

## PHILIPPINE BIDDING DOCUMENTS

**Sixth Edition** 

# Procurement of INFRASTRUCTURE PROJECTS

Government of the Republic of the Philippines

RETROFITTING OF SSS DAVAO BUILDING

ITB-SSS-CIVIL No. 2023-017

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## Glossary of Terms, Abbreviations, and Acronyms

**ABC** – Approved Budget for the Contract.

**ARCC** – Allowable Range of Contract Cost.

**BAC** – Bids and Awards Committee.

**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)8920-6401\*(632)8920-6446

E-mail: member relations@sss.gov.ph\*Website http://www.sss.gov.ph

# Invitation to Bid ITB-SSS-Civil-2023-017

#### RETROFITTING OF SSS DAVAO BUILDING

Approved Budget for the Contract (ABC)	Delivery/ Completion	Price of Bid Documents	Schedule of Activities Date/Time	
& Source of Fund	Period	(non- refundable)	Pre-bid Conference	Deadline of submission and receipt of bids
₱ 16,934,717.19	One Hundred Eighty (180) Calendar Days	₱ 12,500.00	October 16, 2023 (Monday) 11:00 a.m.	October 30, 2023 (Monday) 2:00 p.m.
Approved 2023 Corporate Operating Budget – Capital Outlay included in the APP Update for the month of August (12 <sup>th</sup> update) with Code PAP (2023-409) of the Annual Procurement Plan (APP)	from receipt of Notice to Proceed and Signed Contract		11.00 a.m.	2.00 p.m.

- 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 eighty (180) 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 Project. 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 07 October 2023 up to the scheduled submission & receipt of bids from the address stated in the last item 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 (formerly CDPRD Computer 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 13 October 2023, 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 Section 36.5 and 41 of RA 9184 and its IRR, 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 <a href="www.sss.gov.ph">www.sss.gov.ph</a> starting **07 October 2023**.

THE CHAIRPERSON
BIDS & AWARDS COMMITTEE

ref.: itb-sss-civil-2022-017- Retrofitting of SSS Davao Building

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Social Security System* wishes to receive Bids for the Retrofitting of SSS Davao Building, with identification number *ITB-SSS-Civil-2023*-.

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 *CY2023* in the amount of Sixteen Million Nine Hundred Thirty-Four Thousand Seven Hundred Seventeen & 19/100 Pesos (P 16,934,717.19).
- 2.2. The source of funding is: Approved 2023 Corporate Operating Budget Capital Outlay included in the APP Update for the month of August (12th update) with Code PAP (2023-409) of the APP.

#### 3. Bidding Requirements

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

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

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

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

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

#### 5. Eligible Bidders

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

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

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

#### 6. Origin of Associated Goods

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

#### 7. Subcontracts

7.1. The 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 Bldg.**, **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**.

- 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**.
- A List of Contractor's major equipment units, which are owned, leased, and/or 10.5. 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**

- The second bid envelope shall contain the financial documents for the Bid as 11.1. specified in Section IX. Checklist of Technical and Financial Documents.
- Any bid exceeding the ABC indicated in paragraph 1 of the IB shall not be 11.2. accepted.
- 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**

- 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 <u>one hundred twenty (120)</u> calendar days reckoned from the date of the submission and opening of <u>bids</u>. 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	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall involve structural retrofitting of buildings, bridges and similar structures using fiber-reinforced polymer (FRP) system as the primary retrofitting methodology and materials used within Five (5) years prior to the date of submission and receipt of bids.			
7.1	Subcontracting is not allow	wed.		
10.3	PCAB License and Registration  License Category : C & D  Size Range : Small B  Classification : General Building			
	The bidder shall have at least five (5) years of experience in constructural retrofitting works			
10.4 The key personnel must meet the required minimum years of exbelow:				
	Key Personnel Project Manager (Civil Engineer)	General Experience 10 years	Relevant Experience Building construction and/or structural retrofitting	
	Project Engineer (Civil Engineer	5 years	Building construction and/or structural retrofitting	
	Materials Engineer	3 years	DPWH Accredited Materials Engineer I	
	Foreman	5 years	Building construction and/or structural retrofitting	
	Construction Safety and Health Officer  40 hrs. seminar on Health and Safety  Except for the Foreman, all key personnel should be PRC-registered			
engineers / architects in good standing.  10.5 The minimum major equipment requirements are the follo			e the following:	
1 unit – Backhoe1 unit – Bar Bender1 unit – Dump Truck1 unit – Welding Machine1 unit – Plate Compactor1 unit – Jack Hammer1 unit – Concrete Vibrator1 unit – Motorized Fiber Epoxy Machine)1 unit – One Bagger Mixer1 unit – Power Cutter for FRP1 unit – Bar Cutter1 unit – Pressurized Epoxy Injector			mmer ized Fiber Epoxy (Saturated Cutter for FRP zed Epoxy Injector	
	Must be supported by documents like proof of ownership, lease and/or purchase agreements or certification of availability of equipment from the equipment lessor/vendor for the duration of the project.			
12	Alternative bids shall not be accepted.			
15.1	<ul> <li>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</li> <li>a. The amount of not less than ₽ 338,694.34, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of</li> </ul>			
	credit;			

	b. The amount of not less than ₱ 846,735.86, if bid security is in Surety Bond.
19.2	Partial bid is not allowed. The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	The Lowest Calculated Bidder shall submit the following:
	1. Registration certificate from Securities and Exchange Commission (SEC) for corporation, 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 filed electronically (EFPS);
21	No further instruction.

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.
  - 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 <b>SOCIAL SECURITY SYSTEM</b> shall give possession of all parts of the Site to the Contractor for the duration of the contract (180 cd) which shall commence upon receipt of the Notice to Proceed and Contract/Job Order.
6	Not Applicable
7.2	Fifteen (15) years from issuance of Certificate of Final Acceptance by the Branch Support Services Department.
8	Liability of the Contractor
	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.
	The obligation of confidentiality by both parties, as provided herein, shall survive the termination of the Agreement.
	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.
	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.
	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.
	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.

- 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.
- 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.
- 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.
- 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.

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, 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.

- 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.
- 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.

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.

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.

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.

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.

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.

- 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.
- 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, CONTRACTOR agrees to indemnify SSS for any damage as a result of said implementation.

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.

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.

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.

No arbitration in respect of this matter may be commenced unless such notice is given.

Notwithstanding any reference to arbitration herein, the Parties shall continue to perform their respective obligations under this Agreement unless they otherwise agree.

- 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.
- 16. GOVERNING LAW. The Agreement shall be governed by and interpreted according to the laws of the Republic of the Philippines.
- 17. AMENDMENTS. This Agreement may be amended only in writing and executed by the parties or their duly authorized representatives.
- 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.
- 19. BINDING EFFECT. The Agreement shall be binding upon the Parties hereto, their assignee/s and successor/s-in-interest.

Dayworks are applicable at the rate shown in the Contractor's original Bid.

11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <b>five (5) calendar days</b> of delivery of the Notice of Award and conduct of pre-construction meeting.			
11.2	The amount to be withheld for late submission of an updated Program of Work shall be ten percent (10%) of the cost of accomplishment of the progress billing on top of the usual ten percent (10%) retention money.			
13	The amount of the advance payment is 15% of the total contract price to be in lump sum, and to be deducted in a pro-rated basis every Progress Billing			
14	Progress payment shall be made in four (4) billings and upon written request the Contractor, following the matrix below:			
	PROGRESS PAYMENT	BASIS OF PAYMENT		
	1 <sup>st</sup> Billing	20% or more work accomplishments		
	2 <sup>nd</sup> Billing	50% or more work accomplishments		
	3 <sup>rd</sup> Billing	75% or more work accomplishments		
	4 <sup>th</sup> or Final Billing	One Hundred percent (100%) completion of the project and upon issuance of Certificate of Completion as certified by the Procuring Entity's Representative/s		
	t delivered on the site but not completely put in payment.	n place		
	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 withhold ten percent (10%) of the amount of Final Billing for failing to submit "as built" drawings within fourteen (14) calendar days from the completion of the project.			

# Section VI. Specifications



#### PROGRAM OF WORKS

#### A. GENERAL REQUIREMENTS

#### A.1. Scope of Work

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

Retrofitting Works (refer to "Annex A" for details)

- Surface preparation/repair prior to application of FRP and/or enlargement of structural beams/girders and columns.
- 2. Application of FRP system including provision of plastering or topcoat for composite fibers and enlarged beams/girders and columns.
- 3. Restoration of all affected areas, surfaces, finishes, fixtures/equipment, utilities that are affected during retrofitting works.

The General Contractor is required to submit material testing results, detailed methodologies and drawings as required per Technical Specifications.

#### Miscellaneous Works

- Provision/ installation of safety signage, dust barriers, board-ups, floor coverings and other safety requirements for the protection of SSS personnel and clients, properties, Contractor's personnel, etc. at the work site and other affected areas.
- Removal of existing ceiling covers, joists, etc. to provide access during installation works.
- Repair/ restoration of affected ceiling, wall surfaces, floor finishes, fixtures and other affected components of electro-mechanical system, and structured cabling/ datacom.
- Temporary relocation/ transfer of employee workstations and office equipment that will be affected by the retrofitting works.

Provide temporary power and datacom outlets at the relocation space. Return all affected workstations and office equipment to its original location immediately after restoration works were deemed complete and accepted by the Implementing Unit. Ensure that all power and datacom outlets are properly working and/or energized.

#### As-built Plan and Electronic File

- 1. Preparation and submission of three (3) sets as-built plans in 20" x 30" blueprint format duly signed and sealed by the Contractor's Structural Engineer upon checking/review by the Structural Design Consultant of the retrofitting project.
- 2. The Contractor shall likewise submit electronic file copy of as-built plan in CAD format (should be compatible with earlier versions of AutoCAD software).
- b. 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.

#### A.2 Workmanship

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

#### A.3 Site Examination

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 surfaces regardless of measurements made.

#### A.4 Protection of Work and Property

Provide adequate protection on the existing furniture, equipment, and other areas not affected by the work specified. Place warning signs where work is being undertaken. Remove work materials damaged by failure to provide protection. Replace with new work materials at no extra cost to the Owner.

Any damages incurred during the activity shall be restored/ repaired by the Contractor at his own expense and shall be dine in as satisfactory and approved manner.

#### A.5 Submittals

The Contractor shall submit sample finishes and contractor-furnished materials for approval of the SSS Implementing Unit and/or the Structural Design Consultant.

#### A.6 Cleaning

Leave premises clean, neat and orderly. Remove all stains, spots, blemishes, soil dirt from all finished work. Remove all excess materials and supplies, rubbish, trash, construction debris and soil, used containers, and unusable tools/equipment out of the SSS premises during the progress of work and upon completion of work.

#### **B. TECHNICAL SPECIFICATIONS**

#### B.1 Site/ Preparatory Works

Dismantling works shall be done with extra care so that all salvageable and reusable materials are removed with least damage. Turn-over such materials to concerned SSS Building Administrator for safekeeping. Dispose waste materials off-site.

#### B.2 Carpentry Works

Lumber shall be kiln-dried and free from defects such as loose and unsound knots, pitch, pockets, sapwood, cracks and other imperfections impairing its strength, durability and appearance.

Plywood shall be free from defects such as split in veneer, buckling or warping and shall conform to the requirement of the Philippine Trade Standards.

Exposed wood surfaces shall be free from disfiguring defects such as raised grains, stains, uneven planning, sanding, toll marks and scratches. Exposed surfaces shall be machine or hand-sanded to an even, smooth surface and ready for painting or other applicable finishes.

Ceiling shall be repaired or restored using the same materials and finishes as existing. Correct deflections or bends in the ceiling by providing additional vertical supports/hangers and ceiling joists.

#### B.3 Retrofitting Works (refer to Annex A)

#### B.4 Painting Works

#### a. Manufacturer

Use Boysen or Davies paints or its approved equivalent. Application shall be as per manufacturer's instructions. Submit all samples for approval by the EFMD prior to final application. All items of work not specified but necessary to complete the project shall be painted with appropriate paint. Finish work shall be smooth and free from any imperfection.

#### b. Painting Schedule

Proper surface preparation shall be done prior to application of paint. Use appropriate primers. Allow the first coat to dry prior to application of the second coat.

Doors/jambs, baseboards/mouldings and frames (lacquer-based finish)

Apply lacquer putty all through-out plywood surfaces, smoothen thoroughly with sandpaper prior to application of lacquer primer and 2 coats lacquer paint or until desired finish is attained (spray applied).

#### For new plywood/wood surfaces

Apply polituff with hardener on rough and uneven surfaces and joints. Smoothen thoroughly with sandpaper and apply low-odor wood primer. Apply one coat (or 2 coats, if necessary) flatwall enamel on surfaces that will be covered by wallpaper and 2 coats semi-gloss enamel as topcoat for other wood surfaces not covered by wallpaper.

#### For existing masonry wall/ drywall partition/ ceiling

Remove/clean off loose paints using sandpaper, apply polituff with hardener/ masonry putty on rough and uneven surfaces. Smoothen thoroughly with sandpaper prior to application of proper primers. Apply topcoats using: 1 coat flat latex paint for wallpaper finish surfaces, 2 coats semi-gloss latex for wall surfaces, 2 coats flat latex on acoustic ceiling.

#### For window grilles, lighting frames and A/C diffusers

Clean off loose materials such as old paint or anything that can be manually removed by using brush, scrapers, etc. Apply 2 coats of quick dry enamel paint; colors similar to the existing.

The Contractor shall submit sample paint finishes for approval of the SSS Implementing Unit prior to application.

#### B.5 Electrical Works

#### **General Conditions**

- All electrical works shall be done in accordance with the approved plans and specifications;
- 2. All materials and equipment to be used shall be brand new, must be of the approved type and shall conform with the standards of Philippine Electrical Code, Underwriter's Laboratories, Inc. (UL), ASA, IIEE, NEMA, IPCEA and ASTM;
- Sample of materials shall be submitted for approval as required by the Owner's Representative:
- 4. Rough-in layout above ceiling shall be concealed with intermediate metallic conduit (IMC);
- 5. Rough-in layout concealed between walls shall be IMC and/or Polyvinyl Chloride (PVC);
- 6. Rough-in layout embedded in concrete slab or under the floor shall be PVC;
- 7. Outdoor roughing-in layout shall be rigid steel conduit (RSC);
- 8. PVC pipe fittings layout shall be provided with appropriate PVC adapter with locknut and glued with PVC solvent;
- 9. All electrical conduits, fittings, boxes and insulations shall be rigidly secured using appropriate connectors and supports at standard intervals;
- 10. Minimum size of conduit to be used shall be 15mm diameter;
- 11. Minimum size of conduit to be used for long runs exceeding 270° bend shall be 20 mm diameter;
- 12. Color coding mode in wiring receptacle outlets shall be as follows. Any deviation herewith shall be indicated in the as-built plans:

E.	FOR NORMAL POWER	F.	
G.	Line 1	H.	Black
I.	Line 2	J.	Red
K.	Ground	L.	Green
M.	FOR UPS POWER	N.	
0.	Line 1 and 2	P.	White
Q.	Ground	R.	Green

- Adapt existing color coding or mode of labelling for receptacle outlet device plate covers to identify UPS from normal power source;
- 14. Provide labelling/ marking on panel board directory prior to turnover to the Owner;
- 15. Newly installed conduits and boxes/pullboxes shall be painted with applicable finishes as protection against deterioration;
- 16. All works shall be properly coordinated with the Project Engineer or authorized representative of the Implementing Unit;

- 17. Testing, commissioning and proper documentations shall be made prior to turn-over of the completed project;
- 18. All areas affected by the installation works, chipping, dismantling, relocation and other related activities shall be repaired or restored to its original condition at the sole expense of the Contractor:
- 19. The plans are diagrammatic and do not necessarily show all fittings, etc. the locations of equipment/apparatus and appliances shown on them are approximate. The Contractor shall be responsible for the proper location in order to make them fit with the electrical details/plans and on-site instructions.
- 20. All dismantled devices and materials shall be properly accounted and turned-over to the Engineering and Facilities Maintenance Department (EFMD) for proper disposition.

#### **Products and Execution**

- All wiring materials shall conform to the Philippine National Standard, IIEE 04/PNS 662:1992. The standard specifies the allowable capacities of insulated conductors rated 0-35,500 volts for different temperatures, insulation materials and conditions.
- All wires and cable shall comply with the requirements of the PNS, Underwriters Laboratories, ASTM and the IPCEA as they apply to the particular usage.
- All wire and cable shall be plastic insulated for 600 volt working pressure, type THW or THWN unless otherwise noted on plans or specified below.
- 4. All wires 3.5 mm<sup>2</sup> and larger shall be stranded.
- 5. All wires shall be of recent manufacturing and in no case shall be more than six month old. Any conductor whose insulation shows signs of deterioration within one (1) year from final acceptance of the work shall be replaced by the Contractor.
- 6. All wires shall be continuous from outlet to outlet and there shall be no splice except in outlet or junctions and pull/terminal boxes.
- Wiring shall only be permitted if conduit installation has been completed and approved by the Owner or its representative. Permission to wire shall be given by the Engineer or Architect in writing.

#### B.6 Mechanical Works

All materials, machineries, and equipment shall be of the required quality used in good commercial and trade practice and shall be essentially the standard products if reputable manufacturers. The acceptability of these items including their workmanship and method of installation shall be established by the following:

- a. The Philippine Mechanical Engineering Code
- b. The Philippine Electrical Code
- c. Fire Code of the Philippines
- d. Building Code of the Philippines
- e. American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE)
- f. American Society of Mechanical Engineer (ASME)
- g. National Fire Protection Associations (NFPA)
- h. Air Moving and Conditioning Association (AMCA)

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 being enforced.

