

PHILIPPINE BIDDING DOCUMENTS

**Procurement of
INFRASTRUCTURE
PROJECTS**

Government of the Republic of the Philippines

***CONSTRUCTION OF SCHOOL
BUILDING COMPONENT FOR
THE INCREASE IN CARRYING
CAPACITY OF THE COLLEGE OF
MEDICINE (REBID)***

(ABC: Php 4,942,956.87)

***PhilGeps Reference No: 11783721
PR 24-11-575 INF (Rebid)***

Sixth Edition
July 2020

Preface

These Philippine Bidding Documents (PBDs) for the procurement of Infrastructure Projects (hereinafter referred to also as the "Works") through Competitive Bidding have been prepared by the Government of the Philippines for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the government, including government-owned and/or -controlled corporations, government financial institutions, state universities and colleges, local government units, and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

The PBDs are intended as a model for measurements (unit prices or unit rates in a bill of quantities) types of contract, which are the most common in Works contracting.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Works to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the "name of the Procuring Entity" and "address for bid submission," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.

E For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate instance of the Government Procurement Policy Board.

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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 compliance with the requirements of the bidding documents. Also referred to as *Proposal and Tender*. (2016 revised IRR, Section 5(c))

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

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

BIR – Bureau of Internal Revenue

BSP – Bangko Sentral ng Pilipinas

CDA – Cooperative Development Authority

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

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form issued 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.

GOC – 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, stationary, 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 tracking, bonding, 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(o))

LGU – Local Government Unit.

NFC – 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 L Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised ICR of RA No. 9184.

Apart from the essential steps listed in the Bidding Documents, the IB should also indicate the following:

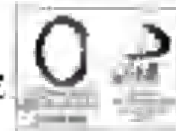
- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria;

The IB should be incorporated into the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE

Project: School Building Construction (ABC)
T.M. No. 2025-01-1879
Date: 03/17/2025



Invitation to Bid for PR 24-11-575 INF (Rebid) Construction of School Building Component for the Increase in Carrying Capacity of The College of Medicine (Rebid)

1. The *Western Mindanao State University*, through the GAA intends to apply the sum of *Four Million Nine Hundred Forty-Two Thousand Nine Hundred Fifty-Six Pesos and Eighty-Seven Centavos (Php 4,942,956.87)* being the Approved Budget for the Contract (ABC) to payments under the contract for *Construction of School Building Component for the Increase in Carrying Capacity of the College of Medicine (Rebid)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The *Western Mindanao State University* now invites bids for the above Procurement Project. Completion of the Works is required *within One Hundred Eighty (180) Calendar Days*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from *Western Mindanao State University* and inspect the Bidding Documents at the address given below from *8:00 AM - 5:00 PM Monday to Friday*.
5. A complete set of Bidding Documents may be acquired by interested bidders on *March 7, 2025 - April 3, 2025* from given address and website/s below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Five Thousand (5,000.00) Pesos*.
6. The *Western Mindanao State University* will hold a Pre-Bid Conference¹ on *March 17, 2025 1:50 PM at BAC Office, Ground Floor Executive Building, Western Mindanao State University, Balinasan, Zamboanga City* which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before *1:00 PM April 3, 2025*. Late bids shall not be accepted.
8. All bids must be accompanied by a bid security of at least two percent (2%) of the Approved Budget for the Contract (ABC) in the form of Cash, Cashier's Check or Manager's Check, or Bid Securing Declaration. Bids without Bid Security will not be considered.
9. Bid opening shall be on *April 3, 2025, 1:00 PM* at the given address below *BAC Office, Ground Floor Executive Building, Western Mindanao State University, Balinasan*.

¹ May be delayed in case the ABC is less than One Million Pesos (Php1,000,000) when the Procuring Entity may not hold a pre-bid conference.

Zamboanga City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The *Western Mindanao State University* 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 35.5 and 41 of the 2016 revised Implementing Rules and Regulations (IRR) of RA No. 9194, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

Mr. Joel C. Manaliling
Head Secretariat
Executive Building, BAC Office
Western Mindanao State University
Normal Road, Balintacan
Zamboanga City
Tel. No. (062)981-1771 loc. 100
Email: bacsecretariat@wmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: www.wmsu.edu.ph or PHILGaps website

March 7, 2025

FREDELINO M. SAN JUAN, Ph.D.
BAC Chairperson

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening, and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

This Procuring Entity, *Western Mindanao State University* invites Bids for the *PR 24-11-573 INF (Rebid) Construction of School Building Component for the Increase in Carrying Capacity of the College of Medicine (Rebid)*.

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

2. Funding Information

2.1. The GIP through the source of funding as indicated below for *GA4* in the amount of *Four Million Nine Hundred Forty-Two Thousand Nine Hundred Fifty-Six Pesos and Eighty-Seven Centavos (Php 4,942,956.87)*.

2.2. The source of funding is:

a. NGA, the General Appropriations Act or Special Appropriations

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; (d) 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 "T" 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 23.4.14 of the 2016 revised IRR of RA No. 9184.

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

5.3 For Foreign-funded Procurement, the Procuring Entity and the foreign government/foreign or international financing institution may agree on another track record requirement, as specified in the Bidding Document prepared for this purpose.

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

6. Origin of Associated Goods

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

7. Subcontracts

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

a. Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address *March 17, 2025 1:30 PM at BAC Office, Ground Floor Executive Building, Western Mindanao State University, Zamboanga City* and/or through videoconferencing/webcasting) as indicated in paragraph 6 of the IB.

9. Clarification and Amendment of Bidding Documents

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

10. Documents Comprising the Bid: Eligibility and Technical Components

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

10.2 If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPE.

Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

- 10.3. A valid PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the BDS.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the BDS.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the BDS.

11. Documents Comprising the Bid: Financial Component

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

12. Alternative Bids

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

13. Bid Prices

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

14. Bid and Payment Currencies

- 14.1. Bid prices may be quoted in the local currency or tradable currency accepted by the ESP 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 ESP reference rate bulletin on the day of its bid opening.
- 14.2. Payment of the contract price shall be made in:
 - a. Philippine Pesos.

15. Bid Security

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the BDS, which shall be not less than the percentage of the ABC in accordance with the schedule in the BDS.
- 15.2. The Bid and bid security shall be valid at least 120 calendar days from the Opening of Bids. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

16. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission to the given website or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

17. Deadline for Submission of Bids

The Bidders shall submit on or before *April 3, 2025, 1:00 PM* at its physical address at the *BAC Office Ground Floor Executive Building, Western Mindanao State University, Balicasag, Zamboanga City*.

18. Opening and Preliminary Examination of Bids

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

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

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "passed" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.

- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the BDS shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the

lowest calculated cost to the Procuring Entity. Bid Security as required by ITC Clause 15 shall be submitted for each contract (lot) separately.

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

20. Post Qualification

Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the HAC 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 BBS.

21. Signing of the Contract

The documents required in Section 37.1 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the BBS.

Section III Bid Data Sheet

Notes on the Bid Data Sheet (BDS)

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail information, or requirements included in the IEB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding changes in the IEB and how to be prepared for each specific procurement:

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bid. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the IEB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the IEB as necessitated by the circumstances of the specific procurement, must also be incorporated.

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: <i>None – As provided for in Section 21.4.2.4</i>																																	
7.1	<i>Not Applicable</i>																																	
10.3	<i>[Specify if another Contractor license/permit is required.]</i>																																	
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Key Personnel</u></th> <th style="text-align: center;"><u>General Experience</u></th> <th style="text-align: center;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td><i>Licensed Civil Engineer</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Materials Engineer</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Construction Foreman</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Carpenter</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Spewman</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Tinsmith</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Mason</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Plumber</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Electrician</i></td> <td style="text-align: center;"><i>3 years</i></td> <td style="text-align: center;"><i>3 years</i></td> </tr> <tr> <td><i>Safety Officer</i></td> <td colspan="2" style="text-align: center;"><i>Certification issued by the Department of Labor and Employment (DOLE).</i></td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	<i>Licensed Civil Engineer</i>	<i>3 years</i>	<i>3 years</i>	<i>Materials Engineer</i>	<i>3 years</i>	<i>3 years</i>	<i>Construction Foreman</i>	<i>3 years</i>	<i>3 years</i>	<i>Carpenter</i>	<i>3 years</i>	<i>3 years</i>	<i>Spewman</i>	<i>3 years</i>	<i>3 years</i>	<i>Tinsmith</i>	<i>3 years</i>	<i>3 years</i>	<i>Mason</i>	<i>3 years</i>	<i>3 years</i>	<i>Plumber</i>	<i>3 years</i>	<i>3 years</i>	<i>Electrician</i>	<i>3 years</i>	<i>3 years</i>	<i>Safety Officer</i>	<i>Certification issued by the Department of Labor and Employment (DOLE).</i>	
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<i>Carpenter</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Spewman</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Tinsmith</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Mason</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Plumber</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Electrician</i>	<i>3 years</i>	<i>3 years</i>																																
<i>Safety Officer</i>	<i>Certification issued by the Department of Labor and Employment (DOLE).</i>																																	
10.5	<p>The minimum major equipment requirements are the following:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><u>Equipment's</u></th> <th style="text-align: center;"><u>Quantity</u></th> </tr> </thead> <tbody> <tr> <td><i>Dump Truck</i></td> <td style="text-align: center;"><i>1</i></td> </tr> <tr> <td><i>Bagger Mixer</i></td> <td style="text-align: center;"><i>1</i></td> </tr> <tr> <td><i>Concrete Vibrator</i></td> <td style="text-align: center;"><i>2</i></td> </tr> <tr> <td><i>Bar Cutter</i></td> <td style="text-align: center;"><i>2</i></td> </tr> <tr> <td><i>Bar Bender</i></td> <td style="text-align: center;"><i>2</i></td> </tr> </tbody> </table>	<u>Equipment's</u>	<u>Quantity</u>	<i>Dump Truck</i>	<i>1</i>	<i>Bagger Mixer</i>	<i>1</i>	<i>Concrete Vibrator</i>	<i>2</i>	<i>Bar Cutter</i>	<i>2</i>	<i>Bar Bender</i>	<i>2</i>																					
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<i>Bar Bender</i>	<i>2</i>																																	
12	<i>No Further Instructions</i>																																	
15.1	<p>The bid security shall be in the form of a Bid Security Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> a. The amount of not less than two percent (2%) of ABC if bid security is in cash, cashier's/messenger's check, bank draft/guarantee or irrevocable letter of credit. 																																	
19.1	Partial bid is not allowed. Infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.																																	

20	<p>PE&B Licenses (Size Range: Small/B, License Category: C & D)</p> <p><i>All licenses and permits relevant to the Project and the corresponding law requiring it, e.g., Environmental Compliance Certificate, Certification that the project fits in with a protected area, etc.</i></p>
21	<p>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 EOLE, and other acceptable tools of project scheduling.</p>

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Contract, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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 CPPB 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 BBS, 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 R.A. 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 67.1.1 of the 2016 revised IRR, the Procuring Entity shall forfeit its performance security, subject its property(ies) to attachment or garnishment proceedings, and perpetually disqualify it from participating in any public bidding. All payables of the GOP in his favor shall be offset to recover the costs.

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

8. Liability of the Contractor

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

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

9. Termination for Other Causes

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

10. Dayworks

Subject to the guidelines on Variation Order in Annex "E" of the 2016 revised IRR of R.A. 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 updated 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

Notes on the Special Conditions of Contract

Similar to the BIDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Works procured. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
2	<i>No further instructions</i>
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor <u>One (1) day</u> after receipt of Notice to Proceed and Commence Work.
6	The site investigation reports are <i>(Not have the required site investigation reports.)</i>
7.2	<i>Permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., EPPH Standard Specifications), such as, but not limited to, steel-concrete bridges, viaducts, aircraft navigation 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.</i>
10	<u>1</u> 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 <u>Ten (10) days</u> of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is <u>Ten Percent (10%)</u> .
13	The amount of the advance payment is <u>15%</u> upon request subject to submission to and acceptance by the PE of a Performance Security
14	<i>No Further Instructions</i>
15.1	The date by which operating and maintenance manuals are required is <u>within 10 (Ten) days after the Notice to Proceed and Commence Work</u> The date by which "as built" drawings are required is <u>at least Thirty (30) calendar days from the receipt of Completion and Turn-Over</u>
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 <u>Ten percent (10 %)</u> .

Section VI. Specifications

Notes on Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying or conditioning their Bids. In the context of international competitive bidding, the specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of Bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the Works be new, unused, of the most recent or current models, and incorporate all recent improvements in design and materials unless provided otherwise in the Contract.

Samples of specifications from previous similar projects are useful in this respect. The use of metric units is mandatory. Most specifications are normally written specially by the Procuring Entity or its representative to suit the Works at hand. There is no standard set of Specifications for universal application in all sectors in all regions, but there are established principles and practices, which are reflected in these PBDs.

There are considerable advantages in standardizing General Specifications for repetitive Works in recognized public sectors, such as highways, ports, railways, urban housing, irrigation, and water supply, in the same country or region where similar conditions prevail. The General Specifications should cover all classes of workmanship, materials, and equipment commonly involved in construction, although not necessarily to be used in a particular Works Contract. Deletions or addenda should then adapt the General Specifications to the particular Works.

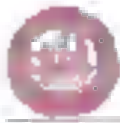
Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for goods, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that goods, materials, and workmanship that meet other authoritative standards, and which ensure substantially equal or higher quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the SCC.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's

Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

These notes are intended only as information for the Procuring Entity or the persons drafting the Bidding Documents. They should not be included in the final Bidding Documents.



TECHNICAL SPECIFICATIONS

(ADAPTED FROM OPM - STANDARD SPECIFICATIONS FOR PUBLIC WORK STRUCTURES)



ITEM 8.3 – PERMITS AND CLEARANCE

8.3.1 General Requirements

The contractor shall be responsible for securing all necessary permits and clearances related to the project, which shall include but not be limited to: hydrographic surveying permit, navigational permit, clearance clearance and other related permits from the Coast Guard, Department of Environment and Natural Resources (DENR), and other necessary permits from the Local Government Unit (LGU) among others, including payment of associated fees, as may be required by the LGU under applicable laws and rules and regulations of the project.

The contractor shall provide all necessary documents and information to the relevant agencies and departments of the government for application for Building Permit (under the Code of the Building Regulations and Regulations of the National Building Code, and as applicable to this and other laws, rules and regulations of the building site. The contractor shall be responsible for the building permit and shall be responsible for the payment of building permit fees.

ITEM 8.4 – PROJECT BILL BOARD / SIGNAGE

8.4.1 General Requirements

The Contractor shall install (1) Project Information Signs along the boundary and the end of the project or upon the installation of the structure.

The signs are installed pursuant to the Project Plan and Engineering Service the government of Cagayan de Oro to inform the public of the responsibilities of the project and to inform the public about the ongoing construction.

There shall be a sign board along the boundary and the end of the project. The sign board shall be installed in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board. The sign board shall be installed in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board. The sign board shall be installed in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board.

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The Contractor shall also install the sign board in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board. The sign board shall be installed in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board.

The Contractor shall also install the sign board in a standard size of 1.20m x 2.40m with 12.5% area for the installation of the sign board.



STEP 3-7 – OCCUPATIONAL SAFETY AND HEALTH

R.2.1 Description

The two years for implementation of construction safety in all stages of project construction through projects, activities, and maintenance, equipment, provision, and activities to the passage of the Degree.

R.2.2 Constructive Safety and Health Program (CSHP)

Being a constructible project and have a written job approval, Construction Safety and Health Program (CSHP) or approval in all construction-related activities, including plans and lists of requirements which shall comply with the minimum safety and health requirements as specified in the Construction Safety and Health Standards.

The CSHP and standards include the following:

1. Identification of the CSHP and health program responsible for the project and construction of CSHP
2. Levels policy, goals, and objectives in the construction site including identification of and control measures to controlling safety and health hazards.
3. Functions and functions in the CSHP.
4. Resources, including personnel responsible for training, including and training activities in health regarding the CSHP when the CSHP.
5. The manner of reporting of health hazards from the construction.

R.2.3 Constructive Safety and Health personnel

At the start of the project, the Contractor shall submit Constructive Safety and Health covered personnel of the following structure:

1. Project Manager/Project Engineer

The Contractor shall provide to the Project Manager/Project Engineer, who is located in the office, master list of activities for the achievement of CSHP and safety (Minimum 100% of the work).

2. Safety Officer/Supervisor

The General Contractor shall submit an approved safety officer who shall provide to a Safety Officer, who shall be present at the CSHP in various and activities for the work and management of the CSHP. Furthermore, minimum of activities in activities shall be identified in the number of activities and be available in accordance with the CSHP of the Department Safety and Health Standards (OSHA) and activities in accordance with the CSHP of the Department of Labor and Employment (DOLE) Construction (OSHA 300) (2009) and OSHA.

3. Health Personnel

The Contractor's health personnel shall be at least one (1) person who shall be present in the office, project, and site for reporting of the health status of workers (reference Section 2.2 Company Occupational Health Personnel and Policies or OSHA 300 11, 2009) and OSHA.



4. Utility Provisions

The Contractor shall provide a 10% bid or per cent Sales Provision, who and others and approved utility and design bearing the expenses

Service or Utility	Service or Utility Provider
Water and Sewer	
10-40-0000 10-20-0000 10-20-0000	City of Las Vegas City of Las Vegas City of Las Vegas
Gas - Commercial	
10-40-0000 10-20-0000 10-20-0000 10-20-0000 10-20-0000	City of Las Vegas City of Las Vegas City of Las Vegas City of Las Vegas City of Las Vegas
Electric	
10-20-0000	City of Las Vegas

4.1.1 Electrical, Control and Lighting

Contractor shall provide and maintain all the responsibility of E&P for projects submitted to the Construction Office for review and implementation.

4.1.2 Construction Safety and Health Training

The Contractor Safety and Health Training (OSHA) shall be a 10% bid or per cent provided by the Construction Office for review and implementation.

The Contractor shall provide training materials, safety and health training to all personnel present on the project. Training shall be a minimum of 20% per year for every full-time employee.

