BIDDING DOCUMENTS

FOR THE

REHABILITATION AND IMPROVEMENT OF MULTI- PURPOSE HALL AT BARANGAY LIBSONG WEST, LINGAYEN, PANGASINAN (PHASE I)

MUNICIPALITY OF LINGAYEN

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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 – BangkoSentral 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.

UN – United Nations.

Section I. Invitation to Bid

Republic of the Philippines
Province of Pangasinan
Municipality of Lingayen

Invitation to Bid for *the REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL AY BARANGAY LIBSONG WEST, LINGAYEN, PANGASINAN* (PHASE I)

The ***Local Government Unit (LGU) of Lingayen*** through the General Fund -*20% Development Fund* intends to apply the sum of ***One Million (P 1,000,000.00) Only*** being the Approved Budget for the Contract (ABC) to payments under the contract for *the* ***REHABILITATION AND IMPROVEMENT OF MULTI- PURPOSE HALL AT BARANGAY LIBSONG WEST, LINGAYEN, PANGASINAN (PHASE I) with Purchase Request no. 100-21-09-305***. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The ***Local Government Unit (LGU) of Lingayen*** now invites bids for the above Procurement Project. Completion of the Works is required *ONE HUNDRED TWENTY (120) calendar days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

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.

Interested bidders may obtain further information from *BAC Office, Municipal Hall Building, Lingayen, Pangasinan* from *8:00 in the morning to 5:00 in the afternoon, Mondays to Fridays except holidays.*.

A complete set of Bidding Documents may be acquired by interested bidders starting ***September 8, 2021 – October 6, 2021*** from the BAC Office, Municipal Hall Building, Lingayen, Pangasinan *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of* ***One Thousand Pesos (P1,000.00).*** The Bidder or authorize representative shall present its proof of payment for the fees personally to the BAC Office before Bidding Documents will be released.

The ***Local Government Unit of Lingayen*** will hold a Pre-Bid Conference on *September 23, 2021, 10:00 in the morning* at *Municipal Conference Room, Municipal Hall, Building, Lingayen, Pangasinan* which may be attended by prospective bidders.

Bids must be duly received by the BAC Secretariat through manual submission at the office of Bids and Awards Committee, Local Government Unit of Lingayen, Municipal Hall, Lingayen, Pangasinan 2401 on or before 10:00 in the morning October 6, *2021*.. Late bids shall not be accepted.

All bids must be accompanied by a Bid Security in any of the acceptable forms and in the amount stated in **ITB** Clause 15.

Bid opening shall be at the Municipal Conference Hall, 2nd Floor, Municipal Hall Building, Lingayen, Pangasinan on **October 6, 2021**, *after the closing time of the submission of bids*. Bids will be opened in the presence of the bidders' representatives and observers who choose to attend the activity.

The ***Local Government Unit of Lingayen*** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

ARNULFO S. BERNARDO
Head BAC Secretariat
LGU Lingayen
Barangay Poblacion
Lingayen, Pangasinan

You may visit the following websites:

For downloading of Bidding Documents:*www.lingayen.gov.ph*

September 8, 2021
Date of Issue

JOAN JUDE R. LOPEZ, LLB, MBM
BAC Chairperson, Mun. Civil Registrar

Section II. Instructions to Bidders (ITB)

1. Scope of Bid

The Procuring Entity, *the Local Government Unit of Lingayen* invites Bids for the ***Rehabilitation and Improvement of Multi- Purpose Hall at Barangay Libsong West, Lingayen, Pangasinan (Phase I) with Purchase Request No. 100-21-09-305***

The Procurement Project (referred to herein as "Project") is for ***Rehabilitation and Improvement of Multi- Purpose Hall at Barangay Libsong West, Lingayen, Pangasinan (Phase I)*** as described in Section VI (Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *CY 2021* in the amount of One Million *Pesos (P 1,000,000.00) Only*.

2.2. The source of funding is: LGU's General Fund - 20% Development Fund

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. The Bidders shall comply with the eligibility criteria under Section 23.4.2 of the 2016 IRR of RA No. 9184.

6. Bidder's Responsibilities

6.1 The Bidder is responsible for the following:

(a) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;

(b) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) .

(c) Ensuring that it is not "blacklisted" or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;

(d) Ensuring that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

(e) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary's Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;

(f) Complying with the disclosure provision under Section 47 of RA 9184 and its IRR in relation to other provisions of RA 3019;

6.2 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.

6.3 The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity.

6.4 Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.

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

7. Origin of Associated Goods

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

8. Subcontracts

The Procuring Entity has prescribed that:

a. Subcontracting is not allowed.

9. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time at its physical address as indicated in paragraph 6 of the **IB.**

10. Clarification and Amendment of Bidding Documents

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

11. Documents Comprising the Bid: Eligibility and Technical Components

11.1 The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

11.2 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.

11.3A 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**.

11.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.

11.5 A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

12. Documents Comprising the Bid: Financial Component

12.1 The second bid envelope shall contain the financial documents for the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.

12.2 Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

13. Alternative Bids

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

14. Bid Prices

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

15. Bid and Payment Currencies

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

15.2 Payment of the contract price shall be made in:

a. Philippine Pesos.

16. Bid Security

16.1 The Bidder shall submit any of the following form of Bid Security in the amount indicated in the **Bid Data Sheet (BDS)**, which shall be not less than the percentage of the ABC in accordance with the following schedule.

Form of Bid Security	Amount of Bid Security (Not Less than the Percentage of the ABC)
a. Cash or cashier's/manager's check issued by a Universal or Commercial Bank. *For biddings conducted by LGUs, the Cashier's/Manager's Check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.*	Two percent (2%)
b. Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. *For biddings conducted by LGUs, Bank Draft/Guarantee, or Irrevocable Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.*	

c. Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)

16.2 The Bid and bid security shall be valid until ***one hundred twenty days upon the date of opening of bids.*** Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

17. Sealing and Marking of Bids

Each Bidder shall submit one original copy and additional copy of the technical and financial components of its bid.

Bidders shall enclose the original copy of their technical documents in one long brown envelope marked "ORIGINAL – TECHNICAL DOCUMENTS", and shall do the same to the original copy of the financial components of their bid ; marked "ORIGINAL – FINANCIAL DOCUMENTS" on a long brown envelope as well. These two brown envelopes shall be sealed in a long brown envelope marked "**ORIGINAL BID**".

The other copy of the Technical and Financial Documents shall be similarly sealed on a long brown envelope duly marked as "COPY – TECHNICAL DOCUMENT" and "COPY – FINANCIAL DOCUMENT" enclosed in a long brown envelope marked "**COPY**".

The checklist of Technical and Financial Documents shall be attached on the back side (under the seal flap) of each long brown envelope.

All of the documents (original copy and the other copy) shall bear the signature or initials of the authorized representative on every page as proof of its authenticity.

These two long brown envelopes (ORIGINAL BID and COPY) shall now be enclosed in one final expanding envelope sealed with two-inch packaging tape with the signature of the bidder affixed atop the packaging tape as cognizance of its seal.

All envelopes (long brown and expanding) shall:

a.) contain the name of the contract to be bid in capital letters;

b.) bear the name and address of the bidder in capital letters;

c.) be addressed to the Procuring Entity's BAC as follows;

BIDS AND AWARDS COMMITTEE
LOCAL GOVERNMENT UNIT OF LINGAYEN
MUNICIPAL HALL, LINGAYEN, PANGASINAN 2401

d.) bear a warning "DO NOT OPEN BEFORE…" the date and time of the Opening of Bids written at the front side of each envelope.

18. Deadline for Submission of Bids

The deadline of submission of Bids is on October 6, 2021 at exactly 10:00 in the morning. Only manual submission of Bids is allowed.

19. Opening and Preliminary Examination of Bids

19.1 The BAC shall open the Bids in public on ***October 6, 2021, after the closing time of the submission of bids at Municipal Conference Hall, 2nd Floor, Municipal Hall Building, Lingayen, Pangasinan***. The Bidders' authorize 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.

19.2The preliminary examination of Bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

20. Detailed Evaluation and Comparison of Bids

20.1 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.

20.2 If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately.

20.3 In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

21. Post Qualification

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

22. Signing of the Contract

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

Section III. Bid Data Sheet (BDS)

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Bid Data Sheet

ITB Clause	
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be consist of: Part A. Earthworks I . Excavation II. Embankment Part B. Concreting Works III. Concreting Works Part C. Forms & Falseworks IV. Forms & Falseworks Part D. Reinforcing Steel Bar Works V. RSB Works Part E. Roof Framing Works VI. Roof Framing Works Part F. Tinsmithry Workks VII. Tinsmithry Works Part G. Other General Requirements SPL- 1- Project Billboards SPL- 2- Construction Health and Safety
7.1	*Sub-contracting is not allowed*
10.3	*PCAB, DTI, Mayor's Permit*
10.4	The contractor shall employ the following Key Personnel Key Personnel — General Experience — Relevant Experience Construction Foreman — 5 years — Vertical & Horizontal Projects Skilled Laborer Unskilled Laborer Safety Officer/ First Aider

<table>
<tr><td>10.5</td><td>The minimum major equipment requirements are the following:

<table><tr><td>Equipment</td><td>Capacity</td><td>No. of units</td></tr><tr><td>Dump Truck (10 cu.m)</td><td>N/A</td><td>one (1)</td></tr><tr><td>Bar Cutter</td><td>N/A</td><td>one (1)</td></tr><tr><td>Miner Tools</td><td>N/A</td><td>One(1)</td></tr><tr><td>Plate Compactor (5 Hp)</td><td>N/A</td><td>one (1)</td></tr><tr><td>Concrete Mixer</td><td>N/A</td><td>one (1)</td></tr><tr><td>Concrete Vibrator</td><td>N/A</td><td>one (1)</td></tr><tr><td>Bar Bender</td><td>N/A</td><td>one (1)</td></tr><tr><td>Cargo Truck (10T, 270 Hp)</td><td>N/A</td><td>one (1)</td></tr></table></td></tr>
<tr><td>12</td><td>Value Engineering clause not included. Alternative bids shall not be included.</td></tr>
<tr><td>15.1</td><td>The bid security shall be in the form of any of the following forms and amounts:
a. The amount of not less than Twenty Thousand Pesos (P20,000.00) Only (two percent (2%) of ABC], if bid security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit;

b. The amount of not less than Fifty Thousand Pesos (P 50,000.00) Only five percent (5%) of ABC] if bid security is in Surety Bond.</td></tr>
<tr><td>19.2</td><td>Partial bids is not allowed .</td></tr>
<tr><td>20</td><td>Pertinent documents to be submitted by the winning supplier to the BAC Office before the issuance of Notice of Award

1. Philgeps Certificate

2. Mayor’s Permit

3. Latest Income and Business Tax Return

4. Tax Clearance</td></tr>
<tr><td>21</td><td>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.</td></tr>
</table>

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

2. Sectional Completion of Works

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

3. Possession of Site

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

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

4. The Contractor's Obligations

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

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

5. Performance Security

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

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

6. Site Investigation Reports

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

7. Warranty

7.1. In case the Contractor fails to undertake the repair works under Section 62.2.2 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

7.2. The warranty against Structural Defects/Failures, except that occasioned-on force majeure, shall cover the period from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. Specific duration of the warranty is found in the **SCC**.

