thk marine plywood at coffee corner, including all necessary hardwares and accessories	42.00	m²									
	4.4 Pre-Laminated Board for shelf and countertop and dining partition including accessories											
	Coffee Corner: Pre-Laminated MDF Board on 25mm x 25mm tubular steel framing overhead counter shelf	1.00	set									
	Pre-laminated marine plywood (HPL) countertop (frontside), front and side edge, back cover and logo board and 6mm thk ficem board on 75mm studs for overhead logo, menu and photo board, access double swing doors 750mm x 800mm, complete with all necessary materials, hardwares & accessories	1.00	lot									
	Pre-laminated marine plywood (HPL) countertop, access double swing doors 750mm x 800mm, complete with all necessary materials, hardwares & accessories for Rentable Kiosk	1.00	lot									
	Dining and Lounge Area Tubular Steel Partition / shelves	1.00	lot									
	- 100mm x 100mm tubular steel in matte paint finish (AP-1) - 1 unit											
	- Pre-laminated MDF Board on 25mm x 25mm tubular steel frame in matte paint finish (LP-1) - 4 units											
	- Pre-laminated marine plywood on 25mm x 25mm tubular frame shelves at lounge area											
	4.5 Ficem board on suspended metal furring system including recessed/drop ceiling	630.00	m²									
	4.6 Installation of 12mm thk plywood on existing wood planks flooring at the storage area	27.10	m²									
	TOTAL COST -CARPENTRY AND ARCHITECTURAL WORKS											
5.	GLASS PARTITION, DOORS AND WINDOWS											
	5.1 Wooden Doors and jambs											
	WD-01 Single Leaf Flush Hollow Core wood door with jamb 1100mm x 2150mm, with kick plate, lever type lockset and door closer, complete with hardware & accessories	1.00	set									
	WD-02 Single Leaf Flush Hollow Core wood door with jamb 1100mm x 2150mm, with lever type lockset and door closer, complete with hardware & accessories	1.00	set									

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR & EQPT		MOB/ DEMOB	DIRECT COST	INDIRECT COST	VAT	TOTAL COST
				UNIT COST	AMOUNT	UNIT COST	AMOUNT					
	WD-03 Single Leaf Flush Hollow Core (marine) wood door with jamb 700mm x 2150mm, with lever type lockset and door closer, complete with hardware & accessories	2.00	sets									
	WD-04 Louvered wood door with KD Solid wood frames 700mm x 2150mm, with stainless steel door handle, complete with hardware & accessories	1.00	set									
	WD-05 Single Leaf Flush Hollow Core wood door with jamb 1100mm x 2150mm, with 6mm thk tempered clear glass view panel (with vinyl sticker with cut-out ST1) and kick plate, double swing, with lever type lockset, complete with hardware & accessories	1.00	set									
	WD-06 Single Leaf Flush Hollow Core wood door with jamb 1100mm x 2150mm, with 6mm thk tempered clear glass view panel (with vinyl sticker with cut-out ST2), lever type lockset and door closer, complete with hardware & accessories	1.00	set									
5.2	Glass Door and Glass partition											
	Two Single-Leaf Swing Door, 12mm thk tempered clear glass door on powder coated FD-100 top and bottom frame with stainless steel handle, complete with patch fittings, hardware and accessories with frosted vinyl sticker (with cut-out ST3 & ST4), fixed glass and transom ±2550mm x ±2600mm at Main entrance (refer to plan)	1.00	set			-	-					
5.3	Steel Door											
	SD-01 Flush hollow core fire rated steel door with jamb 1100mm x 2150mm, with panic device, complete with hardware and accessories	3.00	sets									
	SD-02 Flush hollow core fire rated steel door with jamb 1100mm x 2150mm, with 6mm thk laminated clear glass view panel, panic device and door closer, complete with hardware and accessories	1.00	set									
5.4	Window											
	W-01 12mm thk frameless clear tempered glass 1000mm x 950mm	1.00	sets			-	-					
	W-02 12mm thk tempered clear glass on powder coated Aluminum framing, with vinyl frosted sticker, ±5700mm x ±2400mm	1.00	set			-	-					
	W-03 12mm thk tempered clear glass on powder coated Aluminum framing, with vinyl frosted sticker, ±3600mm x ±2400mm	1.00	set			-	-					
	W-04 12mm thk tempered clear glass on powder coated Aluminum framing, with vinyl frosted sticker, ±2650mm x ±2400mm	1.00	set			-	-					
	W-05 12mm thk tempered clear glass on powder coated Aluminum framing, with vinyl frosted sticker, ±5650mm x ±2400mm	3.00	set			-	-					
	TOTAL COST - GLASS DOOR AND GLASS PARTITION											
6.	PAINTING WORKS											
	6.1 Masonry Wall, new	210.00	m²									
	6.2 Existing Wall & column	130.00	m²									
	6.3 DW Partition and cladding (New)	420.00	m²									
	6.4 Ceiling (Fibercement board)	630.00	m²									
	6.5 Plywood / wooden surfaces	28.10	m²									
	6.6 Doors and Jambs, tubular steel frames, baseboard	1.00	lot									
	TOTAL COST - PAINTING WORKS											