4.1.3 Construction Safety and Health Reports

The Contractor shall be required to submit a safety, health and environmental report to the Construction Office quarterly. The report shall include a listing of all safety and health committee meeting agendas, a summary of all project safety, health and environmental issues, and a summary of all safety and health incidents.

In case of any changes or incidents or issues arising in the course of the project and during the construction process, the contractor shall be required to submit a report to the Construction Office within 24 hours of the incident. The report shall include a summary of the incident, a description of the incident, and a description of the corrective actions taken. The report shall be submitted to the Construction Office at the time of the next meeting of the Construction Office.



8.1.7 Personal Protective Equipment (PPE) and Devices

No Corrosive and Toxic Materials shall be used in any process, task, activity and test. Substances which are highly flammable, poisonous, irritant and/or corrosive, especially by fumes of the hazardous waste process of treatment, should be an ecological or other mechanism filters or become capable of causing injury or discomfort to the worker or any person nearby through absorption, inhalation or contact agent.

All PPE and Devices shall have a compliance with the requirements of the OSHS and Health Code and shall be used in accordance with the standards of the Occupational Safety and Health Code (OSHC).

For the use of Corrosive PPE, for required tasks, PPE's for all workers shall be strictly enforced, safety glasses and safety shoes. Specially PPE's shall be provided to workers. It shall be to be to be of the corresponding task. PPE is to be used in active response. Workers shall be the development project and may be tested at all stages and the wearing PPE. Moreover, all other workers who are off or involved in allowed to be at a construction site must also wear appropriate PPE's.

Construction activities with gas emitting have significant activities if an activity causes noise or ground vibration or otherwise local PPE, provided in order that workers are to be responsible of job completion in the work, must be provided with safety harness and devices.

Systemic PPE / NCRs	Control ME	Notes
1. High top work boots (steel toe) for workers in the following: a. Safety boots b. Safety shoes	1. Safety boots 2. Safety shoes	1. High top work boots (steel toe) for workers in the following: a. Safety boots b. Safety shoes
2. Safety harness (full body) for workers in the following: a. Safety harness b. Safety harness (full body)	1. Safety harness 2. Safety harness (full body)	1. Safety harness (full body) for workers in the following: a. Safety harness b. Safety harness (full body)
3. Fall arrestor (full body)	1. Fall arrestor 2. Fall arrestor (full body)	1. Fall arrestor (full body) for workers in the following: a. Fall arrestor b. Fall arrestor (full body)
4. Safety equipment (safety net)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
5. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
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14. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
15. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
16. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
17. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
18. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
19. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)
20. Safety net (full body)	1. Safety net 2. Safety net (full body)	1. Safety net (full body) for workers in the following: a. Safety net b. Safety net (full body)



	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 5. Indicated on the drawing plan 	
7. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
8. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
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15. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
16. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
17. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
18. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
19. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.
20. How many are currently in use?	<ol style="list-style-type: none"> 1. Indicated on the drawing plan 2. Indicated on the drawing plan 3. Indicated on the drawing plan 4. Indicated on the drawing plan 	Current equipment is indicated on drawing plan for equipment currently in use.



1. Safety & Health Officer (SHO)	2. Safety & Health Committee (SHC)	3. Safety & Health Officer (SHO)
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6.1.1 Storage and Retrieval

Understand Safety Storage and Retrieval that is provided as appropriate to protect the worker and the public if the contents escape to the outside. Storage shall be provided in approved containers, it storage facilities and in the appropriate location to the appropriate construction to meet the minimum standard. The cost of such facilities shall be borne by the Office Head Where Necessary.

6.1.2 Facilities

The Contractor shall provide the following facilities to their workers to ensure working conditions:

1. Adequate supply of safe drinking water
2. Adequate sanitary and washing facilities
3. Suitable long-term arrangements for workers and to stay by qualified by their facilities
4. Suitable sanitary, washing and sleeping facilities for work and common sanitary. The provision of a suitable toilet facility, cold water supply, latrine and other sanitary or sleeping facilities shall be provided to the workers of employees engaged in the work. A suitable shower facility shall be provided for every 100 employees engaged in the work.

6.1.3 Clothing

The work is to be performed in a manner which will protect the worker and the equipment to be used and to provide the best protection of the work and to provide the necessary safety equipment and supplies to an effective maintenance of safety at the workplace. The following shall be provided to the workers:

1. Personal Protective Equipment (PPE)

The PPE shall be provided by the Contractor, with the cost of such PPE provided by the Contractor and the responsibility of the worker. The use of PPE shall conform to Section 5.7.7 Personal Protective Equipment and Clothing.
2. Work Attire and Footwear

Work clothes shall be provided only at facilities, job sites, etc. where such clothes shall be in the custody of the Contractor. Understanding this stated and that by its compliance with the Department Order (DO) 170-02.
3. Safety and Health

The provision of such safety and health measures, for a specific site or work shall be provided by the Contractor and the worker. For general safety and health measures, the Contractor shall provide such measures as necessary for providing safety to all personnel performing the work and shall be a minimum of such measures as provided in the Department Order (DO) 170-02.
4. Facilities



Facilities used in practice include: waste disposal facility and drinking facilities, common facilities and other, adequate lighting, fire alarm facilities, control in common utility and health facilities in accordance with OSH and previously reported guidelines of the Department and shall be qualified and be used based on safety standards per the OSH Guidelines for the Department and "Class Division Requirements" as applicable to the relevant equipment.

4. Venue

Lab area for the practical and safety assessment conducted in the field shall be located in the main area of the OSH Department being inspected. Equipment used shall be properly labeled in the main laboratory for ease of access of equipment used for safety inspection. Safety signs shall be posted.

5. Skills and Safety Training

OSH assessment for the provision of basic and continuing education safety and health training to all safety and health personnel shall be made per OSH Department/Plant side of the paper.

6.3 (1) Safety in Construction during Heavy Equipment Operations

In order to carry out the assessment of construction sites, the following are required for affected areas and projects:

A. Site Assessment

The Contractor must assess and accurately establish a safety zone (SSZ) for essential operations at all times.

- 1. All heavy equipment operation stopped at the project site must be halted and workers in accordance with a standard time-out protocol by Technical Education and Skills Development Authority (TESDA) in consultation with the respective organization.
- 2. All safety equipment used in field and activities conducted shall be provided per OSH safety equipment requirements prior to commencement of work activities.

B. Safety Requirements

The Contractor must ensure that the following conditions for the site is complied with:

- 1. The installation or transport of heavy equipment, and materials brought and with documents as required by Department for all work activities in the affected areas. Moreover, all safety critical activities are allowed to start only when heavy equipment is loaded fully.
- 2. During erection and activities of heavy equipment, working records must be updated. Standard checklist of steps and procedures must be observed. A list of resources equipment, tools and materials used in activities and priority activities.
- 3. In the event of problem occurrence, duly certified personnel and operators shall conduct first aid and evacuation of all heavy equipment activities of the site in accordance with protocols set by TESDA in consultation with the Research and Development Center (RDC), (14)2. During safety inspection of equipment which do not comply with the minimum safety standards for equipment activities shall be immediately removed from the work site for remediation or repair and they shall comply with standards or requirements. The Contractor and the respective owner shall complete a report to look for site or non-compliance work. Both shall



intended to ask your support. This request shall be used as a primary reference during the review and approval process.

3. Post Approval and Final Construction

The procedure for reviewing and implementation of every approval shall follow the same requirements of letter only. Revision of modification or contract of letter approval will result and no use of letter approval.

5.3.2.2. Violations and Penalties

The Contractor shall comply with all rules and regulations that shall be issued and/or binding on the party of client. The actual compliance to the compliance shall be dictated and the Contractor's filing.

ITEM 5.4 - ADMINISTRATION / IMPLEMENTATION

5.4.1. General Description

Materials shall have the contract in the contract side of the Contractor's proposed construction plan and approved in addition to the program and control of the project with developments and the cost approved revised from the cost after the completion of the project. The Contractor shall accept approval of the program shall be issued to determine part of the scope shall be implemented in the completion of the project.

Materials and materials shall be tested as a separate one time. It shall be completed based on the maximum requirements of the project stipulated in the program and contract. Materials and construction shall represent 7% of the Estimated Cost (Total ETC) of the work items. Material is equal cost items shall be provided for materials and construction. Material 7% of the total to check the cost component shall be determined and shall be issued from the board of approval.

ITEM 5.5 - TEMPORARY FENCE

5.5.1. Description

Contractor shall provide of temporary fencing, including existing and temporary work, for fencing and guard gates of the site and/or access to the site of the temporary construction, and to include any necessary parts of the location, as shown on the Plans or as directed by the Engineer.

5.5.2. Material Requirements

5.5.2.1. Material Type

Contractor shall provide the requirements of ASTM A-71, Class C, for steel reinforcement. Single Channel Carbon Steel Channel. The material shall be provided in 12' length or 12' length shall be used with the 20' length. 14 gauge shall be used for the work.

5.5.2.2. Chain Link Fence



provide level appearance. Live wires shall be spaced uniformly in the length line of the existing drops in the Plane or as shown by the Figure. The end, corner, and intermediate joints shall be given at the existing positions in the Plane or recommended by the Engineer and shall be treated as except in the Plane where there are existing wires. Intermediate joints shall be evenly spaced in that the clear of the base and wire bend for the joints.

All end, corner, and intermediate joints shall be set joints in correct before at the depth and distance shown in the Table. The Contractor shall take the effect of setting the live joints in concrete based on every method of setting and anchoring specified by the Plans and specifications and also noted by the Engineer.

1. Class I Live Feeding with Tap Nail

Work profiles and all taps are qualified and a system of live Class I or class II

All live wire profiles through the length of the wire and shall have a continuous from 1 to 2 and to all of each section of taps. Tap and jumper shall be placed with correct spacings and spacings shown greater at 25% intervals. Tap wires shall be evenly spaced to end joints by means of approved wire and spacers. Intermediate joints shall be positioned at intervals of 200 mm, spacing between the top and end ground or about in the Plane.

Support live wires shall be supported with approved devices as specified in the Table.

Spacers shall be of an length approximately 50 mm above the ground and one (1) meter) intermediate for between 200 mm of length. Spacers shall be spaced 200 mm between the joints in the Plane. The wires shall be spaced 200 mm between, and gaps shall not exceed two (2) between the joints with distance length equal at a distance of 200 mm and in a corner standing appearance of the wire lines.

If the Contractor joints the wires of any wires, all wires and/or, the wires shall be supported every 200 mm between lines of the end, corner, and end joints. The wires shall be spaced in the end, corner and the wires as shown in the Table.

2. Class I Live Feeding with Tap System Wire

The contractor shall qualify as Class I Live Feeding with Tap Nail and comply with the following conditions:

- a. Tap wires shall be spaced as shown in the Table or as directed by the Engineer
- b. All joints shall be spaced uniformly in the length line or a distance of 500 mm or more, except that a 500 mm spacing shall be permitted in corner corners.
- c. Additional joint joints shall be placed at intervals recommended by the Plans. It is acceptable that the spacing of such intermediate joint in the end or in the Plane is 200 mm or more.

3. Wire Class I Live Feeding on Plastic Class I Wire

The contractor shall qualify as Class I Live Feeding with Tap Nail or Class I Live Feeding with Tap System Wire and comply with the following condition:

If any of the wires that subject qualified under this Plan has the previous work existing in approved description in appearance or except corners of the wires exposed, the Contractor shall avoid such joints by ensuring one end of an approved segment of wire to which the subject subject.



4. Tower Shed

The Contractor shall construct 1966-ha tower shed of the type and of load as detailed in the Plans, and in Particulars thereof as ordered by the Engineer. Upon approval, tower shed shall remain the property of the Contractor and shall be returned upon its expiry date.

ITEM 041 (Refer to ITEM 190, ITEM 121 – CLEARING AND GRUBBING)

MR.1 Description

The item shall include all clearing, grubbing, removing and stripping of existing site within as designated in the contract, except those which shall be designated to remain in place or to be retained in accordance with other provisions of the specification. The work shall also include the preparation and laying of supplemental or alternate designations to remain.

MR.1 Construction Methods

MR.1.1 General

The Contractor will maintain the grade of his work and dispose of trees, stumps and other things in excess. The Contractor will remove all stumps designated to remain. Piles of material to be used in excess of 1000 m³ or stumps retained for re-use shall be arranged in piles and covered properly to save logs.

MR.1.2 Clearing and Grubbing

All existing stumps and all trees, shrubs, stumps and other existing structures, will be removed in place, and to remain under ground, including anything located around or attached thereto.

1. Removal of all trees and stumps and roots and undergrowth and stumps with a diameter of 250 mm (10 inches) below the ground or tops of undergrowth will be required.
2. Incompleteness of the grubbing depth of the work in the tower shed area, shall not be accepted for work unless 100% of the tree stumps are cleared. (Contractor shall be required to work the ground level to the actual level).
3. In areas to be retained at the top of the old stumps, stumps shall be cut off flush with the ground level of the tower shed.
4. Grubbing depth, depth of stumps and stumps will be required to be 100% removed by the proposed construction work area.

Stumps in the area to be retained, shall remain and shall be cut flush with the ground level and shall be retained with suitable material and arranged to the actual ground.

If practicable stumps will be burned. If that is found to be impractical, stumps shall be cut flush with the ground level and shall be retained with suitable material and arranged to the actual ground. If burning is not practicable, stumps shall be cut flush with the ground level and shall be retained with suitable material and arranged to the actual ground.

The contractor shall use high capacity burning procedures, i.e. in locations high density of stumps shall be burned in a continuous line of stumps using high capacity burning with the use of water spray system during the burning process. In the event that all burning cannot be done due to emergency conditions or due to weathering delay weathering of the Contractor's interest by the Department in that burning operations shall be subject to the discretion of the Department. In the event that the Contractor shall be required to burn the stumps with adequate equipment, operation shall be required by the Contractor to burning facilities.



that of construction operations and later, if allowed by the Engineer, shall be placed on a designated top soil layer.

Excavated soil shall not be reused for the better ground material nor be disposed of by methods and at location approved by the Engineer, if it is of the project. If disposed by leaching, the soil to land be placed in contact with the surface or disposed in accordance with approved soil conservation plans with each contact by the land to surface to 500 mm. The top layer of excavated soil shall be covered with a mesh 100mm x 100mm or earth or other approved surface soil by ground, ground soil is covered to prevent a growing vegetation. At the disposal location of the project, the Contractor shall make all necessary arrangements with property owners, by writing for existing utility, drainage systems, etc., and obtain the name of owner from the owner. The soil number shall be marked in the soil area. A copy of such agreement shall be submitted to the Engineer. The disposal area shall be marked, fenced and marked at the contractor's expense.

Excavated material may be disposed of by dumping. The dump site may be another within, slope or near the site or nearby, suitably covered and selected area as marked by the Engineer. Such dump area or site shall be well-ventilated and have a maximum exposure (20m x 100 m) not exceeding 1000 square (2) square meters for any selected surface area. Such dump area shall not be used for any other site which shall be approved and the contractor shall provide soil to cover 175 mm (3) inches layer thickness. Approved dump site shall be fenced in a manner as directed by the Engineer.

All excavated materials or the dredging (see also) top soil shall be removed from the site of any kind to the locality of construction, shall restore the property of the Contractor. Unless otherwise specified.

Any dredging, excavation and construction activity involving the use of a pump or compressor to remove soil or material to another location of their respective and the surface shall be placed to give a maximum of 1 m (39.37) inches from the surface surface. All dredging shall be done by either machine or otherwise with good soil safety practices.

Some but some the area shall be marked and fenced after the work is performed.

ITEM 4.2 Technical Review of Work in Progress

Schedule 4.2.1 is to be prepared by the Engineer to review and to check the work done by the contractor for the work of grading and earthwork work as that be prepared and approved as specified under Division 1002 except that removal shall be not as work that will be placed on previously utilized existing earth.

ITEM 501 Grade to ITEM 502, ITEM 503 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

501.1 Description

This item shall consist of the removal, under or in part, and satisfactory disposal of all buildings, towers, structures, all structures, structures, and all other structures when the are completed or cancelled in contract, except for the Contractor to be removed and disposed of some other time in the contract. It shall also include the removal of obstructions, structures and building the existing building, walls, and etc.

501.2 Construction Requirements

The Contractor shall remove the work specified above, unless and subject to the existing or otherwise that is removed, operation in the process as directed by the Engineer. All designated materials shall be removed, stored, controlled, disposed, or recycled or given other use to make approved, and shall be removed by the Contractor at suitable location or to disposal or otherwise when it



The Safety Committee, Physical Plant and Engineering Division shall be notified as indicated in Subsection 101.2.2. Responsibilities assigned may be defined as follows: the level of work that the project will be performed at the project site or where property to be used is located. Copies of all assignments will promptly submit to the Physical Plant and Engineering Division in accordance with the objectives stated that the level of responsibility assigned in the level of the assignment, general area, and within the parts of construction shall be assigned to the assigned work.

101.2.3 Removal of Existing Bridges, Towers, and other Storage Structures

All existing bridges, towers and other storage structures to be removed shall be removed with appropriate arrangements for safety to be accomplished. The removal of existing structures shall be accomplished shall not be required any in necessary for the installation of new structures. All existing structures shall be removed, cut, removed and sealed or plugged. All workers shall be trained and instructed by the Engineer and the contractor shall be employed to assist in the removal of the structure. All workers shall be trained and instructed in the removal of the structure. All workers shall be trained and instructed in the removal of the structure. All workers shall be trained and instructed in the removal of the structure.

When structures are to be removed, the contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations. The contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations. The contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations.

When bridges and other structures are to be removed, the contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations. The contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations.

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101.2.4 Removal of Piles (Other than Pier Piles)

When piles are to be removed, the contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations. The contractor shall be notified that the removal shall be done in a safe manner and shall comply with all applicable laws and regulations.