Note: Aforementioned specifications for electrical and mechanical works are general in nature. However, the Contractor shall adhere to the herein stated specifications when applicable, specifically in the repairs/restoration of affected components of existing electrical and mechanical system. Likewise, specific electro-mechanical and datacom matters shall be referred to the SSS Implementing Unit for evaluation and/or approval.

# SECTION 02100 PREPARATION OF SITE

#### PART 1 - GENERAL

#### 1.1 SCOPE OF WORK

The Work includes furnishing all labor, materials, tools and equipment required for the preparation of the Site prior to construction.

#### 1.2 SUBMITTALS

A. Detailed working drawings.

#### 1.3 PROTECTION

The Contractor shall exercise the greatest care in protecting existing structures and piping while proceeding with work under this Section. All repairs required because of damage from the Contractor's operations shall be at the expense of the Contractor and no claims for additional payment will be accepted.

#### **PART 2 - PRODUCTS**

Not Used

#### **PART 3 - EXECUTION**

#### 3.1 CLEARING, GRUBBING AND STRIPPING

- A. Except as otherwise directed, cut, grub, remove and dispose of all trees, stumps, brush, shrubs, roots, paving and any other objectionable material within the construction limits shown on the Drawings. All stumps, brush and roots shall be grubbed and removed from the site.
- B. Protect the area beyond the limits of grading shown on the Drawings and any trees designated by the Engineer from damage by any construction operation by erecting suitable barriers or other approved means.
- C. Strip topsoil from all areas to be occupied by buildings, trenches, roadways, the sludge lagoons, and all other areas to be excavated or filled. Avoid mixing topsoil with subsoil and stockpile it in areas on the site as approved by the Engineer. Topsoil shall be stockpiled free from brush, trash, large stones and other extraneous material. Any topsoil remaining, after all work is in place, shall be disposed of by the Contractor as directed by the Engineer.

\*\* END OF SECTION \*\*

**SECTION 02200** 

# EXCAVATION, BACKFILL, FILL, GRADING AND SLOPE PROTECTION

#### PART 1 - GENERAL

#### 1.1 SCOPE OF WORK

The Work includes furnishing all labor, materials, equipment and incidentals necessary to perform all excavation, backfilling, filling, grading, and slope protection as shown on the Drawings.

#### 1.2 RELATED SECTIONS

Other Sections of the Specifications shall also apply to the extent required for proper performance of this Work.

Section 33001 Site Preparation

Section 33003 Yard Piping

Section 33004 Roadways and Paving

Section 33006 Loaming and Seeding

Section 33007 Waste Water Disposal System

#### 1.3 SPECIFICATIONS AND STANDARDS

Except as otherwise indicated, the current editions of the following Standards apply to the WORK of this Section:

ASTM D698 Laboratory Compaction Characteristics of Soil Using

**Standard Effort** 

ASTM D1556 Density of Soil in Place by the Sand Cone Method

ASTM D1557 Laboratory Compaction Characteristics of Soil Using

**Modified Effort** 

ASTM D2487 Classification of Soils for Engineering Purposes (Unified

Soil Classification System)

#### 1.4 SUBMITTALS

- A. Proposed methods of construction including dewatering, excavation, sheeting, bracing, filling, compaction and backfilling for the various portions of the project.
- B. Samples as required by the applicable Reference Standards and under Part 2 PRODUCTS of this Specification.

#### 1.5 QUALITY ASSURANCE

The Contractor is responsible for the performance of all tests and inspection required by this Standard Specification. However, the owner reserves the right to perform any or all prescribed tests and inspection where such is deemed necessary to ensure that materials conform to the specifications, and to be paid for by the Contractor.

#### 1.6 PROTECTION

#### A. Sheeting and Bracing – General

- 1. The Contractor shall furnish, put in place and maintain such sheeting and bracing as may be required to support the sides of excavations, to prevent any movement which could in any way diminish the width of the excavation below that necessary for proper construction, and to protect adjacent structures from undermining or other damage. If, in the opinion of the Engineer, sufficient or proper supports have not been provided, additional supports shall be put in at the expense of the Contractor. The Contractor is responsible for the sufficiency of such supports. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled with compacted granular fill and rammed.
- 2. The Contractor shall leave in place all sheeting and bracing which the Engineer may direct him in writing to leave in place at any time during the progress of the Work for the purpose of preventing injury to structures, utilities or property, whether public or private.
- 3. All sheeting and bracing not left in place shall be carefully removed in such a manner as not to endanger the construction of other structures, utilities or property. All voids left or caused by withdrawal of sheeting shall be immediately refilled with compacted granular material by ramming with tools especially adapted to that purpose, or by other means as approved.
- 4. The right of the Engineer to order sheeting and bracing left in place shall not be construed as creating any obligation on his part to issue such orders, and his failure to exercise his right to do so shall not relieve the Contractor from liability to damages to persons or property occurring from or upon the work occasioned by negligence or otherwise, growing out of a failure on the part of the Contractor to leave in place sufficient sheeting and bracing to prevent any caving or moving of the ground.
- 5. No wood sheeting shall be withdrawn if driven below mid-diameter of any pipe, and under no circumstances shall any wood sheeting be cut off at a level lower than one foot above top of any pipe.

#### B. Pumping and Drainage

1. The Contractor shall at all times during construction, provide and maintain proper equipment and facilities to remove all water entering excavations. Excavations shall be kept dry so as to obtain a satisfactory undisturbed subgrade foundation until the fills or structures to be built thereon have been

- completed to such extent that they will not be floated or damaged by allowing water levels to return to natural levels.
- 2. Dewatering shall at all times be conducted in such a manner as to preserve the undisturbed bearing capacity of the sub-grade soils at proposed bottom of excavation.
- 3. The Contractor shall maintain the water level below the bottom of excavation in the various work areas continuously. The Contractor's proposed method of dewatering, if required, shall be approved by the Engineer.
- 4. Water entering the excavation from surface runoff shall be collected in shallow ditches around the perimeter of the excavation, drained to sumps, and be pumped or drained by gravity from the excavation to maintain a bottom free from standing water.
- 5. The Contractor shall take all additional precautions to prevent uplift of any structure during construction. All such arrangements shall be subject to the approval of the Engineer.
- 6. Drainage shall be disposed of in an approved area only so that flow or seepage back into the excavated area will be prevented.
- 7. Floatation shall be prevented by the Contractor by maintaining a positive and continuous removal of water. The Contractor shall be fully responsible and liable for all damages that may result from failure to adequately keep excavations dewatered.
- 8. Removal of dewatering equipment, if required, shall be accomplished after the system is no longer required; the material and equipment constituting the system shall be removed by the Contractor.

#### **PART 2 - PRODUCTS**

#### 2.1 MATERIALS

#### A. General

- 1. Excess materials which have been excavated and stockpiled in selected areas on the site which meet the Specifications shall be used as much as possible for fills.
- 2. For both materials obtained on site and for materials obtained off-site, the Contractor shall notify the Engineer of the source of the material and shall furnish the Engineer for approval, a representative sample weighing approximately 25 kilograms, at least ten calendar days prior to the date of anticipated use of such material. Samples shall be resubmitted as required until approval is obtained.

#### B. Fill

1. Common Fill

Common fill may be obtained from on-site excavated material if approved by the Engineer or from off-site sources. Common fill shall consist of mineral soil, substantially free of clay, organic material, loam, wood, trash, and other objectionable material which cannot be compacted properly.

Common fill shall not contain broken concrete, masonry, rubble, asphalt pavement, or other similar materials. It shall have physical properties such that it can be readily spread and compacted during filling.

Common fill shall not contain stones larger than 250mm in any dimension, nor stones larger than 150mm in the upper 0.50 meter of fill. Not more than 30% shall pass a No. 200 sieve. The liquid limit of the fraction passing a No. 40 sieve shall not exceed 50%.

#### 2. Structural Fill

Structural fill shall be furnished and placed as required to replace materials encountered and found unsuitable below foundation elevation of structures; or when foundation elevation is set above existing grade as shown on the plans or directed by the Engineer in writing. Structural fill shall be used below all structures that have under drains as shown on the Drawings.

Structural fill shall consist of suitably graded clean sands or gravel-sand mixtures belonging to Group Symbol SW or GW of the Unified Soil Classification, ASTM D2487. Particles shall be sound and not more than 15% shall pass the No. 200 sieve, nor more than 50%, the No. 40 sieve.

The composite material shall be non-plastic and free from organic matter, clay lumps, or other deleterious materials.

### 3. Granular Fill

Granular fill material shall consist of hard, durable, free draining sand and gravel or hard stone; shall be free from organic matter or other deleterious substances and shall be reasonably well-graded within the following limits:

Size	Percent by Weight Passing
75mm (3 in.)	100
0.60mm (No. 30)	0-20
0.15mm (No.100)	0-5

### 4. Screened Gravel

Screened gravel shall consist of hard, durable, rounded or sub-angular particles of proper size and gradation, and shall be free from sand, loam, clay, excess fines, and deleterious materials. Screened gravel shall be graded within the following limits:

Sieve Size	Percent by Weight Passing
	, , ,

16mm (5/8 in.)	100
13mm (1/2 in.)	40-100
10mm (3/8 in.)	15-45
2.0mm (No. 10)	0-5

#### **PART 3 - EXECUTION**

#### 3.1 STRIPPING AND GRUBBING

Before any fills are placed or any paving or construction started, the area of all such work shall be stripped and grubbed of all top organic materials to a minimum depth of 150mm. Any weak, loose, soft, spongy, or otherwise unsuitable materials shall be removed from the site, and may be deposited in a spoil area, as directed by the Engineer, but shall not be used in any on-site fills.

#### 3.2 **EXCAVATION**

Excavation shall include, without classification, the removal of all materials of whatever nature encountered, including all obstructions of any nature that would interfere with the proper execution and completion of the Work. The removal of said materials shall conform to the lines and grades shown on the Drawings.

The Contractor shall furnish, place, and maintain all supports and shoring that may be required for the sides of the excavations, and all pumping, ditching, or other approved measures for the removal or exclusion of water, including taking care of storm water reaching the site of the Work from any source so as to prevent damage to the Work or adjoining property.

Excavations shall be sloped or otherwise supported in a safe manner in accordance with the latest applicable safety requirements of the Department of Public Works and Highways and as approved by the Engineer.

#### A. Excavation below Grade

- 1. If the bottom of any excavation is taken out below the limits specified on the Drawings, or directed by the Engineer, it shall be refilled at the Contractor's expense with concrete, compacted structural fill, or other material satisfactory to the Engineer.
- 2. Compacted structural fill, when used for refill, shall be placed in not greater than 150mm layers.

### B. Structure Excavation

1. Excavation for structures to be founded on base slabs and footings are intended to be carried to undisturbed natural soil of suitable approved bearing capacity. If, upon uncovering and in the opinion of the Engineer, the material at or below the normal grade of excavation as indicated on the Drawings, is unsuitable for the support of structures, such material shall be over excavated and replaced with compacted structural fill. The Contractor will be paid based on unit price established in the Schedule of Bid Prices.

- Excavation, including removal of rock and boulders, shall be made to such lines and grades as will give suitable room for buildings and structures, for bracing and supporting, pumping and draining, and to the limits indicated on the Drawings. The bottom of the excavations shall be rendered firm and dry and in all respects acceptable to the Engineer.
- 3. Excavation and dewatering shall be accomplished by methods which preserve the undisturbed state of subgrade soils. Subgrade soils which become soft, loose, "quick", or otherwise unsatisfactory for support of structures as a result of inadequate excavation, dewatering or other construction methods, shall be removed and replaced by compacted structural fill at the Contractor's expense.
- 4. Dewatering shall be such as to prevent boiling or detrimental under seepage at the base of the excavation. The Contractor shall install such means as required to preserve the stability of the base of the excavation.
- 5. Excavating equipment shall be satisfactory for carrying out the work in accordance with the Specifications.
- 6. When excavation for foundations has reached prescribed depths, the Engineer shall be notified and he will inspect conditions. If materials and conditions are not satisfactory to the Engineer, the Engineer will issue instructions as to the procedures, and if additional costs are involved, adjustments of the Contract will be made on the basis of unit prices agreed upon by the Engineer and the Contractor in accordance with the provisions of the Contract Documents.

### C. Miscellaneous Excavation

The Contractor shall perform all the remaining miscellaneous excavation. He shall make all excavations necessary to permit the placing of loam and plants, for constructing roadways, and any other miscellaneous earth excavation.

#### 3.3 FILL AND COMPACTION

#### A. General

- 1. Fills shall be placed as shown on the Drawings or as directed by the Engineer. Where embankments are to be placed and compacted on hillsides, or to be placed against existing embankment, or to be built one half at a time, the slopes of original hillsides, existing embankments, or new fill shall be cut into or benched in order to accommodate each layer of new work a horizontal distance of not less than 1.5 meters. Materials thus removed shall be spread and compacted with the new materials.
- 2. Compaction shall be performed as specified hereinafter for the particular materials and operations:

- a) A pass shall be one complete coverage of the area to be compacted by the rear wheel tire treads or tractor treads in contact with the flat earth surface.
- b) Areas adjacent to structures and other areas inaccessible to a roller or truck shall be compacted with approved mechanical compaction equipment. Compaction of the fill by such means shall be to the same degree of compaction as obtained by other approved equipment. The Engineer may make the necessary tests to determine the amount of compactive effort necessary to obtain equal compaction. The fill compacted by mechanical compactors shall be placed in 150mm layers and thoroughly tamped over the entire surface. Compaction equipment is subject to approval by the Engineer.
- 3. The surface of filled areas shall be graded to smooth true lines, strictly conforming to grades indicated, and no soft spots or uncompacted areas will be allowed in the Work.
- 4. Temporary bracing shall be provided as required during filling and backfilling of all structures to protect partially completed structures against all construction equipment loads, hydraulic pressures, and earth pressures.

#### B. Placing Structural Fill

- After all unsuitable materials have been stripped and removed, the area to be filled shall be compacted by rolling using pneumatic tire rollers or tandem rollers of capacity approved by the Engineer. Moisture content of the material in situ should be dry to the optimum. The Engineer shall conduct density test on the compacted base. At least 95% of modified proctor maximum density (ASTM D1557, Method C) must be attained.
- 2. Fill shall be spread by graders or bulldozers and compacted in layers not thicker than 150mm.
- 3. Compacted structural fill shall be placed and compacted as specified laterally to the limits defined by a 1 on 1 line sloped outward and downward from a point at least 0.7 meters outside the bottom edge of all footings.
- 4. Water shall be added by means of sprinklers to each layer in amounts that will bring the fill material to its optimum density. Compaction will not be permitted on completely dry materials.
- 5. A minimum of two coverage is required for each layer. The Engineer may, during the progress of the work, conduct tests as to the degree of compaction of the fill and may require additional passes when density of the fill has not reached 95% of modified proctor dry density (ASTM D1557, Method C).
- 6. In areas inaccessible to the large rollers, hand-held tampers shall be used in which case, maximum layer heights shall be 0.15 meter when compacted or as required to achieve 95% of modified proctor dry density.

#### C. Backfilling – Common Fill

- Common fill may be used as backfill against the exterior walls of structures or in other areas as designated by the Engineer. Common fill materials shall be placed in layers having maximum thickness of 300mm measured before compaction. Moisture content of the material at the start of compaction shall be at or near optimum.
- 2. Common fill shall be compacted to at least ninety per cent of maximum density as determined by ASTM D698.
- 3. Materials placed in fill areas shall be deposited to the lines and grades shown on the Drawings, making due allowance for settlement of the material and for the placing of loam thereon.
- 4. The surfaces of filled areas shall be graded to smooth true lines, strictly conforming to grades indicated on the grading plan. No soft spots or uncompacted areas will be allowed in the Work.
- 5. No compaction shall be done when the material is too wet either from rain or from excess application of water.

#### 3.4 GRADING

- A. Grading in preparation for placing of loam, planting areas, paved walks and roadways, and appurtenances shall be performed at all places that are indicated, to the lines, grades, and elevations shown on the Drawings or as directed by the Engineer. All material encountered of whatever nature within the limits indicated, shall be removed and disposed of. During the process of grading, the sub-grade shall be maintained in such condition that it will be well drained at all times. When directed, temporary drains and drainage ditches shall be installed to intercept or divert surface water that may affect the condition of the Work.
- B. If at the time of grading, it is not possible to place any material in its proper section of the permanent structure, it shall be stockpiled in approved areas for later use. No extra payment will be made for the stockpiling or double handling of excavated material.
- C. The right is reserved to make minor adjustments or revisions in lines or grades, if found necessary as the work progresses, due to discrepancies on the Drawings or in order to obtain satisfactory construction.
- D. Stones or rock fragments larger than 100mm in their greatest dimensions will not be permitted in the top 150mm of the finished sub-grade of all fills or embankments.
- E. In cuts, all loose or protruding rocks on the back slopes shall be barred loose or otherwise removed to line or finished grade of slope. All cut and fill slopes shall be uniformly dressed to the slope, cross section, and alignment shown on the Drawings, or as directed by the Engineer.

#### 3.5 DISPOSAL OF UNSUITABLE/SURPLUS MATERIALS AND ROCKS

A. Unsuitable excavated materials shall be removed from the immediate site of work and disposed of by the Contractor on the Owner's land as directed by the Engineer.