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR & EQPT		MOB/ DEMOB	DIRECT COST	INDIRECT COST	VAT	TOTAL COST
				UNIT COST	AMOUNT	UNIT COST	AMOUNT					
7.	SPECIALTY WORKS (refer to plan)											
	Supply and installation of Wood Plastic Composite (WPC) Decorative panel and 7.1 board complete with all necessary hardware and accessories											
	- Fluted WPC panel accent 25mm x 165mm x 2900mm (serving area, lounge area and column cladding), refer to plan	20.00	m²									
	- WPC Column / tubular slats 50mm x 100mm x 2900mm (Recessed Ceiling - Dining Area, coffee corner, hallway entrance LP-2, HP-1, lounge area HP-2 including 100mm x 100mm end / corner support complete with necessary hardware and accessories, refer to plan	105.00	m²									
	- WPC Drop ceiling (serving area, rentable kiosk, self service area and coffee corner), refer to plan	42.00	m²									
	7.2 Facial Mirror, 6mm thick with aluminum frame and plywood backing											
	±5012mm x 1200mm (cut to size), 20mm backing	1.00	unit									
	±3712mm x 1200mm (cut to size), 20mm backing	1.00	unit									
	±2495mm x 800mm, 6mm backing	1.00	unit									
	500mm x 600mm, 6mm backing	2.00	units									
	7.3 Roller shades	753.00	ft²									
	7.4 Indoor and directional Signages	1.00	lot									
	Acrylic signage:											
	Comfort Room, 225mm x 225mm - 2 sets											
	Canteen Entrance, 380mmx 265mm - 1 set											
	Fire Exit, 450mm x 150mm - 4 set											
	Self-Service Area, 750mm x 150mm - 1 set											
	Coffee Dining Area Wall Accent "good coffee, great conversation" SIP & SIP"											
	START your day with a cup of COFFEE"											
	Lounge Area Sticker "good food, good company, good times" slowdown, breath in SAVOR EVERY BITE"											
	Entrance Hallway Accent Wall Acrylic cut-out letters "breakfat LUNCH snacks DINNER" HAPPY & HEALTHY" "FRESHLY MADE FRESHLY SERVED"											
	TOTAL COST - SPECIALTY WORKS											
8.	PLUMBING WORKS											
	8.1 Plumbing and Sanitary Fixtures and Accessories											
	Watercloset with tank coupled 3/6 LPF push button with soft closing seat and cover L690 x W370 x H785mm complete with fittings & accessories, HCG	2.00	units									
	Urinal, Wallhung with complete fittings and accessories	1.00	unit									
	Sloan Exposed Urinal Flush Valve with Bushing Reducer	1.00	unit									
	Undercounter lavatory 540 x 425 x 170mm, complete with fittings and accessories	2.00	units									
	Lavatory 520mm x 440mm x 205mm pedestal type rear flow w/ lavatory bracket including fittings and accessories	2.00	units									
	Lavatory Faucet, stainless, single lever faucet including pop-up drain, p-trap, flexible hose, angle valve complete with fittings & accessories	4.00	units									
	slop sink faucet	1.00	unit									
	Kitchen sink, single basin, stainless with complete accessories	1.00	unit									
	Goose Neck faucet, stainless, including drain, p-trap, flexible hose, angle valve, complete with fittings & accessories	1.00	unit									
	Stainless Steel Grease Trap, 5 gal/min capacity	1.00	unit									
	Handheld Bidet, stainless with complete fittings and accessories	2.00	units									
	Soap Holder, stainless	2.00	units									
	Tissue Holder, stainless	2.00	units									

ITEM NO.	DESCRIPTION	QTY	UNIT	MATERIALS		LABOR & EQPT		MOB/ DEMOB	DIRECT COST	INDIRECT COST	VAT	TOTAL COST
				UNIT COST	AMOUNT	UNIT COST	AMOUNT					
	Wall-mounted roll paper towel dispenser	1.00	units									
	Hand soap dispenser, automatic	1.00	units									
	Hand dryer, automatic	1.00	units									
	Pre-laminated Marine Plywood (HPL) Ledge 200mm x 800mm with stainless steel bracket	2.00	pcs									
	Gate valve, 32mm, stainless	2.00	units									
	Angle valve, 1/2", stainless	4.00	units									
	Flexible supply hose 1/2"	4.00	units									
	Floor drain, stainless steel 4" x 4"	5.00	units									
	Waterline roughing ins including tapping to existing water supply line, pressure 8.2 and leak test (coffee kiosk, toilets and wash area)	1.00	lot									
	Sewerline roughing ins including tapping to existing sewerline, flow and leak test 8.3 (coffee kiosk, toilets and wash area)	1.00	lot									
	TOTAL COST - PLUMBING WORKS											
9.	ELECTRICAL WORKS	1.00	lot									
10.	MECHANICAL WORKS	1.00	lot									
11.	STRUCTURED CABLING WORKS	1.00	lot									
12.	EXPANSION OF FIRE EXIT EGRESS											
	13.1 Demolition of existing masonry wall, parapet wall, canopy, roofing, inside gutter, downspout, truss, insulation and other installations/items to be affected by the proposed expansion (refer to plan)	1.00	lot									
	13.2 Perimeter wall using 150mm thick CHB including stiffener beam and column and parapet wall (refer to plan)	63.00	m²									
	13.3 Ceiling / cladding as per existing installation	1.00	lot									
	13.4 Board-up and site protection	1.00	lot									
	13.5 etc.and painting works	1.00	lot									
	TOTAL COST - EXPANSION OF FE EGRESS											

GENERAL CONDITIONS:

- For uniformity and evaluation purposes, a bidder shall adhere to the herein prescribed format of BOQ, specifically in the formula for computation, given quantity and exclusive pay items. Any deviation from the format shall be a ground for disqualification of bid.
- Fill up all required items/field in the BOQ. Failure to indicate any of the following shall mean outright disqualification since bid is considered Non-responsive:
 - if item is given for free, indicate dash (-), zero (0) or free
- Each bidder shall be provided with hard copy of the BOQ Form (attached in the PBD) and an electronic copy for faster and easier encoding. The hard copy shall serve as the bidder's reference as to completeness of work items, quantity, formula, format, etc. in the BOQ Form considering that the electronic copy is prone to alterations during encoding. Any discrepancy on the contents (specially on the quantity and inclusive pay items) between the hard copy and electronic, the contents of the hard copy shall prevail.
- Bidder are not allowed to include any pay items that were not indicated in the form supplied Bill of Quantities. In instances where necessary work items are inadvertently left out in BOQ Form, a bidder should make a written query to the Bids and Awards Committee so that the same shall be addressed in the Bid Bulletin which will be issued to all participating bidders.
- Bidders shall include in the detailed estimate the breakdown of materials & labor for quantities specified in **LOT, SQ.M** (unit of measure) in BOQ form
- All documents must be signed, and each and every page thereof must be initialed by the duly authorized representative/s of the Bidder