7.3. Retention Money: Progress payments are subject to retention of ten percent (10%) referred to as the retention money. Such retention shall be based on the total amount due to the contractor prior to any deduction and shall be retained from every progress payment. The total retention money shall be due for release upon final acceptance of the works

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	*The Intended Completion Date is* ***one hundred twenty (120)*** *calendar days*
4.1	*The Local Government Unit of Lingayen shall give possession of all parts of the site to the contractor upon signing of the Contract.*
6	The site investigation reports are: *None*
7.2	*In case of permanent structures, such as buildings of type 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with the relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures: Fifteen (15) years*
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work to the Procuring Entity's Representative within ***ten (10) calendar*** days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is ***ten percent (10%) of the contract amount***..
13	The amount of the advance payment is ***fifteen (15%) percent of the contract amount***
14	*Materials and equipment delivered on the site but not completely put in place shall be included for payment* ***Not Applicable***
15.1	The date by which "as built" drawings are required is *before final payment*
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is *one (1) percent(1%) of the contract amount*.

Section VI. Specifications

Project Title : Rehabilitation and Improvement of Multi- Purpose Hall

Project Location : Barangay Libsong West, Lingayen, Pangasinan (Phase I)

1. EARTHWORKS

ITEM 102 – EXCAVATION

102.1 Description

This Item shall consist of roadway drainage and borrow excavation, and the disposal of material in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

102.1.1 Roadway Excavation

Roadway excavation will include excavation and grading for roadways, parking areas, intersections, approaches, slope rounding, benching, waterways and ditches; removal of unsuitable material from the roadbed and beneath embankment areas; and excavating selected material found in the roadway as ordered by the Engineer for specific use in the improvement. Roadway excavation will be classified as "unclassified excavation", "rock excavation", "common excavation", or "muck excavation" as indicated in the Bill of Quantities and hereinafter described.

(1) Unclassified Excavation. Unclassified excavation shall consist of the excavation and disposal of all materials regardless of its nature, not classified and included in the Bill of Quantities under other pay items.

(2) Rock Excavation. Rock excavation shall consist of excavation of igneous, sedimentary and metamorphic rocks which cannot be excavated without blasting or the use of rippers, and all boulders or other detached stones each having a volume of 1 cubic meter or more as determined by physical measurements or visually by the Engineer.

(3) Common Excavation. Common excavations shall consist of all excavation not included in the Bill of Quantities under "rock excavation" or other pay items.

(4) Muck Excavation. Muck excavation shall consist of the removal and disposal of deposits of saturated or unsaturated mixtures of soils and organic matter not suitable for foundation materials regardless of moisture content.

102.1.2 Borrow Excavation

Borrow excavation shall consist of the excavation and utilization of approved materials required for the construction of embankments or for other portions of the work, and shall be obtained from approved sources, in accordance with Clause 61, Standard Specifications for Public Works and Highways, Volume I and the following:

(1) Borrow, Case 1

Borrow Case 1 will consist of material obtained from sources designated on the Plans or in the Special Provisions.

(2) Borrow, Case 2

Borrow Case 2 will consist of material obtained from sources provided by the Contractor.

The material shall meet the quality requirements determined by the Engineer unless otherwise provided in the Contract.

ITEM 201 – AGGREGATE BASE COURSE

201.1 Description

This Item shall consist of furnishing, placing and compacting an aggregate base course on a prepared subgrade/subbase in accordance with this Specification, and the lines, grades, thickness and typical cross-sections shown on the Plans, or as established by the Engineer.

201.2 Material Requirements

Aggregate for base course shall consist of hard, durable particles or fragments of crushed stone, crushed slag, crushed or natural gravel, and filler of natural or crushed sand, other finely divided mineral matter. The composite material shall be free from vegetable matter and lumps or balls of clay, and shall be of such nature that it can be compacted readily to form a firm, stable base.

In some areas where the conventional base course materials are scarce or non-available, the use of 40% weathered limestone blended with 60% crushed stones or gravel shall be allowed, provided that the blended materials meet the requirements of this Item.

The base course material shall conform to Table 201.1, whichever is called for in the Bill of Quantities.

Table 201.1 – Grading Requirements

Sieve Designation		Mass Percent Passing	
Standard, mm	Alternate US Standard	Grading A	Grading B
50	2"	100	
37.5	1-1/2"	-	100
25.0	1"	60 – 85	-
19.0	¾"	-	60 – 85
12.5	½"	35 – 65	-
4.75	No. 4	20 – 50	30 – 55
0.425	No. 40	5 – 20	8 – 25
0.075	No. 200	0 – 12	2 – 14

The fraction passing the 0.075 mm (No. 200) sieve shall not be greater than 0.66 (two thirds) of the fraction passing the 0.425 mm (No. 40) sieve.

The fraction passing the 0.425 mm (No. 40) sieve shall have a liquid limit not greater than 25 and plasticity index not greater than 6 as determined by AASHTO T 89 and T 90, respectively.

The coarse portion, retained on a 2.00 mm (No. 10) sieve shall have a mass percent of wear not exceeding 50 by the Los Angeles Abrasion test determined by AASHTO T 96.

The material passing the 19 mm (3/4 inch) sieve shall have a soaked CBR value of not less than 80% as determined by AASHTO T 193. The CBR value shall be obtained at the maximum dry density (MDD) as determined by AASHTO T 180, Method D.

If filler, in addition to that naturally present, is necessary for meeting the grading requirements or for satisfactory bonding, it shall be uniformly blended with the base course material on the road or in a pugmill unless otherwise specified or approved. Filler shall be taken from sources approved by the Engineer, free from hard lumps and shall not contain more than 15 percent of material retained on the 4.75 mm (No. 4) sieve.

EMBANKMENT

104.1 Description

This Item shall consist of the construction of embankment in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

104.2 Material Requirements

Embankments shall be constructed of suitable materials, in consonance with the following definitions:

1. Suitable Material – Material which is acceptable in accordance with the Contract and which can be compacted in the manner specified in this Item. It can be common material or rock.
Selected Borrow, for topping – soil of such gradation that all particles will pass a sieve with 75 mm square openings and not more than 15 mass percent will pass the 0.075 mm (No. 200) sieve, as determined by AASHTO T 11. The material shall have a plasticity index of not more than 6 as determined by AASHTO T 90 and a liquid limit of not more than 30 as determined by AASHTO T 89.
2. Unsuitable Material – Material other than suitable materials such as:
(a) Materials containing detrimental quantities of organic materials, such as grass, roots and sewerage.
(b) Organic soils such as peat and muck.
(c) Soils with liquid limit exceeding 80 and/or plasticity index exceeding 55.
(d) Soils with a natural water content exceeding 100%.
(e) Soils with very low natural density, 800 kg/m3 or lower.

(f) Soils that cannot be properly compacted as determined by the Engineer.

2. **CONCRETE WORKS**

The work includes construction of concrete structures complete in accordance with the standard specifications and conformity with the lines, grades, thickness and typical cross-section shown on the plan.

3.1 Material Requirement

3.1.1 General

Concrete shall be composed of Portland cement; fine and coarse aggregates, water and admixture as specified all thoroughly mixed and brought to proper consistency, uniformity and temperature for final placement.

3.1.2 Cement

Concrete shall be Portland cement of a brand approved by the Municipal Engineer and conforming to ASTM Specification C150, Type I of Type II.

3.1.3 Water

Water shall be clean and free from injurious amounts of oils, acids, alkalics, salts, organic materials, or other substances that may be deleterious to concrete or steel.

Fine Aggregates

Fine aggregates shall consist of natural sand, manufactured sand, or a combination thereof. If the fine aggregate shall be a combination of separately processed sizes shall result in a combination of natural and manufactured sand, the different components shall be batched separately. Fine aggregates shall consist of hard, tough, durable, uncoated particles. The specified percentages of fines in the sand may be obtained either by the processing of natural sand or by the production of suitably graded manufactured sand. The shape of particles shall be generally rounded or cubical and reasonably free from flat or elongated pieces. The use of beach sand shall be prohibited. The fine aggregate shall conform to the following specific requirements:

Std	Sieve Designation U.S Std., Square Mesh	Cumulative Percentage by Weight 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	45-80
300 micron	No. 50	10-30
150 micron	No.100	2-10

In addition to the grading limits shown above, the fine aggregates, as delivered to the mixer, shall have a fineness modulus not less than 2.3 more than 3.0 and during normal operations, the grading of the fine aggregate shall be controlled so that the fineness modulus of at least nine (9) out of ten (10) test

samples of fine aggregate as delivered to the mixer shall not vary by more than 0.20 from the average fineness modulus can be determined by dividing 100 the sum of the cumulative percentages retained on U.S. Standard Sieves Nos. 4, 8, 16, 50 and 100.

3. **RSB WORKS**

710.1 Reinforcing Steel

Reinforcing steel shall conform to the requirements of the following Specifications:

Deformed Billet-Steel Bars for Concrete Reinforcement	AASHTO M 31 (ASTM A 615/PNS 49)
Deformed Steel Wire for Concrete Reinforcement	AASHTO M 225 (ASTM A 496)
Welded Steel Wire Fabric for Concrete Reinforcement	AASHTO M 55 (ASTM A 185)
Cold-Drawn Steel Wire for Concrete Reinforcement	AASHTO M 32 (ASTM A 82)
Fabricated Steel Bar or Rod Mats for Concrete Reinforcement	AASHTO M 54 (ASTM A 184)
Welded Deformed Steel Wire Fabric of Concrete Reinforcement	AASHTO M 221 (ASTM A 497)
Plastic Coated Dowel Bars	AASHTO M 254 Type A
Low Alloy Steel Deformed Bars for Concrete Reinforcement	ASTM A 206

Bar reinforcement for concrete structures, except No. 2 bars shall be deformed in accordance with AASHTO M 42, M 31 and M 53 for Nos. 3 to 11.