- B. Suitable excavated material may be used for fill or backfill, if it meets the specifications for common fill. Excavated material so approved may be neatly stockpiled at the site where designated by the Engineer provided there is an area available that will not inconvenience traffic or adjoining property owners. If space limitations do not permit stockpiling on the site, the Contractor will be required to make arrangements for off-site stockpiling. Transport of such material from and to the immediate site, including any stockpiling agreements, shall be entirely at the Contractor's expense and shall not constitute grounds for additional payment.
- C. Surplus excavated material shall be used to fill depressions or other purposes as the Engineer may direct.
- D. The Contractor shall remove and dispose of all pieces of rock which are not suitable for use in other parts of the Work. Rock disposed of by hauling away to spoil areas is to be replaced by approved surplus excavation obtained elsewhere on the Work, insofar as it is available. Any deficiency in the backfill material shall be made up with acceptable material approved by the Engineer.
- E. Fragments of ledge and boulders smaller than 25kgs.weight may be used in backfilling trenches and other deep fills. If, in the opinion of the Engineer, the quantity is excessive, he may order the removal and disposal of some of this rock. The small pieces of rock used as backfill shall not be placed in trenches until the pipe has at least 0.7 meters of earth over it. The Contractor shall place these pieces of stone in thin layers, alternating them with earth to be sure that all voids between the stones are completely filled with earth to prevent the occurrence of voids and settlement which will result there from.
- F. Rock may be used for fill only with the approval of the Engineer.

#### 3.6 COMPACTION/FIELD DENSITY TESTS

Field density tests shall be performed in accordance with the test procedure specified in ASTM D1556.

The location and frequency of field tests shall be at the discretion of the Engineer. Necessary tests shall be performed by the Engineer for acceptance of a compacted layer before attempting to place new fill material. Any layer or portion thereof that does not meet minimum compaction requirements shall be reworked and recompacted until it meets the specified density requirements as determined by the Engineer.

\*\* END OF SECTION \*\*

## SECTION 03150 CONSTRUCTION JOINTS

#### PART 1 – GENERAL

#### 1.1 SCOPE OF WORK

The Work includes furnishing all materials, labor, equipment and incidentals required to make all concrete joints tight as detailed on the Drawings.

#### 1.2 RELATED SECTIONS

Other Sections of the Specifications shall also apply to the extent required for proper performance of this Work.

Section 33009 Concrete Reinforcement

Section 33010 Concrete Finishes

#### 1.3 SPECIFICATIONS AND STANDARDS

Except as otherwise indicated, the current editions of the following Standards apply to the WORK of this Section:

ASTM D412 Vulcanized Rubber and Thermoplastic Rubbers and

Thermoplastic Elastomers - Tension

ASTM D746 Brittleness Temperature of Plastics and Elastomers by

**Impact** 

ASTM D1752 Preformed Sponge Rubber and Cork Expansion Joint

Fillers for Concrete Paving and Structural Construction

ASTM D2240 Rubber Property – Durometer Hardness

### 1.4 SUBMITTALS

A. Detailed working drawings.

B. Samples/test reports/certificates as required by the applicable Reference Standards.

#### 1.5 QUALITY ASSURANCE

The Contractor is responsible for the performance of all tests and inspection required by this Standard Specification. However, the owner reserves the right to perform any or all prescribed tests and inspection where such is deemed necessary to ensure that delivered materials conform to the specifications, and to be paid for by the Contractor. The Contractor shall furnish the owner certified copies of records showing that each material has been pre-tested, and complied with all applicable requirements of this Standard. The Contractor shall, at his own expense, replace all rejected materials for failure to comply with this Specification.

#### **PART 2 - EXECUTION**

#### 2.1 INSTALLATION

- Construction joints shall be provided as indicated on the Drawings. Unless otherwise indicated on the Drawings, bonding will be required at all horizontal joints in walls. Surfaces shall be prepared in accordance with Section 33010.
- Construction joints will be permitted at locations other than those indicated on the Drawings provided, a written permission from the Engineer is obtained.
- The surfaces of the groove for the rubber sealant shall not be coated with curing compound.
- Where indicated on the Drawings, joint sealant shall be placed in all joints to the depth shown. Cleaning of the grooves, priming, handling and application of the materials, including bond breaker, shall be as recommended by the manufacturer.
- Waterstops for all joints shall be continuous around the corners and intersections, either in horizontal or vertical direction, as indicated on the Drawings. Field splices and joints shall be made in accordance with the waterstop manufacturer's instructions, using a thermostatically controlled heating iron.
- Holes for steel tying wires shall be drilled in the waterstops as recommended by the manufacturer.
- Steel tying wire shall be as specified in Section 33009, Concrete Reinforcement.
- A sufficient number of wire ties shall be installed to ensure that the waterstops remain in their original position during the placement of concrete.

\*\* END OF SECTION \*\*

## SECTION 03200 CONCRETE REINFORCEMENT

#### PART 1 – GENERAL

#### 1.1 SCOPE OF WORK

The WORK includes fabrication and installation of all steel bars and steel tie wire, clips, supports, chairs, and spacers required for the reinforcement of concrete as shown on the Drawings.

#### 1.2 RELATED SECTIONS

Not Used

#### 1.3 SPECIFICATIONS AND STANDARDS

Except as otherwise indicated, the current editions of the following Standards apply to the WORK of this Section:

ASTM A82 Steel Wire, Plain, for Concrete Reinforcement

ASTM A615 Deformed and Plain Billet – Steel Bars for Concrete

Reinforcement

PNS 49 Philippine National Standard – Steel Bars for Concrete

Reinforcement

#### 1.4 SUBMITTALS

- A. Detailed working drawings and bending schedules of all reinforcement.
- B. Samples and test certificates as required by the applicable Reference Standards.

### 1.5 QUALITY ASSURANCE

The Contractor is responsible for the performance of all tests and inspection required by this Standard Specification. However, the owner reserves the right to perform any or all prescribed tests and inspection where such is deemed necessary to ensure that delivered materials conform to the specifications, and shall be paid for by the Contractor. The Contractor shall furnish the owner certified copies of records showing that each material has been pre-tested, and complied with all applicable requirements of this Standard. The Contractor shall, at his own expense, replace all rejected materials for failure to comply with this Specification.

#### **PART 2 – PRODUCTS**

#### 2.1 MATERIALS

Reinforcement steel shall be deformed, new billet steel bars conforming to ASTM A615, Grade 60 and 40, substantially free from mill scale, rust dirt, grease or other foreign matter.

Chemical Composition: The percentages of carbon, manganese, phosphorus, sulfur and silicon on finished bars shall conform to the specified values in PNS 49 as shown in Table 2.

Rail – steel bars will not be permitted in the Work.

Table 2 – Chemical Requirements

	Chemical Composition, Pecent Maximum	
Element	Hot-Rolled Non-weldable Deformed Steel Bar	Hot-Rolled Weldable Deformed or Plain Steel Bar
Carbon	-	0.38
Manganese	-	1.26
Phosphorus	0.0625	0.058
Sulfur	0.0625	0.058
Silicon	-	-

Reinforcement steel shall bear a mill identification symbol, shall be tagged with the size and mark number so that different types may be identified, and shall be stored off the ground to protect the steel from moisture and dirt until placed in final position.

Steel wire for tying reinforcing bars and waterstops shall conform to ASTM A82.

The following reinforcing steel bar sizes shall be used for all reinforced concrete design under this Contract.

	Approximate	
Bar Designation	Approximate Cross Sectional Area (mm²)	Unit Weight
	Sectionar / trea (mm )	(kg/m)
#10	78	0.616
#12	113	0.888
#16	201	1.579
#20	314	2.466
#25	492	3.854
#28	615	4.833
#32	804	6.313
#36	1018	7.991

Should the Contractor wish to use reinforcing steel bars having areas different from those shown (with consequent different designations), the following requirements shall apply:

• If the proposed substitute bar has an area from 97% to 105% of the designated bar, a direct substitution may be made without changes to bar spacing.

- If the proposed substitute bar has an area less than 97% of the designated bar, substitution may be allowed provided bar spacing is reduced to not less than the minimum clear distance between bars.
- If the proposed substitute bar has an area more than 105% of the designated bar, changes in spacing is limited to a maximum spacing of 300mm. All proposed changes shall be submitted to the Engineer for approval.
- Changes shall be implemented upon approval by the Engineer of the reinforcing arrangement Drawings, required as shop drawings, which shall be finalized upon issuance by the Engineer of the guidelines on related criteria, as maximum and minimum spacing and bond strength.
- Approval by the Engineer of bar size substitutions does not relieve the Contractor of other specified requirements, including steel grade and bar deformations.

#### **PART 3 - EXECUTION**

#### 3.1 **FABRICATION OF REINFORCEMENT**

Reinforcement steel shall be accurately fabricated to the dimensions shown on the shop drawings and bar schedules.

All reinforcing bars shall be bent cold around a pin with a free revolving collar having a diameter of the bar of not less than the following:

- Two times for stirrups
- Six times for bars up to and including 25mm diameter
- Eight times for bars over 25mm diameter

Reinforcement steel shall not be straightened nor rebent. Bars with kinks or bends not shown on the Drawings will not be accepted.

#### 3.2 INSTALLATION OF REINFORCEMENT

All reinforcing bars shall be accurately placed as shown on the Drawings, and in accordance with the shop drawings and bar schedules. The reinforcing bars shall be secured against displacement with annealed iron wire ties of minimum 1.0mm diameter or suitable clips at the intersections.

Except as otherwise indicated on the Drawings reinforcement steel shall be installed with a clearance for concrete cover as follows:

Concrete placed directly on earth	75 mm
<ul> <li>Formed surfaces in contact with the soil, water or exposed to the weather</li> </ul>	75 mm
Concrete cover of main reinforcement steel for columns and beams	40 mm

No reinforcing bars shall be welded.

All reinforcing bars in slabs shall be supported on concrete cubes or chairs of the correct height, containing soft steel wires embedded therein for fastening to the reinforcement steel. Such spacers or chairs shall have a minimum compressive strength of 24 MPa.

Reinforcing bars for vertical surfaces in beams, columns and walls shall be properly and firmly positioned from the forms by means of stainless steel (tipped) bolsters or other equal methods approved by the Engineer.

Reinforcement steel projecting from structures that are to be concreted or where concrete has already been poured shall not be bent out of its correct position.

\*\* END OF SECTION \*\*

### SECTION 03300 CONCRETE

#### PART 1 - GENERAL

#### 1.1 SCOPE OF WORK

The WORK includes furnishing all labor, materials, equipment and incidentals necessary for the construction of all concrete work.

#### 1.2 RELATED SECTIONS

Other Sections of the Specifications shall also apply to the extent required for proper performance of this Work.

Section 33009 Concrete Reinforcement

Section 33010 Concrete Finishes

Section 33011 Construction Joints

#### 1.3 SPECIFICATIONS AND STANDARDS

Except as otherwise indicated, the current editions of the following Standards apply to the WORK of this Section:

ASTM C31 Making and Curing Concrete Test Specimens in the Field

ASTM C33 Concrete Aggregates

ASTM C39 Compressive Strength of Cylindrical Concrete Specimens

ASTM C42 Obtaining and Testing Drilled Cores and Sawed Beams

ASTM C94 Ready-mixed Concrete

ASTM C143 Slump of Hydraulic-Cement Concrete

ASTM C150 Portland Cement

ASTM C347 Recommended Practice for Concrete Formwork, US

Corps of Engineers CRD C-572

ASTM C494 Chemical Admixtures for Concrete

ASTM C805 Rebound Number of Hardened Concrete

#### 1.4 SUBMITTALS

A. Samples as required by the applicable Reference Standards and in accordance with Part 3 – EXECUTION of this Specification.

#### 1.5 QUALITY ASSURANCE

The Contractor is responsible for the performance of all tests and inspection required by this Standard Specification. However, the owner reserves the right to perform any or all prescribed tests and inspection where such is deemed necessary to ensure that delivered materials conform to the specifications, and shall be paid for by the Contractor. The Contractor shall furnish the owner certified copies of records showing that each material has been pre-tested, and complied with all applicable requirements of this Standard. The Contractor shall, at his own expense, replace all rejected materials for failure to comply with this Specification.

#### **PART 2 - PRODUCTS**

#### 2.1 MATERIALS

A. Cement: Cement shall be Portland Cement conforming to ASTM C150, Type II, as follows:

Table 1- Physical Requirements of Cement

Test	Requirement
Compressive Strength for ages indicated, min.	10.011
,	12.0 MPa
3 days	19.0 MPa
7 days	
Time Setting by Vicat Method	
Initial Set, minimum	45 minutes
Final Set, maximum	375 minutes
Fineness, by turbidimeter test, minimum	160 m²/kg

#### B. Aggregates

1. Fine Aggregate: Fine aggregate shall be washed inert natural sand conforming to ASTM C33, and shall range in size from coarse to fine within the following limits of US Standard sieve sizes:

Table 2- Grading Requirements for Fine Aggregates

	66 6
Sieve Designation	Percent (%) Passing
9.5 mm (3/8)	100
4.75 mm (No. 4)	95-100
2.36 mm (No. 8)	80-100
1.18 mm (No. 16)	50-85
0.60 mm (No. 30)	25-60
0.300 mm (No. 50)	5-30
0.150 mm (No. 100)	0-10
0.075 mm (No. 200)	0-3

2. Coarse Aggregate: Coarse aggregate shall be well graded crushed stone or washed gravel conforming to ASTM C33, size No. 67 as follows:

Table 3 – Grading Requirements for Coarse Aggregates

Sieve Designation	Weight Percent (%) Passing
25 mm (1")	100
19.0 mm (3/4)	90-100
9.5 mm (3/8)	20-55
4.75 mm (No. 4)	0-10
2.36 mm (No. 8)	0-5
0.075 mm (No. 200)	0-1

3. Water: Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product.

#### 4. Admixtures

- Admixtures conforming to ASTM C494 may be used upon approval of the Engineer in writing, to control the time setting, to effect water reduction and to increase workability. Proportioning and mixing shall be as recommended by the manufacturer.
- The admixture may be a hydroxylated carboxylic acid type or a hydroxylated polymer type, but shall contain no calcium chloride. The use of an admixture shall not change the required quantities of cement specified under Table 4 of this Section.
- The total air entrained measured at the discharge from the truck shall be 3.0 per cent maximum for finished slabs and 3.5 to 5.0 per cent for all other concrete.

#### 2.2 QUALITY OF CONCRETE

- A. Before placing any concrete, the Contractor shall discuss with the Engineer the source of materials and concrete he proposes to use. Samples of aggregate and cement shall be furnished to the Engineer for testing.
- B. The Contractor shall submit to the Engineer, his proposed design mix for evaluation.

C. Compressive strength, water-cement ratio and cement factor specified in Table 4 shall apply for regular and pumped concrete:

Table 4 – Concrete Quality Requirements

	Requirements	
Test	Concrete Fill	All Structural Concrete
Minimum Compressive Strength at 28 days (Mpa)	17.0	21.0 – 42.0
Maximum Net Water Content (liters/100kg cement)	62.0	53.0
Minimum Cement Content (kg/m³)	260	330
Total Air Content (%)	3.5 – 5.0	3.5 – 5.0
Concrete Temp., Max. ( °C)	32	32

D. Consistency of the concrete as measured in accordance with ASTM C143 shall be as shown in Table 5.

No excessively wet concrete will be permitted. Concrete delivered to the site having a slump more than that specified herein will be rejected.

Table 5 – Concrete Consistency

Type of Structure	Slump (mm)	
	Recommended	Range
Pavement and Slabs on Ground	50	25 – 75
Plain footings, gravity walls, slabs and beams	50 – 75	25 – 100
Heavy reinforced foundation walls and footings	75 – 100	50 – 125
Thin reinforced walls and columns	100	75 – 125

### 2.3 FORMS

- A. Forms shall be made of either steel or new lumber approved by the Engineer and shall be free from roughness and imperfections, substantially watertight, adequately braced and tied to prevent movement when concrete is placed and vibrated. No wooden spreaders will be allowed in the concrete. Forms shall be thoroughly cleaned before using and shall be treated with non-staining oil or other approved material and allowed to dry before placement of the reinforcing steel.
- B. Form ties in concrete exposed to view shall be the cone-washer type. Throughbolts or common wire shall not be used for form ties.
- C. Molding or bevels shall be built into the forms to produce a 20-mm chamfer on all exposed projecting corners.

D. Forms for walls shall have removable panels at the bottom for cleaning, inspection and scrubbing-in of bonding paste.

#### **PART 3 - EXECUTION**

#### 3.1 MIXING CONCRETE

- A. Ready-mixed or transit-mixed concrete shall conform to ASTM C94. The concrete supplier shall furnish to the Engineer for his approval, the dry proportions to be used, with evidence that these will produce concrete of the quality specified.
- B. Ready-mixed or transit-mixed concrete shall be transported to the site in watertight agitator or mixer trucks. Discharge at the site shall be within one (1) hour after the cement was first introduced into the mix. Retempering (i.e. mixing with or without additional cement, aggregate or water) of the concrete which has partially hardened, will not be permitted.

#### 3.2 PLACING OF CONCRETE

- A. All debris, dirt and water shall be removed from the forms. Forms, reinforcement steel, pipes, conduits, sleeves, anchors and other embedded items shall be inspected and approved by the Engineer before placing any concrete. The Contractor shall advise the Engineer of his readiness to proceed at least 12 hours before each placement of concrete.
- B. The surfaces of previously placed concrete, such as vertical or horizontal construction joints, shall be roughened, cleaned of foreign matter and laitance, and saturated with water.