LOT 2 – RENOVATION OF HCD AND MPD

RENOVATION OF HCD & MPD

PROJECT : RENOVATION OF HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT

LOCATION : Ground Floor, SSS Main Building, East Avenue, Diliman, Quezon City

BILL OF QUANTITIES FORM

ITEM NO.	DESCRIPTION	QTY.	UNIT	MATERIALS		LABOR & EQUIPMENT		MOB. / DEMOB.	TOTAL	MARK-UP	VAT	TOTAL COST
				UNIT COST	TOTAL	UNIT COST	TOTAL		DIRECT COST			
(A)	(B)	(C)	(D)	(E)	(F) (C * E)	(G)	(H) (C * G)	(I) % * (F+H)	(J) (F + H + I)	(K) % * (J)	(L) 12% * (J+K)	(M) (J + K + L)
I. GENERAL REQUIREMENTS												
1.0	Reproduction of construction plans and preparation/printing of signed-and-sealed as-built plans	1.00	lot									
2.0	Temporary Facilities: warehouse & barracks	1.00	lot									
TOTAL COST I – GENERAL REQUIREMENTS												
II. SITE PREPARATION												
1.0	Dismantling of existing drywall partitions, masonry walls, glass windows, doors & jamb, cabinets, floor finishes, raised flooring, ceiling, concrete counters, electrical fixtures & accessories, wirings, airconditioning units, supports, pipes and other installations/items affected by the renovation (refer to the plan)	1.00	lot									
2.0	Restoration / repair of damaged portions of flooring (cracks, crevices, holes) walls and other areas/surfaces affected by demolition & chipping works including leveling of flooring using self leveling compound	1.00	lot									
3.0	Temporary board-up/site enclosure, protective covering for furniture/equipment and other safety requirements i.e. signages	1.00	lot									
4.0	Hauling & Disposal of waste/unusable materials, debris, etc.	1.00	lot									
TOTAL COST II – SITE PREPARATION												
III. CIVIL / ARCHITECTURAL WORKS												
1.0	Carpentry Works											
1.1	Wall											
1.1.1	Reinforced Concrete Wall 6" thick (X-Ray Room)	1.42	m3									
1.1.2	Installation of new 6mm fiber cement drywall partition on metal studs framing (MPD & HCD Department Manager's Room, MPD Pantry, PMD Storage Rm, Central Supply Rm, Dental Clinic & Staff Area, Laboratory,Conference Room , HCD Storage Rm and ECG Rooms,HCD Pantry Backdrop and Treatment Room Side Wall) (Two Face)	219.55	m²									
1.1.3	Installation of 150mm Thk CHB Wall in Plain Cement Plaster (Painted Finish) (Pantry)	4.68	m²									
1.2	Ceiling											
1.2.1	Restoration / repair/ replacement of damaged portions of ceiling, alignment of framing including necessary support for portion of ceiling to be retained (MPD Pantry,MPD CR, MPD Storage,MPD Supply Room, ECG, HCD Pantry, X-Ray Reading Room, HCD Storage Area, HCD CR)	97.30	m²									
1.2.2	Installation of acoustic ceiling board on CMT powder coated aluminum frame (Medical Program Department Staff,Department Manager (MPD),Health Care Department Staff Area, Department Manager Office (HCD),Dental Clinic Staff, Laboratory Staff, Conference Room) Acoustic Board, Fine Fissured design, 2' x 4' x 5/8" thk ,CMT - Main Tee 1" x 1 ½" x 12' , CMT - Cross Tee 1" x 1" x 2',CMT – Wall angle 1" x 1" x 10', Hanger Rod, #8, Powerload & Drive Pin (threaded),Steel angle 50mm x 50mm x 6mm thk, Concrete Nail, 1"	327.84	m²									
1.2.3	Installation of Fiber cement board on CMT powder coated aluminum frame (Dental Clinic, laboratory, Treatment Room). Fiber Cement Board, 0.60m x 0.60m x 6mm (Moisture Resistant),CMT - Main Tee 1" x 1 ½" x 12' , CMT - Cross Tee 1" x 1" x 2', CMT – Wall angle 1" x 1" x 10', Powerload & Drive Pin (threaded), Steel angle 50mm x 50mm x 6mm thk, Hanger Rod, #8, Concrete Nail, 1"	63.63	m²									