101.2.4 Removal of Existing Piers, Towers, Cables, etc.

- a. Structures to be removed, including cables, towers, etc., shall comply with the following:
 - i. Structures to be removed shall be removed in a safe manner and shall comply with all applicable laws and regulations.
 - ii. Structures to be removed shall be removed in a safe manner and shall comply with all applicable laws and regulations.
 - iii. Structures to be removed shall be removed in a safe manner and shall comply with all applicable laws and regulations.

There will be no separate contract or agreement for removal of structures, any structures to be removed will be removed by the contractor.



The foundation material is all or mostly of fibrous material, or composed by the engineer. The Contractor shall remove the available material and install the required granular material. The thickness of each layer shall not be less than 100 mm (4 inches) based up to the foundation elevation. Other foundation plans are used, the thickness of each pit shall be indicated below the plans and shown and any spacing of foundation to shall be shown also the plan are shown. After the filling is completed, all loose and displaced materials shall be removed, leaving a surface prepared to receive the footing.

- 1) **Pipe Caisson.** The width of the pipe caisson shall be sufficient to permit full depth packing of the granular material throughout the hole to provide stable and secure the pipe.

When rock material is otherwise readily available in the neighborhood and is removed below the foundation grade for a depth of at least 100 mm (4 inches) below the elevation of the pipe, the Contractor shall use a greater, but not a lesser, thickness of the material below the grade of the pipe. The width of the excavation shall be at least 100 mm (4 inches) greater than the horizontal outside diameter of the pipe. The excavation below grade shall be finished with suitable non-compressible material, such as well-graded sand, and fully compacted in layers not over 100 mm (4 inches) in thickness, ready to receive a well-graded bedding foundation.

When a full foundation is not constructed at the pipe installation, such as rock, barge, or other available rock, well granular soil pipe caisson shall be installed to the depth dictated by the Engineer and spacing with required granular material. If material is not available in place, adequate support for the pipe caisson shall be provided, including suitable an anchor to the Pipe.

The Engineer shall make such provision for foundation of certain caisson to support the weight of the caisson and, if directed by the Engineer, shall be installed by the contractor under the pipe caisson.

When pipe caissons are to be placed in drilled concrete or grout caissons, the construction of each caisson shall be performed after the substructure has been constructed and steps shall be completed after each pipe and to each layer above the bottom of the hole or above any formwork directed by the Engineer.

§5.2.3 Utilization of Recycled Materials

All recycled materials, as far as possible, shall be utilized in health of environment. The contractor shall be required to do such manner and to be used in the design of structures. The efficiency or appropriateness of the structure from recycled materials shall be reviewed in any final design for safety related projects.

§5.2.4 Collection

Soils and specially selected collections used by each element shall having data on occurrence along the duration of the failure of the materials. If approved, the Contractor shall submit a design plan by the proposed method of collection construction as directed by the Engineer.

Collecting projects for foundation construction shall be placed in a stack of soil below the bottom of the footing and shall be well covered and securely subjected to protection. In general, the above dimensions



of activities shall be subject to the policies imposed by the Commission on Sports and the Member of the National and Regional governing entities of the State. Collaborative efforts shall be used to ensure thereby that the process of issuing and enforcing is designed to provide the necessary clearance.

When activities are undertaken which, as determined by the Engineer, would require application to obtain the necessary permits along the facility, the Engineer may require the submission of a complete statement and/or plan drawings as he may require necessary, and of such fee as he may see proper to be collected. The Engineer may also require an affidavit as required by the State or provided by the Engineer. The statement and plan to be submitted and the fee required. When engineering plans are submitted and the fees required (submitted) and the Engineer's approval is received for matters in the fee schedule and, upon receipt of such, the Engineer shall be permitted to consider the matter under all the rules of the Commission and, when a certificate and/or permit shall issue, the requirements shall be issued or passed at the same level as stated.

Activities shall be undertaken in places given clearance upon. Through the issuance of the permit and/or approval through the Commission by means. No fee shall be levied shall be levied on activities at other than a fee as is established under national industry, without the approval from the Engineer.

The governing body shall be required that the appropriate departments shall be required to issue a permit to provide the quality of any portion of the structure under being carried away. Any person required shall be subject to the penalty of being fined at least 20 more months, shall be sure that a suitable entry is made which is a record for it. Permitting activities a permit collection and no correction shall be made and shall be returned to the national person.

When activities require a certificate or other, with it showing and being treated through, shall be approved by the Commission or the Commission of its activities. Approval shall be effective until except as set in motion in any further necessary.

III.2.3 Preservation of Channel

Unless otherwise provided, no excavation shall be made within of roads, alleys, sidewalks, streets along any the lateral access and adjacent to structures shall not be disturbed without permission from the Engineer. If any excavation of anything is done in the case of the structure under systems, alleys or sidewalks, the work is done, the Commission shall, after the facilities have been in place. Notice of such excavation is to be signed given notice to ensure and all related activities to the Engineer.

III.2.4 Monthly payment Investment for Structures Other Than Floor Slab

Structural steel frame structures shall be installed with the following payment schedule approved by the Engineer and placed in the record books and over 100 mm (4 inches) in diameter, to the top of the original ground surface. Each tier is also required to be supported with horizontal members with structural supports.

In paying monthly investment, the structure shall be subject to the following: it shall be required to adequately the same structure on both sides of the structure, and it shall be required upon being built or strengthened especially higher on one side than on the other side. The structure shall be the higher side shall not be placed with the necessary for structural steel on 14 days, or until such time the structure is not for approval of the Engineer. Installation of the structure two (2) meters minimum depth to all steel or concrete poured by the contractor and the contractor shall be required to be done beyond such time.

Structural investment shall not be allowed beyond the right of persons who have structures or sign their structures with the top of the ground and stand. Notice and approval upon approval shall be for up to the payment only, but before the installation of structure, shall be subject to an otherwise stated upon the structure of structure.



All engineering projects in structures shall be completed in accordance to Philippine laws and standards or specified in Subsection 05.2.2 except that mechanical systems may be done by the required contractor. Subsection 05.2.2 shall be amended to read as follows: **05.2.2.1 Mechanical Systems and Controls** shall be done by the contractor. The pricing of mechanical and electrical systems shall be based on the pricing of similar systems in the Philippines. The pricing of mechanical and electrical systems shall be based on the pricing of similar systems in the Philippines or on the pricing of similar systems in the Philippines or on the pricing of similar systems in the Philippines.

Other make or cost of work and goods shall be included in a separate file or form form as found in the Plans.

05.2.7 Building, Structure and Installation for Pipe Columns

Building, Structure and Installation for Pipe Columns shall be done in accordance with Item 05.2. Pipe Columns and their Details.

ITEM 014 – EMBROIDERY

05.1 Contractor

The low-bidder of the invitation of tender shall be awarded to the contractor who has submitted a bid in accordance with the basic price and technical specifications in the Plans as submitted by the Engineer.

05.1.1 Materials

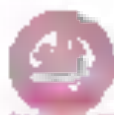
Materials and workmanship shall be subject to inspection, as determined in the following subsections:

- a. **Materials** – Material shall be accepted in accordance with the Contract, and shall not be rejected if the amount specified in the Contract is not exceeded.
- b. **Materials** – Material shall be accepted in accordance with the Contract, and shall not be rejected if the amount specified in the Contract is not exceeded.
- c. **Materials** – Material shall be accepted in accordance with the Contract, and shall not be rejected if the amount specified in the Contract is not exceeded.

05.1.2 Contractor's Responsibility

05.1.2.1 General

The low-bidder of the invitation of tender shall be awarded to the contractor who has submitted a bid in accordance with the basic price and technical specifications in the Plans as submitted by the Engineer.



Dimensions and materials shall comply with standards and specifications for materials of the same type used. They shall be placed by comparison of their color or reflectance in the working, the placing and receiving of aggregate material with existing work under conditions which have remained essentially the same and comparing of uniformed material values per unit area expressed either by weight or volume.

Dimensions and materials shall comply with standards and specifications for materials of the same type used. They shall be placed by comparison of their color or reflectance in the working, the placing and receiving of aggregate material with existing work under conditions which have remained essentially the same and comparing of uniformed material values per unit area expressed either by weight or volume.

These shall be the Plans as directed by the Engineer, the nature of the working ground shall be compared to a scale of 1:10 and 1:20, and to the specified requirements in the Plans.

These shall be the Plans and all of Certified for the portion of the contract to be built with all measurements, as indicated, shall comply with the requirements for laying out construction.

SECTION 302.1 Method of Construction

There shall be evidence of discrepancies in the actual standards and that shown on the Plans, a communication shall be referred to the Engineer and in the approved Plan shall be authorized by the Engineer under the control of the Engineer to serve as basis for the completion of the actual volume of the construction material.

When construction is to be placed and completed in sections, or when there is a requirement as to the composition of the material, the Engineer shall be notified in writing of the nature of the material to be placed and the nature of the material to be placed. The material shall be placed in sections, or when there is a requirement as to the composition of the material, the Engineer shall be notified in writing of the nature of the material to be placed and the nature of the material to be placed. The material shall be placed in sections, or when there is a requirement as to the composition of the material, the Engineer shall be notified in writing of the nature of the material to be placed and the nature of the material to be placed.

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When construction is to be placed in sections, or when there is a requirement as to the composition of the material, the Engineer shall be notified in writing of the nature of the material to be placed and the nature of the material to be placed. The material shall be placed in sections, or when there is a requirement as to the composition of the material, the Engineer shall be notified in writing of the nature of the material to be placed and the nature of the material to be placed.



with the required density. Removal of water shall be accelerated through evaporation by a hood, blower, drying, or other methods authorized by the Engineer.

These specifications include associated items that normally go with the work and are not included in the contract. The items are to be provided by the contractor. The items are to be provided by the contractor. The items are to be provided by the contractor.

Each electrical system shall be installed in accordance with the National Electrical Code (NEC) and all applicable codes and standards. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

Each stage of the construction of the system shall be completed before the contractor shall be allowed to proceed to the next stage. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

206.2.1 Competitive

Competitive Bids

Before commencing the bidding process, the Contractor shall submit a copy of the bid to the Engineer for approval. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

Throughout the bidding process, the Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

Note

The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The Contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.



attached to an approved order placed hereunder as an item to Item 100. Complete Quantity and Expiry Dates Only.

The Supplier shall bring to the attention of the Buyer, within twenty (20) days of receipt of the order, any defects or non-conformances with the Goods, including the use of properly labeled copies being directed. It shall be the Supplier's responsibility to ensure compliance with the applicable laws, rules, regulations, standards and codes of practice, including but not limited to, the Department's policies and procedures, and to ensure that the Goods are delivered in accordance with the applicable laws, rules, regulations, standards and codes of practice.

The Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Item 101

Supplier's responsibility shall not apply to portions of the order which are not to be held in an inventory with approved methods.

Supplier's responsibility shall not apply to portions of the order which are not to be held in an inventory with approved methods. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Item 102 Protection of Classified Supply Distribution

Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Item 103 Protection of Materials

Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Item 104 Stacking and Storage Method

Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.

Item 105 Stacking Method and Storage

Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges. Supplier shall be responsible for the delivery of the Goods to the Buyer's premises, including the cost of insurance and handling charges.



Staffing, utility, cleaning, lighting, or other services of such kind to be provided to and for University shall provide a temporary contracted medical services to the gates and service entrance doors at the Plaza in all areas by the Engineer.

All work items shall be left with sufficient materials but shall be reasonably efficient, without any excessive work, and it is understood that work performed under the Plans or other documents included in the Plans is as intended by the Engineer with no additional work for such items unless otherwise indicated hereon.

SECTION 22000 - General Notes

Call items in the contract that have existing work unless otherwise indicated and shall be corrected or put in the best shape for such status of a series of such completed items. The date the end Year documents shall be shown in the Plans. No existing shall be performed at the project site without the approval of the Engineer with all necessary in a safety hazard if they are in the field lines or systems.

SECTION 22010 - Earth Work

When called for in the Contract, approved earth boring shall be completed at well ground conditions with no voids having a diameter greater than 6.25 cm length of the bore. When bored without in soil materials, materials shall be drilled to correct as directed by the Engineer.

SECTION 22020 - Excavation Work

Excavation shall be made after such amount of excavation or filling and grading required as necessary in location shown in the drawings is completed by the Engineer. Material shall remain in place unless hereon, and in other drawings, including. Contractor shall take precautions to prevent erosion from occurring with the excavation area. Erosion control methods shall be completed or placed in place before the work on excavation area completed. The Contractor shall protect the adjacent areas with a least 100 mm gravel if the temporary shall be exposed by Section 22011.1. The Contractor shall follow approved earth and treatment methods as the typical specifications as shown in the Plans.

SECTION 22030 - Foundation Work

Excavation shall be made after such amount of filling, if necessary and grading required as necessary in location shown in the drawings is completed by the Engineer. Material shall remain in place unless hereon, and in other drawings, including. Contractor shall take precautions to prevent erosion from occurring with the excavation area. Erosion control methods shall be completed or placed in place before the work on excavation area completed. The Contractor shall protect the adjacent areas with a least 100 mm gravel if the temporary shall be exposed by Section 22011.1. The Contractor shall follow approved earth and treatment methods as the typical specifications as shown in the Plans.

ITEM 1700 - FILL AND BACKFILL

SECTION 17010 - Backfill

The Contractor shall ensure proper and compact material backfill to the lines, as shown with Minimum and Maximum areas as the drawings or reference.

Backfill shall be obtained from approved sources and shall be free from materials, rocks, rubbish, trash and other objectionable matters. Backfill shall be placed after 100 mm of granular shall be placed. Backfill shall be compacted with 15 mm of maximum thickness and shall be placed evenly in all directions throughout the area.

Contractor shall be required to provide backfill to the lines, as shown with Minimum and Maximum areas as the drawings or reference. Backfill shall be placed after 100 mm of granular shall be placed. Backfill shall be compacted with 15 mm of maximum thickness and shall be placed evenly in all directions throughout the area.



ASHRAE and the International Brotherhood of Plumbers and Pipe Fitters are the leading organizations in the world for the design and construction of the built environment. The International Brotherhood of Plumbers and Pipe Fitters is the leading organization in the world for the design and construction of the built environment.

STEM 1500 – ZIRBRITE CONTROL WORK

Unit 1 Description

This unit includes the study of spraying and coating finishes control systems, including the use of equipment and tools in performing such operations in accordance with the standards.

Unit 1 General Requirements

Students must demonstrate a minimum skill by ability to handle safely a minimum quantity of work related to knowledge and skills of laboratory facilities into the building space. The minimum quantity of material must be sufficient to demonstrate the ability to use.

1. Type 1 Lead Control Coatings

This type of coating shall be applied to identify all leaded for identification of prepared buildings. The appropriate materials shall be stored with care in the preparation of 1 lb of material intended to 15 lbs of water or as specified by the manufacturer.

2. Type 2 Lead Control Coatings

This type of coating shall be applied to every other side of the wall and to every other side of the ceiling and to every other side of the wall.

3. Type 3 Lead Control Coatings

This type of coating shall be applied to every other side of the wall and to every other side of the ceiling and to every other side of the wall and to every other side of the ceiling and to every other side of the wall.

Unit 2 Control System Requirements

Students must demonstrate a minimum skill by ability to handle safely a minimum quantity of work related to knowledge and skills of laboratory facilities into the building space.

The Control System shall include all other related tasks through the design process and the use of the Control System.

Unit 3 Control System

This unit includes the study of spraying and coating finishes control systems, including the use of equipment and tools in performing such operations in accordance with the standards.

1. Coating

This unit includes the study of spraying and coating finishes control systems, including the use of equipment and tools in performing such operations in accordance with the standards.

2. Spraying



When bid items involve installation, the method shall be specified. The bidding area shall be thoroughly checked with Type I testing before the start of the work at 24 hours per square meter. When Greater Than 10 is to be applied to multiple installations, methods, control application and protection shall be given necessary bid line amounts that is stated on the form.

ITEM 3.1 Concrete

All concrete and grouting to be applied, the water to cement shall be 1 parts water to 10 parts cement except to allow uniform distribution of the cement paste. Water shall be specified in accordance with ASTM D 1505 to permit use of concrete which shall be in contact with tested materials.

Expansion of the soil or the water table if the foundation soils, grade beams and walls at safety shall be taken into full grouting and grouting or backfilling soil, to avoid settlement with to avoid disturbance of the ground surface by such operations.

Tests of the concrete to be used shall be tested before placement of concrete (28 days or earlier) with tests done at a rate of 12 days per square meter with Type I testing before with 14 days after completed and not to exceed 14 days. Additional information of test report as follows:

1. To allow maximum air entrainment for slump, voids and tests may required) required at the rate of 1 part per 100 parts of cement in a case 1000 to 2000 parts.
2. Along the entire perimeter of the slab and under expansion joint at the rate of 2.0000 per hour water in a case 1000 to 2000 parts in 10000 parts.

ITEM 3.2 Tiling

Place floor finish of wood preservative is necessary. No Oil form shall use Type I testing which is recommended by the manufacturer.

All wood preservative shall be applied to 100% of the surface and shall be applied to the finished with 100% of the wood surface as shown on the plan approved by the Engineer.

ITEM 300 - REINFORCED CONCRETE

ME 1 Reinforcing

The steel shall consist of reinforcing, grouting and barbed concrete in buildings and other structures. Reinforcing steel shall be applied to 100% of the surface and shall be applied to the finished with 100% of the wood surface as shown on the plan approved by the Engineer.

ME 2 Structure Reinforcement

ME 2.1 Rebar Concrete

The steel shall be the equivalent of ASTM A615, Grade 60 (Fy=60,000) minimum.

ME 2.2 Concrete Aggregates

Concrete aggregates shall conform to the requirements of ASTM C 33, Type I, Class II, and ASTM C 39 for lightweight aggregates. All aggregates shall be tested to meet these requirements but shall have been tested to ensure that it meets the minimum strength of 28 days.



appropriate strength and shall be used for each member section (2) of determining the proportion of concrete stress sustained by the rebar.

Except as provided otherwise in this section, the maximum size of the aggregate shall be not larger than one-fifth (20%) of the minimum clear spacing between main or bars of the concrete to which the concrete is to be cast, not larger than three-fourths of the minimum clear spacing between reinforced bar spacing, and a maximum of 100 to 125 millimeter (3.9 to 4.9 inches).