Immediately before the new concrete is placed, all hardened surfaces shall receive a thorough coating of neat cement grout at least 5 mm thick which shall be well scrubbed in by means of stiff bristle brushes. The new concrete then shall be placed before the grout sets up.

Concrete shall be uniformly placed during the process of depositing until the completion of the layer to maintain an approximately horizontal plastic surface. The rate of placing concrete in forms shall not exceed 0.60 meter of vertical rise per hour. The spreading of mounds of concrete with vibrator or by shoveling will not be permitted.

- C. Concrete shall not be placed in water or stay submerged within 24 hours after placing, except for curing nor shall running water be permitted to flow over concrete surfaces within four days after the placing of concrete.
- D. Chutes for conveying concrete shall be of U-shaped metal and provided with a baffle plate at the end. Chutes shall be placed at an angle of not less than 25 degrees, nor more than 45 degrees from horizontal and shall be kept clean and free from hardened concrete. Maximum length of chute to be traveled by plastic concrete shall not be more than 1.50 meters.

- E. In thin walls or columns of considerable height, the concrete shall be placed in such a manner as to prevent segregation and accumulation of hardened concrete on the forms or the reinforcement steel located above the concrete mass. Free fall of concrete shall not be permitted to exceed 1.50 meters below the ends of hoppers, chutes, ducts, tremies, or "windows" in wall forms, without approval of the Engineer.
- F. Where waterstop type construction joints are provided, the concrete shall be properly worked by rodding and vibrating around the waterstops to produce watertight joints, before any concrete is poured on the upper surfaces, particularly in the case of horizontal waterstops in slabs.

Waterstops shall be accurately positioned and securely held in place, and shall be protected at all times to prevent damage or displacement. Any damage to, or displacement of waterstops shall be corrected by the Contractor to the satisfaction of the Engineer.

#### 3.3 TAMPING AND VIBRATING

- A. During and immediately after placing the concrete, compaction shall be carried out by experienced operators using high-speed internal mechanical vibrators. Care shall be taken to ensure that vibration is continued long enough to produce optimum consolidation without segregation of the aggregates or migration of air.
- B. At least one vibrator shall be used for every eight cubic meters of concrete placed per hour. One spare vibrator in operating condition shall be available on the site.
- C. Vibrators shall be supplemented with proper wooden spade, puddling adjacent to forms and rodding around embedded fixtures, to remove trapped air bubbles and to prevent honeycombing.

### 3.4 CURING AND PROTECTION

- A. All concrete work shall be properly cured. Details of the Contractor's curing procedures and curing compounds intended to be used shall be subject to the approval of the Engineer.
- B. All exposed surfaces including finished surfaces shall be treated immediately after concrete has been poured, to provide continuous moist curing for at least 7 days. Walls and vertical surfaces may be covered with continuously saturated burlap or kept moist by other approved means. Horizontal surfaces, slabs, etc. shall be ponded to a depth of 15mm or kept continuously wet by means of sprinklers or other approved methods.
- C. Formed surfaces shall be thoroughly soaked with water at least twice each day until the forms are removed. Curing shall continue as specified above.
- D. Where finishing of concrete surfaces is performed before the end of the curing period, the concrete shall not be permitted to dry out and shall be kept continuously damp by means of a fog of water from the time the concrete has been placed until the end of the curing period.

E. The Contractor shall protect all concrete work against injury from the elements and defacements of any nature during construction operations.

#### 3.5 REMOVAL OF FORMS

- A. The Contractor shall not remove any forms for at least 48 hours or until the concrete has attained a strength of at least 30 per cent of the ultimate 28- day strength. This is equivalent to approximately 50-day-degrees of moist curing. Day degree represents the total number of days times the average daily air temperature in °C at the surface of the concrete, e.g. 2 days at an average temperature of 25°C equals 50 day-degrees.
- B. Forms for beams and slabs shall not be stripped for at least 150-day degrees and supports shall not be removed until the concrete has attained at least 60% of the specified 28-day strength and is capable of safely supporting its own weight. Construction live loads shall not be placed upon it until the concrete has attained its specified 28-day strength.
- C. Removal of forms shall be in accordance with ACI 347. Forms shall be stripped such that they will not damage the concrete. No forms shall be removed until the concrete has gained sufficient strength to support itself. The Contractor is responsible for the safety of all structures.

#### 3.6 REPAIR OF DEFECTIVE CONCRETE

- A. Defective or honeycombed areas, as determined by the Engineer, shall be chipped down to at least 25mm deep into sound concrete by means of chisels or chipping hammers. If honeycombs exist around reinforcement steel a clear space, at least 10mm wide shall be chipped all around the steel.
- B. For areas less than 40mm deep, the patch may be made as in filling form-tie holes.
- C. Thicker repairs will require build-up in successive 40mm deep layers on successive days, and each layer shall be applied with neat cement pastes.
- D. For very deep patches, a non-shrink aggregate, with or without the addition of pea gravel, may be the used subject to the approval of the Engineer.
- E. The materials shall be mixed as recommended by the manufacturer of the non-shrink aggregate or as directed by the Engineer.
  - Where a metallic non-shrink aggregate is utilized, the final 15mm of the patch shall be composed of 1 to 1-1/2 cement / sand mortar without the non-shrink aggregate to prevent rust staining of the surface. After hardening, the patch shall be rubbed as for filling form-tie voids, in accordance with Section 33010, Rubbed Finish.
- F. All exposed concrete surfaces and adjoining work stained by spilling or leakage of concrete shall be cleaned to the satisfaction of the Engineer.

#### 3.7 INSPECTION

Installation of reinforcing steel, pipes, sleeves, anchors and other embedded items, batching, mixing, transportation, placing, curing and finishing of concrete shall at all times be subject to the inspection of the Engineer. No concrete shall be placed without the prior approval of the Engineer.

#### 3.8 FIELD CONTROL

- A. Sets of six (6) cylinder specimens shall be taken at random by the Contractor in the presence of the Engineer in accordance with ASTM C31. One (1) set per 50 cubic meters of concrete, or fraction thereof, poured during the day shall be made for the compressive strength test. At least one set of samples for strength test shall be made for each class of concrete.
- B. Two (2) cylinders shall be tested after 7 days and two cylinders after 28 days. Should the average strength of the 28-day test specimens be less than the specified value, a verification test shall be conducted on the remaining two (2) cylinder samples, after 28 to 45 days. Compressive tests shall be in accordance with ASTM C39 and shall be performed by a laboratory engaged by the Owner. Testing fees shall be paid by the Contractor.
- C. The Contractor shall assist, cooperate and provide the concrete for the test cylinders and such auxiliary personnel and equipment needed to take the test specimens.
- D. Ready-mixed concrete shall be sampled and tested in accordance with the following methods.

Table 9 – Sampling and Test Methods for Ready-Mixed Concrete

Sampling/Test Method	Applicable ASTM Standard
Compressive Test Specimens	C31
Compression Tests	C39
Yield, Unit Weight	C138
Air Content	C138/C173/C231
Slump	C143
Sampling Fresh Concrete	C172
Temperature	C1064

#### 3.9 FIELD TESTING

- A. Should the average strength of the verification test specimens be less than the specified value, the Engineer may take further core samples from the portion of the structure which was determined by the Engineer to represent the deficient 28-day/verification test specimens.
- B. If the strength of any core samples is less than the minimum requirements shown in Table 4, the Contractor shall strengthen or replace the portions of the structure concerned at no additional cost and to the satisfaction of the Engineer.

- C. The Contractor shall also deduct from payments otherwise due to him, the actual cost to the Owner for taking all core samples extracted from that portion of the Work.
- D. Slump tests, temperature and entrained air measurements shall be made when specimens for strength tests are taken and during placement of concrete, as often as necessary for control checks. If measured slump or air content falls outside the specified limits, a check test shall be made immediately on another portion of the same composite sample. In the event of a second failure, the concrete shall be considered to have failed the requirements of the specification and the whole batch shall be rejected.

#### 3.10 BASIS OF ACCEPTANCE / REJECTION

Final acceptance of all concrete will be based on satisfactory results of compressive strength tests.

Strength tests representing each class of concrete must meet the following two requirements:

- The average of any three consecutive strength tests shall be equal to, or greater than the specified strength.
- No individual strength strength test shall be more than 15% below the specified strength.

Except as provided below, acceptance criteria will be as outlined in ASTM C94 and ACI 318. Concrete which achieves the required compressive strength will be accepted as satisfactory for payment provided placement, finish and tolerance meet the specified requirements.

Concrete with average strength deficient by not more than fifteen percent (15%) of the required strength may be accepted, subject to cost reduction given in the following schedule:

Per Cent (%) Deficiency	Per Cent (%) of				
In Average Strength	Unit Price Reduction				
Less than 3	0				
0 to less than 5	15				
5 to less than 10	30				
10 to 15	40				
more than 15	100				

Concrete represented by test results wherein the average strength indicated a deficiency of not more than fifteen percent (15%) but with an individual test deficient by more than fifteen percent (15%) will not be eligible for payment but may be accepted or ordered replaced at the discretion of the Engineer.

Concrete represented by compressive strength tests that fail to achieve the required strength as specified, shall be liable to rejection and subsequent removal and replacement.

However, if any strength tests falls below the specified value by more than 15%, or an individual test is deficient by more than 15%, and load carrying capacity has been significantly reduced, tests of cores drilled from the area in question may be required in accordance with ASTM C42, wherein L/D ratio is not less than 1.25 prior to capping. In such cases, three (3) cores shall be taken for each strength test more than 15% below the required value.

If concrete in the structure will be dry under service conditions, cores shall be air dried for 7 days before test and shall be tested dry. If concrete in the structure will be more than superficially wet under service conditions, cores shall be immersed in water for at least 40 hours and be tested wet.

Concrete in an area represented by core tests shall be considered structurally adequate if the average of three (3) cores is equal to at least 85% of the specified strength, and if no single core is less than 75% of the minimum requirement. Additional testing of cores extracted from locations represented by erratic core strength results shall be permitted.

Acceptance and subsequent payment of concrete in question shall be based on the results of such tests, provided the complete operation has been supervised by the Engineer.

Rebound hammer test (ASTM C805) may be carried out by the Contractor prior to drilling core samples from structure in question, but the results of such rebound tests shall not be used as basis for acceptance or rejection of the concrete.

\*\* END OF SECTION \*\*

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## SECTION 03300 EXISTING CONCRETE ENLARGEMENT

#### PART 1 – GENERAL

#### 1.1 SCOPE OF WORK

The Work includes furnishing all labor, materials, equipment and incidentals necessary for the construction of all concrete retrofitting work.

#### 1.2 RELATED SECTIONS

Other Sections of the Specifications shall also apply to the extent required for proper performance of this Work.

Section 33009 Concrete Reinforcement

Section 33010 Concrete Finishes

#### 1.3 SPECIFICATIONS AND STANDARDS

Except as otherwise indicated, the current editions of the following Standards apply to the WORK of this Section:

ASTM C31	Making and Curing Concrete Test Specimens in the Field
ASTM C33	Concrete Aggregates
ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
ASTM C42	Obtaining and Testing Drilled Cores and Sawed Beams
ASTM C94	Ready-mixed Concrete
ASTM C143	Slump of Hydraulic-Cement Concrete
ASTM C150	Portland Cement
ASTM C347	Recommended Practice for Concrete Formwork, US Corps of Engineers CRD C-572

ASTM C494 Chemical Admixtures for Concrete

ASTM C805 Rebound Number of Hardened Concrete

## Section VII. Drawings

## SOCIAL SECURITY SYSTEM

EAST AVENUE, DILIMAN, QUEZON CITY

# PROPOSED STRUCTURAL RETROFITTING OF SSS DAVAO BUILDING

J.P. LAUREL AVE., BAJADA, DAVAO CITY







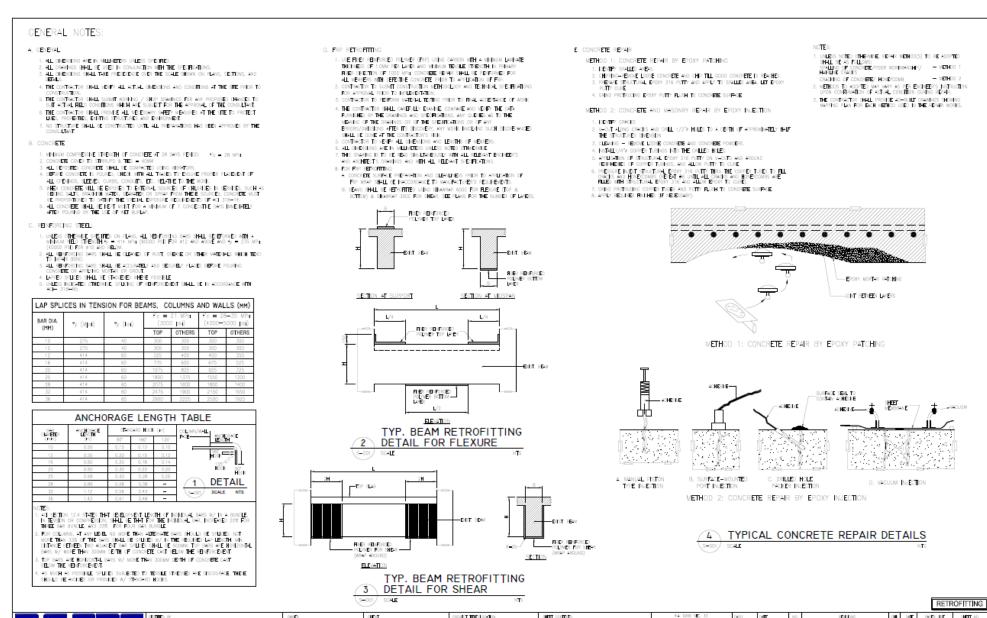
PERSPECTIVE



ALDEN C. ONG

HEET NO.	DESCRIPTION							
	STRUCTURAL (RETROFITTING)							
S-001	GENERAL NOTES							
5-002	SUMMARY OF COLUMNS, BEAMS AND GIRDERS RETROFITTING							
S-003	TYPICAL COLUMN ENLARGEMENT DETAIL & EB1 DETAIL							
S-004	TYPICAL COLUMN ENLARGEMENT DETAIL							
S-005	ROOF FRAMING PLAN (SHOWING TRUSS RETROF[TT]NG)							
	TRUSS MEMBERS RETROFITTING DETAILS							
S-006	GROUND FLOOR PLAN (SHOWING COLUMNS FOR RETROFITTING)							
S-007	SECOND FLOOR PLAN (SHOWING COLUMNS FOR RETROFITTING)							
S-008	THIRD FLOOR PLAN (SHOWING COLUMNS FOR RETROF[TTING)							
S-009	FOURTH FLOOR PLAN (SHOWING COLUMNS FOR RETROFITTING)							
S-010	SECOND FLOOR FRAMING PLAN (SHOWING FLEXURE ENHANCEMENT)							
S-011	THIRD FLOOR FRAMING PLAN (SHOWING FLEXURE ENHANCEMENT)							
S-012	FOURTH FLOOR FRAMING PLAN (SHOWING FLEXURE ENHANCEMENT)							
S-013	ROOF DECK FRAMING PLAN (SHOWING FLEXURE ENHANCEMENT)							
S-014	SECOND FLOOR FRAMING PLAN (SHOWING SHEAR ENHANCEMENT)							
S-015	THIRD FLOOR FRAMING PLAN (SHOWING SHEAR ENHANCEMENT)							
S-016	FOURTH FLOOR FRAMING PLAN (SHOWING SHEAR ENHANCEMENT)							
S-017	ROOF DECK FRAMING PLAN (SHOWING SHEAR ENHANCEMENT)							
S-018	ANNEX BUILDING ROOF FRAMING PLAN							