Handwritten signature/initials

1.2.4	Installation of Fiber cement board on light metal frames painted finish (Drop Ceiling @ Nurse Station, Hallway, Xray Room) Fiber Cement Board, 1.2m x 2.4m x 6mm (Moisture Resistant), Carrying Channel, 12mm x 38mm x 5m, ga.20, Double Furring Channel, 19mm x 50mm x 5m, ga.25, 1/8" x 3/8" (4-4) blind rivets, W-Clip, Suspension Clip & Rod Joiner #8, Powerload & Drive Pin (threaded), Steel angle 50mm x 50mm x 6mm thk, Hanger Rod, #8, Ficem screw 1" (Needle pt.), Concrete Nail, 1"	67.78	m ²									
1.2.5	Provision of Cable Tray, Hangers, etc. including all necessary supports to complete the new ceiling works	1.00	lot									
1.3	Repair of Doors											
1.3.1	Repair of existing doors and jambs and provision of door lockset, door closer, replacement of hinges including necessary works to complete the projects (WD-01, WD-04, WD-05)	6.00	sets									
1.4	Cabinet											
1.4.1	Fabrication and installation of overhead and counter cabinets (20mm thk Marine plywood 4' x 8', 0.60mm thick HPL 4' x 8', 1" x 1" x 8' wood edging, 2" x 4" x 8' KD Tanguile s4s, Stainless steel pul handle, Wood Glue, Concealed hinge, Expansion shield with lag screw, Assorted nails) (MPD Pantry, HCD Pharmacy, Dental Clinic, Laboratory, ECG, Control Room, Treatment Room)	253.20	sq.m									
1.4.2	Repair and Repainting of Existing Cabinets and Replacement of hardware (Stainless steel pull handle, Concealed hinge, Expansion shield with lag screw) (MPD Pantry, MPD Staff Area, Laboratory)	65.26	sq.m									
	TOTAL COST – CARPENTRY WORKS											
2.0	Tile Works											
2.1	Carpet tile 500mm x 500mm x 7mm thick - Conference Room	24.07	m ²									
2.2	Installation of vinyl planks floor tiles (150mm x 900mm x 3mm, Apo wood grain finish) as indicated in the plan (Department Managers Office and OVP MSD)	51.16	m ²									
2.3	Installation of floor and wall tiles at toilets including application of Cementitious Water Proofing (3 Coats) on flooring	72.83	m ²									
2.4	Installation of Porcelain Tile on lavatory counters as indicated in the plan (Pantry, Dental Clinic, Laboratory)	10.24	m ²									
2.5	Installation of Homogeneous Vinyl Tiles (300mm x 300mm x 3mm thk) - MPD Pantry, MPD Storage Rm, MPD General Office Area, Central Supply Room, Dm Staff Area, HCD Pantry, HCD Storage Room, X-Ray Reading Room	174.61	m ²									
2.6	Installation of Homogeneous 2mm thick PVC Vinyl Flooring with Seamless joint and Slip/wear/chemical resistant, including application of Self-leveling Primer, Self-Leveling compound and Adhesive - (HCD General Office Area, Lobby/Nurse Station, Dental Clinic, Dental Clinic Staff Area, Laboratory, Laboratory Staff Area, ECG Rooms 1 & 2, Treatment Room, Hallways, X-ray Room and Control Room, Waiting Area)	338.68	m ²									
	TOTAL COST – TILE WORKS											
3.0	Wooden Doors, Glass Doors, Glass Windows and Glass Partition											
3.1	Supply and Installation of Wooden Doors & Jambs including accessories											
3.1.1	WD-02 - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (2-Sets)	2.00	sets									
3.1.2	WD-03 - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver with 6mm fixed clear glass (200mm W x 800mm H) including door lockset, Door Closer and Stainless Hinges (3-Sets)	3.00	sets									
3.1.3	WD-06 - 2150mm H x 900mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (2-Sets)	2.00	sets									
3.1.4	WD-07 - 2150mm H x 1000mm W flush hollow core wood door with jamb, bottom louver including door lockset, Door Closer and Stainless Hinges (1-Set)	1.00	set									
3.2	Supply and Installation of Tempered Glass Door including accessories											

3.2.1	GD-01, GD-02, GD-06 Glass - Double Leaf Frameless Glass Doors (12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia. and Lockset. Complete w/ Patch Fittings, Hardware & Accessories, w/ Vinyl Frosted Sticker, cut-out vinyl sticker signage and stainless steel door stopper with rubber bumper (Executive/General Offices)	12.79	sq.m										
3.2.2	GD-03, GD-04, GD-05 - Single Leaf Frameless Glass Doors (12mm thk tempered clear glass on FD 100 top and bottom frame with H-Type Stainless Steel Door Handles 600mmL x 1" Dia. and Lockset. Complete w/ Patch Fittings, Hardware & Accessories, w/ Frosted Sticker, cut-out vinyl sticker signage and stainless steel door stopper with rubber bumper (Executive/General Offices)	20.81	sq.m										
3.3	Supply and Installation of Tempered Glass Partition including accessories												
3.3.1	GSF/03, GSF/04, GSF/05, GSF/06, GSF/07, GSF/08, GSF/09, GSF/10- Glass Wall Partitions (6mm thk tempered fixed clear glass panel on powder coated aluminum framing (Executive/General Offices) with vinyl frosted Sticker	84.61	sq.m										
3.3.2	GSF/01 and GSF/02 - Glass Wall Partitions (12mm thk tempered fixed clear glass panel on powder coated aluminum perimeter framing and frameless on interior panel (Executive/General Offices) with vinyl frosted Sticker	55.77	sq.m										
3.4	Supply and Installation of Tempered Glass Window including accessories												
3.4.1	W-1 6mm thk x ±1200mm W x 1300mm H tempered fixed clear glass panel on powder coated aluminum perimeter framing (Laboratory Counter)	1.56	sq.m										
3.4.2	WD-2 Supply and Installation of 6mm thk x 600mm W x 1000mm H Tempered Clear Transom Glass (2-sets)	1.20	m²										
3.4.3	W-03, Replacement of Existing Damage Window Glass and Repainting of framing including application of structural clear sealant (Perimeter Window) 3 Units- Upper Glass (575mmH x 970mmW) 9 Units - Lower Glass (1185mmH x 970mmW)	12.58	m²										
	TOTAL COST – WOODEN DOORS, GLASS DOORS, WINDOWS AND PARTITIONS												
4.0	PLUMBING AND SANITARY WORKS												
4.1	Watercloset with tank, elongated complete with fittings & accessories, (Flexible Hose, Angle Valve, etc.) HCG	3.00	units										
4.2	Wallhung lavatory complete with fittings and accessories, (Flexible Hose, Angle Valve, etc.) HCG	1.00	unit										
4.3	Wall Hung Urinal w/ Push Button Flush, w/ complete fittings & accessories	2.00	units										
4.4	Undercounter lavatory 540 x 425 x 170mm, complete with fittings and accessories (Flexible Hose, P-Trap, Angle Valve, etc.)	2.00	units										
4.5	Lavatory Faucet, stainless, single lever faucet including pop-up drain, p-trap, flexible hose, angle valve complete with fittings & accessories (Comfort Room)	3.00	units										
4.6	Portable Stainless Steel Sink with Cabinet with complete accessories - (Treatment Room)	1.00	set										
4.7	Stainless Kitchen Sink (SS 304) (Dental Clinic and Laboratory)	2.00	units										
4.8	Goose Neck faucet, stainless, including drain, p-trap, flexible hose, angle valve, complete with fittings & accessories (Dental Clinic, Laboratory and Treatment Room)	3.00	sets										
4.9	Handheld Bidet, stainless	3.00	units										
4.10	Soap Holder, stainless	3.00	units										
4.11	Tissue Holder, stainless	3.00	units										
4.12	Floor drain, stainless	5.00	units										
4.13	Facial Mirror, 6mm thick x 600mm x 800mm with aluminum frame and backing board	3.00	units										
4.14	Repair/replace damaged plumbing/sanitary lines and Provision of new sanitary and waterlines and tapping from nearest tapping point for Treatment room	1.00	unit										
	TOTAL COST – PLUMBING WORKS												
5.0	PAINTING WORKS												