Dowel and tie bars shall conform to the requirements of AASHTO M 31 (ASTM A 615/PNS 49) or AASHTO M 42 except that rail steel shall not be used for tie bars that are to be bent and restraightened during construction. Tie bars shall be deformed bars. Dowel bars shall be plain round bars. They shall be free from burring or other deformation restricting slippage in the concrete. Before delivery to the site of the work, a minimum of one half (1/2) the length of each dowel bar shall be painted with one coat of approved lead or tar paint.

The sleeves for dowel bars shall be metal of an approved design to cover 50 mm, plus or minus 6.3 mm of the dowel, with a closed end, and with a suitable stop to hold the end of the sleeve at least 25 mm from the end of the dowel bar. Sleeves shall be of such design that they do not collapse during construction.

Plastic coated dowel bar conforming to AASHTO M 254 may be used.

710.2 Wire Rope or Wire Cable

The wire rope or wire cable shall conform to the requirements of AASHTO M 30 for the specified diameter and strength class.

710.3 Prestressing Reinforcing Steel

Prestressing reinforcing steel shall conform to the requirements of the following Specifications:

High-tensile wire	AASHTO M 204 (ASTM A 421)
High-tensile wire strand or rope	AASHTO M 203 (ASTM A 416)

High-tensile alloy bars as follows:

High-tensile-strength alloy bars shall be cold stretched to a minimum of 895.7 MPa. The resultant physical properties shall be as follows:

Minimum ultimate tensile Strength	1000 MPa followed by stress relieving
Minimum yield strength, measured by the 0.7 percent extension under load method shall not be less than	895.7 MPa
Minimum modulus of elasticity	25,000,000
Minimum elongation in 20 bar diameters after rupture	4 percent
Diameters tolerance	+0.762 mm – 0.254 mm

If shown on the Plans, type 270 k strand shall be used, conforming to AASHTO M 203.

4. **FORMS & FALSEWORKS**

Item 414 - Forms and Falseworks

414.1 Description

This Item shall consist of designing, constructing and removing forms and falsework to temporarily support concrete, girders and other structural elements until the structure is completed to the point it can support itself.

414.2. Material Requirements

414.2.1 Formwork

The materials used for smooth form finish shall be plywood, tempered concrete-form-grade hardboard, metal, plastic, paper or other acceptable materials capable of producing the desired finish for form-facing materials. Form-facing materials shall produce a smooth, uniform texture on the concrete. Form-facing materials with raised grain, torn surfaces, worn edges, patches, dents, or

other defects that will impair the texture of concrete surfaces shall not be permitted. No form-facing material shall be specified for rough form finish.

414.2.1.1 Formwork Accessories

Formwork accessories that are partially or wholly embedded in concrete, including ties and hangers shall be commercially manufactured. The use of non fabricated wire form ties shall not be permitted. Where indicated in the Contract, use form ties with integral water barrier plates in walls.

414.2.1.2 Formwork Release Agents

Commercially manufactured formwork release agents shall be used to prevent formwork absorption of moisture, prevent bond with concrete, and not stain the concrete surfaces.

414.2.2 Falsework

The materials to be used in the falsework construction shall be of the quantity and quality necessary to withstand the stresses imposed; it may be timber or steel or a combination of both. The workmanship shall be of such quality that the falsework will support the loads imposed on it without excessive settlement or take-up beyond as shown on the falsework drawings.

5. ITEM 712 – STRUCTURAL METAL

712.1 Structural Steels

712.1.1 General

Steel shall be furnished according to the following Specifications. Unless otherwise specified, structural carbon rivet steel shall be furnished.

712.1.2 Structural Steel

a. Carbon Steel. Unless otherwise specified, structural carbon steel for riveted, bolted or welded construction shall conform to Structural Steel, AASHTO M 183.

b. Eyebars. Steel for eyebars shall be of a weldable grade. This grade includes structural steel conforming to: Structural Steel, AASHTO M 183; Highway Strength Low Alloy Structural Steel with 344.5 MPa Minimum Yield Point to 100 mm thick, AASHTO M 222 (ASTM A 588 with Supplementary Requirement SI of AASHTO M 222 mandatory).

712.1.3 High-Strength Low Alloy Structural Steel

It shall conform to: High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality, AASHTO M 223, High-Strength Low Alloy Structural Steel with 344.5 MPa Minimum Yield Point to 100 mm (4 inches) thick, AASHTO M 222.

712.1.4 High-Strength Low Alloy Structural Steel for Welding

It shall conform to:

a. High-Strength Low Columbium-Vanadium Steels of Structural Quality, Grade 50, AASHTO M 223 (ASTM A 572 with supplementary requirements S2 of AASHTO M 223 mandatory).

b. High-Strength Low Alloy Structural Steel with 344.5 MPa Minimum Yield Point to 100 mm thick, AASHTO M 222 (ASTM A 588 in Supplementary Requirement S1 of AASHTO M 222 mandatory).

712.1.5 High-Strength Structural Steel for Riveted or Bolted Construction

It shall conform to:
a. High-Strength Low Alloy Columbium – Vanadium Steel of Structural Quality, and AASHTO M 223.

b. High-Strength Low Alloy Structural Steel with 344.5 MPa Minimum Yield Point to 100mm (4 inches) thick, AASHTO M 222.

712.1.6 High-Yield Strength, Quenched and Tempered Alloy Steel Plate

It shall conform to:
a. High-Yield Strength, Quenched and Tempered Alloy Steel Plate, suitable for welding, ASTM A 514.
b. High-Strength Alloy Steel Plates, Quenched and Tempered for pressure vessels, ASTM A 517.
c. Quenched and tempered alloy steel structural shapes and seamless mechanical tubing meeting all the mechanical and chemical requirements of A 514/A 517 steel, except that the specified maximum tensile strength may be 964.6 MPa for structural shapes and 999.05 MPa for seamless mechanical tubing shall be considered as A 514/A 517 steel.

712.1.7 Structural Rivet Steel

It shall conform to Steel Structural Rivets AASHTO M 228, Grade I (ASTM A 502, Grade I).

712.1.8 High-Strength Structural Rivet Steel

It shall conform to Steel Structural Rivets AASHTO M 228, Grade 2 (ASTM A 502, Grade 2).

712.1.9 High-Strength Bolts

Bolts, nuts and circular washers shall conform to High-Strength Bolts for Structural Steel Joints, including Suitable Nuts and Plain Hardened Washer, AASHTO M 164 (ASTM A 325).

High-strength bolts for structural steel joints including suitable nuts and plain hardened washers shall conform to either AASHTO M 164 (ASTM A 325) or AASHTO M 253. When M 164 type 3 bolts are specified, they along with suitable nuts and washers shall have an atmospheric corrosion resistance approximately two times that of carbon steel with copper.

Bolts and nuts manufactured to AASHTO M 164 (ASTM A 325) are identified by proper marking as specified on the top of the bolt heads and on one face of the nuts for three different types.

Bolts manufactured to AASHTO M 253 shall be identified by marking on the top of the head with the symbol A 490 and the nuts shall be marked on one face with the legend “2H” or “DH”.

Bolt and nut dimensions shall conform to the dimensions shown in Table 712.1 and to the requirements for Heavy Hexagon Structural Bolts and for Heavy Semi-Finished Hexagon Nuts given in ANSI Standard B 18.2.1 and B 18.2.2, respectively.

Circular washers shall be flat and smooth and their nominal dimensions shall conform to the dimensions given in Table 712.2 except that for lock pin and collar fasteners, flat washers need not be used, unless slotted or oversized holes are specified.

Bevelled washers for American Standard Beams and Channels or other sloping faces shall be required and shall be square or rectangular, tapered in thickness, and conformed to the dimensions given in Table 712.2.

When necessary, washer may be clipped on one side to a point not closer than 0.875 (7/8) of the bolt diameter from the center of the washer.

Other fasteners or fasteners assemblies which meet the Materials, Manufacturing, and Chemical Composition requirements of AASHTO M 164 (ASTM A 325) or AASHTO M 253 and the Mechanical Property requirements of the same specification in full-size tests, and have body diameter and bearing areas under the head and nut, or other equivalent, not less than those provided by a bolt and nut of the same nominal dimensions prescribed in the previous paragraph, may be used. Such alternate fasteners may differ in other dimensions from those of the specified bolts and nuts. Their installation procedure may differ from those specified in AASHTO Bridge Specification. Article 2.10.20 (D) and their inspection may differ from that specified in Article 2.10.20 (E). When a different installation procedure or inspection is used, it shall be detailed in a supplemental specification applying to the alternate fastener and that specification must be approved by the Engineer.

Subject to the approval of the Engineer, high strength steel lock-pin and collar fasteners may be used as an alternate for high strength bolts or rivets as shown on the Plans. The shank and head of the high strength steel lock-pin and collar fasteners shall meet the requirements of the preceding paragraph. Each fastener shall provide a solid shank body of sufficient diameter to provide tensile and shear strength equivalent to or greater than the bolt or rivet specified, shall have a cold forged head on one end, of type and dimensions as approved by the Engineer, a shank length suitable for material thickness fastened, locking grooves, break neck groove and pull grooves (all annular grooves) on the opposite end. Each fastener shall provide a steel locking collar of proper size for shank diameter used which by means of suitable installation tools, is cold swaged into the locking grooves forming a head for the grooved end of the fastener after the pull groove section has been removed. The steel locking collar shall be a standard product of an established manufacturer of lock-pin and collar fasteners, as approved by the Engineer.

712.1.10 Copper Bearing Steels

When copper bearing steel is specified, the steel shall contain not less than 0.2 percent of copper.

712.2 Forgings

Steel forgings shall conform to the specifications for Steel Forgings, Carbon and Alloy, for General Industrial Use, AASHTO M 102, (ASTM A 668, Classes C, D, F & G).

712.3 Pins and Rollers

Pins and rollers more than 228.6 mm in diameter shall be annealed carbon-steel forgings conforming to AASHTO M 102, Class C1.

Pins and rollers 228.6 mm or less in diameter shall be either annealed carbon-steel forgings conforming to AASHTO M 102 (ASTM A 668), Class C1 or cold finished carbon-steel shafting conforming to AASHTO M 169, grade 1016 to 1030 (ASTM A 108) inclusive, with a minimum Rockwell Scale B Hardness of 85. Material not meeting the specifications for hardness maybe accepted provided it develops a tensile strength of 482.3 MPa and a yield point of 248.04 MPa.