Retrofiting		Hark	s	ection	Flex	OF BEAMS AND GIRDERS RETRO	Shear	GRID	Beam Enlargeme
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		282	450		1 Layer 450mm width SIKA Whap 6000 @ Top	1 Layer 450mm width SIKA Wrap 600C @ Bot		BW 02-02 8 C1-01	-
		282	450		1 Layer 450mm width SIKA Wrap 6000 @ Top	1 Layer 450mm leads SRA Virial GOOD (\$100)		B/ WD4-E4 & D3-E3	
			450			Tuayer 450mm leidin Sirok Viriap 6000, igi Son			-
		2CB3			1 Layer 450mm width SIKA Wrap 600C @ Top			Left of Grid A & B/W Grid 4 and Grid 3	
		2CB3	450		1 Layer 450mm width SIKA Whap 600C @ Top			Left of Grid A & B/W Grid 3 and Grid 2	-
		2CB3	450	850	1 Layer 450mm width SIKA Wyap 600C @ Top	-		Left of Grid A & B/W Grid 2 and Grid 1	+:
		295	200	400	1 Layer 200mm width SRA Wrap 600C @ Top w/ 200mm lateral strip SRA wrap	1 Layer 200mm width SKA Wrap 6000 (§) Bottom w/ 200mm lateral strip SKA wrap	1 Layer U-Wrap of SIKA 300C	Left of Grid A & B/W Grid 4 and Grid 3	7.0
		285	200	400	1 Layer 200mm width SKA Wrap 600C @ Top- w/ 200mm lateral strip SKA wrap	1 Layer 200mm width SIKA Wrap 600C @ Bottom w/ 200mm lateral strip SIKA wrap	1 Layer U-Wrap of SIKA 3000	Left of Orld A & B/W Orld 3 and Orld 2	417
		283	450	850	1 Layer 450mm width SIKA Wrap 600C @ Top	1 Layer 450mm width SIKA Wirep 600C @ Bot	Control of the Contro	Right of Grid E & Above Grid 4	+1
		285	200	400			1 Layer U-Wrap of SIKA 300C	Left of Grid A & B/W Grid 1-2, 2-3, and 3-4	
		284	200	400		9	1 Layer U-Wrap of SIKA 300C	Below Grid 1 & IPart of Grid A-8 and Grid D-E	
		10000			1 Layer 200mm width SIKA Whap 600C @ Top	1 Layer 200mm width SKA Wrap 600C @	Target at 11 age of an account		7.5
		283	450	850	w/ 200mm lateral strip SIKA wrap	Bottom w/ 200mm lateral strip SIKA wrap	**	Left of Grid A & Below Grid 1	933
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		285	200		(4)	1.0	1 Layer U-Wrap of SKA 3000	Below Grid 1 & Part of Grid A-B	4:1
		285	200	400	140	1.0	1 Layer U-Wrap of SIKA 3000	Below Grid 1 & Part of Grid B-C	+ 1
	1	285	200	400		19	1 Layer U-Wrap of SIKA 3000	Below Grid 1 & Part of Grid B-C	+
		105	200	400			1 Layer UNIVersy of SRIA 2000	Delow Grid 1 & Part of Grid O-D	
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	1	2G4B	450	850		Bottom w/ 450mm lateral strip SIKA Wrap		Ord 93-94	+11
		2000	450	850	w/ 450mm lateral strip SIKA Wrap			011000000000000000000000000000000000000	
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- 0		2C G2	450	650	1 Layer 450mm width SIKA Wrap 600C @ Top	1 Layer 450mm width SIKA Wrap 600C @ Bot	23	Above Grid 4 & Part of Grid D-E	1
Dird Floor FRP System		9970	150	960	1 Layer 250mm width SKA Wrap 600C @ Top wi 250mm lateral strip SKA Wrap	2 Layers, 250 mm width SKA Wrap 600c @ Top w/ 250mm lateral strip SKA Wrap	1 Layer V Wrap of SIKA 2000	QH4 A2 92	
		3G2B	450	850	1 Layer 250mm width SIKA Wrap 600C @ Top	2 Layers 290 mm width SIKA Wrap 600c @	1 Laver U-Wrap of SIKA 3000	Grid 82-C2	411
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and Base	-3433	RB10	450	650		S 29	1 Layer U-Wrap of SIKA 300C	Above Grid 4 & B/W Grid D-E	
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Fourth to Roorfdeel		Third to Fourth					
Foundation to Ground  Foundation to Groundation  Foundation to Groun							1 Laver SIKA Wrap 600C @ H/4. Top and Bottom
Foundation to Ground   Grid A-2   Grid A-3   Ground to Second   Grid E-2   Ground to Second   Grid E-3   Ground to Second   Grid A-3   Ground to Second		Fourth to Roafdeck					
Foundation to Ground    Foundation to Ground   Grid A-3   6001690   8000700   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690   8000700   600169   6001690					600X600	800X700	
Grid E-2   6000-900   8000000   8000000   8000000   800000000		Foundation to Council	Grid A-3		6000(600)	800K700	
California   Cal		Foundation to dround	Grid E-2		600000	800K700	
California   Cal			Grid E-3		600X600	800X700	
Grid F-2   G000:600   B000:700			Grid A-3		600016000	8000700	
Grid E-2		Ground to Second	Grid A-2	EC2	60001600	800X700	_
Care		GIOGINO IO SECONO			6000(600)	800X700	
Care					6000(600)	800X700	
Grid F-1   G000600   B000700							
Grid F-2   G000 600   B000/000	CZ	Second to Third					
Third to Fourth   F	-	300010 10 11210					
Third to Fourth   Grid A-2   EC2   6000600   8000700   1					6000,600	800X700	
Fourth to Roofdeck   Grid F-1   EC2   6000:600   8000:700   8000:700							1 Layer SIKA Wrap 600C @ H/4, Top and Bottom
Grid F-2   EC2   G000:900   S000/200		Third to Fourth					
Fourth to Roofdeds				EC2			
Fourth to Rearlied   Girls 4-2   ECZ   G000 600   8000000					600X600	800K700	
Fourth to Bloof deck   Gold E-2   6000 900   8000 000							1 Layer SIKA Wrap 600C @ H/4, Top and Bottom
Foundation to Ground   Girld E-1   4000:900   8000:1000   6000:1000		Fourth to Roofdeck					
Foundation to Ground   Grid E4   4000:800   6000:1000				ECS			
Greand to Second Girld E-4 SCA GROSSO GROSSOO GROSSOO GRANDOO							
Second to Third   Grid E4   EC4   4000/800   60001:000							
Third to Fourth   Grid F4   G001800   G0011000							
Found to Second   Grid File	C3			EC4			
Foundation to Ground   Grid 0-14   Grid 1-14   Grid							
Foundation to decound   Grid D-L		Fourth to Roondeck			4000300	900x1000	
Ground to Second Grid 6-4  Second to Third Grid 6-4  Third to Fourth Grid 6-4  Fourth to Reoffded Fourth to Reoffded Grid 6-4  Grid 6-4  Grid 6-4  Grid 6-4  Grid 6-4  Grid 6-2		Foundation to Ground					
G4 Second to Third Grid 64-4 G0001600 B00000 B000000 G016-64 G016-64 G016-64 G0001600 B000000 B000000 B000000 B000000 B000000							
C4   Second to Third   Girl 6 L4   Third to Fourth   Girl 6 L4		Ground to Second					
Second to Thind							
Third to Fourth Girl D-L*    Fourth to Reaffeed   Foundation to Ground   Foundation to Groundation   Foundation to Grou	C4	Second to Third					1 Layer SIKA Wrap 600C @ H/4, Top and Bottom
Fourth to Reofiside   Grid D-H							
Fourth to Reaffeed  Fourth to Reaffeed  Girl 6 - H   Girl 6 - H		Third to Fourth					
Foundation to Ground   Grid 6-4   G001600   S000000   S000000   S000000   Grid 6-4   G001600   S000000   S000000   S000000   Grid 6-2   G000600   S000000   S000000   S000000   Grid 6-4   G001600   S000000   S000000   G000000   G0000000   G000000   G0000000   G00000000							
Grid B-4		Fourth to Roofdeck					
Foundation to Ground					6001600	800Y300	
Foundation to Ground Gold 6-2 Gold 6-2 Gold 6-2 Gold 6-3 Gold 6-3 Gold 6-3 Gold 6-4 Gold 6-3 Gold 6-4 Gold 6-3 Gold 6-3 Gold 6-4 Gold 6-3							
Gerid C-2   G0001600   B000000   B000000		Foundation to Ground	501100 50110		50000000	200001300	
Grid D-1 G000(600) B000(700) Grid G-1 G10 G-2 G000(600) B000(700) Grid G-3 G000(600) B000(700) Grid G-4		Tourisation to droute				0.000	
Grid B-4   G000400   B000000   B000000							1
Grid G-2 G00:600 B000700 B000700 G016 G-2 G00:600 B000700 B000700 B000700 G016 G-2 G00:600 B000700 B00							
Ground to Second Grid 92 2 600/600 8000/100 6000							
Grid C-2   6001600   8000700		Ground to Second					
Grid D-2   EC2   600/600   8000/000							
Grid 6-4   600:690   8000000							
Grid C-L   600/950   8000/00				EC2			-
CS Second to Third Grid 9-2 6000:600 8000:700 Grid 0-2 600:600 8000:700 Grid 0-2 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-2 6000:600 8000:700 Grid 0-2 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-2 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-2 6000:600 8000:700 Grid 0-1 6000:600 8000:700 Grid 0-2 6000:600 8000:700							
Grid C-2   60001600   80001000	CS	Second to Third			600X600	800X700	
Grid 9-4   60001900   80000700   Grid 6-4   60001900   80000700   Grid 6-4   60001900   80000700   Grid 6-2   60001900   80000700   80000700   Grid 6-2   60001900   80000700   80000700   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-2   Grid 6-2   The proof of t					6000(600)	800X700	
Grid 9-4   60001900   80000700   Grid 6-4   60001900   80000700   Grid 6-4   60001900   80000700   Grid 6-2   60001900   80000700   80000700   Grid 6-2   60001900   80000700   80000700   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-4   Grid 6-2   Grid 6-2   The proof of t							
Third to Fourth Grid 9-2 (6001600) 8000/00 (600 600) 6000/00 (600			Grid B-4		600000	8000700	
Third to Fourth Grid 9-2 (6001600) 8000/00 (600 600) 6000/00 (600			Grid C-4		6001600	800X700	
Grid C-2   600x6000   800x700		Third to Fourth					
Grid 0-2   600x600   800x700							
Grid 8-4   Grid 0-4     Fourth to Roofdeck   Grid 9-2   1 Layer SIKA Wrap 6000 @ H/4, Top and Bottom							
Grid C-4 Fourth to Roofdeck Grid 9-2 Grid 0-2 Grid 0-2 Grid 0-2 Grid 0-2 Grid 0-2 Grid 0-2							
Grid C-2							
Grid C-2		Fourth to Roafdeck					1 Layer SIKA Wrap 600C @ H/4, Top and Bottom
Grid D-2			Grid D-2				

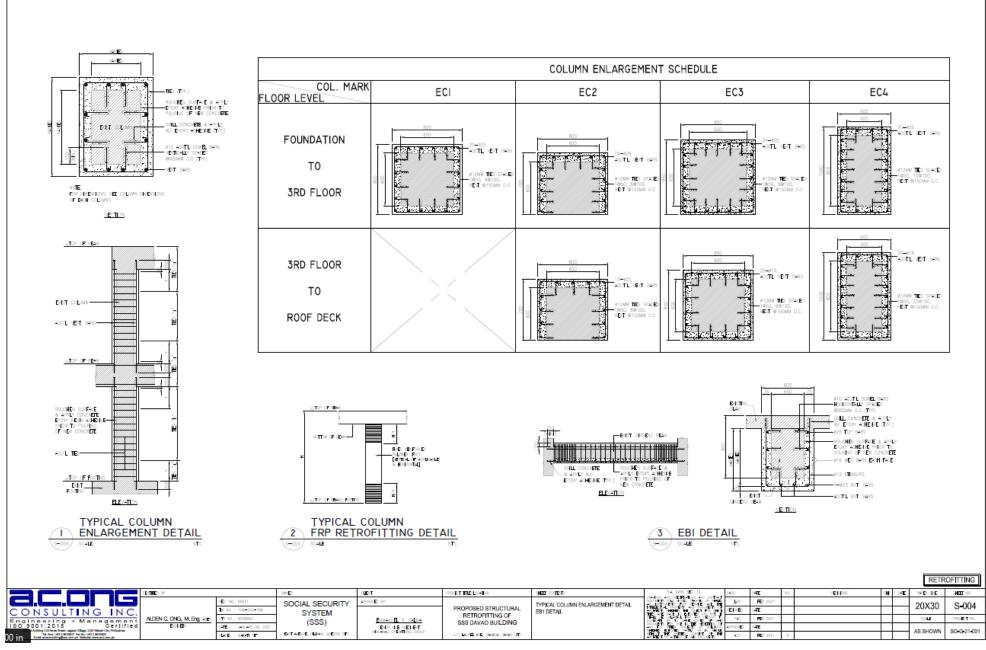
			SCI	HEDULE OF COLUMN R	ETROFITTING			
MARK	LOCATION	GRID	DETAIL EXISTING PROPOSED NEW DIMENSION(MM) DIMENSION(MM)		FRP SYSTEM			
		Grid B-3		650(650	850X850			
		Grid B-2		650X650	850X850	$\dashv$		
	Foundation to Ground	Grid C-2		650(650	850X850			
		Grid D-2		650X650	850X850			
		Grid B-3		600(600	850X850			
		Grid B-2		6000600	850X850			
	Ground to Second	Grid C-2	EC3	6000600	850X850	-		
		Grid D-2		6001000	850X850			
		Grid B-3		6001600	850X850			
		Grid B-2		6000600	850X850	-		
CG	Second to Third	Grid C-2		6001600	850X850	$\dashv$		
		Grid D-Z		6001600	850X850	┥		
		Grid B-3		0001000	00011000			
		Grid B-2				1 Layer SIKA Wrap 600C @ H/4, Top and Bottom		
	Third to Fourth	Grid C-2				2.2.j		
		Grid D-2	EC3	600X600	800X800			
	Fourth to Roofdeck	Grid B-3						
		Grid B-2						
		Grid C-2		-		1 Layer SIKA Wrap 600C @ H/4, Top and Bottom		
		Grid D-2						
		Grid C-3		6500(650	850X850			
	Foundation to Ground	Grid D-3		6500(650	850X850			
		Grid C-3		6000(600)	850X850			
	Ground to Second	Grid D-3		600X600	850X850			
-	Francisco Wiled	Grid C-3	EC3	600X600	850X850	-		
C7	Second to Third	Grid D-3		600X600	850X850			
		Grid C-3		600X600	800X800	7		
	Third to Fourth	Grid D-3		600X600	800X800	7		
	Fourth to Roofdeck	Grid C-3			1 Layer SIKA Wrap 600C @ H/4, Top and Bottom			
	Fourth to Roofdeck	Grid D-3	EC3	600X600	800X800			
	Foundation to Ground	Grid D-4						
	Ground to Second	Grid D-4						
C8	Second to Third	Grid D-4				1 Layer SIKA Wrap 600C @ H/4, Top and Botton		
	Third to Fourth	Grid D-4						
	Fourth to Roofdeck	Grid D-4						
	Foundation to Ground	Grid A-1		6000(600)	800X800			
	Ground to Second	Grid A-1	EC1	6000(600)	800X800			
C9	Second to Third	Grid A-1		6000(600)	800X800			
	Ithird to Fourth	Grid A-1						
	Fourth to Roofdeck	Grid A-1				1 Layer SIKA Wrap 600C @ H/4, Top and Botton		

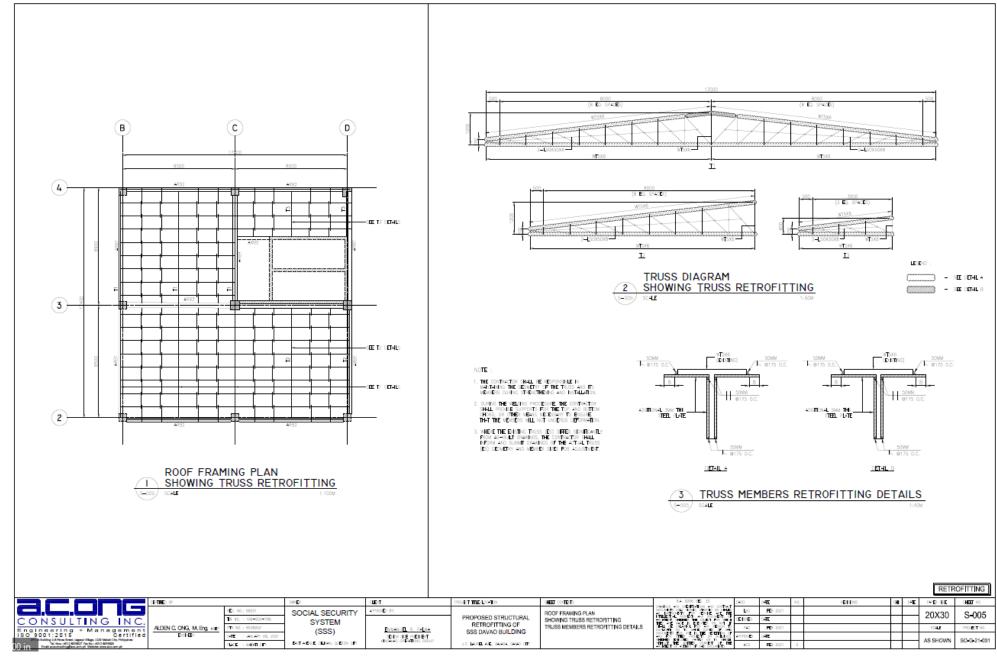
RETROFITTING 20X30 S-003 CONSULTING INC.
Engineering \* Management
ISO 9001:2015
Certified
The Management Certified
The Ma CUENT ROJECT TILE/LOCATION SHEET CONTENTS OWER 49990VED BY SOCIAL SECURITY SCHEDULE OF COLUMN RETROFITTING 20X30 S-003 ALDEN C. ONG, M. Brg. 202\* 171 NO. 106-106-206