5.1	Surface preparation and application of paint including miscellaneous materials i.e. thinners, tinting colors, rags, paint brush, roller pan, putty, masking tape & other consumables	1,309.72	sq.m									
5.2	Drywall partitions -(Permacoat Flat Latex Paint ,1 Coat, Permacoat Semi Gloss Latex Paint, 2 Coats	477.66	sq.m									
5.3	Concrete wall and column(Permacoat Flat Latex Paint ,1 Coat, Permacoat Semi Gloss Latex Paint, 2 Coats	302.76	sq.m									
5.4	Painting of doors & jambs, cabinets and counter Lacquer primer surfacer,1 coat, Automotive Lacquer paint, 2 coats, Clear gloss lacquer paint, 2 coats	286.44	sq.m									
5.5	Painting of Ceiling (Permacoat Flat Latex Paint ,1 Coat, Semi Gloss Latex Paint, 2 Coats	242.86	sq.m									
	TOTAL COST – PAINTING WORKS											
6.0	SPECIALTY WORKS											
6.1	Supply and installation of sunscreen roller shades on perimeter window transparency 1% - Rear Windows	655.19	ft²									
6.2	W-02, Provision of viewing window at x-ray control room (Lead Glass with radiation shielded steel frame (10mm thk, x 1000mm H x 600mm W) @ 2.4mm Pb)	1.00	unit									
6.3	Supply and Installation of Black out Medical Curtain with 1" dia Stainless Curtain Rod and Hanger	35.04	m²									
6.4	Supply and Installation of Vinyl wallpaper, 0.3mm thick OVP-MSD	20.12	m²									
6.5	Supply and Installation of Laminates 1.5mm thick OVP-MSD	8.11	m²									
6.6	Supply and Installation of Wall Mounted Acrylic Office Signages 3mm thk. with 1/2" dia. Stand off bolt Anchorage (Chrome finish) a. Medical Program Department:(Storage Rm, Pantry, Comfort Rm.) b. Health Care Department: (ECG Rm. 1 & 2, Central Supply Rm., Pantry, X-ray Rm., Control Rm, Storage Rm., X- ray Reading Rm., Comfort Rm., Warning Notice X-ray Rm. Door)	9.30	ft²									
6.7	Supply and Installation of Ceiling Mounted Acrylic Office Signages 3mm thk on Stainless Steel Signage Hanger with adjustable Clip/Clamp a. Medical Program Department:(Quality Assurance Section, Program Development Enhancement) b. Health Care Department: (Extraction Area, X-Ray Rm, Laboratory Rm., Receiving of Specimen, Waiting Area, Employees Hospitalization Reimbursement Section, Department Manager)	8.55	ft²									
	TOTAL COST – SPECIALTY WORKS											
	TOTAL COST III - CIVIL/ ARCHITECTURAL WORKS											
IV.	ELECTRO MECHANICAL WORKS (see attached estimates)											
1.0	Lighting Layout Materials											
1.1	Conduits & Fittings											
1.1.1	20mmØ PVC Pipe with hub	156	L									
1.1.2	20mmØ PVC Adapter with locknut & bushing	310	sets									
1.1.3	15mmØ Flexible Metallic Conduit (FMC)	245	m²									
1.1.4	15mmØ Flexible Metallic angle/straight connector with locknut & bushing	490	sets									
1.2	Boxes / Gutters with cover											
1.2.1	Utility Box Deep type GA # 16	28.00	ea									
1.2.2	Junction Box Deep type GA # 16	15.00	ea									
1.2.3	Square Box Deep type GA # 16	30.00	ea									
1.3	Wires/Cables/Wiring Devices											
3.1.1	3.5mm2 THHN/ THWN stranded wire, Lead Free	11.00	rolls									

3.0	Panel Boards/ECB/Breakers											
3.1	MDP- HCD -Main: 300AT, 3P, 230V, 50KAIC -Branches: -1-125AT, 3P, 230V, 25 KAIC -3-100AT, 3P, 230V, 25 KAIC -Surface Mounted, Bolt-on, Industrial Type, w/ grounding terminal block, powder coated gray paint	1.00	assy									
3.2	HCD POWER PANEL -Main: 125AT, 3P, 230V, 25KAIC -Branches: -6-30AT, 2P, 230V, 18 KAIC -12-20AT, 2P, 230V, 18 KAIC -Surface Mounted, Bolt-on, Industrial Type, w/ grounding terminal block, powder coated gray paint	1.00	assy									
3.3	ECB (MPD-HCD) , 300AT, 3P, 230V, 50KAIC	1.00	assy									
3.4	ECB (HCD-XRAY), 100AT, 3P, 230V, 25KAIC	1.00	assy									
4.0	Conduits/ supports, boxes, cable trays, wire gutters, panel board covers, breakers, ECB, and other incidental items and consumable materials including other related works and activities to complete the project	1.00	lot									
5.0	Relocation of all affected FDAS devices, and paging including necessary wires, conduits	1.00	lot									
6.0	Air-Conditioning Layout to EE room											
6.1	Conduits & Fittings											
6.1	20mmØ PVC Pipe with hub	122.00	L									
6.2	20mmØ PVC Adapter with locknut & bushing	30.00	sets									
6.2	Boxes / Gutters with cover											
	Utility Box Deep type GA # 16	8.00	ea									
	Square Box Deep type GA # 16	30.00	ea									
6.3	Wires / Cables											
	5.5mm2 THHN/ THWN stranded wire, Lead Free	5.00	rolls									
7.0	Air-con Outlet for window type, 230V, 3 Prong w/ grounding, flush mounted, parallel slot, complete with cover	8.00	lot									
8.0	Conduits/ supports, boxes, cable trays, gutters, other incidental items and consumable materials and other related works and activities to complete the installation	1.00	lot									
9.0	Relocation and repainting of all existing AC diffusers and returns including GI ductings and other necessary materials/accessories and works to complete the installation. Supply and installation of new AC grills and return air grills	1.00	lot									
10.0	Relocation of all existing affected sprinklers including pipes, elbow and necessary materials and works to complete the installation	1.00	lot									
11.0	Relocation of all existing affected airconditioning units including other necessary works and materials needed to complete the installation	1.00	lot									
12.0	Supply and Installation of Aircurtain complete set including necessary wirings, conduits and other materials and works to complete the functionality of the system	2.00	sets									
	TOTAL COST IV - ELECTRO-MECHANICAL WORKS											
V.	STRUCTURED CABLING WORKS											
1.0	Cabling Component											
1.1	Cat5E Information Outlet	124.00	pcs									
1.2	Cat5E Patch Panel 24 Ports	6.00	pcs									