Threads for pins shall conform to the ANSI B1.1 Coarse Thread Series, Class 2A. Pin ends having a diameter of 35mm or more shall be threaded (12 threads to every 5 cm).

Table 712.1 – Nominal Bolt and Nut Dimensions

Nominal Bolt Size (Diameter) mm	Heavy Hexagon Structural Bolts Dimensions in mm			Heavy Semi-Finished Hexagonal Nuts Dimensions in mm	
	Width of Head Across Flats	Height of Head	Thread Length	Width Across Flats	Height
12	21	7	25	21	12
15	26	9	31	26	15
18	31	11	34	31	18
21	35	13	37	35	21
25	40	15	43	40	24
28	45	17	50	45	27
31	50	19	50	50	30
34	54	21	56	54	33
37	59	23	56	59	36

Table 712.2 – Nominal Washer Dimensions[a]

Circular Washer					Square or Rectangular Bevelled Washers for American Standard Beams and Channels		
Bolt Size Diameter mm	Nominal Outside Diameter[b] mm	Nominal Diameter of Hole mm	Thickness		Minimum Side Dimension	Mean Thickness mm	Slope or Taper in Thickness mm
			Minimum mm	Maximum mm			
12	26	13	2	4	43	7	40
15	32	16	3	4	43	7	40
19	36	20	3	4	43	7	40
22	43	23	3	4	43	7	40
25	50	26	3	4	43	7	40
28	56	31	3	4	43	7	40
31	62	34	3	4	43	7	40
34	68	37	3	4	43	7	40
37	75	40	3	4	43	7	40
43	84	46	[c]4	[c]7	-	-	-
50	93	53	4	7	-	-	-
Over 50 to 100 incl.	2D-12	D+3	[d]6	[d]8	-	-	-

a Dimensions in mm
b May be exceeded by 6 mm
c 4 mm nominal
d 6 mm nominal

712.4 Castings

Castings shall conform to the requirements of the following Specifications:
Steel castings for Highway Bridges-AASHTO M 192, Class 70 shall be furnished unless otherwise specified.

Chromium Alloy Steel Castings-AASHTO M 163 (ASTM A 296), Grade CA-15 shall be furnished unless otherwise specified.

Gray Iron Castings – AASHTO M 105 Class No. 30 shall be furnished unless otherwise specified. Iron castings shall be true to pattern in form and dimensions, free from pouring faults, sponginess, cracks, blow holes, and other defects in position affecting their strength and value for the service intended. Casting shall be boldly filleted at angles and the arises shall be sharp and perfect. All castings must be sandblasted or otherwise effectively cleaned of seals and sand so as to present a smooth, clean and uniform surface.

Malleable Castings – ASTM A 47. Grade No. 35018 shall be furnished unless otherwise specified. The requirements for workmanship, finishing, and cleaning shall be the same as above for gray iron castings.

712.5 Steel Grid Floors

All steel for grid floors shall conform to the requirements of AASHTO M 183 or AASHTO M 222. Steel grid floors can be weathering steel, galvanized or painted. Unless the floors are of weathering steel or galvanized, the material shall have a minimum copper content of 0.2%.
Unless painting of floors is specified in the Special Provisions, open type floors shall be galvanized.

712.6 Steel Pipe

It shall conform to the requirements of ASTM A 53, ASTM A 120. AASHTO M 222 and ASTM A 618, as shown on the Plans or in the Special Provisions.
Standard weight pipe shall be furnished unless otherwise shown on the Plans or in the Special Provisions.

712.7 Galvanized Metal

When galvanized structural steel shapes, plates, bars and their products are specified, they shall be galvanized in accordance with the requirements of AASHTO M 111.

712.8 Sheet Lead

It shall conform to the requirements of ASTM B 29 for common desilverized lead. The sheets shall be of uniform thickness and shall be free from cracks, seams, slivers, scale and other defects. Unless otherwise specified, lead sheets shall be 3.8 mm in thickness with a permissible tolerance of 0.75 mm plus or minus.

712.9 Welded Stud Shear Connectors

Shear connector studs shall conform to the requirements of AASHTO M 169 (ASTM A 108) for cold finished carbon steel bars and shafting, cold drawn bar, Grades 1015, 1018 or 1020, either semi-skilled or fully-skilled. If flux retaining caps are used, the steel for the caps shall be of a low carbon grade suitable for welding and shall comply with ASTM A 109 for cold rolled carbon steel strip.

Tensile properties as determined by tests of bar stock after drawing or of finished studs shall conform to the following requirements:

Tensile strength (minimum)	413.4 MPa
Yield strength* (minimum)	344.5 MPa
Elongation (minimum)	20 percent in 50 mm
Reduction in area (minimum)	50 percent

* As determined by 0.2 percent offset method.

Tensile properties shall be determined in accordance with applicable sections of ASTM A 370 for mechanical testing of steel products. Tensile tests of finished studs shall be made on studs welded to test plates using a test fixture with dimensions similar to those shown in Table 712.3.

If fracture occurs outside the middle half of the gage length, the test shall be repeated.

Finished studs shall be of uniform quality and conditions, free from injurious laps, fins, seams, cracks, twists, bends or other injurious defects. Finish shall be produced by cold drawing, cold rolling or machining.

The studs shall conform to the dimensions given in Table 712.3.

The Contractor shall furnish the manufacturer's certification that the studs as delivered are in accordance with the material requirements of this Item. Certified copies of in-plant quality control test reports shall be furnished to the Engineer upon request.

Table 712.3 – Welded Stud Shear Connector
Standard Dimensions and Tolerances mm

Shank		Head	
Diameter (c)	Length* (L)	Diameter (H)	Thickness (T)
19.05 + 0.00 - 0.381	101.6 + 1.575 – 3.175	31.75 ± 0.40	9.53 min.
22.23 + 0.000 - 0.381	101.6 + 1.575 – 3.175	34.93 ± 0.40	9.53 min.

* Length includes thickness of head. Standard lengths is 101.6 mm but other lengths may be obtained by special order.

6. ITEM 1014 - PREPAINTED METAL SHEETS

1014.1 Description

This item shall consist of furnishing all prepainted metal sheet materials, tools and equipment, plant including labor required in undertaking the proper installation complete as shown on the Plans and in accordance with this Specification.

1014.2 Material Requirements

All prepainted metal sheet and roofing accessories shall be oven baked painted true to profiles indicated on the Plans as per approval of the Engineer

1014.2.1 Prepainted Roofing Sheets

Prepainted roofing sheets shall be fabricated from cold rolled galvanized iron sheets specially tempered steel for extra strength and durability. It shall conform to the material requirements defined in PNS 67:2014 Hot-dip Metallic-Coated Steel Sheets for Roofing - Specification. Profile section in identifying the architectural moulded rib to be used is as follows: Regular corrugated, Quad-rib, Tri-wave, Rib-wide, Twin-rib, and others. Desired

color shall be subject to the approval of the Architect/Engineer. Gutters, Valleys, Flashings Hip and Ridge roll shall be fabricated from gauge 24 (0.600 mm thick) cold-rolled plain galvanized iron sheets specially tempered steel. Profile section shall be as indicated on the Plans. Fastening hardware shall be of galvanized iron straps, rivets or]-bolts. G.!. straps are of 0.500 mm thick x 16 mm wide x 267 mm long (gauge 26 x 5/8" x 10-1/2") and standard rivets .

Base metal thickness shall correspond to the following gauge designation available locally as follows:

1.

Base Metal Thickness	Designated Gauge
0.400 mm thick	Gauge 28
0.500 mm thick	Gauge 26
0.600 mm thick	Gauge 24
0.800 mm thick	Gauge 22

2.

Protective coatings	Thickness
1. Zinc *(minimum)*	14 microns (*100 gm/m²*)
2. Paint coatings	
Top coat	15.20 microns
Bottom coat	6.8 microns

3.

Base Metal Thickness	Overall thickness with protective coats
0.400 mm	0.427-451 mm
0.500 mm	0.532-551 mm
0.600 mm	0.638-651 mm

4. Length of roofing sheets – available in cut to length long span length up to 18.29 meters

5. Special length and thickness are available by arrangements.

7. **PROJECT BILLBOARD**

2.2.3 For infrastructure projects, a tarpaulin signboard must be suitably framed for outdoor display at the project location, and shall be posted as soon as the award has been made. The design and format of the tarpaulin, as shown in Annex "A," shall have the following specifications:

Tarpaulin, white, 8 ft x 8 ft	Tarpaulin, white, **4** ft x 8 ft
Resolution: 70 dpi	Resolution: 70 dpi
Font : Helvetica	Font : Helvetica
Font Size: Main Information – 3"	Font Size: Main Information – 3"
Sub-Information -1"	Sub-Information -1"
Font Color: Black	Font Color: Black

B.2 MEDICAL ROOM AND FIRST AID FACILITIES

1. The Contractor shall provide and maintain throughout the duration of the Contract a medical room together with all necessary supplies to be sited in the Contractor's main area. The medical room shall be waterproof; it could be a building or room designated and used exclusively for the purpose. It shall have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.

2. The Contractor shall employ permanently on the site a fully trained Medical Aide, who shall be engaged solely on medical duties.

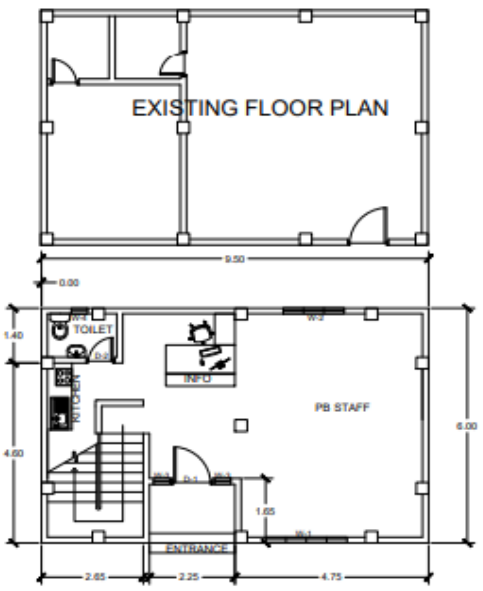
3. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations suitable notices in the Site.

4. The Contractor's arrangement to comply with this Section shall be subject to the approval of the Engineer and also to the approval of any qualified Medical Officer designated by the Government to supervise medical arrangements on the Site.