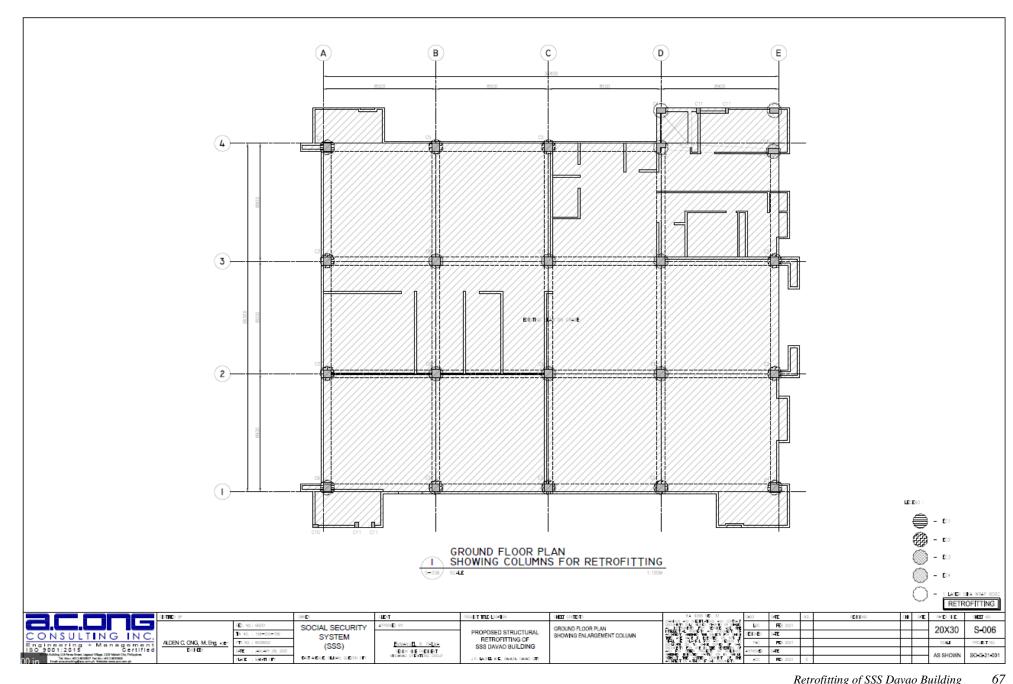
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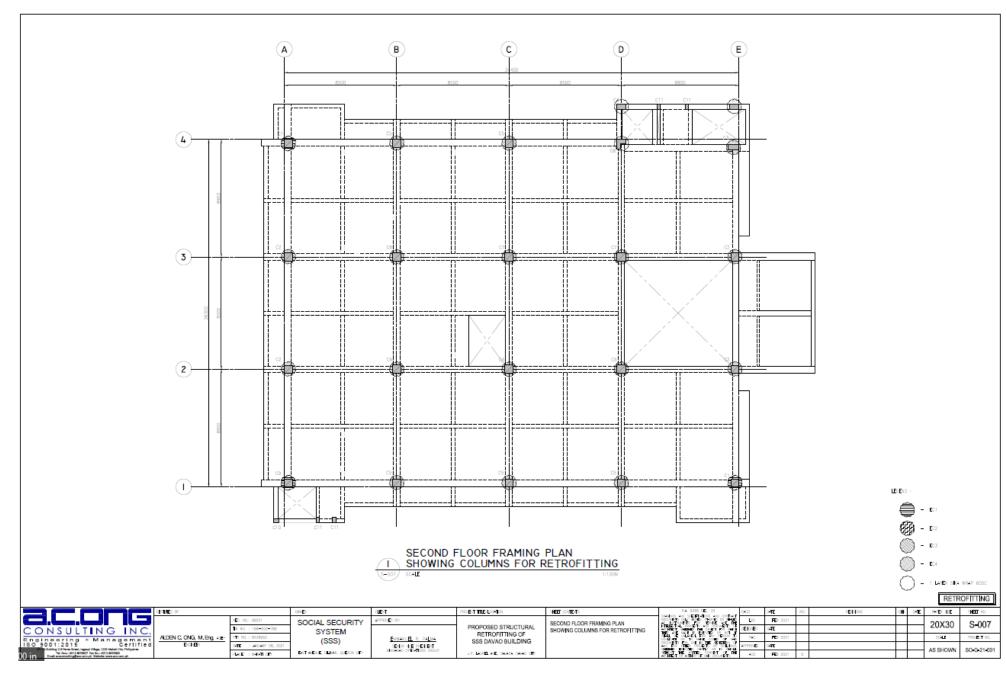
BILLE PROPOSED STRUCTURAL RETROFITTING OF SSS DAVAO BUILDING SYSTEM 5042 PROJECT NO. ENVANUEL R. PALVA SEMENTIE PREMENT UNDANG OFENTING DROUP (SSS) AS SHOWN SO G 21 001 SKT AIDNE, DLAW, DIETON DEY LP. LAUREL RIC., DANIA, DARRO CITY