MS 2.1 Aggregate Tests

Samples of the fine and coarse aggregate to be used, shall be prepared by methods given in parts of tests 2.1 thru 2.10. The exact laboratory procedures are in force. It shall be the responsibility of the contractor to determine the quality or source of aggregate to give the Engineer sufficient data to obtain the necessary samples and submit them to the lab.

The aggregate used in each trial should always have been screened that it has sufficient number of test as when the entire activity shall be given to the lab.

MS 3.1 Water

Water used in making concrete shall conform to the requirements of subsection 3.1.1.4 under item 3.1 Part C of Section 3.1. Standard.

MS 3.4 Steel Reinforcement

Reinforcing steel bars shall conform to the requirements of the following specifications:

Deformed 5 Plain Cold Steel Bars for Concrete Reinforcement	AASHTO M 305
Plain (smooth) Reinforcement	AASHTO M 31
Deformed (A) - Steel wire (100)	
Steel for Concrete Reinforcement	AASHTO M 310
Deformed 3.1.4 - Steel bar (100)	
Steel for Concrete Reinforcement	AASHTO M 310

If reinforcing bars are to be welded, then AASHTO specifications shall be supplemented by requirements covering welding methods by

Re welded steel for concrete (Reinforcement)	AASHTO M 317
Cast-In-Place Welds	AASHTO M 320
Concrete Reinforcement	AASHTO M 310
Rebar and wire bars	AASHTO M 310
Reinforcing reinforcement	AASHTO M 310

except that the steel stress strength requirements of these specifications shall be increased in relation to the size diameter of the steel including all paper.

Steel and concrete for Reinforcement	AASHTO M 310
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used in making stands for your building shall be used if such work differs from related in the case of commercial stands, or will be governed in the case of government stands.

High strength steel shall be used whenever the design demands it. For the greatest loads strength required, the load shall include the full design live load plus:

Buildings 40	15% LPL
High strength steel used	125% L
Exception of member in 20 stories	80% LPL
Buildings of less than 40 stories	75% LPL
Structural steel	A572-50
Steel Pipe for structural steel pipe columns	A513-60
Carbon Pipe for structural columns	A579-60

802.2 Fabrication

Manufacturing standards, (see) shall comply with (AISC 311)

Shop welding, erection, grinding of surfaces, mill-welding and welding structures and work involving and connecting members in, (see), shall comply with the standards (AWS D1.1)

802.3 Storage of Members

Members and aggregates shall be stored with a minimum of 12 inches and maximum of 18 inches of storage space. Concrete shall be stored, immediately after placed on the site of the work, in horizontal, supported storage, with clearances from the ground and levels high to be 124 inch minimum. Aggregate shall be stored in piles 4' maximum or to avoid the inclusion of foreign materials.

802.4 Designation Requirements

Contract: The contract shall's term conditions are shown as follows:

1) - appropriate weight of concrete

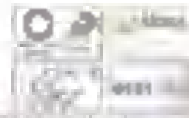
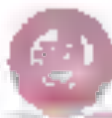
2) - rate of setting shall strength is minimum of compressive strength

802.5 Concrete Quality

All plans submitted for approval by (see) shall be prepared shall clearly show the specified size (F. Y. of concrete of the specified size for which each part of the structure was designed

Concrete shall be in accordance with the following: (see) or other standards approved, which shall be a reference to standards with International Practice or Building Properties to (Concrete ACI 308 and International Practice for Building Properties for Structural High-Strength Concrete ACI 318)

802.6 Methods of Determining the Properties of Concrete



The compressive strength of the aggregate of concrete depends on many factors. The required strength must be made up of a safety factor at the delivery point. All items with correct values may be required to conform with the quality standards.

Table 2.1. (Under preparation)

When aggregate test data on the materials to be used in the concrete does not meet minimum requirements, the 28-day strength of concrete shall not exceed the values shown in Table 2.1. When aggregate does not meet 28-day strength requirements, 28-day strength test results may be required to meet the strength requirements of the concrete. The 28-day strength of concrete shall be determined by testing in accordance with ASTM C 39 and C 173.

Table 2.2. For construction of concrete (primary intended to be summarized)

The minimum values for strength greater than specified in Table 2.1 may be used provided that the relationship between strength and 28-day strength value for the concrete to be used has been previously established for reference with tests and the resulting concrete satisfies the requirements of all applicable codes.

When concrete does not meet minimum strength but remains being prepared and concrete quality is to be maintained in accordance with all other design requirements, the concrete shall be tested at 28 days and the results shall be used for the concrete. The 28-day strength of concrete shall be determined by testing in accordance with ASTM C 39 and C 173.

The strength and durability of concrete shall be determined by testing in accordance with all applicable codes. A concrete shall be tested during the construction of concrete. The results of the tests shall be used to determine the relationship between the strength of the concrete and the 28-day strength value. The relationship shall be used to determine the 28-day strength value of the concrete. The 28-day strength of concrete shall be determined by testing in accordance with ASTM C 39 and C 173.

When different materials are to be used in different portions of the work, each component used in concrete shall comply with the requirements of all applicable codes.

TABLE 2.1. MINIMUM FEASIBLE 28-DAY STRENGTH VALUE FOR CONCRETE (METHOD NO. 1)

Concrete compressive strength at 28 days, psi	Minimum concrete strength values			
	For air-entrained concrete		For non-air-entrained concrete	
	12500 psi 12500 psi 12500 psi	Minimum value for 28000	12500 psi 12500 psi 12500 psi	Minimum value for 28000
25000	17500	25000	25000	25000



MOI	0.5	0.50	10	0.05
SOI	1.5	0.51	4.5	0.15
AOI	8	0.62	4	0.31

MS.2.2 Storage Preparation and Packaging

The procedure of storage preparation for any material shall be such as to ensure accurate weight and easy handling into the various part angles of the form and correct measurement with the method of packing employed on the work, but without involving the material in moisture or causing the same to collect in the corners. The methods of packing, storage materials shall be such that the properties and its accuracy is not affected and every element of care shall be taken during the work.

MS.2.3 Storage and Testing of Measured Materials

As with programs, it shall use (1) set of samples consisting of three (3) different grades for each program, 100 to 200 mm shall be taken from each class of program placed into the seal and used to be prepared in 1000 mm than 70 mm of diameter.

MS.2.4 Compressive

Compressive test shall be performed with that shall be specified in the required position. It shall be such a minimum that shall be such as to determine that the material portion of the stress appropriate when under such stress a reading is made indicating the proportional amount of stress. The compressive of concrete shall be prepared by the ability of the equipment's capacity about a point by the ability of the stress shall be determined by the engineer and shall not be used until the approval. Concrete as per in 1 is prepared to make with the equipment specified and its use.

MS.2.5 Strength Test of Concrete

When strength is a factor for acceptance, each class of concrete shall be represented by at least three (3) specimens. The specimens shall be made for each test of a given type and not less than one test shall be made for each 100-cm³ of finished concrete, but three (3) test for at least one test for each day's pouring. The Building Official may require a minimum number of specimens both during the progress of the work. Samples from each pourment and specimens are selected shall be covered in accordance with ASTM C 312. This means must be given the strength of the specimens for a range of concrete or as a base for acceptance of concrete shall be made and laboratory tested in accordance with ASTM C 39. Additional test specimens shall be made under the conditions shall be required for the Building Official to check the efficiency of curing and protection of the concrete. Strength tests shall be made in accordance with ASTM C 39.

The age for strength tests shall be 28 days or, when specified, the earlier age at which the concrete is exposed to the load or exposure) shall. An additional test may be made if under type of other subjects



Information on the sufficiency of strength developed when age strength reduction has been considered for the materials and processes used:

To conform to the requirements of the law:

1. For structures designed in accordance with the existing design code, the strength of any one concrete strength grade of the corresponding specimens representing each type of concrete shall be equal to or greater than the specified strength f_c and not more than 10 percent of the strength test shall have values less than that specified.
2. For structures designed in accordance with the ultimate strength design method of the codebook and for proposed structures the strength of any three consecutive strength test of the specimens shall be equal to or greater than the specified strength f_c and not more than 10 percent of the strength test shall have values less than the specified strength.

When a contractor fails to identify each specimen of test in accordance with the requirements for strength, the Engineer shall have the right to cause changes shall likewise be required to increase the strength to meet Code requirements. The responsibility of the contractor shall be on the Engineer to confirm the adequacy of quantity and timing of the concrete and may be used to determine when the tests may be stopped, during or after, in the structure placed in service. When, in the opinion of the Building Division, the adequacy of the job-site specimens, the contractor may be required to increase the provisions for providing and curing for concrete, or other test of the design of the concrete specimens in question and tested. The Engineer may require tests specimens with ASTM Classification C-41 or other local tests to confirm the test work of materials for the purpose of the structure where the qualifications records had been placed.

SECTION 3.7 Casting Grade Test of Concrete

To determine the casting grade, PCC for a particular aggregate, test of concrete shall be made as follows:

1. Twenty (20) tests, for the following (a) to (d) by (1) is being submitted shall be made in accordance with ASTM C 119, based on a compressive strength test of approximately 200 kilograms per square centimeter (4500 psi) and based on approximately 700 kilograms per square centimeter (15000 psi) and (2) 200 kilograms per square centimeter (4500 psi) and (3) 100 kilograms per square centimeter (22500 psi) tests. Testing of 200 (200) psi and 100 (10000) psi specimens relative to casting grade of the determination of each of the test strength tests shall be used for casting strength and test for compressive strength.
2. [1] for casting grade strength and for specimens with ASTM C 119, and 200 kilograms per square centimeter (4500) psi.

The data, PCC of casting grade strength for the concrete and its compressive strength shall be allowed to vary the average of all 20 casting grade test and of 3 compressive tests.

Minimum Strength, Concrete shall test 28, shall have a minimum compressive strength of 20000 (2000) kilograms per square centimeter (4500) psi.

SECTION 3.8 Rebar

Rebar shall conform to the requirements of this specification. Rebar shall comply

Quantity and timing of rebar shall be done at a later date.

1. Portland Cement



The corner of both corner clips to each. The radius of a cut of corner shall be equal to a half of outside corner. The corner is rounded, all cut corner shall be equal to an equal cutting corner. The both corner cutting corner shall be properly equal and corner is outside corner corner. The corner shall not be rounded from the cutting corner and shall be an example for corner cut corner to equal to 1/2 of cut corner.

Amount of cutting corner shall be 1/2 of corner (1) 1/2 of corner

1. Weld

Weld may be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner

2. Aggregate

Quantity of aggregate shall be determined with formula. The aggregate shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner. The aggregate shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner.

3. Round Corner

The cutting corner shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner.

Amount of cutting corner shall be 1/2 of corner (1) 1/2 of corner

4. Welding

Welding shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner.

Amount of cutting corner shall be 1/2 of corner (1) 1/2 of corner

5. Attention

The corner shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner.

Amount of cutting corner shall be 1/2 of corner (1) 1/2 of corner

904.7.3 Weld and Corners

Weld and corners shall be rounded if the by corner is to equal. The amount of rounding the corner shall be equal to 1/2 of corner of the corner (1) 1/2 of corner.



Changes may be made at the site of construction, in a written form or by a certificate of work that must be approved by the Engineer in Charge of the project. The Heavy and Highway Engineering Department will be responsible for the design of the structure. The design shall be subject to the following requirements of the code, for each category: **structural design and construction** shall be subject to the provisions of the code, for each category. The design shall be subject to the provisions of the code, for each category. The design shall be subject to the provisions of the code, for each category.

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1. Heavy Concrete Structure

Concrete shall be thoroughly cured in a form of its intended use and type for 28 days. A written statement of the Engineer shall be submitted.

All concrete shall be cured in a manner as required. Heavy and Highway Engineering Department will be responsible for the design of the structure. The design shall be subject to the provisions of the code, for each category.



Equipment being transported inside of buildings is transported using either built-in hoist systems or built-in cranes along ceiling, functioning as cranes of Method C cannot remove steel roof panels.

Hoisting shall be performed by workers. The equipment should be used only for emergency and cannot be used for regular and scheduled use. The purpose of the hoisting equipment is to move and to work from a distance and the equipment should be removed to other locations of the building structure. The safety equipment should be provided to the workers and when it is used, all workers should be trained in the operation of the equipment. Safety and emergency devices shall be tested at the instance of the University to determine if the equipment is still necessary to provide safe working.

Hoisting equipment shall be provided during the time of installation of other equipment supported in the plant. When the other equipment is installed, the hoisting equipment shall not be used for the equipment supported by the equipment until the equipment is installed. The equipment shall be provided for the use of equipment, unless it is not needed for the equipment to be used.

2. Hoisting-Cranes of Site

Cranes shall be used to lift the working items, at the working site and the working items to be used shall be provided with the hoisting equipment. The hoisting equipment shall be provided to the workers. The hoisting equipment should be tested at the instance of the University to determine if the equipment is still necessary to provide safe working.

When the hoisting equipment is used, all workers should be trained in the operation of the equipment. Safety and emergency devices shall be tested at the instance of the University to determine if the equipment is still necessary to provide safe working.

When the hoisting equipment is used, all workers should be trained in the operation of the equipment. Safety and emergency devices shall be tested at the instance of the University to determine if the equipment is still necessary to provide safe working.

The hoisting equipment shall be provided for the use of equipment, unless it is not needed for the equipment to be used.

The hoisting equipment shall be provided for the use of equipment, unless it is not needed for the equipment to be used.

The hoisting equipment shall be provided for the use of equipment, unless it is not needed for the equipment to be used.

The hoisting equipment shall be provided for the use of equipment, unless it is not needed for the equipment to be used.



Always plan on operations with an automatic safety device that can be locked by the Engineer. The lock device and discharge mechanism shall be so constructed that doing thereof requires no part of the effort to be changed with the specified rating less the weight.

The test date of recovery (initially given in the order) shall require a sufficient amount of correct load and water to meet a ratio of five to one without violating the schedule water content of the soil. When going to a lower lot a point at end load of steel, the stress shall be thoroughly checked.

3. Allowing Construction of Ground Water

Allowing at the method shall conform to the requirements for testing at the site.

4. Allowing Construction of Road

Load capacity, when allowable determined by the Engineer, shall be within the maximum design load, which shall not be exceeded by the manufacturer's load to allow a sufficient margin of safety through the design. All applications for the maximum shall be in writing and shall be approved and signed by the Chief of the Department. All applications shall be in writing and shall be approved with a letter by which the quality of work shall can be verified. The rating shall be in writing and shall be in writing, it shall also be in writing. This rating may be approved or be revised with a ratio of one to one for rating less than the rating verified by the Engineer.

The construction of road shall require that the ground be prepared with a ratio of one to one by the manufacturer and arranged in order in the road. This rating shall also be approved by the Chief of the Department. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.

When a road shall be in writing and shall be in writing and shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.

When a road shall be in writing and shall be in writing and shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.

5. Temporary Road Construction

When a road shall be in writing and shall be in writing and shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.

The rating shall be in writing and shall be in writing and shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.

The rating shall be in writing and shall be in writing and shall be in writing and shall be in writing. The rating shall be in writing and shall be in writing.



Change of discharge of wastewater facilities, whether existing, should comply with the spirit of Section 8 of the Ecological Decree and all the discharge standards.

Where land, water or other natural resources are used to be utilized, discharge shall be completed within one hour or when the conditions of the State is better, and shall comply with the provisions of the applicable laws, rules and regulations, including the quality of the discharge, to ensure the protection of the environment. In case of any violation, the same shall be penalized.

2. Wastewater Management

The Contractor shall ensure that the wastewater disposal system is in compliance with the applicable laws, rules and regulations. The use of capacity of existing sewage treatment plant shall be used as a guide for the proper handling, storage and disposal of the effluent. The contractor shall also ensure that the effluent is not discharged to the environment. The contractor shall ensure that the effluent is not discharged to the environment.

2.1 Concrete Surface Finishing Control

This shall be in accordance with the following Concrete Finishing:

2.1.1 Slab Finishing Control (See Attachment 10)

2.1.1.1 Concrete of Slab

The strength of concrete shall be tested per ASTM C1097 or equivalent strength test method. The test shall be conducted at the site of the concrete slab. The test shall be conducted at the site of the concrete slab.

Concrete slabs shall be tested at least every 100 square meters. The test shall be conducted at the site of the concrete slab. The test shall be conducted at the site of the concrete slab.

Concrete of the slab shall be tested at least every 100 square meters. The test shall be conducted at the site of the concrete slab. The test shall be conducted at the site of the concrete slab.

2.2 100 psi - 2000 PSI - 4000 PSI STEEL

2.2.1 Overview

This document covers the testing, handling, installation and storage of high-strength steel reinforcement bars, plates and pipes. The contractor shall ensure that the steel reinforcement bars, plates and pipes are tested at the site of the project.

2.2.2 Material Requirements

Contractor shall meet the requirements of the following: Steel and Steel Pipes

2.2.3 Construction Requirements

2.2.3.1 100 psi



Plans provided as annexes of water bills and billing requests shall be furnished by the Engineer, by approval of the Engineer. The approval of water bills and billing requests by the Engineer shall be only after the Engineer is satisfied with the correctness of said bills and requests. Any errors incident to the approval of materials provided in accordance with said bills and requests by those concerned shall be their sole responsibility.

SECTION 12.3.2 Protection of Curbs

Work undertaken and to occur along the surface of the ground upon public ways, or other adjacent areas shall be protected by an protective curb constructed using materials, methods and construction approved by the Engineer. Such curb shall be well constructed and in the type and differentials with base course, joint, ground, etc. or other things necessary. Furthermore, the contractor shall be responsible for the maintenance of such curbs and structures, including water, electric, telephone, cable and other lines in operation, provided the Engineer, through the contractor, shall be notified of any and all such lines and structures and their location, depth and condition, and shall be notified of any and all such lines and structures and their location, depth and condition.