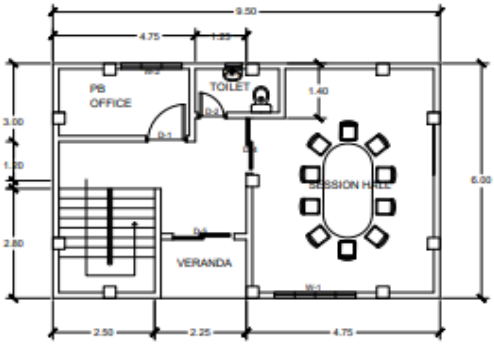
Section VII. Drawings

PERSPECTIVE VIEW
SCALE 1 : 100 M.

PROJECT TITLE:	PROJECT CODE	PREPARED BY:	APPROVED BY:		SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 0 AIP REF. CODE 30.4.7-G	REMANDO V. MALOGAN CAD BY: BRYAN H. PALMA	NELCO PAUL P. COQUIA Architect. / EnP	JOHN SILVESTER A. TAPIA Civil Engineer	ARCHITECTURAL PLAN	1/5
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 2020/2021	MUNICIPAL PLANNING & DEVELOPMENT OFFICE		MUNICIPAL ENGINEERING OFFICE		

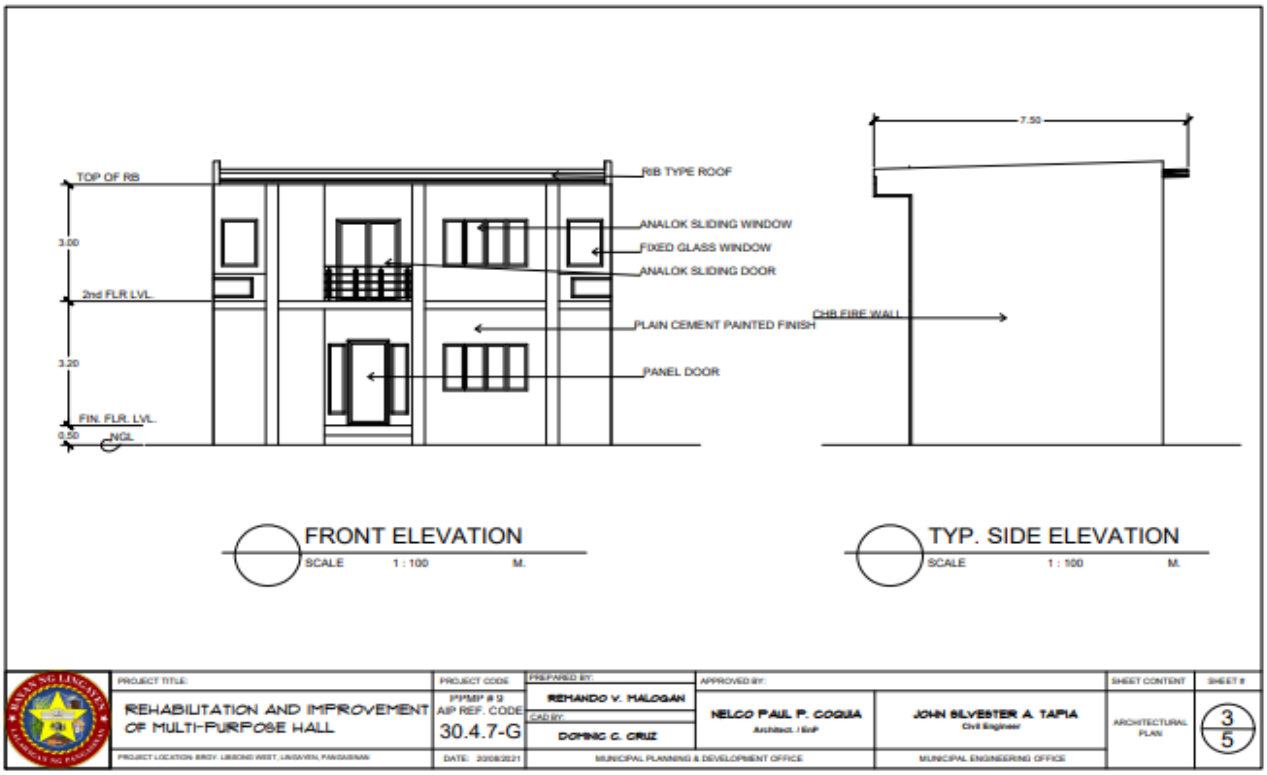


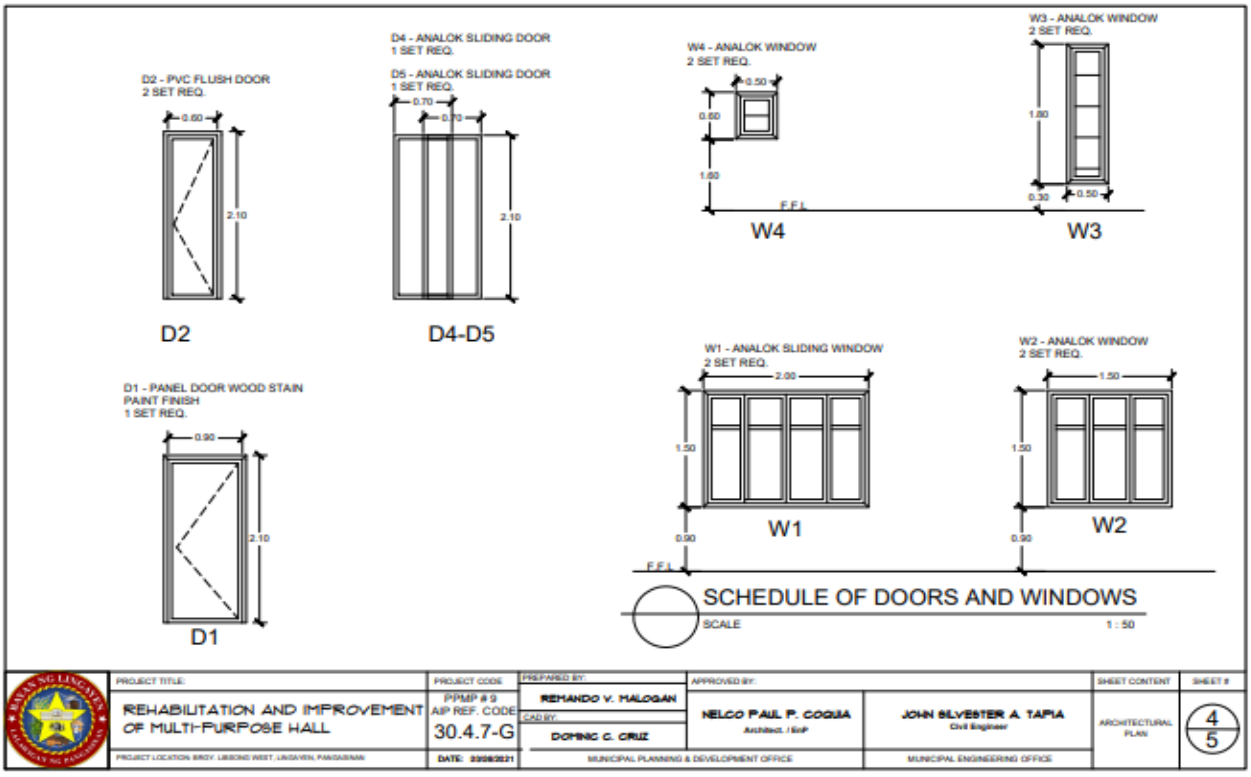
GROUND FLOOR PLAN
SCALE 1 : 100 M.