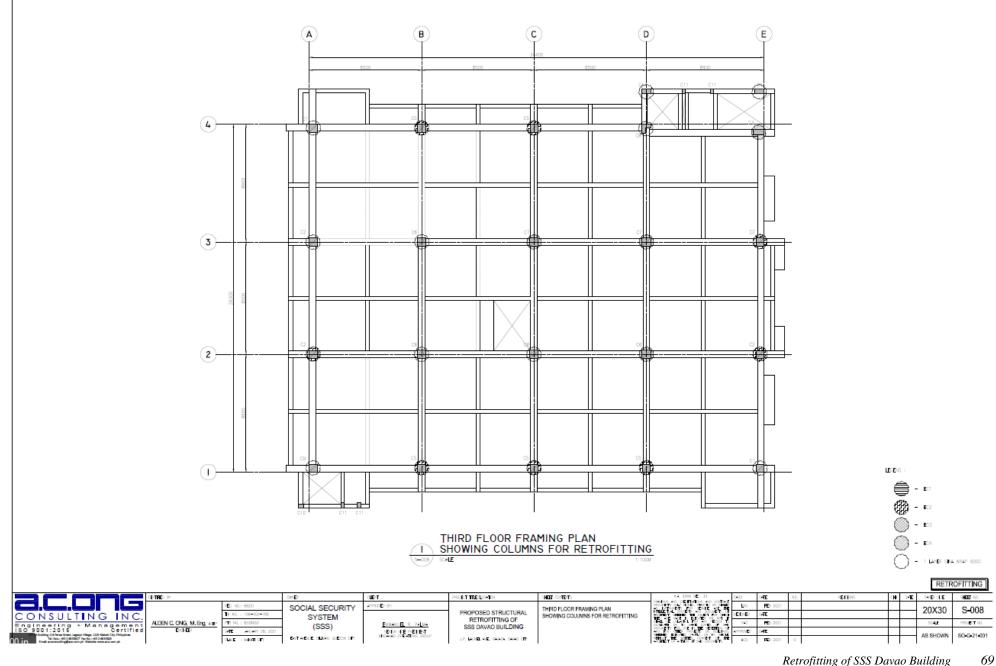


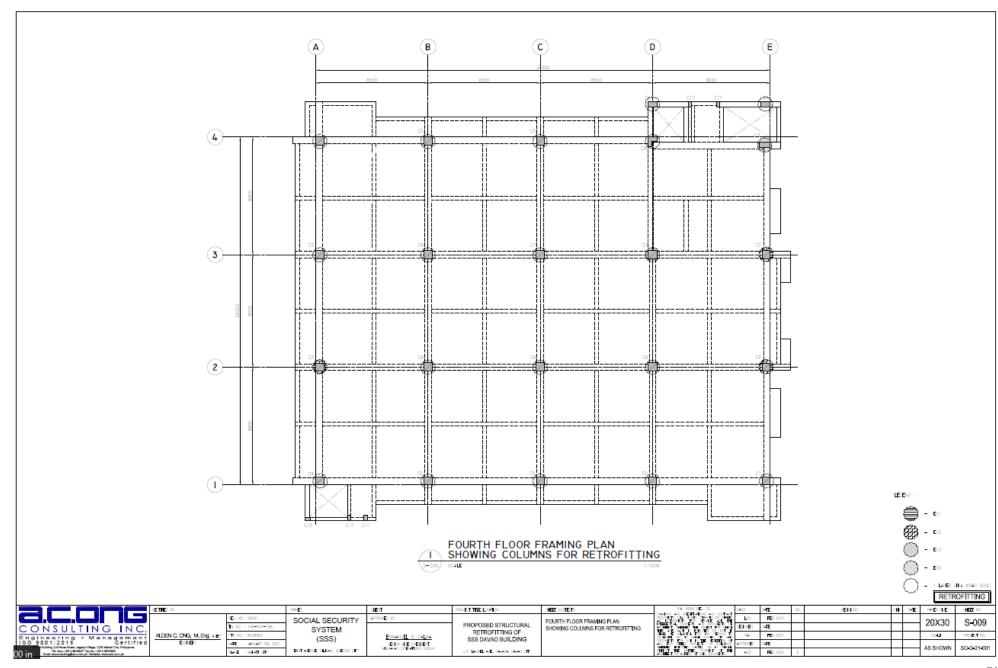


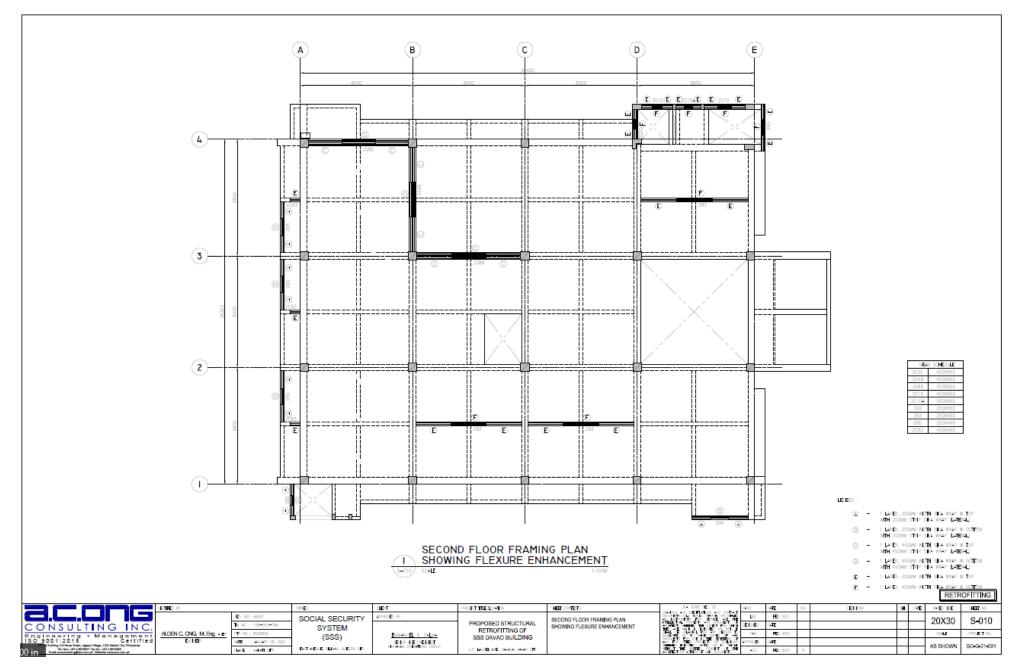


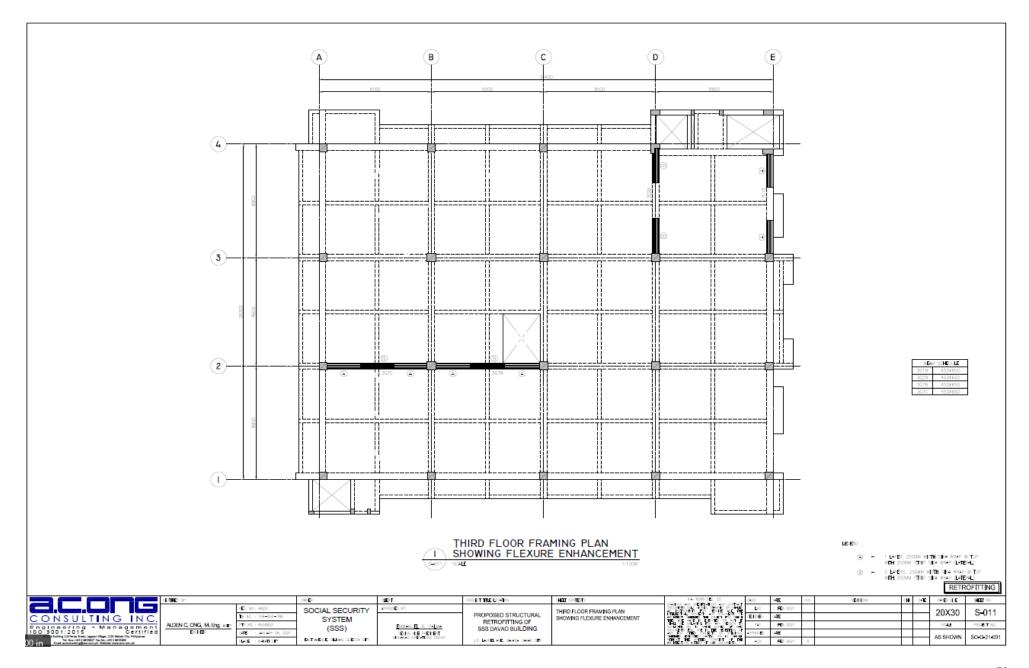
Retrofitting of SSS Davao Building

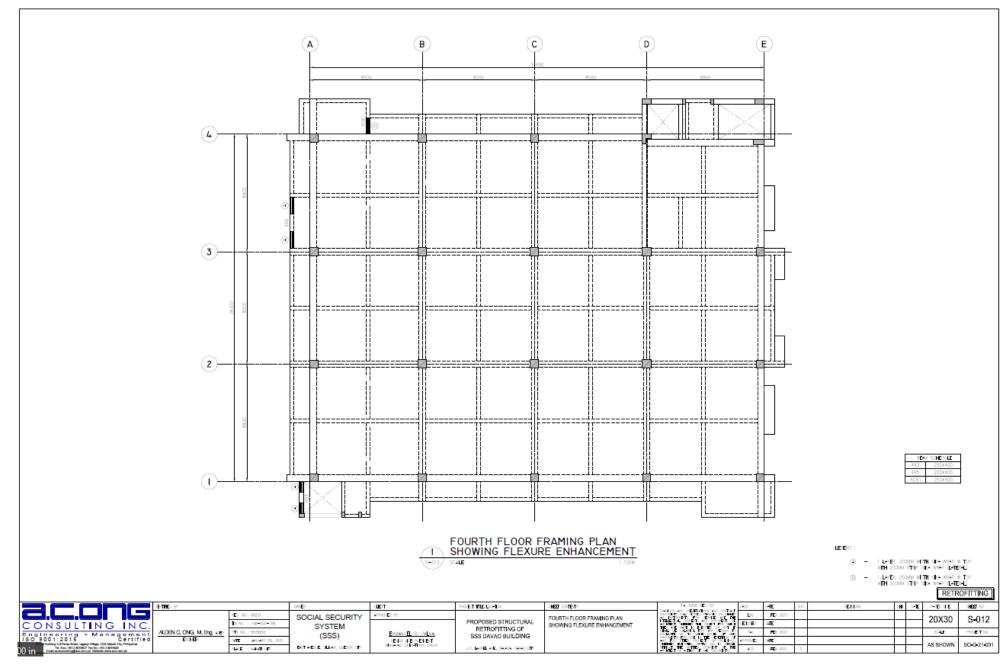


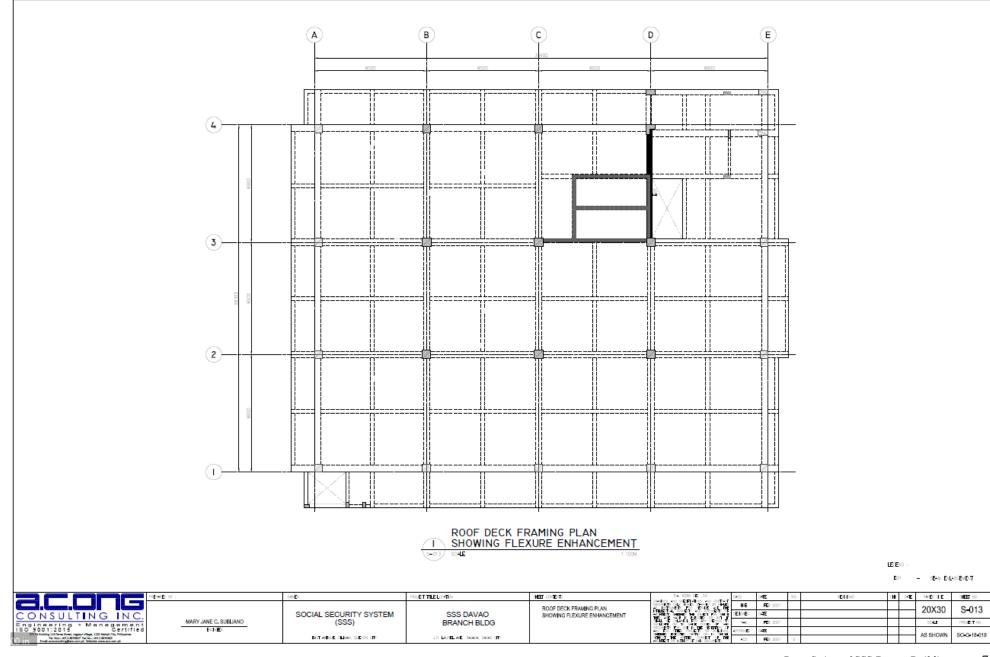


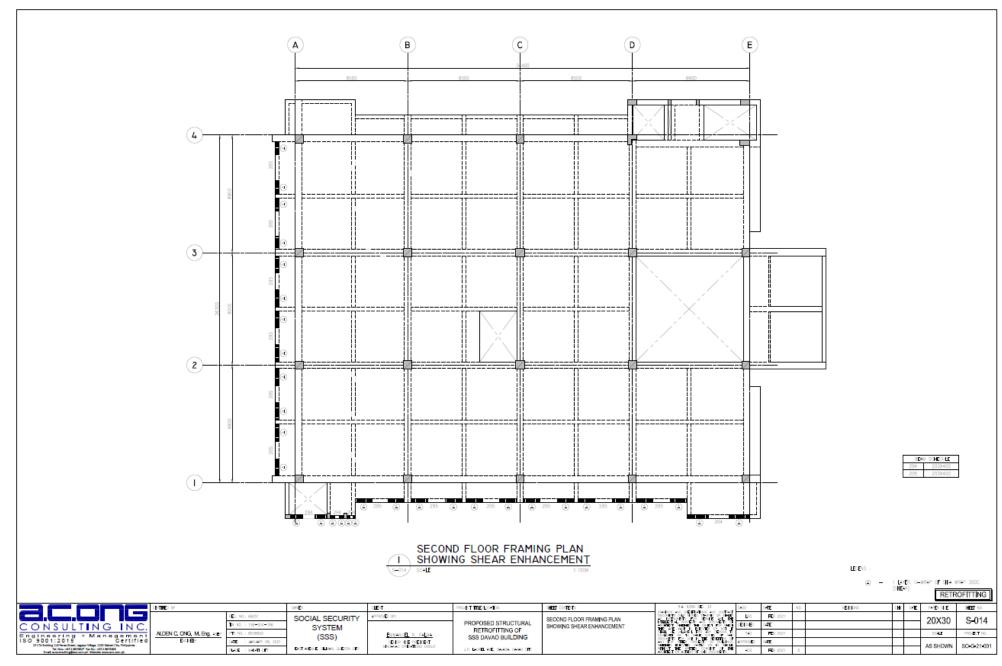


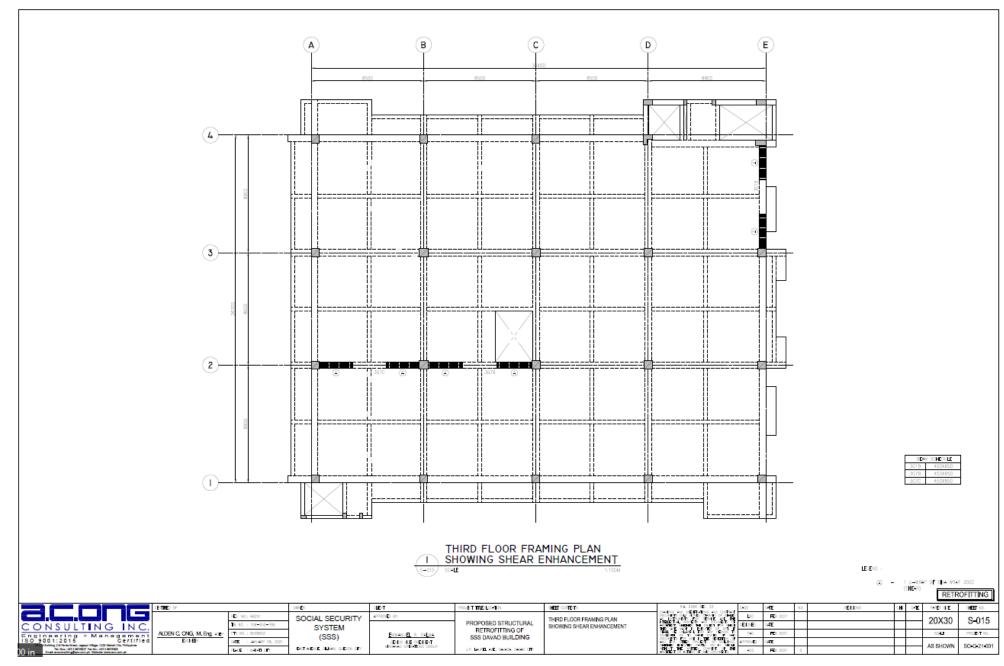


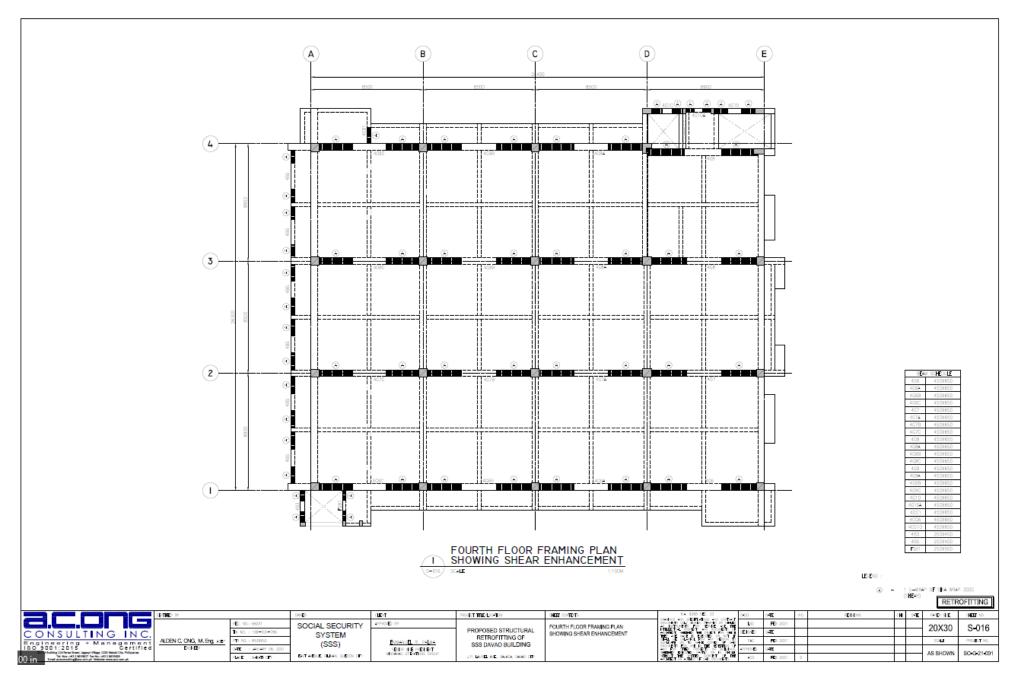


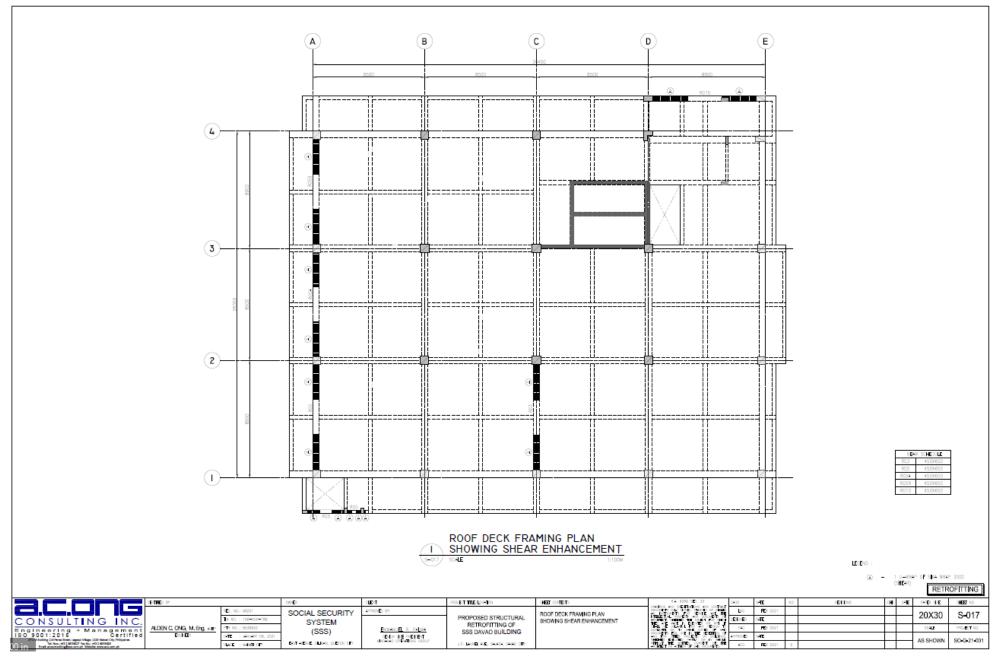


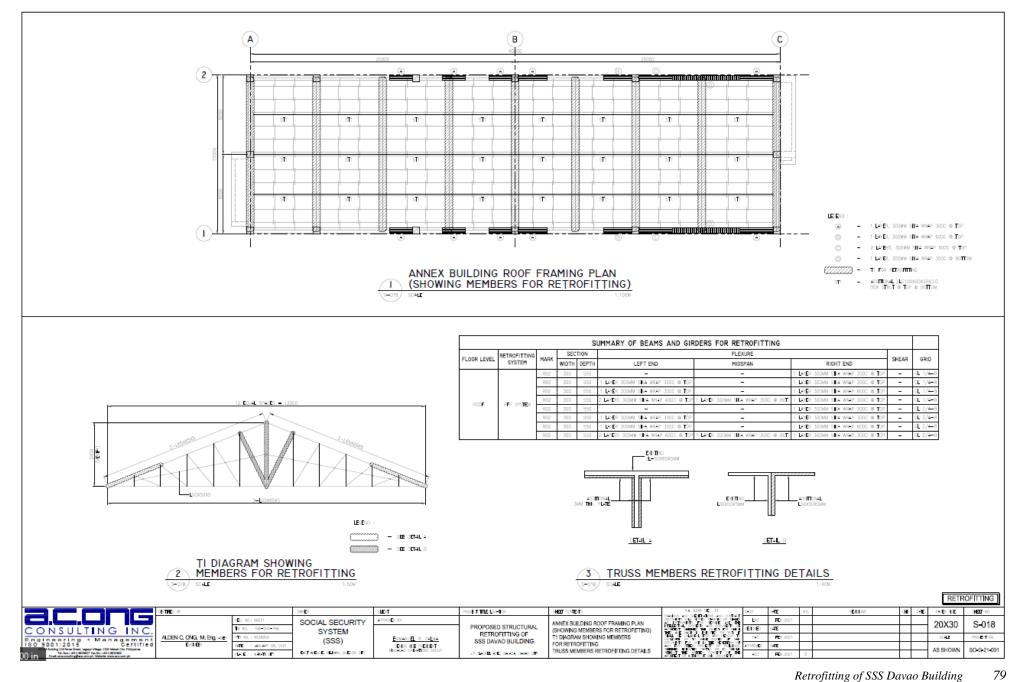


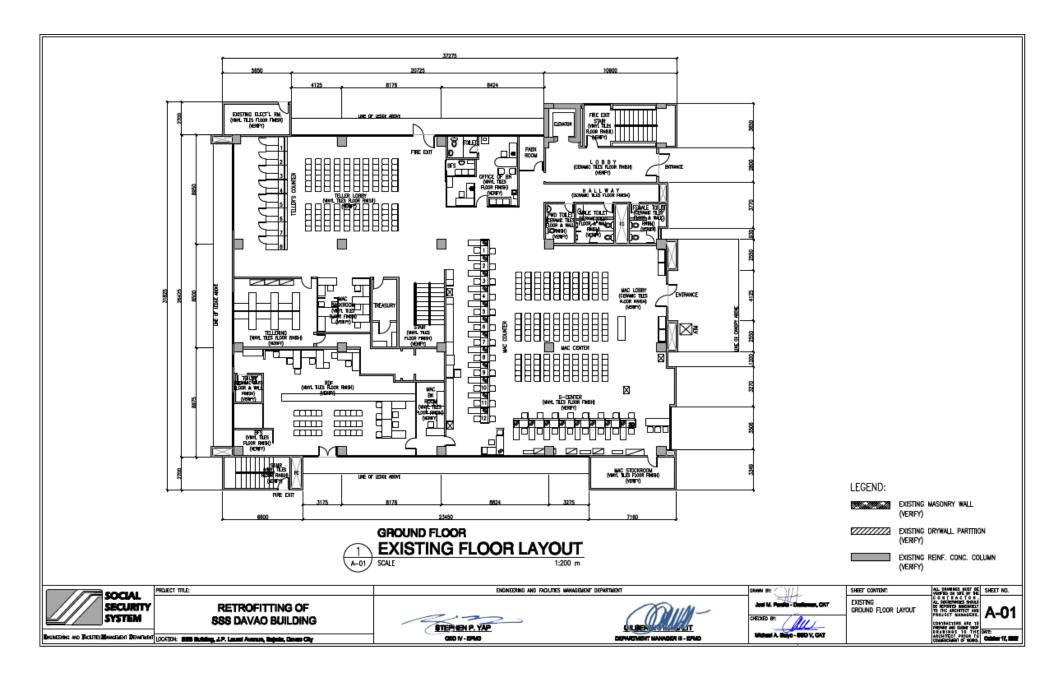


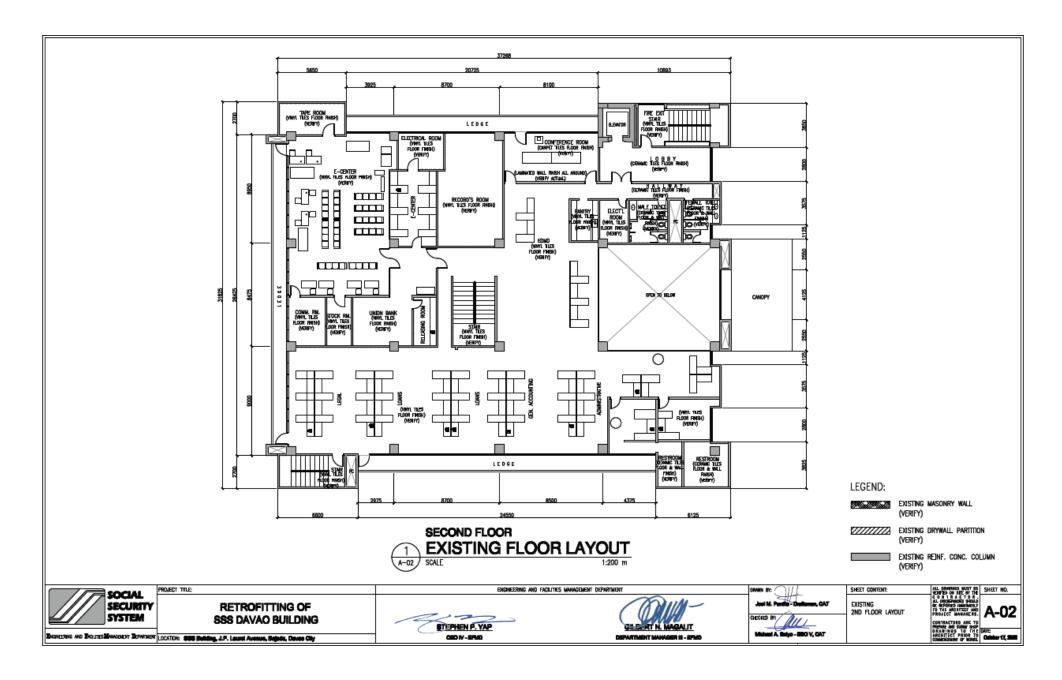


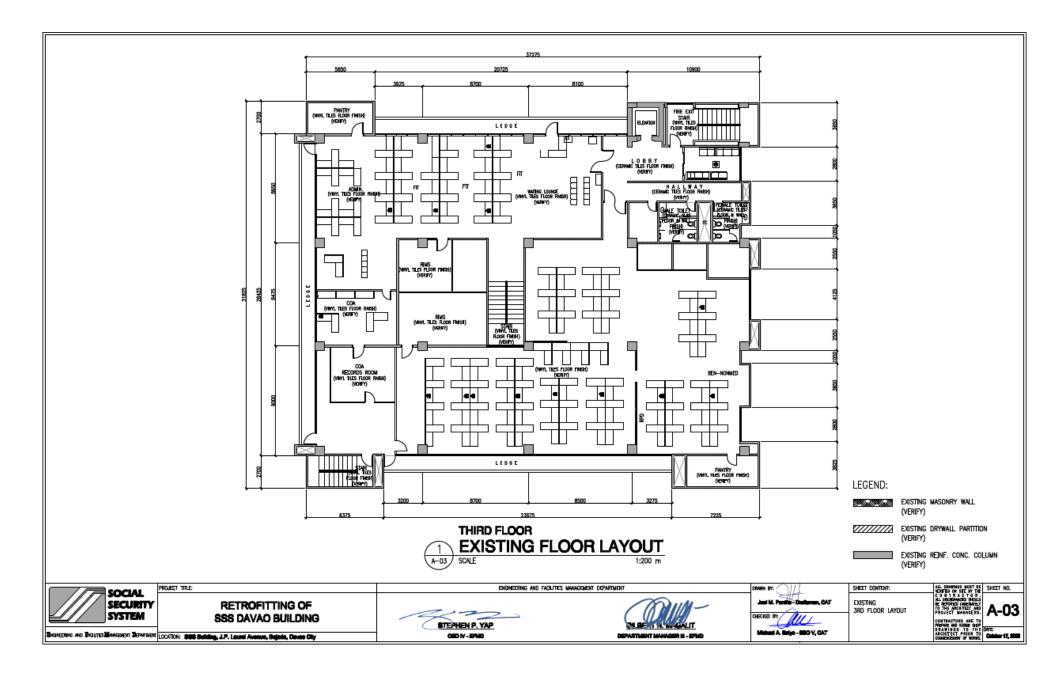


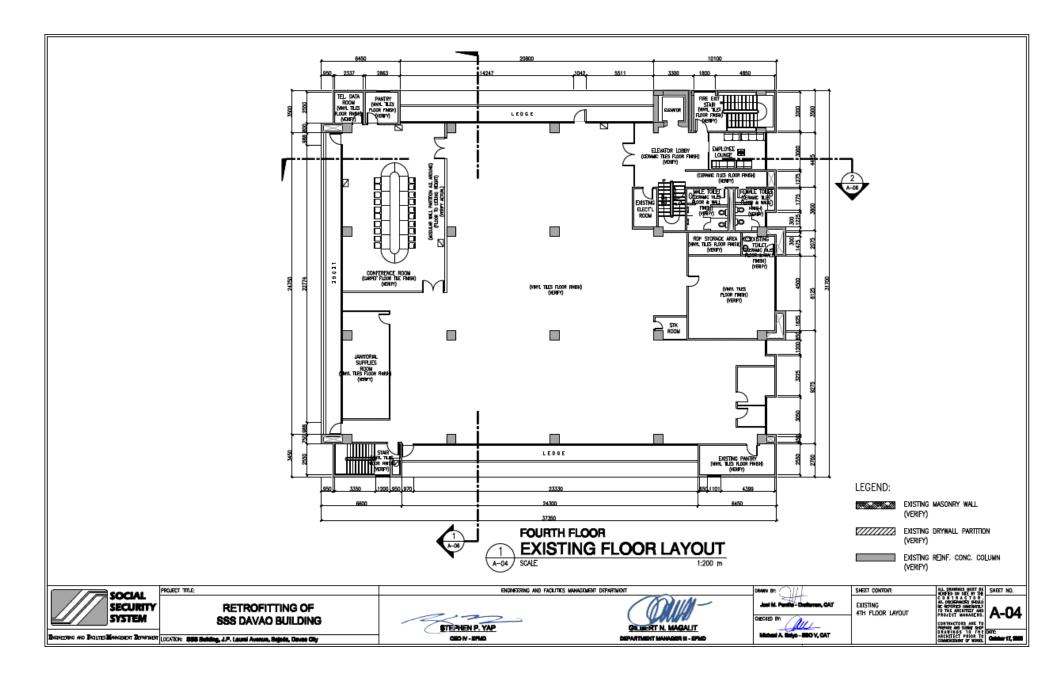


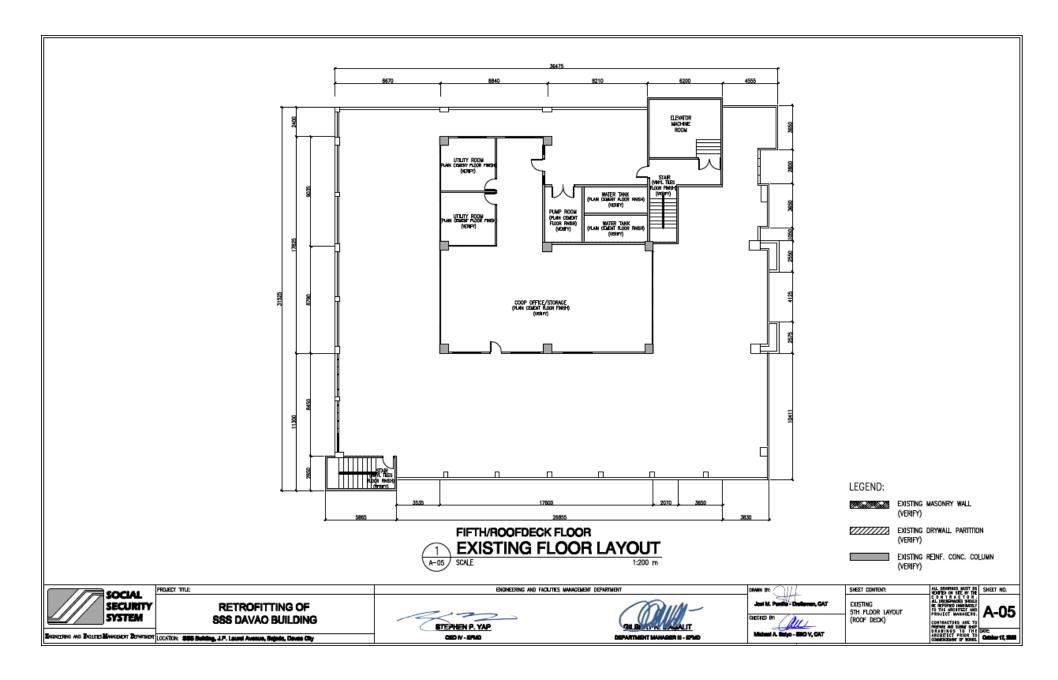


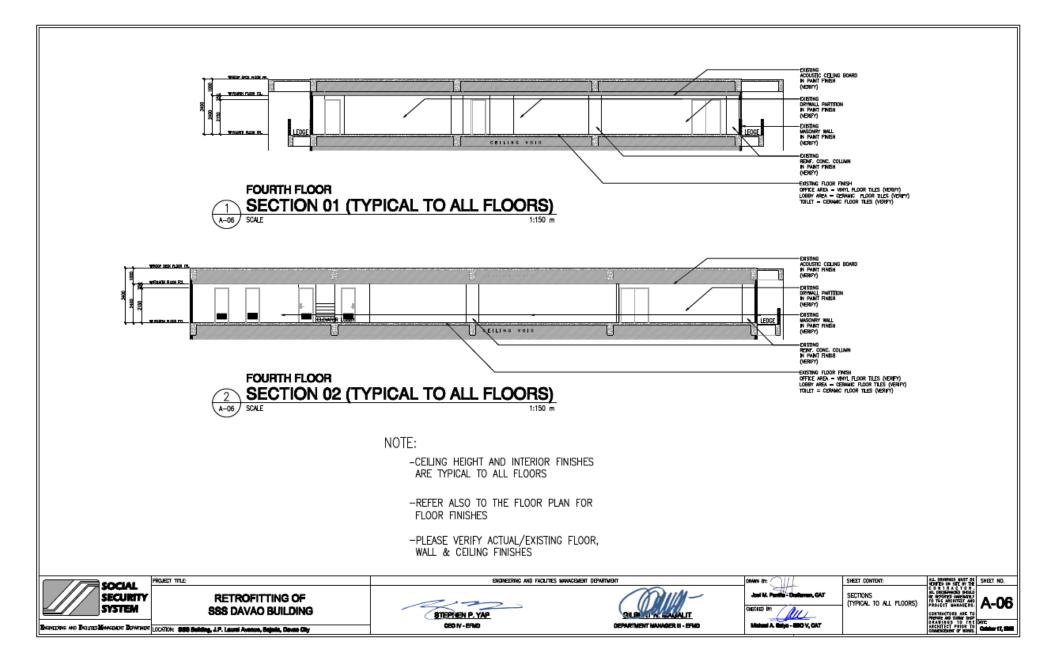












Section VIII. Bill of Quantities

Project Name : Retrofitting of SSS Davao Building

Location : J.P. Laurel Avenue, Bajada, Davao City, Davao del Sur

#### BILL OF QUANTITIES

				Materi	al Cost	Lab	or Cost		Mark-ups		Mark-ups Total M				
Item No.	Description	Unit	Qty	Unit Cost	Total	Unit Cost	Total	Direct Cost	$\overline{}$	Profit		Value	VAT	Indirect Cost	Total Cost
(a)	(b)	(c)	(d)	(e)	(f) = (e x d)	(g)	(h) = (e x g)	(i) = (f + h)	(i)	(k)	(1)	(m) = (i x l)	(n) = 12% (i + m)	(o) = (m + n)	(p) = (i + o)
- 1	General Requirements														
	Permits/Clearances and Other Government	1.00	lot		-		-	-	/	/	/	-	-	-	-
	Taxes (Permit fees and expenses for								/	/	/				
	processing of building permit and occupancy								/	/ /	/				
	certification, BFP clearance, etc. including								/	/	/				
	construction plans and as-built plans for								/	/	/				
	permit purposes)								/	/	/				
	2. Temporary Facilities	1.00	lot		-		-				0%	-	-	-	-
	3. Temporary Utilities (water and electricity)			•	•	•	- To b	e provided by the	Owner -				•		
	4. Safety Requirements (DOLE - approved CHSP,	1.00	lot		-		-	-			0%	-	-	-	-
	PPE, dust barriers, safety nets/fall protection,								/						
	board-up, safety signages/devices, floor								//						
	coverings, etc.)								/						
	5. Closing-out Requirement (Signed-and-Sealed	1.00	lot				-	-	1		096	-	_	-	-
	as-built retrofitting plans with minor civil-								/						
	architectural plans relative to restoration								/						
	works i.e. floor plans, elevations/sections)								//						
									/						
	6. Site Cleaning/Clearing and hauling/disposal of	1.00	lot				-	-			0%	-	-	-	-
	construction debris, excess materials,														
	contractor's garbage, etc.														
	Sub-total - General Requirements				-		-	-				-	-	-	-
II	Column Enlargement (Foundation to Roof)														
	Removal of CHB Partition Walls	148.41	sq.m.				-	-			0%	-	-	-	-
	2. Excavation Works														
	2.1 Structural Excavation	127.54	cu.m.				-	-			0%	-	-	-	-
	2.2 Backfilling and Compaction	109.70	cu.m.				-	-	-		0%	-	-	-	-
	2.3 Chipping Works	1.00	lot			-	-	-	-		0%	-	-	-	-
	Concreting Works     3.1 Concrete Forms and Accessories	695.30			_						0%				
	3.1 Concrete Forms and Accessories 3.2 Concrete Reinforcement	695.30	sq.m.		-		-	-			U%6	-	<del>-</del>	-	
	28mmØ deformed bar	5,043.22	kgs		-		-				0%		_	_	
	25mmØ deformed bar	15,366.19	kgs		-		-	-	_		0%	-	-	-	
	16mmØ deformed bar	779.41	kgs	<del> </del>	-		-				0%	-	-	-	
	12mmØ deformed bar	21,222.20	kgs		-		-	_			0%		_	-	
	3.3 Cast-in-place Concrete	61.30	cu.m.		-		-				0%	-	-	-	
	Application of cement plaster to finish	695.30	sq.m.		_		-	-			0%	-	_	-	-
	Painting works of enlarged column surfaces	695.30	sq.m.		-		-	-			0%	-	-	-	-
	Restoration of affected CHB partition and	148.41	sq.m.		-		-	-			0%	-	-	-	-
	other finishes/surfaces														

Item No.	Description	Unit	Qty	Materia	al Cost	Lab	or Cost	Direct Cost	Mar	k-ups			VAT	Indirect Cost	Total Cost
item ivo.	Description	Onit	Qty	Unit Cost	Total	Unit Cost	Total	Direct Cost	OCM	Profit	%	Value	VAI	indirect cost	Total Cost
	5.3 Shear Fiber (300gsm) - 1 layer	346.89	sq.m.		•	0.00	-	•			0%	•	•	-	-
	6. Restoration of CHB partition and other	16.68	sq.m.	0.00	-	0.00	-	-			096	-	-	-	-
	affected areas/ finishes/ fixtures including														
	plastering cover or topcoat finish for														
	composite retrofitting materials														
	Sub-total - FRP Beams/Girders				-		-	-				-	-	-	-
VI	Restoration Works														
	Restoration of ALL affected architectural,	1.00	lot		-		-	-			096	-	-	-	-
	mechanical, electrical, fire protection, sanitary and														
	others														
	Sub-total - Restoration Works				ı		-	•				ı	ı	-	-
VII	Miscellaneous Items														
	<ol> <li>Equipment rental/expenses during</li> </ol>	1.00	lot					_			0%	_	_	_	
	construction/lifting	1.00	101								070			_	
	<ol><li>Scaffolding for enlargement of columns and</li></ol>	1.00	lot				_	_			096	_	_	_	_
	beams, and application of FRP system								L.,		0,0				
	3. Mobilization/demobilization	1.00	lot		-		-	-				-	-	-	-
	Sub-total - Miscellaneous Items				-		-	-				-	-	-	-
VIII	Relocation of Affected Workstations and Office														
	Equipment														
	1. Dismantling & temporary relocation of														
	employee workstations, equipment and														
	documents affected by the retrofitting works;	50	EEs		0.00		0.00	0.00	,		0%	0.00	0.00	0.00	0.00
	including transfer to its original location upon	30	LLS		0.00		0.00	0.00	1		070	0.00	0.00	0.00	0.00
	completion of works, and dismantling and all														
	other works needed														
	Provision of new power outlets	25	sets		0.00		0.00	0.00	_		0%	0.00	0.00		0.00
	Provision data and voice outlets	25	sets		0.00		0.00	0.00	)		0%	0.00	0.00	0.00	0.00
	Sub-total - Relocation of Affected				0.00		0.00	0.00				0.00	0.00	0.00	0.00
	Workstations/Equipment				0.00		0.00	0.00	1			0.00	0.00	0.00	0.00
	TOTAL PROJECT COST														-
														<u> </u>	

#### GENERAL CONDITIONS:

- 1. 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.
- 1.1 Fill out all required items/field in the BOQ. Failure to indicate any of the following shall mean outright disqualification since bid is considered Non-responsive:

  a) if item is given for free, indicate dash (-), zero (0) or free
- 2. 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.
- 3. 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.
- 4. Bidders shall include in the detailed estimate the breakdown of materials & labor for quantities specified in LOT, sqm, cu.m (unit of measure) in BOQ
- 5. All documents must be signed, and each and every page thereof must be initialed by the duly authorized representative/s of the Bidder