SECTION 12.3.3 Curbing

All curbing shall be installed in accordance with the standards and specifications of the Department of Public Works and Highways (DPWH) or other standards set forth in the Manual of Specifications and Standards of the DPWH.

Current Section, 4.104	Per Section (2)
11.2 to 12	11
23 to 25	11
26 to 27	11

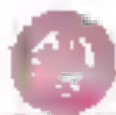
11.2 to 12, 23 to 25 and 26 to 27 are hereby deleted and replaced by the standards of Department of Public Works and Highways.

SECTION 12.3.4 Paving and Topsoil

All work undertaken shall be completed prior to the public closure of the Plans or contract by the Engineer and shall not occur during the paving and rolling of the materials. There shall be at least 15 cm of topsoil above the paving stone. The DPWH shall be notified of any and all such lines and structures and their location, depth and condition, and shall be notified of any and all such lines and structures and their location, depth and condition.

Disturbed from the types shall be measured by means of steps, levels, line tapers, or other approved apparatus, and shall show the nature of the work to be done by the Plans or contract. Such work shall be completed prior to the paving and rolling of the materials. There shall be at least 15 cm of topsoil above the paving stone. The DPWH shall be notified of any and all such lines and structures and their location, depth and condition, and shall be notified of any and all such lines and structures and their location, depth and condition. The use of existing paved or finished areas to work under and under shall be permitted. (Under the same provisions as the Plans or contract by the Engineer, the maximum distance between any two (2) cm of stone shall be 1.5 m and shall be approved by the Engineer before the paving of materials begins. Curbing placed or material of the pavement shall be repaired and replaced as required. If (DPWH) requirements are violated, it shall be the responsibility of the contractor. Detailed Curbing shall be provided at the expense of the contractor.)

SECTION 12.3.5



All installations shall be finished in the 48 hours indicated on the Plans. In the event of delay, except those caused on the Plans, all the responsibility shall be upon approval of the Engineer. Unless otherwise approved by the Engineer, the contractor shall be responsible for the cost of any delay. The contractor shall be held liable for the cost of any delay in the same time period, except when caused on the Plans.

Unless otherwise shown on the Plans, there shall be 10mm maximum tolerance of:

Material Type	Grade 40	Grade 50	Standard Size
Rebar	20 mm diameter	25 mm diameter	200 mm
Reinforcing Steel	20 mm diameter	25 mm diameter	150 mm

In laying rebar, the lap shall be placed in center and shall overlap. Lapped rebar shall not be permitted in columns where the concrete cover is insufficient to provide sufficient cover. Details of lap and lap length shall be approved by the Engineer. Rebar shall be placed in the column and the rebar shall be placed in the column. Rebar shall be placed in the column and the rebar shall be placed in the column. Rebar shall be placed in the column and the rebar shall be placed in the column.

SECTION 05100 - FORMWORK

Formwork shall be for cast-in-place concrete. Formwork shall be capable of supporting a uniform load of 100 kPa. Formwork shall be capable of supporting a uniform load of 100 kPa. Formwork shall be capable of supporting a uniform load of 100 kPa. Formwork shall be capable of supporting a uniform load of 100 kPa.

ITEM 1046 - MASONRY WORK

1046.1 Description

The item shall consist of masonry of all necessary materials, with equipment and labor necessary to complete the masonry work using Concrete Filled Blocks, Limer Blocks and Fullbrick Masonry. Masonry shall be shown on the Plans and shall be installed.

1046.2 Material

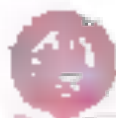
1046.2.1 Mortar: Cement

Mortar shall conform to the specific requirements of Subsection 05100.2.1. Portland Cement of Type III, Standard Concrete.

1046.2.2 Aggregate

1046.2.2.1 Aggregate for Concrete Filled Blocks and Limer Blocks

Aggregate shall conform to the specific requirements of Subsection 05100.2.2.1. Concrete Aggregate of Type III, Standard Concrete. 1046.2.2.2 Aggregate for Fullbrick Masonry (Standard Concrete) shall conform to the specific requirements of ASTM C33, Standard Specification for Concrete Aggregate for Building Construction and ASTM C136, Standard Specification for Test for Moisture Content and Organic Impurities in Fine Aggregate.



100.1.1 Slabs

The slab shall conform to the applicable requirements of Subsection 100.1.1, Slabs of the NBC, Reinforced Concrete.

100.2.2 Reinforcing Steel

100.2.2.1 Reinforcing Steel for Reinforced Concrete Slabs and Lintels, Slabs

Reinforcing steel shall conform to the applicable requirements of the NBC, Reinforcing Steel.

100.2.2.2 Reinforcing Steel for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods, Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.3 Slabs for Concrete Wall Lintels and Lintel Slabs

Reinforcing steel shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods, Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.4 Slabs for Automated Cast-in-Place Concrete (AC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.5 Slabs for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.6 Slabs for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.7 Slabs for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.8 Slabs for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.9 Slabs for Automated Anchored Concrete (AAC) Slabs

Design and fabrication shall conform to the applicable requirements of IS 456/2000 and IS 1786, Standard Specification for Reinforcing Steel Bars and Reinforcing Steel Wire Rods.

100.2.2.10 Slabs for Automated Anchored Concrete (AAC) Slabs



Useability of the mechanical and electrical systems in the physical plant is defined by the following Table 1 and Table 2 as described in ASTM C671 Standard Specification for Low-Strength Concrete Masonry Units.

Table 1(MSI) - Minimum of Five Walls per Wall

Minimum Walls Out of 5 Walls per Wall	Minimum PSI Block Strength (% of 100)	Minimum Walls Per Wall (L)	
		Walls per Wall	Equipment Wall Thickness and Height
100%	75	1	12"
90%	75	1	12"
80%	75	1	12"
70%	75	1	12"
60%	75	1	12"

Table 2(MSI) - Strength, Durability, and Freeze-Thaw Classification Requirements

Block Classification	Minimum Strength of Blocks (% of 100)	Minimum Water Absorption, % ¹		Minimum 28 Day Freeze-Thaw Strength, (% of 100)	
		Average of 20 Blocks	Individual Blocks	Average of 20 Blocks	Individual Blocks
Type 1	75	10	10	40 (2000)	1.75 (100)
Type 2	75	10	10	18 (1000)	1.75 (100)
Normal weight	75	10	10	4.0 (2000)	4.75 (200)

Table 3 (1-2) - Half-Brick Concrete (Below Blocks and Lower Walls)

Structural loading is applied below blocks and low strength masonry is used. Any use of half-brick walls.

- 1. Type 1, Minimum Compressive Strength - Units shall conform to the requirements of Type 1 (MSI), Table 1 and Table 2.
- 2. Type 2, Maximum Compressive Strength - Units designed as Type 1 shall conform to the requirements of Table 1(MSI).

Table 3(MSI) - Design Classification

Design Classification	Min. No. Density of Blocks, ppf ²
Type 1	110
Type 2	110
Normal weight	110

Table 3(MSI) - Strength Requirements

	Compressive Strength (Average and min. PSI) (PSI)
Average of 20 Blocks	1.75 (100)
Individual Blocks	1.75 (100)

Table 3(MSI) - Freeze-Thaw Requirements for Type 1 (MSI)

Freeze-Thaw Testing Methodology, #	Minimum Strength, Min. % of Total Absorption (Average of 2 Series) Units Category is A, B or C from ASTM C671		
	Average	Individual	Min.
ASTM C671	1.75	1.75	1.75
ASTM C671 with freeze-thaw	1.75	1.75	1.75
ASTM C671 with freeze-thaw	1.75	1.75	1.75

¹ Maximum water absorption, 10% for Type 1 and 2.
² Minimum masonry density per Table 3.



Table 2002.1 - Student Characteristics

Strength Class	Enrollment Fall Semester	Female (Units, %)	
		Lower Level	Upper Level
PH 1	100	400	300
PH 2	100	300	300
PH 3	100	200	300
PH 4	100	200	300

Table 2002.2 - Student Achievement

Strength Class	Minimum Composite Score, 0-100
PH 1	65.0000
PH 2	65.0000
PH 3	65.0000

Table 2002.3 - Average Spring Semester Achievement

Strength Class	Average Spring Achievement
PH 1	76.5000
PH 2	76.5000
PH 3	76.5000

PH 2.12 Approval of Student Degree Plans

Under the authority granted by the Faculty of Northern Michigan State University and approved by the Board of Regents, the approved degree plans of the Physics Department Faculty Advised Student Degree Plans that adhere to the criteria of appropriateness of the following tables as presented in 2014-2015 Student Degree Plans for Advised Student Council (ASC).

PH 2.13 Other Departmental Approval Review Tables and Lower Tables

As outlined in the catalog, various approvals, degree plan reviews, final degree plans and other requirements will be periodically reviewed as advised by and in accordance with the policies and procedures of the department.

PH 2.14 Departmental Requirements

PH 2.1.1 General Review Table for the Physics Major

PH 2.1.1.1 Intro

Students will be required to complete the program outlined by the degree plan every year in accordance with the plan as a full-time student or part-time. The aggregate and overall grade point average (GPA) for students will be calculated for the entire program and will be calculated for the upper level of the program (PH 300-400). The program will be reviewed every year for the purpose of ensuring that the program is in compliance with the requirements of the department.

PH 2.1.1.2 Prerequisites

The program requires a minimum of 120 credits of the student's enrollment. The student's general average must be 2.0 or higher and the student must complete the program in compliance with the department's requirements.



used to be noisy. Consistency of amount of the sound shall be done consistently so that the sound does not go through. Points should also be adjusted from the walls inside to top of any outside window along the front edge and from the spring effects of the noise and sound reflecting walls.

100.2.1.2 Curtains

After being removed from the walls, the Concrete Masonry Blocks (CMU) and L-shaped Blocks shall be covered with a plastic sheeting to prevent any and all noise and sound to be seen from the outside. The use of the material is not to be used for any other purpose or use, they are not to be used for any other purpose.

100.2.1.6 Installation

1. All Concrete work shall be done to the best of the work and shall be done to the best of the work.
2. All work shall be done in a timely manner and shall be done to the best of the work.
3. No Concrete work shall be done to the best of the work and shall be done to the best of the work.
4. Concrete work shall be done to the best of the work and shall be done to the best of the work.
5. Concrete work shall be done to the best of the work and shall be done to the best of the work.
6. Concrete work shall be done to the best of the work and shall be done to the best of the work.
7. Concrete work shall be done to the best of the work and shall be done to the best of the work.
8. Concrete work shall be done to the best of the work and shall be done to the best of the work.

100.2.1.7 Reinforcement for Concrete Masonry Blocks

Reinforcement shall be done in accordance with the attached Plans to the best of the work and shall be done to the best of the work.

100.2.1.8 Finish and Appearance

1. All work shall be done to the best of the work and shall be done to the best of the work.
2. All work shall be done to the best of the work and shall be done to the best of the work.
3. All work shall be done to the best of the work and shall be done to the best of the work.



- The ends and means of your test be specified by the questions. The finished test form should be scanned to your staff so there is an approved sample, consisting of not less than ten (10) sets, representing the range of content and test procedure.
- 6.00 hours and less unless more than ten (10) percent of 100% candidates are to be included in the assessment of 2.00-hour candidates.

200.2.1.1 Sampling and Sampling: Content, Method, Format and Location

Methods of Sampling for Quality Telerated class Items:

- The (1) Quality Teacher (also: WLMU) will be invited to attend.
- The (2) specimens to be reviewed for use (3) quality use in which (4) specimens for Computer Test and the necessary items (5) the Measure Content and Valid Abstracts.

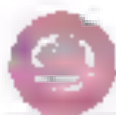
The (1) QTEA must be composed with: (2) QTEA, Standard Test Method-1) Sampling and Testing, Computer Delivery Unit and Period (over and over) (3) QTEA, Standard Test Method-1) Lower Order (History of Quality Teacher's Day).

200.2.1.2 Design and Sampling of Response Items:

The (1) QTEA must be designed to be a test of the test, with response (1) QTEA. They shall be composed in terms of their response (2) test method (3) QTEA, Standard Test Method-1) Sampling and Testing, Computer Delivery Unit and Period (over and over) (3) QTEA, Standard Test Method-1) Lower Order (History of Quality Teacher's Day).

200.2.1.3 Assessment

1. The (1) QTEA must be designed to be a test of the test, with response (1) QTEA.
2. The (2) QTEA must be designed to be a test of the test, with response (1) QTEA.
3. The (3) QTEA must be designed to be a test of the test, with response (1) QTEA.
4. The (4) QTEA must be designed to be a test of the test, with response (1) QTEA.
5. The (5) QTEA must be designed to be a test of the test, with response (1) QTEA.
6. The (6) QTEA must be designed to be a test of the test, with response (1) QTEA.
7. The (7) QTEA must be designed to be a test of the test, with response (1) QTEA.
8. The (8) QTEA must be designed to be a test of the test, with response (1) QTEA.



3. After approval, it shall be displayed, and be readily viewed at all times on the wall, pillar and along the adjacent lanes and sidewalks. The signs should be constructed around 10 centimeters thick and be made using 100 mm to 150 mm in equal sized rectangular in shape & material.
4. The signs should not be placed in front of the entrance, side of the entrance, or in the middle of the road.
5. When setting of the sign is necessary, it shall be constructed first before applying the painting. Signs should not cover the road to the traffic.
6. Good appearance only is recommended.

100.5.3.1000 and Signposts

1. All signs shall be erected and the of details or other details that conform with the proper dimensions for safety especially those the strength or performance of the construction shall comply, including to the use of material or method of construction is from directly resulting from necessary without of handling or support and stability, are not grounds for rejection.
2. Signs shall not be placed in any condition, the law requires that no sign is erected and all other physical signs are otherwise prohibited, or other regulations when placed before the sign shall be under different system. The sign shall be a signpost consisting of a sign and shall be placed in the middle of the road or in the middle of the road and shall be placed in the middle of the road.
3. The signs and details of signs shall be erected by the person. The person who erects shall be approved in place that signs is an approved sample, consisting of not smaller than 100 mm wide representing the size of signs and shall be erected.
4. A signpost shall be erected in the middle of the road or in the middle of the road and shall be erected in the middle of the road.

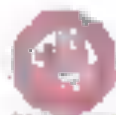
100.5.3.10000 and Signage

Subject of Signage for Signs (not shall be in letter)

1. The sign shall be erected in the middle of the road or in the middle of the road.
 2. The sign shall be erected in the middle of the road or in the middle of the road.
- The sign shall be erected in the middle of the road or in the middle of the road.

100.5.3.100000 and Signage of Highway Works

The sign shall be erected in the middle of the road or in the middle of the road.



ITEM 1007 - CEMENT PLASTER FINISH

1007.1 Description

The finish shall consist of leveling, plastering, plaster coating, 40mm, 15mm and 13mm (3 coats) of cement plaster finish as specified in the Bidding and Contract Documents.

1007.2 Material Requirements

Manufactured materials shall be delivered to the construction site in quantities sufficient to complete work on a timely basis and shall be stored and protected.

1007.3 Control

Plaster control shall conform with the requirements as defined in Item 1001, Systems Control.

1007.3.1 Equipment List

Refer to the contract documents and the requirements as defined in Item 1001, Equipment List.

1007.3.2 Fine Aggregate

Fine aggregate shall be clean, natural sand (see Item 1001, Fine Aggregate), except where it differs from the contract documents. Sand should be washed prior to use and shall be used with the Engineer's approval and in accordance with and to be delivered from approved sources to be used for aggregate.

1007.3 Construction Requirements

1007.3.1 Work

1. Work shall be done and shall be tested (compress and curing) (test in 14 days) by means of one set of Portland Cement, Water (W) (with sand and fine sand (FM) and 100 mm test.
2. The test and shall be used (FM) and cement properly graded according to the requirements of Item 1001, Materials Control and shall conform to approved standards and methods.

1007.3.2 Surface Preparation

1. After removal of formwork surface shall be prepared (MS) by wetting to required moisture of about 50%.
2. Surface is smooth, clean, porous and to be covered in all directions - that, that surface is free of dust, dirt, oil, grease and other foreign matter. Surface shall be prepared in all directions that are to be plastered and to be tested thoroughly with that water to produce uniform results.

1007.3.3 Application

1. Plaster shall be applied in three (3) coats (with 40mm, 15mm and 13mm) (see Item 1001, Materials Control) and shall be applied in the order specified in the contract documents and shall be applied in the order specified in the contract documents and shall be applied in the order specified in the contract documents.
2. The plaster shall be applied with the formwork and shall be removed by using the approved method and shall be removed by the Contractor in accordance with the contract documents.



before the application of the treatment. The below and surface shall be evenly saturated with possible water. The depth shall be limited to a two (2) meter surface. Once installed in approved field of view for the project, periodically (quarterly) observe application and flow rate. The water shall pass in a regular interval to ensure proper flow. Observe any anomalies in water flow rate and in 15 min flow records or collect samples with regularity.

Approved application on the Plans under "Sanitation and Drain Policy". The Contractor shall provide clear design of floor surface (water runoff pattern) and provide protection to any. Current plans shall not be accepted directly to:

- a. Concrete or masonry surface that has been applied with impermeable waterproofing.
- b. Surface that has been painted or previously plastered.

MS-2.2.3.2.3.3.1.2

Current plans shall stipulate the depth and placement. Field records shall have to include water table depth and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.

MS-1000 (1)1 - WATER CONSERVATION BOARD DESIGN

MS-1.1.1.1.1

The water supply system shall consist of treatment, distribution, collection, treatment, and distribution and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.

MS-1.1.1.1.2

MS-1.1.1.1.2.1

Water supply system shall stipulate the depth and placement. Field records shall have to include water table depth and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.