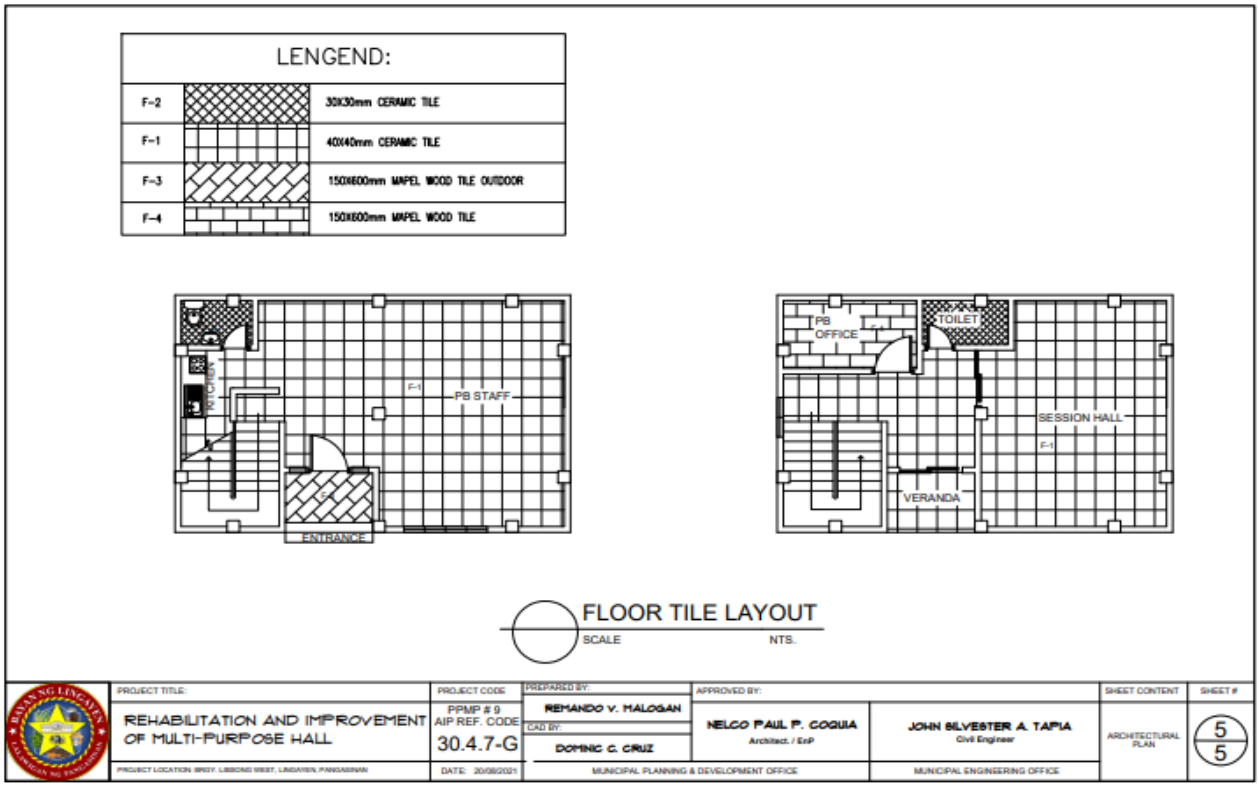


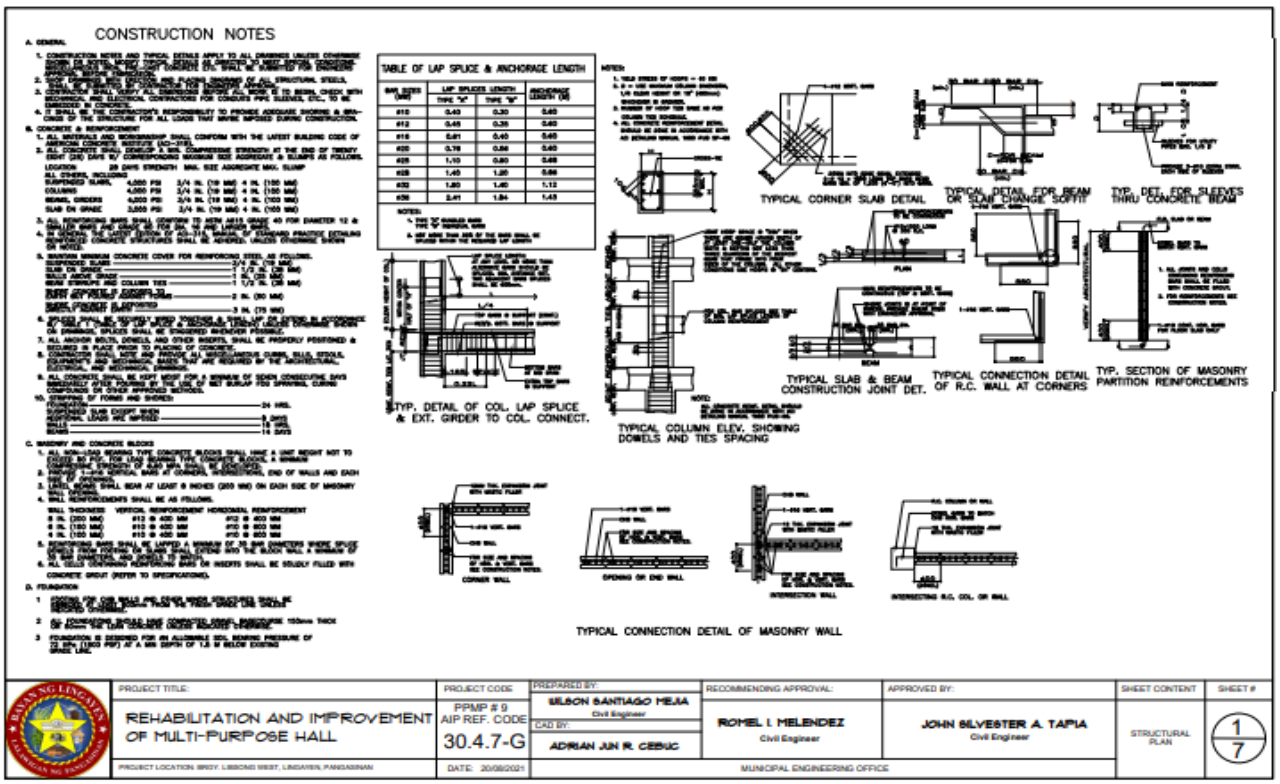
SECOND FLOOR PLAN
SCALE 1 : 100 M.

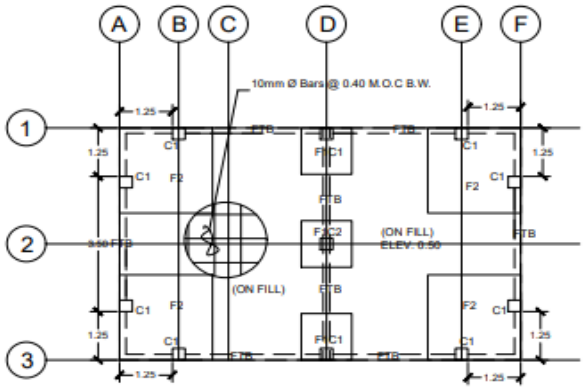
PROJECT TITLE:	PROJECT CODE	PREPARED BY:	APPROVED BY:		SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 0 AIP REF. CODE 30.4.7-G	REMANDO V. MALOGAN CAD BY: DOMING C. CRUZ	NELCO PAUL P. COQUIA Architect. / EnP	JOHN SILVESTER A. TAPIA Civil Engineer	ARCHITECTURAL PLAN	2/5
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 2020/2021	MUNICIPAL PLANNING & DEVELOPMENT OFFICE		MUNICIPAL ENGINEERING OFFICE		


TOP OF RB
3.00
2nd FLR LVL.
3.20
FIN. FLR. LVL.
0.50
NGL
RIB TYPE ROOF
ANALOK SLIDING WINDOW
FIXED GLASS WINDOW
ANALOK SLIDING DOOR
PLAIN CEMENT PAINTED FINISH
PANEL DOOR
7.50
CHB FIRE WALL
FRONT ELEVATION
SCALE 1 : 100 M.
TYP. SIDE ELEVATION
SCALE 1 : 100 M.
PROJECT TITLE:
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN
PROJECT CODE
PPMP # 9
AIP REF. CODE
30.4.7-G
DATE: 22/08/2021
PREPARED BY:
REMANDO V. MALOGAN
CAD BY:
DOMINIC C. CRUZ
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
APPROVED BY:
NELCO PAUL P. COQUIA
Architect. / EnP
JOHN SILVESTER A. TAPIA
Civil Engineer
MUNICIPAL ENGINEERING OFFICE
SHEET CONTENT
ARCHITECTURAL PLAN
SHEET #
3
5


D2 - PVC FLUSH DOOR
2 SET REQ.
0.60
2.10
D2
D4 - ANALOK SLIDING DOOR
1 SET REQ.
D5 - ANALOK SLIDING DOOR
1 SET REQ.
0.70
0.70
2.10
D4-D5
W4 - ANALOK WINDOW
2 SET REQ.
0.50
0.60
1.00
F.F.L
W4
W3 - ANALOK WINDOW
2 SET REQ.
1.00
0.30
0.50
W3
D1 - PANEL DOOR WOOD STAIN
PAINT FINISH
1 SET REQ.
0.90
2.10
D1
W1 - ANALOK SLIDING WINDOW
2 SET REQ.
2.00
1.50
0.90
W1
W2 - ANALOK WINDOW
2 SET REQ.
1.50
1.50
0.90
W2
F.F.L
SCHEDULE OF DOORS AND WINDOWS
SCALE 1 : 50
PROJECT TITLE:
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN
PROJECT CODE
PPMP # 9
AIP REF. CODE
30.4.7-G
DATE: 22/08/2021
PREPARED BY:
REMANDO V. MALOGAN
CAD BY:
DOMINIC C. CRUZ
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
APPROVED BY:
NELCO PAUL P. COQUIA
Architect. / EnP
JOHN SILVESTER A. TAPIA
Civil Engineer
MUNICIPAL ENGINEERING OFFICE
SHEET CONTENT
ARCHITECTURAL PLAN
SHEET #
4
5


LENGEND:
F-2
30X30mm CERAMIC TILE
F-1
40X40mm CERAMIC TILE
F-3
150X600mm MAPEL WOOD TILE OUTDOOR
F-4
150X600mm MAPEL WOOD TILE
KITCHEN
F-1
PB STAFF
F-2
ENTRANCE
PB OFFICE
TOILET
SESSION HALL
F-1
VERANDA
FLOOR TILE LAYOUT
SCALE NTS.
PROJECT TITLE:
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN
PROJECT CODE
PPMP # 9
AIP REF. CODE
30.4.7-G
DATE: 20/08/2021
PREPARED BY:
REMANDO V. MALOGAN
CAD BY:
DOMINIC C. CRUZ
APPROVED BY:
NELCO PAUL P. COQUIA
Architect. / EnP
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
JOHN SILVESTER A. TAPIA
Civil Engineer
MUNICIPAL ENGINEERING OFFICE
SHEET CONTENT
ARCHITECTURAL PLAN
SHEET #
5
5


CONSTRUCTION NOTES
TABLE OF LAP SPLICE & ANCHORAGE LENGTH
TYPICAL CORNER SLAB DETAIL
TYPICAL DETAIL FOR BEAM OR SLAB CHANGE SOFFIT
TYP. DET. FOR SLEEVES THRU CONCRETE BEAM
TYP. DETAIL OF COL. LAP SPLICE & EXT. GIRDER TO COL. CONNECT.
TYPICAL SLAB & BEAM CONSTRUCTION JOINT DET.
TYPICAL CONNECTION DETAIL OF R.C. WALL AT CORNERS
TYP. SECTION OF MASONRY PARTITION REINFORCEMENTS
TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING
TYPICAL CONNECTION DETAIL OF MASONRY WALL
PROJECT TITLE:
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN
PROJECT CODE
PPMP # 9
AIP REF. CODE
30.4.7-G
DATE: 20/08/2021
PREPARED BY:
WILSON SANTIAGO MEJIA
Civil Engineer
CAD BY:
ADRIAN JUN R. CEBUC
RECOMMENDING APPROVAL:
ROMEL I. MELENDEZ
Civil Engineer
APPROVED BY:
JOHN SILVESTER A. TAPIA
Civil Engineer
MUNICIPAL ENGINEERING OFFICE
SHEET CONTENT
STRUCTURAL PLAN
SHEET #
1
7



FOUNDATION PLAN
SCALE 1 : 100

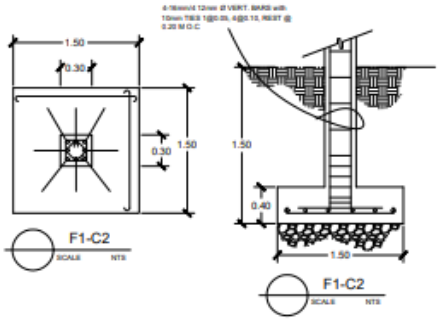
	PROJECT TITLE:	PROJECT CODE:	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
	REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	2/7
	PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				