1.3	Modular Faceplate 2-Ports	62.00	pcs									
1.4	1RU (19") Horizontal Cable Manager	3.00	pcs									
1.5	Cat5E UTP Patch Cord (1 meter)	62.00	pcs									
1.6	Cat5E UTP Cable 4- Pair Solid, 24WG	18.00	roll (305m)									
1.7	Roughing-ins											
2.0	Cable raceway 3" x 6" & 2" x 4" (1.5mm) G.I, PVC Amco boxsquare, pull box, angle bar, anchor bolt, connectors, coupling, etc.	1.00	lot									
	TOTAL COST V - STRUCTURED CABLING WORKS											
	TOTAL BID COST (I + II + III + IV +V) Must not exceed the ABC of Php 14, 210,000.00											

GENERAL CONDITIONS:

- For uniformity and evaluation purposes, a bidder shall adhere to the herein prescribed format of BOQ, specifically in the formula for computation, given quantity and exclusive pay items. Any deviation from the format shall be a ground for disqualification of bid.
 - Fill up all required items/field in the BOQ. Failure to indicate any of the following shall mean outright disqualification since bid is considered Non-responsive:
 - If item is given for free, indicate dash (-), zero (0) or free
 - If the item is not applicable, indicate N/A
- Each bidder shall be provided with hard copy of the BOQ Form (attached in the PBD) and an electronic copy for faster and easier encoding. The hard copy shall serve as the bidder's reference as to completeness of work items, quantity, formula, format, etc. in the BOQ Form considering that the electronic copy is prone to alterations during encoding. Any discrepancy on the contents (specially on the quantity and inclusive pay items) between the hard copy and electronic, the contents of the hard copy shall prevail.
- Bidders are not allowed to include any pay items that were not indicated in the form supplied Bill of Quantities. In instances where necessary work items are inadvertently left out in BOQ Form, a bidder should make a written query to the Bids and Awards Committee so that the same shall be addressed in the Bid Bulletin which will be issued to all participating bidders.
- Bidders shall include in the detailed estimate the breakdown of materials & labor for quantities specified in LOT (unit of measure) in BOQ
- All documents must be signed, and each and every page thereof must be initialed by the duly authorized representative/s of the Bidder
- Mark-up shall include the following:
 - Overhead expenses such as office expenses, supervision, transportation allowances, and financing costs (Premium on CARI, Bid Security, Performance Security, Surety for advance payment, Warranty bond)
 - Contingencies, Miscellaneous Expenses and Contractor's Profit margin
- It is the responsibility of the Bidder to check the arithmetical computation provided herein.

Submitted by: _____
(Name of Bidder / Company Name)

Prepared by: _____
(Company Representative - Signature over printed name)

Address: _____

Telephone #: _____

Date: _____

el

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Certificate of Platinum Registration and Membership (Platinum Membership) (all pages);

Technical Documents

- ☐ (b) 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
- ☐ (c) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within five (5) years period prior to the submission and opening of Bids; and
- ☐ (d) Philippine Contractors Accreditation Board (PCAB) License;
or
Special PCAB License in case of Joint Ventures;
and registration for the type and cost of the contract to be bid; and
- ☐ (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; and
- ☐ (f) 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**
- ☐ (g) 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

- ☐ (h) 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**
- ☐ (i) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC).

Class “B” Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

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

IMPORTANT REMINDERS

- A) Each and every page of the **Bid Forms**, under Section VIII: Checklist of Technical and Financial Documents hereof, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.
- B) Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.
- C) Bid documents shall be compiled in a folder/binder with the Annexes properly labeled with tabs/separators.
- D) Bidders shall submit their bids through their duly authorized representative enclosed in separate sealed envelopes, which shall be submitted simultaneously:
- a) The first three individually sealed envelopes shall contain the folder/binder of the Eligibility Requirements and Technical Component of the bid; prepared in three copies labeled as follows:
- Envelop (1): ORIGINAL – Eligibility Requirements and Technical Component
Envelop (2): COPY1 – Eligibility Requirements and Technical Component
Envelop (3): COPY2 – Eligibility Requirements and Technical Component
- b) The next three individually sealed envelopes shall contain the folder/binder of the Financial Component of the bid; prepared in three copies labeled as follows:
- Envelop (4): ORIGINAL – Financial Component
Envelop (5): COPY1 – Financial Component
Envelop (6): COPY2 – Financial Component
- c) Bidders shall enclose, seal and mark the following:
- Envelop (7): Envelope (1) and Envelope (4) enclosed in one sealed envelope marked “ORIGINAL–BID”
- Envelop (8): Envelope (2) and Envelope (5) enclosed in one sealed envelope marked “COPY1–BID”

Envelop (9): Envelope (3) and Envelope (6) enclosed in one sealed envelope marked “COPY2–BID”

- d) Envelopes (7) to (9) shall then be enclosed in a single sealed, signed final/outer envelope/package/box
- e) All envelopes (Envelopes (1) to (9) and the final/outer envelope/package/box) shall indicate the following:
 - addressed to the Procuring Entity’s BAC
 - name and address of the Bidder in capital letters
 - name of the contract/project to be bid in capital letters
 - bear the specific identification/reference code of this bidding process
 - bear a warning “DO NOT OPEN BEFORE...” the date and time for the opening of bids

THE CHAIRPERSON

BIDS AND AWARDS COMMITTEE

2ND FLOOR, SSS MAIN BUILDING

EAST AVENUE, DILIMAN, QUEZON CITY

NAME OF BIDDER : _____

ADDRESS : _____

- E) Bids submitted after the deadline shall only be marked for recording purpose, shall not be included in the opening of bids, and shall be returned to the bidder unopened.