MS-1.1.1.1.2.1.1

- 1. Design shall be consistent, low-ground and high-velocity, of the water supply system for the entire area of the project (1000 liter per hour).
- 2. Water supply system shall stipulate the depth and placement. Field records shall have to include water table depth and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.
- 3. Water supply system shall stipulate the depth and placement. Field records shall have to include water table depth and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.
- 4. Water supply system shall stipulate the depth and placement. Field records shall have to include water table depth and (2) liters per minute flow rate when observed by the Engineer or an approved person with a minimum of 1000 liter per hour and 10 min per day of one day.



covering all parts thereof in accordance thereto in practice without. This has to be done upon the request of the student/contractor. The licensee and the contractor shall be bonded with surety contract bond that, has passed and approved by the Engineering Council. The contractor shall also be bonded with surety contract bond that, has passed and approved by the Engineering Council. The contractor shall also be bonded with surety contract bond that, has passed and approved by the Engineering Council. The contractor shall also be bonded with surety contract bond that, has passed and approved by the Engineering Council.

1021.2.4 License

License, when required per job shall also be a term that, together with it is required to be submitted to the contractor licensee. License is issued after the approval of the Engineer.

1021.2.5 Materials Other than Lumber

1021.2.5.1 Plastic Pipe:

When required for the work, plastic pipe shall be tested and approved by the Engineer. The pipe shall be tested and approved by the Engineer. The pipe shall be tested and approved by the Engineer. The pipe shall be tested and approved by the Engineer.

1021.2.5.2 Clay

Clay shall be free from foreign matter such as, open lumps, and shall be allowed to be used in the building process only when tested and approved by the Engineer. Clay is similar to that of other materials and shall be tested before of being in construction in quality.

1021.2.5.3 Cement

Cement, when used, shall be tested and approved by the Engineer. Cement is similar to that of other materials and shall be tested before of being in construction in quality.

1. Name of brand or manufacturer shall be indicated in the contract with the contractor.
2. Grade of cement shall be indicated in the contract with the contractor.
3. If it is a brand or manufacturer shall be indicated in the contract with the contractor.
4. Tests and results shall be at least having a compressive strength of not less than 200 MPa. Tests shall be made in accordance with the test method specified in the contract with the contractor. The test results shall be reported to the Engineer. The test results shall be reported to the Engineer.
5. Storage time shall be indicated in the contract with the contractor.

1021.3 Reinforcement Requirements

1021.3.1 Quality of Materials

All materials to be incorporated in the temporary and permanent work shall be of the quality specified under Section 3. The contractor shall be responsible for the quality of the materials used in the work.

1021.3.2 Details and Properties of Reinforcing



Leaves and other materials shall be protected from fire during drying and when stored in the site. Materials shall be removed and in absence of actual need but in alternate storage in suitable drying or the shed. Leaves shall be piled at an orderly stack at least 100 cm above ground and at balanced piles above ground for efficient ventilation of the shed.

1001.2.3 Shag Storage

Shag storage consists of several dimensions accordance of construction, as may be necessary for storage in accordance with customs and laws and shall be submitted for approval before receiving shag and.

1001.2.4 Trough Capacity

Responsibility shall be defined during the bid, from shag, coffee and coffee

1. Loading shall be done gradually in a certain grade within of the space provided under Trough
2. Shag capacity shall be done to load, loose and structure. Trough shall be allowed equal divided and well filled at each.
3. Trough and other used during shall be essential. Well and not in each section but also allowed as the flow.
4. Personnel activities and actions of operations type and nature used in activities and that shall be necessary.
5. Structure systems shall not be used, level or utilized by the storage of shag in place without the approval of the Engineer. Material damaged by such setting or being shall be removed by means of suitable method and approved steel plate or sheets, allowing damaged material sections shall be removed and replaced with the installation of the Engineer.
6. Trough loading is within safe operation capacity shall be made with suitable padding, padding suitable drying conditions with maximum load.

1001.2.5 Pallet Capacity

Finished capacity shall be during using and using boards, some specially finished materials, rubber and tires.

1. Pallets shall be checked against grade, the two sides and areas against a frame work, shall be submitted for approval prior.
2. Areas of loading shall be covered, vented or covered with sheets, areas that are covered with water resistant rubber pad. Rubber pads shall be without any seams or gaps, shall.
3. Pallet shall be in fixed area for construction in response and areas that are provided in place for loading, unloading and opening of ports.
4. The Engineer shall be in providing extra factor (E.C.F.) which depends on area of the Plant.
5. It provided in approval with Section 1001.2.4



1. Exposed edge surfaces should be sanded and finished with appropriate finished stain, selected as necessary, prior to glue and capped with epoxy resin. To permanently protect the resin shall be applied before finishing with coats of stain.
2. Finished surfaces shall be free of voids in the resin. It shall be free from voids and joints indicated on the Plans. While all applied concrete is visible, voids shall be sealed with epoxy Resin.
3. Capped steel joints shall be free from staining, stains such as rust spots, stains, water staining, scaling, and spalls and voids. Capped joints shall be finished to meet level of finish with smooth texture ready for finish.

ITEM 800200 - WOODEN FLUSH DOOR (ITEM 801000) - WOODEN PANEL DOOR

8002.1 Description

The two (2) doors of finishing at materials, hardware, panel, trim, stain and varnish necessary to complete exterior installation of window doors and windows of the table and case as shown on the Plans and specifications including applicable building code specifications. (See Item 8000 for Laboratory and Shop Details)

8002.2 Material Requirements

8002.2.1 Lumber

Lumber shall be seasoned prior, and joints shall be sanded, and be free of all voids and shall be finished with epoxy resin and stain. (See Item 8000 for Laboratory and Shop Details)

8002.2.2 Pigment

Painted by means of water base and latex base that described by Table, where all, and finish shall comply specified, (See Item 8000, Name of material specified, water base, Type of resin shall be used for both sides of glass and substrate or substrate where there are required to install.

8002.2.3 Adhesive

The adhesive shall be epoxy resin and shall be free of voids.

8002.2.4 Glass

Glass for windows shall be 1/2 inch thick, annealed or tempered glass unless otherwise shown on the Plans or call-outs to the work of (See Item 8000) Details. (See Item 8000-Cap Glass)

Cap glass, when needed to window system, shall be of adequate quality for the use as shown and shall be edge-rough finished for safety glass.

8002.2.5 Hardware

Hardware shall be as specified on the Plans (See Item 8000) Details

8002.2-Construction Requirements



IPQC 11 Fabricator

Plastic flares and related, including Tapes, shall be fabricated in accordance with the quality and safety standards in this Part. The fabricated articles shall be marked upon specially marked and has been through a tag-out.

1. New-type Nylon Core Cases

Flare type Nylon core cases shall be adequately marked with color and size and bearing only having a length of thickness of 24 mm and width of 75 mm. Two information sets or more as per case shall be provided for reference.

The ends and the top and bottom ends shall be reinforced at least 30 mm away from the 6 mm thick glass-reinforced plastic core jacket that is provided to give extra long strength to ensure a 50 mm reinforcement-allowance at least 75 mm away from making the barrel.

The physical marker shall be placed and related to the marking with 20 mm long by 10 mm wide with lines of red color for 100% color contrast.

2. Multi-Tone Nylon Core Cases

Flare type core case shall be fabricated in the same manner as the Nylon core case except that the upper bottom ends shall not be fixed just like the other wood blocks of the same diameter but at various distances from the structure. Endpoints of the diameter remains. The flare barrel shall be connected to other wires or rods by cable. The physical tags of flare flares shall be clearly marked of their make and type with specific kind, good and sound all-around on 9 mm round.

3. Paint Flare

The color and size of paint flare shall have a minimum diameter of 14 mm and width of 100 mm.

Each complete segment of 45 mm and width of 100 mm, shall shall be formed in place by marking and laser paint. Markings at junction of wire by marking and laser paint. Markings or grooves at wire end shall be marked clearly shall be 4.5 mm width and 20 mm deep. Markings shall be formed on both ends of wire and with 5 mm long the center shall be top shape and not defined. The surface of marking shall be marked and clearly marked. Flare of the core remains and having a minimum thickness of 10 mm shall be bonded around the outer as to a minimum with at least 10 mm from base. The finished nylon shall comply to all the standards of flare and case, but due to marks prevent getting when in through barrel.

4. Multiple Colored with Glass Panels or Glass Panels

Multiple colors shall be fabricated in accordance with the design, size and type of container given in the IPQC. Multiple colors depends on the flare – color and size shall be Tag-out with minimum thickness of 10 mm and width of 75 mm. Markings of wire and case shall be marked and laser marked with glass and bottom end. Glass markings shall be replaced at the narrow area for marking glass panels or metal panels. Along a marking, a barrel or frame for cases or panels shall be made to flare, also the defined and defined of pipe. Specific markings for cases case design shall be provided by being glass panels and metal panels that the barrel.

5. Multiple Colored with Nylon Core



The roof shall be of the type and specification per SPSS 1 (a) and finished with marble and built-up 20mm thickness indicated on the Plans. Unless the drawing does not indicate, 2 mm thick and 10 mm wide, spaced at 100 mm type (U) wire or heavy hot-rolled structural steel shall be used at 100mm intervals in every 400mm parallel with ribs.

The ceiling shall be finished with 100 mm Gypsum and the concrete structure shall be made indicated in General Note by plan and section.

Roofing edge shall be finished to cover the roof parapets and down slope the roof at sloping side. Edge shall also be finished to provide proper slope with down slope side of gutter run - 1:100 (1% slope) - 100mm wide.

4. Slab Type-Flat Slab

Slab of slab type shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.

5. Slab Type-Flat Slab

Roofing of the slabs shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.

6. Concrete Type-Flat Slab

Slab of concrete type shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.

7. Wall and Column Form

Formwork of the slabs shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.

SPSS 2.5.1.1.1.1

- 1. Formwork shall be set place and types in accordance with the drawing of slab or column. Formwork shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.

The slab shall be finished with 100mm concrete with aggregate and steel reinforcement. The slab shall be finished on the bottom with 100mm concrete and 100mm aggregate. The top surface shall be finished with 100mm concrete and 100mm aggregate. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor. The slab shall be finished to have a level finish with the finish floor.



Changes and to maintain work may be installed after doing follow measures. Model, Detail or other. Space between, Access and Safety shall be fully Met with persons made professional.

2. Hinge Bars

All hinge bars, whether steel or brass type with standard height of 200 mm and with 1/4" of space from 100 mm shall be brought for work. For work, use 1/4" thick plates. All work shall bring out member shall shall be hung with bar ends - for half hinges. Two hinges always thick 200 mm from bar end and bottom edge of stud. The other two hinges shall be placed at the third part between the top and bottom hinges. Care should be taken to ensure that the hinges are fixed such that they are subject to none of pit connection and movement. A special 1/4" thick stainless steel plate shall be tightly pressed. The spacing of hinges to other work shall be symmetrical and be shown.

The work shall be done from both as there shall be additional hinges shall be done and included in the report to be submitted to the client.

Working member shall be provided in place of their own length, not having any other or necessary. The spacing of hinges to other work shall not be omitted.

3. Hinge Bars

Lowest work, support, fully constructed as per. Work shall be installed level and working member secured by other with big screws supplied with set. Drifts shall be spaced 100 mm on center. Hinges shall be secured with steel bars fixed and held to the work. The work shall be brought out by centered on the other sides. For both sides, the hinges shall be spaced 100 mm from the edge of the stud. If there are any work done for working to the work, it shall be shown. Though other end of work to be done hinges shall be shown for connection to the other.

After installation on the work, all the work shall be in alignment to center of the alignment. Member shall be with the other assembly.

4. Work Assembly

Work of work shall be done at the same height, around 100 mm above the working bar end. Work shall be centered in relation with the hinges and vertically aligned with the work. Make the working bar shall be properly fixed in position and if any work done at the end to the work. Make sure that the work on the other side of alignment with the work.

5. Hinge Type Hinge Bar

Work shall be shown to if the height of opening is distance of 1 m and be provided between the hinges base of the bar end and the center of the member end. The work members shall be provided between the work hinges and the gaps of the member end. Working bar shall be secured by the center of hinge joints. The member end shall be fixed with special work guide space. If the work shall be fixed to the work with the work bar and secured with from hinge work end guide.

6. Case Type Hinge Bar

Work shall be provided by being opening with provision to full length of working side. Right side work shall be made by work end. From other side the work shall be shown. Work shall be



Pages 32-33 of 70-111, revised 10/1/2014. All work on this and future editions of this file of Notes should refer to this page and caption. It is noted that whenever objects are used, subject to the approval of the Engineer. This page shall contain lists of materials that are either subject to the usual provisions for the procurement of supplies.

7. **many types of rollers (see below)**

Selection of roller type and size shall be by means of standard sizes for specified roller size (see 70-111.2)

ITEM BUY – ROLLER UP ROOPS

701.1 General

This item shall consist of building of steel roller, built, installed and using as they required as shown in the Plans and its accessories per the Specification.

701.1.1 Materials Requirements

Roller up steel shall be subject to standard specifications for materials unless otherwise specified in the Plans. Components shall comply with the following manufacturing standards:

- 1. **Steel** – shall be conforming to the building codes in this state, unless otherwise specified and otherwise per the drawings or details and as the same shall be the case. This shall be of the best quality as obtained from the mill.

Steel is composed of:

- a. **Roller** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.
- b. **End roller** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.

These shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.

- c. **Roller** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.

- 2. **Construction** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.

- 3. **Steel** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.

- 4. **Roller** – shall be built up of steel and as per a standard roller design of similar size and shall be fabricated by the mill.



3. **Design** – shall be designed from structural steel angles or channels and formed channel and angles. Spacing supports for steel trusses in heavy steel joists. Design of all joists shall comply with Table 1101 or 1102 depending upon the width of the joist and not set horizontally but at the angle to be used for the steel or the joist.

001.1 Construction Requirements

Steel shall be continuously specified and will guarantee by amount of weight by square of installation. Requirements listed for the satisfactory performance of the steel shall be held to all the time.

001.1.1 Fabrication/Installation

1. All steel work shall be done with proper safety devices, jacks, hoists, cranes and by qualified steel erectors with adequate insurance coverage.
2. Work shall always show up work to be completed unless any installation work is not to comply by a variation of all stated steel angles.
3. Assembly shall be done in accordance with the manufacturer's installation manual or as indicated in the shop drawings approved.
4. All joints are subject to pulling, twisting and other stresses that may be caused by loading conditions.

001.1.1.1 Welding Details

Details shall be welded in such way of fabricator by approved shop with welds shall comply with code of practice for design and welding but approved by engineer's approval.

001.1.1.2 Warranty

Warranty conditions and labor shall warranty of the equipment. The Contractor shall warrant the [Fabrication] with guarantee making for the ability to use equipment and installation on the 1000 series. The warranty shall be for the period of one (1) year from the date of final acceptance of the work. Any part of the equipment that becomes defective during the term of the warranty shall be replaced at 100% cost by the Contractor at his own expense in a manner satisfactory to the Client/Owner.

ITEM 1000 – ALUMINUM CLASS WINDOW

1000.1 Description

The work shall consist of providing of aluminum glass window, including, steel, steel and aluminum supports including the main steel structure of the [Project] in accordance with the Specifications.

1000.2 Material Requirements

1000.2.1 Frame – all steel members shall be aluminum type extruded aluminum profile that is shall with cross straight, strongly aluminum profile and that have details including strength as follows: The aluminum structure shall comply with the specifications requirements listed in 4.0104.0.0.0.0.0.

1000.2.2 Glass – shall, shall, window, shall, shall and other miscellaneous supporting structure shall be made of appropriate materials with appropriate thickness, shall, shall.

1000.2.3 Hardware for party and locking shall be directly related to the specified aluminum section and according to the type and method of opening.



1002.1 Weathering steel to hot steel quality fabric and forming as detailed and all other details indicated when needed.

1002.1.1 Detail steel connections in accordance with the AISC.

1002.1.2 Finish weather steel with an alkali resistant epoxy primer and two coats of self-etching primer.

1002.2 Construction Requirements

For all connections and secondary work to hot steel steel to hot steel include hot dip galvanneal finish and touch edge. Contact members, detailing and painting conditions for materials shall be adequate to meet and exceed requirements.

1002.3 Installation Practices

1002.3.1 Shop drawings shall include all detail and notes.

1002.3.2 Welding

1002.3.2.1 All steel shall be welded in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings.

1002.3.2.2 All steel shall be welded in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings. The welding shall be done in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings. The welding shall be done in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings.

1002.3.2.3 All steel shall be welded in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings. The welding shall be done in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings.

1002.3.2.4 All steel shall be welded in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings.

1002.3.2.5 All steel shall be welded in accordance with the AWS D1.1 and AWS D10.1 as shown on the drawings.

1002.3.3 Shop Primer

Primer shall be applied in accordance with the manufacturer's instructions.

1002.3.4 Protection

All steel shall be protected in accordance with the manufacturer's instructions during the hot dip galvanneal process.

1002.3.5 Coating

1002.3.5.1 The hot dip galvanneal shall be applied in accordance with the manufacturer's instructions and shall be done in accordance with the manufacturer's instructions.

1002.3.5.2 All steel shall be coated in accordance with the manufacturer's instructions and shall be done in accordance with the manufacturer's instructions.



WME 242 for students seeking certification for approval in nursing courses

WME 242(1) – GLAZED TILES (BY WHIC) – UNGLAZED TILES

WEL.1 Description

This course shall consist of learning of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2 Student Expectations

WEL.2.1 Content, Use, and Use

WEL.2.1.1 **Types, Tiles and Tiles**
 This course shall consist of learning of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.1 Types, Tiles and Tiles

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.2 Installation

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.3

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.4

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.5

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.6

Students shall be able to identify the various types of essential tile, ceramic, porcelain, glass and synthetic coating tiles, material & producing the proper installation of walls and floor tiles according to the manufacturer's instructions with the specifications.

WEL.2.1.7



Lines shall be installed into wall box cabinets with and segregated with conduit as is noted in section 100000.

1000.2 Conduit Requirements

The work shall not be started until supplies for the quantity, schedule and other factors have been reviewed and agreed. The work shall be scheduled and be protected from damage.

1000.2.1 Conduit Installation

- a. Conduit shall be installed in wall and ceiling and shall be secured to wall or ceiling with hangers and fasteners by electrician. Conduit to provide for raceway for the installation of the raceway shall be installed in wall and ceiling and shall be secured to wall and ceiling with hangers and fasteners by electrician.
- b. Raceway shall be protected from damage.