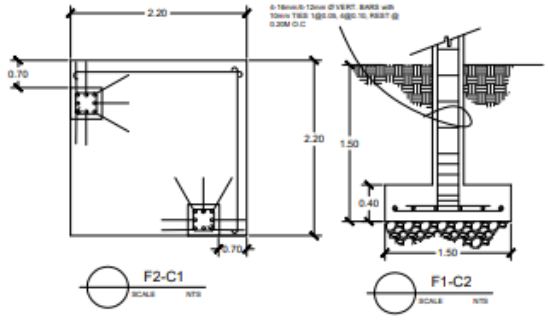
FOOTING SCHEDULE

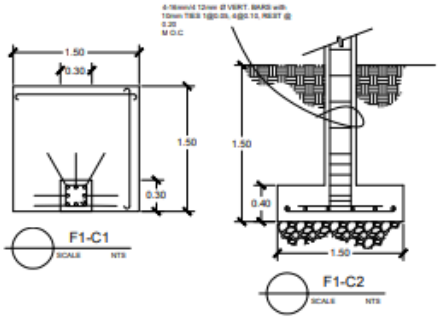
FOOTING DESIGNATION	DIMENSION LENGTH x WIDTH	THICKNESS	REINFORCEMENT BAR
F1	1.50 X 1.50	0.40	6 – 16mm BOTHWAYS
F2	2.20 X 2.20	0.40	11 – 16mm BOTHWAYS

COLUMN SCHEDULE

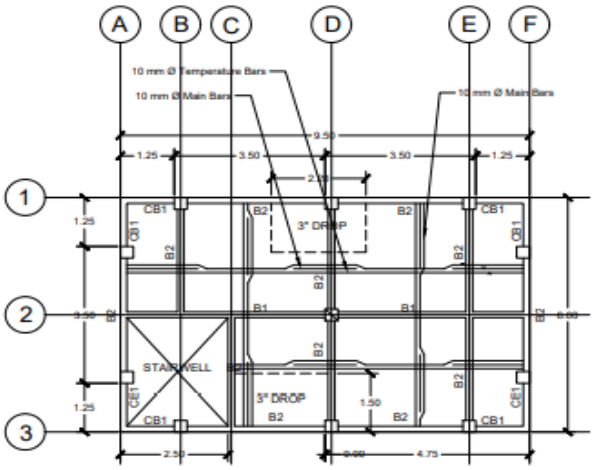
COLUMN DESIGNATION	DIMENSION LENGTH x WIDTH	VERTICAL BARS	REMARKS
C1	0.30 x 0.30	4–16mm, 4–12mm	Ground to Roof beam
C2	0.30 x 0.30	4–16mm, 4–12mm	Ground to Roof beam
TIES SPACE 1 @ 50MM, 4 @ 100MM, REST AT 200MM			



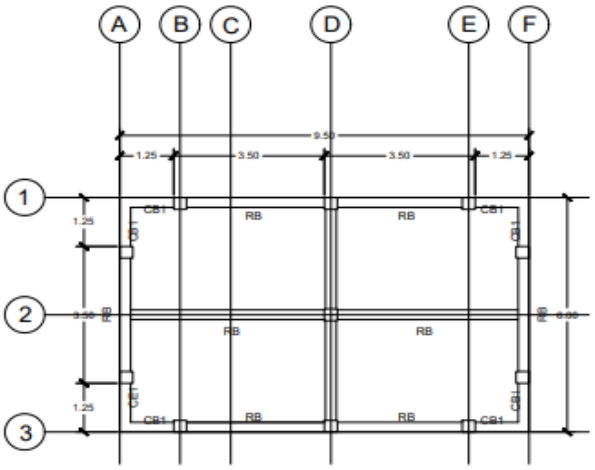




	PROJECT TITLE:	PROJECT CODE:	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
	REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	3/7
	PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				



SECOND FLOOR BEAM PLAN
SCALE 1 : 100

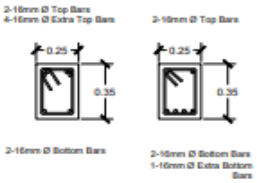


ROOF BEAM PLAN
SCALE 1 : 100

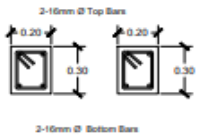
PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer; CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	4/7
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				

BEAM SCHEDULE

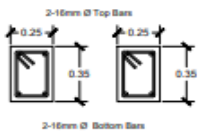
BEAM DESIGNATION	BEAM DIMENSION	● SUPPORT		● MIDSPAN	
		TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS
B-1	250 x 350	6 – 16mm	2 – 16mm	2 – 16mm	4 – 16mm
B-2	250 x 350	6 – 16mm	2 – 16mm	2 – 16mm	4 – 16mm
CB-1	250 x 350	2 – 16mm	2 – 16mm	2 – 16mm	2 – 16mm
RB	250 x 350	2 – 16mm	2 – 16mm	2 – 16mm	2 – 16mm
FTB	200 x 300	2 – 16mm	2 – 16mm	2 – 16mm	2 – 16mm
STIRRUPS SPACE 1 @ 50MM, 5 @ 100MM, REST AT 200MM					



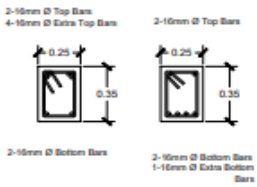
BEAM - 1 DETAILS
SCALE NTS



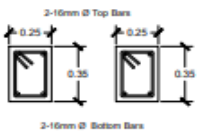
FOOTING TIE BEAM DETAILS
SCALE NTS



ROOF BEAM DETAILS
SCALE NTS

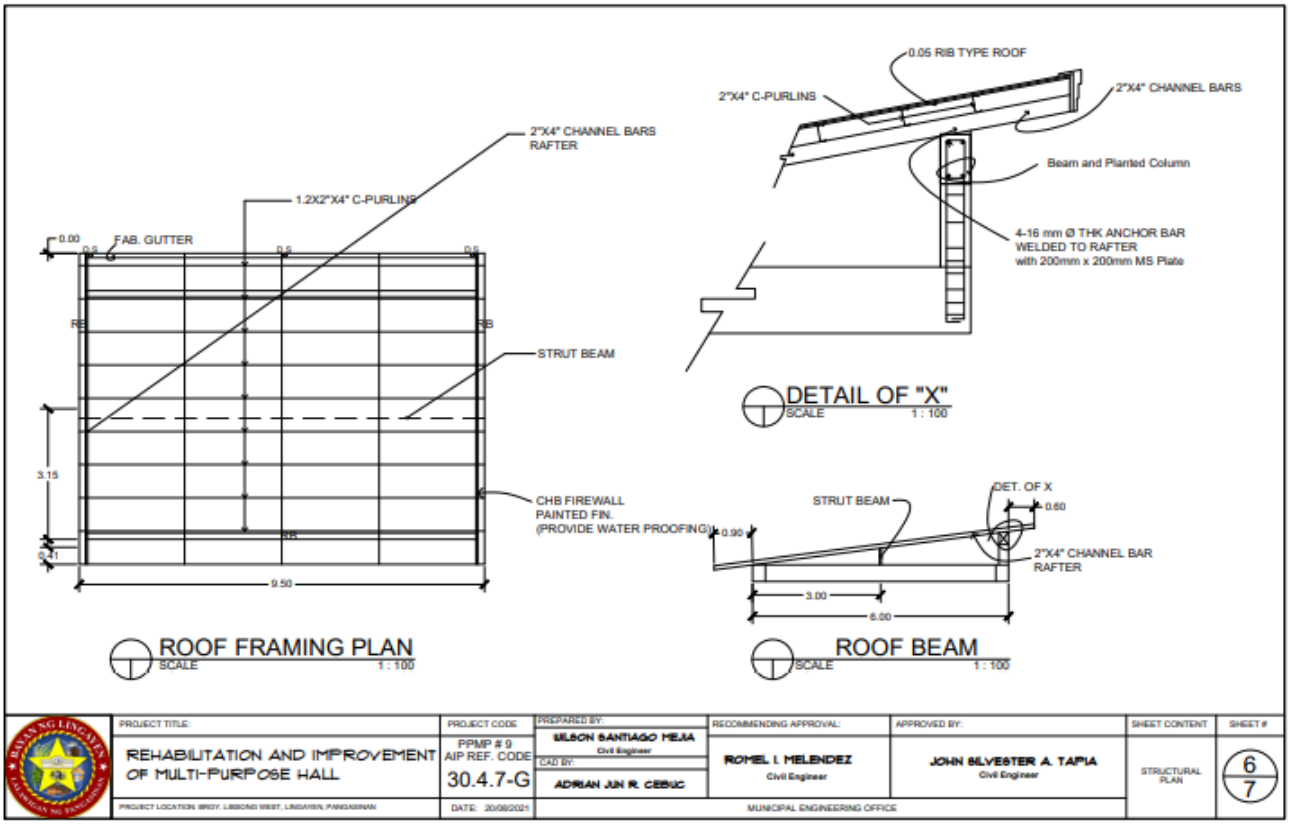


BEAM - 2 DETAILS
SCALE NTS

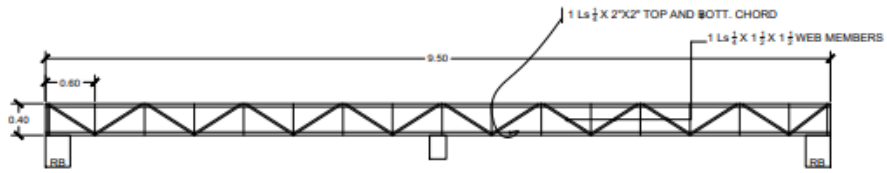


CANTILIVER BEAM DETAILS
SCALE NTS

PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer; CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	5/7
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				

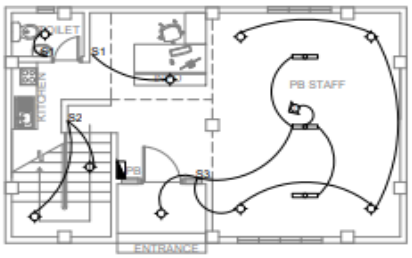


PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	6/7
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				



STRUT BEAM DETAILS
SCALE 1 : 50 M.

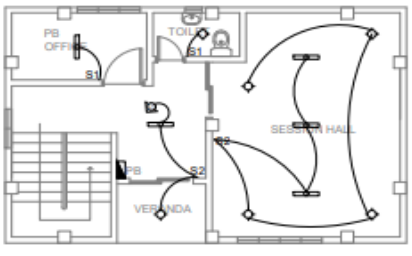
PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	WILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	STRUCTURAL PLAN	7/7
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				



LIGHTING LAYOUT

GROUND FLOOR PLAN

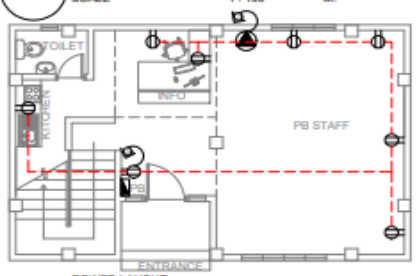
SCALE 1 : 100 M.