- 6. Mark-up shall include the following:
- 6.1 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)
  6.2 Contingencies, Miscellaneous Expenses and Contractor's Profit margin
- 7. 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:		
Address		_
Telephone #:		
Date:		

Section IX. Checklist of Technical and Financial Documents

# **Checklist of Technical and Financial Documents**

## I. TECHNICAL COMPONENT ENVELOPE

#### Class "A" Documents

<u>Legal D</u>	<u>ocuments</u>
(a)	Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
	<u>or</u>
<b>Technic</b>	al 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 under the rules; <b>and</b>
(d)	Philippine Contractors Accreditation Board (PCAB) License;
☐ (u)	**
	Or Special DCAD License in coor of Joint Wenturns:
	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;
	<u>or</u>
	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; <b>and</b>
(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.
<i>Financi</i>	al 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
	The prospective bidder's computation of Net Financial Contracting Capacity
(i)	
	(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;
	<u>or</u>

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.	FINA	ANCI	AL COMPONENT ENVELOPE
		(k)	Original of duly signed and accomplished Financial Bid Form; and
	<u>Othe</u>	er doc	umentary requirements under RA No. 9184
		(1)	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 equipmen rentals used in coming up with the Bid; <b>and</b>
		(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"

- Envelopes (7) to (9) shall then be enclosed in a single sealed, signed final/outer d) envelope/package/box
- All envelopes (Envelopes (1) to (9) and the final/outer envelope/package/box) e) 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 CHAIRPERSO	N						
BIDS AND AWARDS COMMITTEE							
2 <sup>ND</sup> 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**

#### **Bid Form for the Procurement of Infrastructure Projects**

# BID FORM

#### RETROFITTING OF SSS DAVAO BUILDING

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: (Insert name of contract);
- b. We offer to execute the Works for this Contract in accordance with the PBDs;
- c. The total price of our Bid in words and figures, excluding any discounts offered below is: (insert information);
- d. The discounts offered and the methodology for their application are: (insert information);
- e. The total bid price includes the cost of all taxes, such as, but not limited to: [specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties], which are itemized herein and reflected in the detailed estimates,
- f. Our Bid shall be valid within the 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 (Name of Project) of the [Name of the Procuring Entity].
- 1. 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

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

#### **Bid Securing Declaration Form**

REPUBLIC	OF THE	PHIL	LIPPINES)	CITY	OF
			) S.S.		

#### **BID SECURING DECLARATION**

Project Identification No.: [Insert number]

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

I/We, the undersigned, declare that:

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

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED

REPRESENTATIVE]

[Insert signatory's legal capacity] Affiant

#### [Jurat]

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

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



#### **Contract Agreement Form for the**

#### **Procurement of Infrastructure Projects (Revised)**

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

\_\_\_\_\_\_

#### **CONTRACT AGREEMENT**

#### RETROFITTING OF SSS DAVAO BUILDING

ITB-SSS-CIVIL-2023-

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 thatadditional contract documents or information prescribed by the GPPBthat are subsequently required for submission after the contractexecution, such as the Notice to Proceed, Variation Orders, andWarranty Security, shall likewise form part of the Contract.
- 3. In consideration for the sum of [totalcontract 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:

SSS

[Insert Name and Signature]
```



SIGNED IN THE PRESENCE OF:						
(Name of Certifying officer as (Position of Certifying Officer) (Department/Office of Certifying Officer)	)					
FUNDS AVAILABLE:						
APP No.:						
	FIRST ACKNOWLEDGMENT					
Republic of the Philippines )	for and in, Philippin	es, on this day of				
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:

SE	ECOND ACKNOWLEDGMENT	
Republic of the Philippines )	.S.	
BEFORE ME, a Notary Public perso	for and in, Philippin onally appeared:	es, on this day of
Name	Competent Evidence of Identity	Date/Place of Issue
() pages, in acknowledged to me that the	person who executed the foregoing cluding this page and excluding a same is his/her/their free and voing phrase) as well as the free and volvs in this instance.	annexes, and he/she/they bluntary act and deed (if
WITNESS MY HAND AND S	EAL on the date and place first above	e 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 [Name of Bidder] with office address at [address of Bidder];

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

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

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

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

- 3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
- 4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
- 5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

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

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



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

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

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

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

## **FORM-05**

# 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

NAME OF CONTRACT	COMPLETION PERIOD	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 NAME OF PROJECT 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 TOTAL** PERCENTAGE OF **ESTIMATED DESCRIPTION CONTRACT** PLANNED AND **COMPLETION AMOUNT AT** ACTUAL TIME **AWARD ACCOMPLISHMENT TOTAL** Use additional sheet/s, if necessary FORMULA: 15 (\_\_ Current Assets minus Current Liabilities minus **Total Outstanding NFCC** Works **P**\_ NFCC Prepared and Submitted by: Signature over Printed Name

(Name of Bank)

## **COMMITTED LINE OF CREDIT CERTIFICATE**