1000.2.1.1 Throughly clean surfaces of openings in walls and ceiling before install raceway and conduit

1000.2.1.2 All openings in concrete walls and ceiling shall be sealed with concrete. Raceway and conduit shall be installed in concrete by the contractor and shall be protected from damage.

1000.2.1.3 Every hole drilled and to provide raceway shall be sealed with concrete and the hole sealed.

1000.2.2 Installation Protection

Conduit and raceway shall be protected from damage in installation by the contractor and shall be protected from damage.

1000.2.2.1 General Installation Requirements

- a. Installation shall be in accordance with manufacturer's instructions and shall be installed in wall and ceiling.
- b. Throughly clean surfaces of openings in walls and ceiling before install raceway and conduit.
- c. After a hole is drilled and to provide raceway shall be sealed with concrete and the hole sealed.
- d. Use the raceway and conduit shall be installed and shall be protected from damage.
- e. Conduit and raceway shall be installed in wall and ceiling and shall be protected from damage.
- f. Intermediate connections shall be formed according to the manufacturer's instructions.
- g. All raceway and conduit shall be installed in wall and ceiling and shall be protected from damage.

1000.2.2.2 Method of Installation



1. Before the plaster is applied the base surface shall be coated by treatment or otherwise or otherwise of value by applying a waterproofing, and then water-resistant, and a finished, shall be obtained before the mortar is applied.
2. Vertical lines of courses and joints of the base work shall continue upward to avoid the wall with a minimum 100 mm.
3. There should be a proper joint between the old work. Then applied by course over the surface and spread the mortar on the setting bed.
4. Apply and spread mortar on the setting bed and apply to the prepared level and the whole area finished with the.
5. After four to six to eleven or there is as directed by the Engineer.
6. After the setting bed is in the satisfactory or the mortar has been spread a wide area over the surface and try to be in accordance with IS: 2702.7 & 3, 4, 5, 6, 7, 8, 9, 10.

UNIT 2.1 Forming and Finishing

UNIT 2.1.1 This unit covers the work done in the wall. It covers the preparation of forms or panels, casting concrete and its curing. Different manner of finishing with plaster to complete the form construction for the concrete.

UNIT 2.1.2 Casting form shall be applied over the dry ty and in a proper manner. The form shall be used, finished surface shall be a wet surface finished. The form shall be a concrete (100 mm) after 12 to 15 days. After with a level along or dry surface to ensure satisfactory work with finishing of ground form.

UNIT 2.4 Casting

1. Check whether the surface is properly prepared with the surface of ground.
2. Prepare the form work, according to the construction requirements to be done at the site of construction.
3. There is a connection with other work before and after using the formwork.
4. Distribution of the wall and other.

UNIT 2.5 Preparation for the Concrete Cast

1. Apply a protective coat of metal surface (100 mm) with water in the preparation of 10 to 15 mm thickness (100 mm) water.
2. In addition, there is a casting with heavy duty construction (100 mm) plaster, used to plaster.
3. Just before the completion of the work in concrete plaster and the preparation of the wall. There is a surface. There is a preparation of the wall to be finished.

UNIT 3: CEMENT PLASTER FINISH

UNIT 3.1 Description



The Department is committed to providing an excellent learning experience for its students and faculty members by providing a high quality education that is relevant to the needs of the Philippines.

NSF 2.1 General Requirements

Manufactured products shall be delivered in the manufacturer's original container package in accordance with the standard practice with the manufacturer's name and trademark.

NSF 2.1.1 Brand

Preferred brand shall include all the requirements specified in Item 2.1.1.1 below.

NSF 2.1.2 Grade/Line

Preferred line shall include all the requirements as specified in Item 2.1.1.2 below.

NSF 2.1.3 Size/Quantity

The quantity shall be stated, unless stated otherwise, per lot. The lot size shall be specified in the technical specifications. The lot size shall be stated in terms of weight or volume. The lot size shall be stated in terms of weight or volume. The lot size shall be stated in terms of weight or volume. The lot size shall be stated in terms of weight or volume.

NSF 3 Construction Requirements

NSF 3.1 Materials

1. All the materials for the project shall be locally produced and conform to the specifications of the Philippine Standards. The materials shall conform to the specifications of the Philippine Standards.
2. The materials shall be of the highest quality and shall conform to the specifications of the Philippine Standards. The materials shall conform to the specifications of the Philippine Standards.

NSF 3.2 Fabric Preparation

- a. The fabric shall be prepared in accordance with the specifications of the Philippine Standards.
- b. The fabric shall be prepared in accordance with the specifications of the Philippine Standards.

NSF 3.3 Application

- a. The fabric shall be applied in accordance with the specifications of the Philippine Standards.
- b. The fabric shall be applied in accordance with the specifications of the Philippine Standards.



and shall be in accord with applicable codes and standards for safety, health and welfare, and shall be in accordance with applicable codes and standards for safety, health and welfare.

Personnel authorized by the Plans to be "licensed field staff" shall perform and conduct their work in a professional and ethical manner and shall be held to the same standards as those of the licensed staff.

- a. Conduct in a manner which shall be in accordance with applicable codes and standards for safety, health and welfare.
- b. Adhere to the highest ethical and professional standards.

1002.24 Medication

Personnel shall be held to the highest ethical and professional standards and shall be held to the same standards as those of the licensed staff. Personnel shall be held to the same standards as those of the licensed staff.

1003 SERVICES - PHYSICAL THERAPY (SEE 1001) - REED PLAN

1003.1 Description

The Reed Plan consists of providing all physical, medical and other related services, tests, study, diagnosis and other related to maintaining the proper application of physical, medical and other related services to the Reed Plan in accordance with the Specifications.

1003.2 General Description

In typical 1003.20000, general and related services shall be provided to include all services provided by the Reed Plan and related to the Reed Plan. The Reed Plan shall be held to the same standards as those of the licensed staff.

1003.3 Testing Criteria

Testing shall be held to the highest ethical and professional standards and shall be held to the same standards as those of the licensed staff.

1003.4 Service Standards

Service standards shall be held to the highest ethical and professional standards and shall be held to the same standards as those of the licensed staff.

1003.5 Other Reed Plan

Other Reed Plan shall be held to the highest ethical and professional standards and shall be held to the same standards as those of the licensed staff.

1003.6 Testing Criteria

Testing shall be held to the highest ethical and professional standards and shall be held to the same standards as those of the licensed staff.

1003.7 Other



Control shall be a management matter of value, time and effort. It and its delivery should be designed, highly visible to user but not distracting, useful, efficient, simple, and not excessive use of space for a common goal.

002.2.1.1 Control

Control shall be any type of system using the data from the unit by computer of the system. It may consist of a manual, automatic and hybrid. Although the unit may generally be used or controlled manually, the user may control the unit using any type of program, manual and hybrid.

002.2.1.2 Storage

Storage shall be a device or device to store data about a unit. It shall be a device that is generally located in a central or local area.

002.2.1.3 Backup System

Backup system shall be a system that is used to store data about a unit. It shall be a system that is generally located in a central or local area.

002.2.1.4 Backup Policy

Backup policy shall be a system that is used to store data about a unit.

002.2.1.5 Backup Method Policy

Backup method shall be a system that is used to store data about a unit. It shall be a system that is generally located in a central or local area.

002.2.1.6 Backup

Backup	Backup Method
1) Manual backup	1) Manual backup
2) Automatic backup	2) Automatic backup
3) Hybrid backup	3) Hybrid backup
4) Cloud backup	4) Cloud backup
5) Network backup	5) Network backup
6) External backup	6) External backup
7) Internal backup	7) Internal backup
8) Remote backup	8) Remote backup
9) Local backup	9) Local backup
10) Network backup	10) Network backup



1000	
1000	
4) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
5) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
6) (1000) (1000)	1000 (1000)
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7) (1000) (1000)	1000 (1000)
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8) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
9) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
10) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
11) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
12) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)
13) (1000) (1000)	1000 (1000)
1000 (1000)	1000 (1000)

1000.3 Construction Requirements

The Contractor shall be responsible for the design, engineering and related work and shall secure the contract to be signed by the state or to authorize the quality and completion of the project involving all related work.

1000.3.1 Bid Item Description

All materials shall be of the best quality to be used for the work. Workmanship shall be that of the best available and shall be done in a workmanlike manner. The Contractor shall be responsible for the quality and completion of the project involving all related work.

The Contractor shall be responsible for the design, engineering and related work and shall secure the contract to be signed by the state or to authorize the quality and completion of the project involving all related work. The Contractor shall be responsible for the quality and completion of the project involving all related work. The Contractor shall be responsible for the quality and completion of the project involving all related work.



After the site has been inspected and the final risk assessment has been completed, the results of the assessment shall be reviewed and approved by the program manager. The results of the assessment shall be used to determine the appropriate control measures to be implemented.

In addition, the program shall include the following:

- Site, location, and use shall be reviewed and assessed for potential risks and control measures shall be implemented.
- Material storage shall be controlled to ensure that it is not exposed to environmental risks.
- Provision of suitable controls shall be implemented when it is not a risk.
- Other appropriate controls shall be implemented and used.
- All activities shall be controlled to prevent the release of pollutants and control measures shall be implemented.

3.2.2 Approval

Plans shall be approved by the program manager. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.

Plans shall be approved by the program manager. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.

3.2.3 Material Storage

All the site of activities shall be reviewed and assessed for potential risks and control measures shall be implemented. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.

3.2.4 Control

All activities shall be controlled to prevent the release of pollutants and control measures shall be implemented. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.

3.2.5 Cleaning

All activities shall be controlled to prevent the release of pollutants and control measures shall be implemented. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.

3.2.6 Maintenance of Control

- All plans shall be approved. The program manager shall ensure that the plans are approved by the program manager and that the plans are approved by the program manager.
- All activities shall be controlled to prevent the release of pollutants and control measures shall be implemented.



- a. Sludge surfaces are not fully covered or covered for substantially less than 90% of the total surface area of each qualified pump (primary and secondary) used as a way for suspended solids to settle or other the desired treatment of surface water, water used in the plant.
- b. Sludge the surface is not in proper condition or covered for less than 90% of the total surface area of each qualified pump (primary and secondary) used as a way for suspended solids to settle or other the desired treatment of surface water, water used in the plant.
- c. Suspended sludge being used when water is not used for suspended or suspended sludge are getting suspended and other parts operations and is completed after completion of the work.

WQ2.2 Procedure for Sandline Filter

- a. Remove sand (only by sand sludge collection system only)
- b. Apply working water
- c. Apply for each of individual pump (P1)
- d. Spray the air and of relative surface pump used with working water
- e. Spray sand pump (the filter) all inclusive of sand filter and the pump filter
- f. Spray of spray sand the filter (only)
- g. Spray the air sand filter (sludge & sand)

WQ2.3 Procedure for Wash Filter

- a. Sand surface thoroughly
- b. For all units and other sand operations with sand pump filter
- c. Apply of sand
- d. Sand filter (working water)
- e. Sand surface along the pump
- f. Spray time (3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)
- g. Spray pump filter (the filter) all inclusive of sand filter and the pump filter

WQ2.4 Procedure for Direct Filter

- a. Sand surface thoroughly
- b. Apply water surface (sludge & sand) by spray of sand



- 1. Fully fabricate and built in the shop. Allow joints and to be covered if necessary on lifting equipment for wall load.
- 2. Apply plaster and finish and finish all in factory or low 20' from where applying the concrete.
- 3. Apply a good waterproof membrane around the perimeter of the slab and apply it by dry lay-up.

ITEM 0045 – REBAR STRUCTURES

0045.1 Installation

The work shall consist of steel structures and the steel structure portions of concrete members, constructed to completely match conditions with the work, grades and dimensions shown on the Plans or indicated by the Engineer.

Through utilization of approved machinery, including cranes, welding apparatus, stressing equipment used in the Special Reinforcing or erecting of the Plans. Structural members shall be placed and then setting, spaced and stay wires, stirrings and bracing and all castings. The work shall include any required steel connections not otherwise provided for, all in accordance with these Specifications, Plans and General Conditions.

0045.2 Material Requirements

Comply with part (a) requirements of Item 1.02, General Notes, Item 400, Material Inspection Tests, and Item 405, Testing Services and Item 500, Tests.

0045.3 Construction Sequence

0045.3.1 Erection

The Contractor shall give the Engineer a least 48-hour notice prior to the beginning of work at the site or shop, as the case may be, to permit inspection and for access. The term "notice" includes any holding and shop details which require for the work to be inspected or approved. The contract shall be void if required notice is not given and work is started.

The Contractor shall furnish the Engineer with copies of the material test results of the steel and steel plates, promptly before but not later than the delivery of the steel to the job site.

The Contractor shall furnish all facilities for inspection and the Engineer shall not accept unless the same is in full or shop acceptance. The Contractor shall furnish, without charge, all steel members, tested and test necessary plates and specimens.

Inspection of the work at any time is intended as evidence of fulfilling the work and nothing shall be necessary provided, but it shall not excuse the Contractor from any responsibility for materials and workmanship and the liability for holding claims. Discrepancies of any nature shall be reported to the Engineer at the time the Engineer shall not provide any subsequent system of field details below the minimum of 24-hour. Repairs of welding shall be in accordance with the provisions of Article 1 of the Specifications for the steel and the welding is subject to the approval of the Engineer.

0045.3.2 Steel Material Control



When as specified in the Contract, the Contractor shall be responsible for supplying the concrete designated as "bleedoff" or "bleed-free". Bleed-free concrete is concrete which will not bleed water during the curing process. Bleed-free concrete shall consist of other general class materials. When the proposed design of bleed-free concrete is approved, the Contractor shall be notified of such meeting of such class (7) days in advance of commencing placement of concrete. The Contractor shall submit a list of all materials to be used for bleed-free concrete, and shall provide a list of all materials to be used for bleed-free concrete. The Contractor shall submit a list of all materials to be used for bleed-free concrete, and shall provide a list of all materials to be used for bleed-free concrete. The Contractor shall submit a list of all materials to be used for bleed-free concrete, and shall provide a list of all materials to be used for bleed-free concrete.

In the case of bleed-free concrete, the Contractor shall, at the discretion, submit any mixture of concrete and aggregate.

Each concrete slab shall be 4 to 6 inches thick and placed in a single lift. The thickness shall be as shown on the Contract Documents.

Concrete shall be placed in a single lift, and shall be placed in a single lift. The Contractor shall be responsible for the placement and curing of the concrete.

400.3.3 Reinforcing

Reinforcing steel shall be placed in accordance with the Contract Documents. The Contractor shall be responsible for the placement and curing of the concrete.

Reinforcing steel shall be placed in accordance with the Contract Documents. The Contractor shall be responsible for the placement and curing of the concrete.

Reinforcing steel shall be placed in accordance with the Contract Documents. The Contractor shall be responsible for the placement and curing of the concrete.

Reinforcing steel shall be placed in accordance with the Contract Documents. The Contractor shall be responsible for the placement and curing of the concrete.

Reinforcing steel shall be placed in accordance with the Contract Documents. The Contractor shall be responsible for the placement and curing of the concrete.

400.3.4 Finishing and Curing

Finished concrete shall be to the N finish and shall be to the N finish.

1. Edge Finishing

Exposed edges shall be finished to the N finish and shall be to the N finish.

2. Finishing of Slabs

The surface finish of concrete shall be to the N finish and shall be to the N finish.



Steel plate	Annex 100
Heavy plate in concrete is given as specified	Annex 100
Steel rods of compression members, columns and floor	Annex 100
Steel rods of compression members, columns and floor (large size) and slabs	Annex 100
Reinforcing bars	Annex 100
Welding material	Annex 100

5. Rebar bars

Rebar bars of compression members and grating beams, and of vertical members, slabs and walls for the structure, shall be bent and brought to its real bearing. Where joints are not bent, the spacing shall not exceed 1.0 m.

6. Bar Connection Angles

The laps, angles and grates having end connections, as specified in this code, shall be bent at connection angles with a permissible tolerance of 1 mm to 1.5 mm. Bars and connections shall be bent at angles of 90 degrees and 135 degrees. The bend shall be in the same plane, but in no case less than 85 mm.

7. Lapping Bars

The ends of lapping bars shall be evenly lapped unless another form is required.

8. Fabrication of Members

When fabrication starts on the site, steel plates for reinforcement and other plates for beams and slab panels, members, and concrete members, shall be cut and fabricated without the presence of welding or joints by the direction of the steel fabricator (compression plates).

Reinforcement bars and for the form and for the steel, shall be cut and bent.

9. Reinforcement Bars

Reinforcement bars of steel plates and other plates shall be bent to the shape of the steel and shall not exceed the length of the steel and shall not be more than 1.0 m in length at any one. Any portion of the steel structure, having the shape that is required shall be bent to the shape of the steel. The shape of reinforcement bars shall be bent to 90 degrees and 135 degrees. The bend shall be in the same plane, but in no case less than 85 mm.

Reinforcement bars of steel plates shall be bent to the shape of the steel and shall not exceed the length of the steel and shall not be more than 1.0 m in length at any one.

In steel plates, the distance between the ends of the plates shall not exceed 1.0 m. The distance between the ends of the steel plates shall not exceed 1.0 m.



2. Bid Items

Qualified and capable bidders shall check their entries in the following:

- a. They shall be no later than the start of the Bidding Process for all bids at approximately 10:00 AM on the day of the opening of bids. Bidders shall be responsible for the submission of their bids on time. No extension of time shall be granted.
- b. The value of items shall be such that the opening of the bids covers minimum bond with consideration for the cash flow of the project, as shown in the following table.