LIGHTING LAYOUT

SECOND FLOOR PLAN

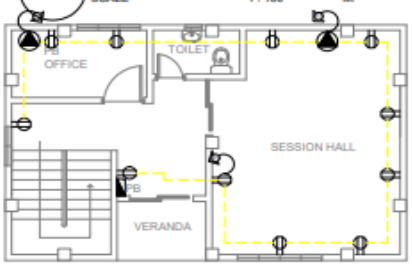
SCALE 1 : 100 M.



POWER LAYOUT

GROUND FLOOR PLAN

SCALE 1 : 100 M.

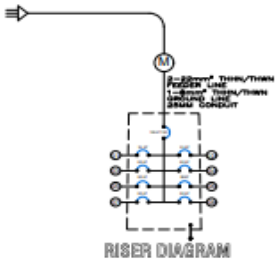


POWER LAYOUT

SECOND FLOOR PLAN

SCALE 1 : 100 M.

PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	ENGR. KEITH VINCENT A. JIMENEZ CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ Civil Engineer	JOHN SILVESTER A. TAPIA Civil Engineer	ELECTRICAL PLAN	1/2
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				



RISER DIAGRAM

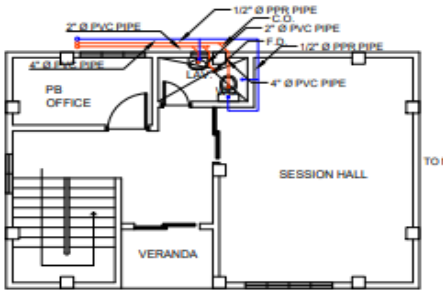
SCHEDULE OF LOAD

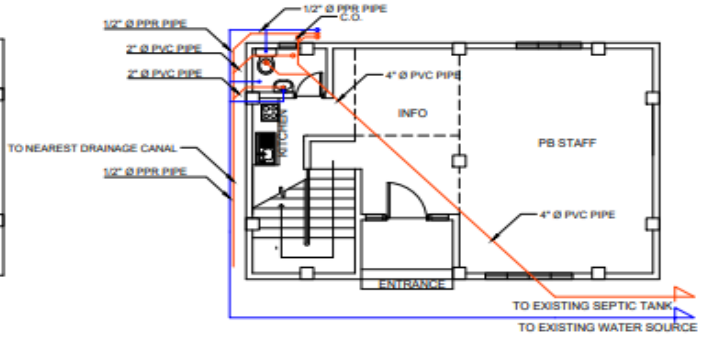
MAIN PANEL (GND Floor.)

CKT. NO.	LOAD DESCRIPTION	NO. OF OUTLET	WATTS	VOLTS	AMP.	CB. RATING	POLE	SIZE & DIAMETER OF CONDUIT
01	LIGHTING OUTLET	12	1200	230	5.21	15	2	2-3.5MM² THHN in 20 mm - PVC
02	LIGHTING OUTLET	11	1100	230	4.78	15	2	2-3.5MM² THHN in 20 mm - PVC
03	C.O.	8	1440	230	6.26	20	2	2-3.5MM² THHN in 20 mm - PVC
04	C.O.	11	1980	230	8.60	20	2	2-3.5MM² THHN in 20 mm - PVC
05	ACU	1	1500	230	6.52	30	2	2-5.5MM² THHN in 20 mm - PVC
06	ACU	1	1500	230	6.52	30	2	2-5.5MM² THHN in 20 mm - PVC
07	ACU	1	1500	230	6.52	30	2	2-5.5MM² THHN in 20 mm - PVC
08	Spare	1	1500	230	6.52	30	2	2-5.5MM² THHN in 20 mm - PVC
	TOTAL:	46	11720	230	50.93			

IFL = 50.93 @ DF 85%	WIRE SIZE: 2-22mm² THHN/THWN + 1-8.0mm²
IFL = 43.29 Amps	PROTECTION: 100AT,230VOLT,2 POLE,BOLT ON TYPE

PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	ENGR. KEITH VINCENT A. JIMENEZ CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ Civil Engineer	JOHN SILVESTER A. TAPIA Civil Engineer	ELECTRICAL PLAN	2/2
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				





SECOND FLOOR PLAN
WATER & SANITARY LAYOUT
SCALE 1:100

GROUND FLOOR PLAN
WATER & SANITARY LAYOUT
SCALE 1:100

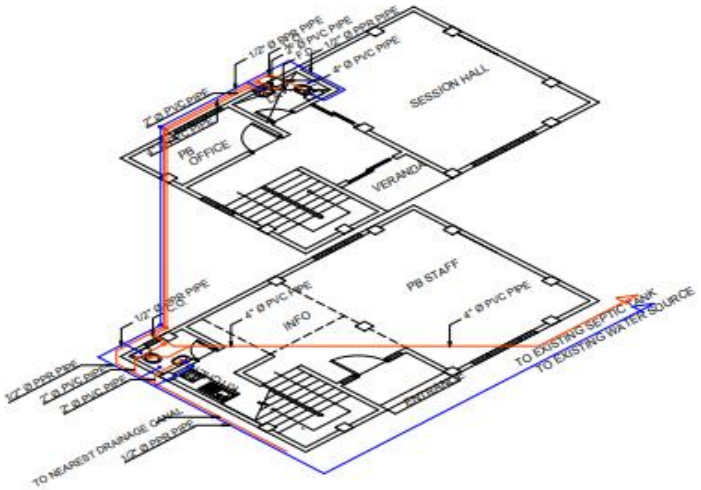
PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	NILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	PLUMBING PLAN	1/2
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				

PLUMBING NOTES:

1. ALL PLUMBING WORKS INCLUDED HERE-IN SHALL BE DONE IN ACCORDANCE TO THE REQUIREMENTS OF THE PHILIPPINE PLUMBING CODE & RULES ANDREGULATIONS OF THE MUNICIPALITY.
2. COORDINATE THE DRAWINGS W/ OTHER RELOCATED FIELDS. THE ENGINEER/MASTER PLUMBER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCRIPANCY FOUND HERE-IN.
3. PIPES SHALL BE INSTALLED AS INDICATED. ANY RELOCATION REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH THE PRIOR APPROVAL OF THE ENGINEER.
4. CONSULT THE ENGINEER/ MASTER PLUMBER FOR FURTHER VERIFICATION.

LEGEND :

WC	WATER CLOSET	SHO	SHOWER
LAV	LAVATORY	CO	CLEAN OUT
KS	KITCHEN SINK	ST	SEPTIC TANK
FD	FLOOR DRAIN	DS	DOWNSPOUT
CB	CATCH BASIN	VTR	VENT TRU ROOF
		———	SEWER LINE



ISOMETRIC VIEW
SCALE 1:100

PROJECT TITLE:	PROJECT CODE	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT	SHEET #
REHABILITATION AND IMPROVEMENT OF MULTI-PURPOSE HALL	PPMP # 9 AIP REF. CODE 30.4.7-G	NILSON SANTIAGO MEJIA, Civil Engineer CAD BY: ADRIAN JUN R. CEBUC	ROMEL I. MELENDEZ, Civil Engineer	JOHN SILVESTER A. TAPIA, Civil Engineer	PLUMBING PLAN	2/2
PROJECT LOCATION: BRGY. LIBSONG WEST, LINGAYEN, PANGASINAN	DATE: 20/08/2021	MUNICIPAL ENGINEERING OFFICE				

Section VIII. Bill of Quantities

Republic of the Philippines
Province of Pangasinan
Municipality of Lingayen

Bill of Quantities

Rehabilitation and Improvement of Multi Purpsoe Hall (Phase I) at Barangay Libsong West, Lingayen, Pangasinan					
Item No.	Description	Qty.	Unit	Unit Price (Pesos)	Amount (Pesos)
PART A.	EARTHWORKS				
I.	Excavation	39.17	Cu.m.	In words:Pesos	In words:Pesos
II.	Embankment	2.87	Cu.m.	In words:Pesos	In words:Pesos
PART B.	CONCRETING WORKS				
III.	Concreting Works	36.82	cu.m.	In words:Pesos	In words:Pesos
PART C.	FORMS AND FALSEWORKS				
IV.	Forms and Falseworks	254.28	Sq.m.	In words:Pesos	In words:Pesos
PART D.	REINFORCING STEEL BAR WORKS				
V.	RB Works	4,056.68	kg	In words:Pesos	In words:Pesos
PART E.	ROOF FRAMING WORKS				
VI.	Roof Framing Works	1.00	lot	In words:Pesos	In words:Pesos

PART F.	TINSMITHRY WORKS				
VII.	Tinsmithry Works	1.00	lot	In words:Pesos	In words:Pesos
PART G.	OTHER GENERAL REQUIREMENTS				
SPL- 1	Project Billboards	1.00	Lot	In words:Pesos	In words:Pesos
SPL-2	Construction Health and Safety	1.00	lot	In words:Pesos	In words:Pesos
TOTAL AMOUNT IN WORDS:					

Submitted by:

_____ Date: _____

Contractor

Section IX. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

or

☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;

and

☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;

and

☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules; **and**

☐ (h) Philippine Contractors Accreditation Board (PCAB) License;

or

Special PCAB License in case of Joint Ventures;

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

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

or

Original copy of Notarized Bid Securing Declaration; **and**

(j) Project Requirements, which shall include the following:

☐ a. Organizational chart for the contract to be bid;

☐ b. List of contractor's key personnel (*e.g.*, Project Manager, Project

Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data;

☐ c. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**

☐ (k) Original duly signed Omnibus Sworn Statement (OSS);
and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

☐ (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**

☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

Other documentary requirements under RA No. 9184

☐ (p) Original of duly signed Bid Prices in the Bill of Quantities; **and**

☐ (q) Duly accomplished Detailed Estimates Form, including a summary shee indicating the unit prices of construction materials, labor rates, and equipmen rentals used in coming up with the Bid; **and**

☐ (r) Cash Flow by Quarter.

Section XI. Bid Forms

Bid Form for the Procurement of Infrastructure Projects

[shall be submitted with the Bid]

BID FORM

Date : _____

To: [name and address of Procuring Entity]

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 a 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 the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines[12] 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/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity*].*

l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name:

_____

_____

Legal Capacity:

_____

_____

Signature:

_____

_____

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

Date: _____

Omnibus Sworn Statement (Revised)

[shall be submitted with the Bid]

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, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

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

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

10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this_____day of, 20_____at

_____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

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