FORMS

FORMS

Bid Form for the Procurement of Infrastructure Projects

BID FORM

RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT
Lot 1 – Renovation of Canteen

Date: _____
Project Identification No.: _____

To: **SOCIAL SECURITY SYSTEM**
East Avenue, Diliman, Quezon City

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT (Lot 1 – Renovation of Canteen);
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: (insert information);
- d. The discounts offered and the methodology for their application are: (insert information);
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/conform that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT (Lot 1 – Renovation of Canteen) of the SSS.
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity:_____

Signature:_____

Duly authorized to sign the Bid for and behalf of _____

Date: _____

Bid Form for the Procurement of Infrastructure Projects

BID FORM

RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT

Lot 2 – Renovation of Health Care Department and Medical Program Department

Date: _____
Project Identification No.: _____

To: **SOCIAL SECURITY SYSTEM**
East Avenue, Diliman, Quezon City

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

- a. We have no reservation to the PBDs, including the Supplemental or Bid Bulletins, for the Procurement Project: RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT (Lot 2 – Renovation of Health Care Department and Medical Program Department);
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: (insert information);
- d. The discounts offered and the methodology for their application are: (insert information);
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the period stated in the PBDs, and it shall remain binding upon us at any time before the expiration of that period;
- g. If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines for this purpose;
- h. We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- i. We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

- j. We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- k. We likewise certify/conform that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT (Lot 2 – Renovation of Health Care Department and Medical Program Department) of the SSS.
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity:_____

Signature:_____

Duly authorized to sign the Bid for and behalf of _____

Date: _____

Bid Securing Declaration Form

RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL
PROGRAM DEPARTMENT
Lot 1 – Renovation of Canteen

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

BID SECURING DECLARATION

Project Identification No.: *ITB-SSS-Civil-2024-019*

To: **SOCIAL SECURITY SYSTEM**
East Avenue, Diliman, Quezon City

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]
[Insert signatory’s legal capacity] Affiant

[Jurat]

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

GPPB Resolution No. 16-2020, dated 16 September 2020

Bid Securing Declaration Form

**RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL
PROGRAM DEPARTMENT**

Lot 2 – Renovation of Health Care Department and Medical Program Department

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

BID SECURING DECLARATION

Project Identification No.: ITB-SSS-Civil-2024-019

To: ***SOCIAL SECURITY SYSTEM***

East Avenue, Diliman, Quezon City

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED
REPRESENTATIVE]
[Insert signatory's legal capacity] Affiant

[Jurat]

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

GPPB Resolution No. 16-2020, dated 16 September 2020

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

CONTRACT AGREEMENT

RENOVATION OF CANTEEN & RENOVATION OF HEALTH CARE
DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT

ITB-SSS-CIVIL-2024-019

THIS AGREEMENT made between:

SOCIAL SECURITY SYSTEM, a government-owned and controlled corporation created pursuant to Republic Act No. 11199, with principal office address at SSS Building, East Avenue, Diliman, Quezon City, represented herein by its Approving Authority and (Position of Approving Authority), (Name of Approving Authority) and (Position of Signatory), (Name of signatory), duly authorized pursuant to Administrative Order _____, _____ (pertaining to Approving Authority) (Annex “A”) and Office Order _____, _____ (Annex “B”) (pertaining to signatories), hereinafter referred to as the “SSS”;

- a n d -

(NAME OF CONTRACTOR), of legal age, Filipino, single/married, with principal address at _____, hereinafter referred to as the “Contractor”.

If corporation

(NAME OF CONTRACTOR), a corporation duly created and existing pursuant to the laws of the Republic of the Philippines, with principal office address at _____, represented herein by its (Position of Signatory), (Name of Signatory), duly authorized pursuant to _____, hereinafter referred to as the “Contractor”.

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, viz.:

- a. Philippine Bidding Documents (PBDs);
 - i. Drawings/Plans;
 - ii. Specifications;
 - iii. Bill of Quantities;
 - iv. General and Special Conditions of Contract;
 - v. Supplemental or Bid Bulletins, if any
- b. Contractor's bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

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

- c. Performance Security;
- d. Notice of Award of Contract; and the Bidder's conforme thereto; and
- e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

- 3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
- 4. The SSS agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

SSS

[Insert Name of Supplier]

(In case of double acknowledgment)

SIGNED IN THE PRESENCE OF:

(Name of Certifying officer as to availability of funds)
(Position of Certifying Officer)
(Department/Office of Certifying Officer)

FUNDS AVAILABLE:

APP No.: _____

FIRST ACKNOWLEDGMENT

Republic of the Philippines)
_____) S.S.

BEFORE ME, a Notary Public for and in _____, Philippines, on this _____ day of _____ personally appeared:

Name	Competent Evidence of Identity	Date/Place of Issue

known to me to be the same person who executed the foregoing Agreement, consisting of _____ (____) pages, including this page and excluding annexes, and he/she/they acknowledged to me that the same is his/her/their free and voluntary act and deed as well as the free and voluntary act and deed of the principal he/she /they represent/s in this instance.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. _____;
Page No. _____;
Book No. _____;
Series of 20____.

SIGNED IN THE PRESENCE OF:

SECOND ACKNOWLEDGMENT

Republic of the Philippines)
_____) S.S.

BEFORE ME, a Notary Public for and in _____, Philippines, on this _____ day of _____ personally appeared:

Name	Competent Evidence of Identity	Date/Place of Issue

known to me to be the same person who executed the foregoing Agreement, consisting of _____ (____) pages, including this page and excluding annexes, and he/she/they acknowledged to me that the same is his/her/their free and voluntary act and deed (if corporation to include succeeding phrase) as well as the free and voluntary act and deed of the principal he/she /they represent/s in this instance.

WITNESS MY HAND AND SEAL on the date and place first above written.

Doc. No. _____;
Page No. _____;
Book No. _____;
Series of 20____.

Omnibus Sworn Statement (Revised)

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

AFFIDAVIT

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

1. *Select one, delete the other:*

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

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

2. *Select one, delete the other:*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of *[insert Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **RENOVATION OF CANTEEN & RENOVATION OF HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT** of the **SOCIAL SECURITY SYSTEM** as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for **RENOVATION OF CANTEEN & RENOVATION OF HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT** of the **SOCIAL SECURITY SYSTEM**, as shown in the attached *[state title of attached documents showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable;)]*;

3. *[insert Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

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

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

6. *Select one, delete the rest:*

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

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

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

7. *[insert Name of Bidder]* complies with existing labor laws and standards; and
8. *[insert Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a) Carefully examining all of the Bidding Documents;
 - b) Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *RENOVATION OF CANTEEN & RENOVATION OF HEALTH CARE DEPARTMENT AND MEDICAL PROGRAM DEPARTMENT*.
9. *[insert Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s.1930, as amended, or the Revised Penal Code.**

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]

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

STATEMENT OF ALL ITS ON-GOING GOVERNMENT AND PRIVATE
CONTRACTS, INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

NAME OF CONTRACT	DATE OF CONTRACT	CONTRACT DURATION	CONTACT PERSON, CONTACT NO., ADDRESS, AND EMAIL ADDRESS	KINDS OF GOODS	AMOUNT OF CONTRACT	VALUE OF OUTSTANDING CONTRACT

FORM-06

**STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO
THE PROJECT TO BE BID EQUIVALENT TO AT LEAST 50% OF THE ABC
WITH ATTACHED CERTIFICATE OF FINAL COMPLETION OR
CPES EVALUATION**

**RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL
PROGRAM DEPARTMENT
Lot 1 – Renovation of Canteen**

NAME OF CONTRACT	KINDS OF GOODS	AMOUNT OF CONTRACT	CONTACT PERSON, CONTACT NO., ADDRESS, AND EMAIL ADDRESS

**NOTE: SLCC SHOULD BE PROJECTS WITHOUT NON-DISCLOSURE
AGREEMENT (NDA)**

FORM-06-A

**STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO
THE PROJECT TO BE BID EQUIVALENT TO AT LEAST 50% OF THE ABC
WITH ATTACHED CERTIFICATE OF FINAL COMPLETION OR
CPES EVALUATION**

**RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL
PROGRAM DEPARTMENT**

Lot 2 – Renovation of Health Care Department and Medical Program Department

NAME OF CONTRACT	KINDS OF GOODS	AMOUNT OF CONTRACT	CONTACT PERSON, CONTACT NO., ADDRESS, AND EMAIL ADDRESS

**NOTE: SLCC SHOULD BE PROJECTS WITHOUT NON-DISCLOSURE
AGREEMENT (NDA)**

Formula in the Computation of NFCC

**RENOVATION OF CANTEEN & HEALTH CARE DEPARTMENT AND MEDICAL
PROGRAM DEPARTMENT
Lot 1 – Renovation of Canteen**

NAME OF COMPANY

NFCC = 15 (Current Assets – Current Liabilities) – Value of All Outstanding Works under On-going Contracts including Awarded Contracts yet to be started)

YEAR	CURRENT ASSETS	CURRENT LIABILITIES
TOTAL		

Value of Outstanding Works under On-going Contracts:

CONTRACT DESCRIPTION	TOTAL CONTRACT AMOUNT AT AWARD	PERCENTAGE OF PLANNED AND ACTUAL ACCOMPLISHMENT	ESTIMATED COMPLETION TIME
TOTAL			

Use additional sheet/s, if necessary

FORMULA:

$$15 \quad \left(\frac{\text{Current Assets}}{\text{Current Assets}} - \frac{\text{Current Liabilities}}{\text{Current Liabilities}} \right) - \frac{\text{Total Outstanding Works}}{\text{Total Outstanding Works}} = \frac{\text{NFCC}}{\text{NFCC}}$$

P _____
NFCC

Prepared and Submitted by:

Signature over Printed Name

HL

(Name of Bank)

COMMITTED LINE OF CREDIT CERTIFICATE

Date:

Social Security System (SSS)
SSS Main Building, East Avenue
Diliman, Quezon City

CONTRACT PROJECT :
COMPANY/FIRM :
ADDRESS :
BANK/FINANCING :
INSTITUTION :
ADDRESS :
AMOUNT :

This is to certify that the above Bank/Financing Institution with business address indicated above, commits to provide the (Supplier/Distributor/Manufacturer/Contractor), if awarded the above-mentioned Contract, a credit line in the amount specified above which shall be exclusively used to finance the performance of the above-mentioned contract subject to our terms, conditions and requirements.

The credit line shall be available within fifteen (15) calendar days after receipt by the (Supplier/Distributor/Manufacturer/Contractor) of the Notice of Award and such line of credit shall be maintained until issuance of Certificate of Acceptance by the Social Security System.

This Certification is being issued in favor of said (Supplier/Distributor/Manufacturer/Contractor) in connection with the bidding requirement of (Name of Procuring Entity) for the above-mentioned Contract. We are aware that any false statements issued by us make us liable for perjury.

The committed line of credit cannot be terminated or cancelled without the prior written approval of Social Security System.

Name and Signature of Authorized Financing Institution Office

Office Designation

Concurred by:

Name & Signature of (Supplier/Distributor/Manufacturer/Contractor) Authorized Representative

Official Designation

SUBSCRIBED AND SWORN TO BEFORE ME this day of at Philippines, Affiant exhibited to me his/her competent Evidence of Identity (as defines by the 2004 Rules on Notarial Practice issued on at , Philippines.

NOTARY PUBLIC

Doc No. :
Page No. :
Book No. :
Series of :

(Note: The amount committed should be machine validated in the Certificate itself)

etl