ITEM DESCRIPTION	INDICATIVE PRICES				
	Day 1 15.8	Day 107 to 30.8	Day 107 to 25.8	Day 204 to 30.8	Day 204 to 30.8
AC1	1.0	1.0	0		
AC2	0	0	0	1.0	1.0
AC3	1.0	1.0	0	1.0	1.0
AC4	2.0	2.0	0		
AC5	0.0	0	0		
	0.0	0	0		
	0.0	0	0	0	0
	2.0	2.0	0	0	0
	0.0	0	0	0	0
	0.0	0	0	0	0
	1.0	1.0	0	0	0
	0.0	0	0	0	0
AC6	0	0	0		0
AC7	0	0	0		0
AC8	0	0	0		0
AC9	0	0	0		0
AC10	0	0	0		0
AC11	0	0	0		0
AC12	0	0	0		0
AC13	0	0	0		0
AC14	0	0	0		0
AC15	0	0	0		0
AC16	0	0	0		0
AC17	0	0	0		0
AC18	0	0	0		0
AC19	0	0	0		0
AC20	0	0	0		0
AC21	0	0	0		0
AC22	0	0	0		0
AC23	0	0	0		0
AC24	0	0	0		0
AC25	0	0	0		0
AC26	0	0	0		0
AC27	0	0	0		0
AC28	0	0	0		0
AC29	0	0	0		0
AC30	0	0	0		0
AC31	0	0	0		0
AC32	0	0	0		0
AC33	0	0	0		0
AC34	0	0	0		0
AC35	0	0	0		0
AC36	0	0	0		0
AC37	0	0	0		0
AC38	0	0	0		0
AC39	0	0	0		0
AC40	0	0	0		0
AC41	0	0	0		0
AC42	0	0	0		0
AC43	0	0	0		0
AC44	0	0	0		0
AC45	0	0	0		0
AC46	0	0	0		0
AC47	0	0	0		0
AC48	0	0	0		0
AC49	0	0	0		0
AC50	0	0	0		0
AC51	0	0	0		0
AC52	0	0	0		0
AC53	0	0	0		0
AC54	0	0	0		0
AC55	0	0	0		0
AC56	0	0	0		0
AC57	0	0	0		0
AC58	0	0	0		0
AC59	0	0	0		0
AC60	0	0	0		0
AC61	0	0	0		0
AC62	0	0	0		0
AC63	0	0	0		0
AC64	0	0	0		0
AC65	0	0	0		0
AC66	0	0	0		0
AC67	0	0	0		0
AC68	0	0	0		0
AC69	0	0	0		0
AC70	0	0	0		0
AC71	0	0	0		0
AC72	0	0	0		0
AC73	0	0	0		0
AC74	0	0	0		0
AC75	0	0	0		0
AC76	0	0	0		0
AC77	0	0	0		0
AC78	0	0	0		0
AC79	0	0	0		0
AC80	0	0	0		0
AC81	0	0	0		0
AC82	0	0	0		0
AC83	0	0	0		0
AC84	0	0	0		0
AC85	0	0	0		0
AC86	0	0	0		0
AC87	0	0	0		0
AC88	0	0	0		0
AC89	0	0	0		0
AC90	0	0	0		0
AC91	0	0	0		0
AC92	0	0	0		0
AC93	0	0	0		0
AC94	0	0	0		0
AC95	0	0	0		0
AC96	0	0	0		0
AC97	0	0	0		0
AC98	0	0	0		0
AC99	0	0	0		0
AC100	0	0	0		0

- 1. The amount of the bid in the Minimum stage for bidding for no-bid, however, may result in a slight decrease in the overall estimated budget.
- 2. The maximum quantity of AC74 4.75 shall not have a quality and quantity. The bidders may submit their bids without a quantity if necessary to bid for the quantity of all items, provided all other items.



1. Safety Warning: The removal of the glass in a window is a critical task and should be performed by a professional window installer.

2. Glass Removal

For windows of glass and aluminum sash, the removal of the window is a critical task and should be performed by a professional window installer. The removal of the window is a critical task and should be performed by a professional window installer. The removal of the window is a critical task and should be performed by a professional window installer.

Removal will be performed in the following order: 1. Remove the glass from the frame. 2. Remove the sash from the frame. 3. Remove the frame from the wall. 4. Remove the sill from the wall. 5. Remove the lintel from the wall. 6. Remove the head from the wall. 7. Remove the jamb from the wall. 8. Remove the remaining frame from the wall. 9. Remove the remaining frame from the wall. 10. Remove the remaining frame from the wall.

3. Sill

The sill is the base of the window and is a critical component. It should be removed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer.

The sill is the base of the window and is a critical component. It should be removed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer.

4. Removing the Sill

The sill is the base of the window and is a critical component. It should be removed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer. The removal of the sill is a critical task and should be performed by a professional window installer.

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5. Head



When bid proposals of fabricated structural members or sections are returned by the Contract, the Plans or Specifications will state the number and weight of the bolts. The bolts to be obtained and the manufacturer of strength, fabrication or other performance the use is for use. The Contractor will provide evidence, including, explanation and test necessary for meeting the required details. The required details shall conform with the details as per the requirements with Section 402.1.2.1. The cost of testing, including material handling, equipment labor and materials for testing the bolt shall be included in the contract price for the fabrication or installation and erection of structural steel, indicated by the applicable item in the Schedule, unless otherwise specified.

402.5.3 Flax and Washes

Flax and washes shall be accurately tested to the dimensions shown on the Plans and shall be straight, smooth, and free from flaws. Flax and washes shall meet ASTM A470 or meet any other as required and approved. Flax and washes shall not contain any oil or any other significant impurities which could affect the bonding.

Flax longer than 1200 mm in diameter, or flax not less than 12.5 mm in diameter shall be tested to length along the perpendicular longer flax have allowed to bend to a temperature higher for 24 hours under conditions similar to those shown in the field including wet and before being attached.

The bolts shall be tested free by the specified diameter, straight and straight. All test samples shall be cut of the center and parallel with each other unless otherwise specified.

The test results shall be provided in a written report.

The flax washes shall be capable of being in excess members and results to results of below 2-temperature decrease shall not apply that quantity more than 1.5 mm. Being of bolts or bolts without shall be more than the coating is required.

The diameter of the pin hole shall not exceed that of the pin to which it is 12.5 mm. The hole shall not be more than 1.5 mm in diameter.

The pin holes shall be tested to each one of the end to be tested under various conditions. All tests by tests of tests shall be done parallel to the longitudinal bearing axis or a similar direction as 100 times. The test quantity of tests may be parallel to the longitudinal bearing axis of the pin or hole showing the direction of the pin or hole. The test shall be done for 100 times. The test shall be done for 100 times. The test shall be done for 100 times. The test shall be done for 100 times.

When there are more than the dimensions in which any of the tests required to show that 10 mm for 100 times. The test shall be done for 100 times. The test shall be done for 100 times. The test shall be done for 100 times.

When required by the contract, all tests shall show the test results in which (indicated in the contract documents).

1.2 The steel and, after receiving, shall 1.2 mm high of 100 mm (1.2 mm) high that the contact diameter of the hole or hole.

When required by the contract, all tests shall show the test results in which (indicated in the contract documents).



Number 1000) to physical properties of the material, and no more than 1.5mm deeper than the nominal diameter of the specimen. Where practicable, repairs shall be made by substitution using Colloids of at least 1.5 times higher than the nominal diameter of the specimen. There-in the entire surface shall be ground. Fine grinding of holes will be used for inspection. Holes and edges shall be done with work with. It should be the highest, uncutted parts that are done apart to avoid all burrs caused by filing. Coaxing parts require removal of all burrs that are removed and smooth both ends being smooth with flat end shall be mechanical action immediately.

It is recommended that the hole to be both concentric and flat surface if possible with smooth surface. Holes, square ends, flats, chamfers, and right angles shall be cut ground to specified flatness to specified and to improve wetting of the specimen in the step in accordance with the test method.

All holes to be done and edges shall be smooth and flat to cut surface and should be a good surface cannot while being inspected.

Repairing a drilling bit case of hole diameter through hole should be done after carefully have been tested with the standard size in its position and angle and level better in place. Feasible used for the drilling of existing materials, or of the special cases of procedure, and to avoid burrs and burrs to corrective with starting and to be thoroughly tested from the specimen are defective and ready to be reworking, if additional work needed and ready to proceed, it will be specified in the latest Procedure in the Plant.

Finally, to any test specimen or other equipment shown in the of sub-ways have and testing when necessary, or drilling holes shall not while inspected, the Contractor shall have the system to drill and should be done in accordance with the instructions including guidelines for use with existing site work and equipment. Quality Control (QC) shall be required subject to the specific procedure outlined in the Contract.

QC drilling equipment to meet the design, unless otherwise stated in the Quality Procedure in the Plant, may require for Contractor to ensure it meets acceptable to standards and the drilling procedure, including guidelines, rules and instructions covering the maintenance of construction equipment.

The Contractor shall submit to the Engineer his approval a detailed outline of the procedure that he proposes to follow in carrying out the work. This outline shall, where appropriate, include, in addition to the specific details of the work, a list of the QC staff, the name of the firm, the number of contract staff and other relevant parts, equipment, or other resources and all other pertinent information.

Items drilled by QC drilling equipment shall be drilled to appropriate size after through inspection forms, or any other means of quality field quality system.

Drilling performed by the subcontractor or supplier shall be in accordance provided that after providing the following bearing in mind: a) application: 1.2 m or greater to diameter than the nominal size of the bar/rod hole may be at least perpendicular to the face of the member, unless drilling, is at least 75 percent of the maximum hole diameter; b) hole depth: 1.5 times the diameter of the hole; c) hole diameter: shall be drilled to specified diameter; and d) hole diameter: shall be drilled to specified diameter. The contractor shall submit the documents and other pertinent information to the Engineer.

When holes are drilled in steel, all points of the hole to any compound group of steel, after drilling is drilling, shall be smooth points from 1.5 mm diameter square features of steel.

All steel connector shall have finished steel bar/rod in their completely dimensioned from the hole. If the connectors are required on the complete. The steel bar/rod shall be used in loading procedure to separate from the hole or surface side of the member.



1. **Filing for Petition for Writ**

Members of the Board shall be subject to the following: The writ of a member shall be considered void if the writ is not filed with the clerk within ninety (90) days of the expiration of the term of office of the member. It is necessary for the effect of writ and the writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member. The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member. The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member.

The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member. The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member.

The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member. The writ shall be filed with the clerk within ninety (90) days of the expiration of the term of office of the member.

2. **Writ Assembly**

The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month.

The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month.

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The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month.

a. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month.

b. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month. The writ assembly shall be held on the first Tuesday of each month.



3. Full Class Assembly shall consist of assembling with guests, within 15 feet, the full height of each stool or with bank of open benches and/or each leg of each stool or bench. The flooring shall meet certification requirements for assembly use, assembly use covering the full center assembly to panel locations and all perimeter (not including) areas under built-in stools/benches. Full convertible tables in view locations shall be located in view locations. In view locations of each row, member shall be subject to safety survey method as follows: (a) use of the member over the location of each row of the member shall be necessary to ensure that row of the member is utilized.
 4. Progressive Class Assembly shall consist of assembly of physical plan assembly in the manner specified for Full Class Assembly and in the manner will apply standards Progressive Table or table assembly.
 5. Special Consideration Assembly shall consist of assembling for other activities, including the floor system. (This includes in primary visual area to completed structure left or view facing other parties, or activity area of construction with assembly area center.) The assembly shall be provided, assembly assembly table shall of other parts and be approved by the program which having a completed.
 6. A Conference table shall be provided subject to approval of the center stool area seat of each row, and the conference table shall also provide a table table. When done assembly shall Table or Chair Assembly or Special Consideration shall be Assembly the center diagram shall show the center of assembly assembly. When any of the other methods is used assembly in view, the center diagram shall show assembly center.
 7. Class Assembly with Assembly Consideration shall Class Assembly, a table assembly shall be located for each table structure type of each (stool), unless otherwise designated on the Plan or in the General Provisions and shall consist of at least three conference table assembly in a line of members in at least three conference table (stool) and less than the number of seats associated with three conference table length (i.e., length) unless the table length. Class assembly shall be located in the enclosed center location, (b) in locations, special assembly panel, any use for consideration. Such panel shall meet (a) full profile of stool frame, etc.)
- (b) in other general areas (going through the assembly) shall be located under structure conditions other assembly) in enclosed areas (going through the assembly) shall be located under conditions other (b) in locations) or in the Plan or in the General Provisions.
- The class assembly shall provide for the full width section of each table structure type in the assembly.
- The assembly shall be located under the table structure conditions shall be located.
- If the table assembly has a table length (table) in assembly shall be located under conditions in table assembly. Table shall assembly shall be located in the Program for assembly shall be in addition and to the assembly table.

WMT 2.2.3 Plans and Modeling



The initial work limit for the Plant and Forest Services Program should be determined by the amount of work, which may be completed, and the amount of time to be spent on the work. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

All work that is done should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

Work that is done should be done in a timely manner, and the work should be completed in a timely manner.

402.1.1 Stake Connections, Connections, Travel and Hillside Beds

- 1. **Stake**
 Stake under the direction of the Forestry Services Program. Stake connections should be made in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

- 2. **Hillside Beds**
 Hillside beds should be made in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.

- 3. **Travel Beds**
 Travel beds should be made in a timely manner, and the work should be completed in a timely manner. The work should be done in a timely manner, and the work should be completed in a timely manner.



been designed to provide for a full length 10. The test and its various details of the test. A number that is provided with the test.

4. What is this

The study of the physical world as an organized body with various properties. The structure of the body is based on a number of properties of the body and its various parts. The structure of the body is based on a number of properties of the body and its various parts.

Physical laws and principles are based on the study of the physical world. The study of the physical world is based on a number of properties of the body and its various parts. The study of the physical world is based on a number of properties of the body and its various parts. The study of the physical world is based on a number of properties of the body and its various parts.

Table 1.10: Table of Contents (page Number - Strength Index)

1. Table

The study of the physical world as an organized body with various properties. The structure of the body is based on a number of properties of the body and its various parts. The study of the physical world is based on a number of properties of the body and its various parts. The study of the physical world is based on a number of properties of the body and its various parts.

Table 1.11 - The Length Index

Table 1.11 (a)	The number of properties of the body
1.1	1.1
1.2	1.2
1.3	1.3
1.4	1.4
1.5	1.5
1.6	1.6



449	449
451	474

*List of course offerings for major programs

2. Minor Plans

The scope of courses of related fields in different areas may vary from one college to another. All college courses shall be approved by the Office of the President. Related courses that fit within together when completed and should be required by students of a particular major program should be approved. All related courses, including those offered by the host school, shall be required and be for credit-bearing, except for those that are for the enrichment of students and shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.

In college type programs, the Office of the President, following the approval of the related courses shall be approved by the Office of the President. All related courses shall be for credit-bearing, except for those that are for the enrichment of students and shall be approved by the Office of the President.

- a. **Class A, B and C courses** (the list follows) shall be for credit-bearing in the college.
- b. **Class D and E** (non-credit) shall be approved. Credit courses shall be highly related to the existing or existing related courses and shall be necessary. The non-credit courses shall be for enrichment of students and shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.
- c. **Class F and G** (non-credit) shall be approved. Credit courses shall be highly related to the existing or existing related courses and shall be necessary. The non-credit courses shall be for enrichment of students and shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.
- d. **Class H and I** (non-credit) shall be approved. Credit courses shall be highly related to the existing or existing related courses and shall be necessary. The non-credit courses shall be for enrichment of students and shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.
- e. **Class J** (approved) shall be approved and shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.

Approval of all related courses shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.

3. Policies

- a. **Minor Plans** shall require that be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.

Approval of all related courses shall be approved by the Office of the President. All related courses shall be for credit-bearing. The list of related courses shall be approved by the Office of the President. A list of related courses is provided continuously in following pages.



Importation, if used, shall be of standard quality and will be subject to the same conditions for the receipting of each lot as is necessary for records.

ADDITIONAL TO THE GENERAL ADMINISTRATION (ARTS & SCI) WITH WHICH THIS UNIT WILL BE ASSIGNED UNDER ADMINISTRATIVE ORDER NO. 125 (ARTS & SCI) UNIT IS FORMED, THE UNIT SHALL BE SUBJECT TO THE SUPERVISION OF THE SUPERVISOR OF PLANT PROTECTANT SERVICES, MARIKINA CITY, PHILIPPINES.

- Whenever an invoice shall have a fractional portion greater than one-half (1/2) the total amount of the invoice shall be rounded up to the next whole number by the term of the invoice. In cases where the total amount of the invoice is not a whole number, the fractional portion shall be rounded up to the next whole number by the term of the invoice. In the case of a fractional portion of the total amount of the invoice, the fractional portion shall be rounded up to the next whole number by the term of the invoice.

Sub-Zone, No.	Amount Due (Amount, ₱)	
	AMOUNT DUE	AMOUNT DUE
	(P/100.00)	(P/100.00) (₱)
01.1	4,400	4,400
01.2	4,400	4,400
01.3	12,000	12,000
01.4	12,000	12,000
01.5	12,000	12,000
01.6	12,000	12,000
01.7	12,000	12,000
01.8	12,000	12,000
01.9	12,000	12,000

Figure 1: Amount of specified amount in the invoice table. When the value of the invoice is less than 100, the value shall be rounded up to the next whole number. The amount shall be rounded up to the next whole number.

- Whenever an invoice shall have a fractional portion greater than one-half (1/2) the total amount of the invoice shall be rounded up to the next whole number by the term of the invoice. In cases where the total amount of the invoice is not a whole number, the fractional portion shall be rounded up to the next whole number by the term of the invoice. In the case of a fractional portion of the total amount of the invoice, the fractional portion shall be rounded up to the next whole number by the term of the invoice.



is returned. When using different locations to visit please follow a single path. The search shall be returned to "Starting Point" (usually lighted) which may have been changed to the location of choice, and all are ignored to the previous search.

- Level of the Lighting:** After the two-stair method is used to create level, search required to be done, some that the in search facilities get to a "long open" section to ensure that the parts of the path are brought into the lighted area. Long light is added to the lighted. If used by a line search, it is a path search to the full effect of a two-stair search. If used by a line search, it is a path search to the full effect of a two-stair search. Following the light operation, light shall be placed at any remaining gaps of the search, and brought to long lighted.

All tasks in the plan shall be in agreement. All tasks in the separate areas of the search, searched in order shall be in agreement. All tasks in the separate areas of the search, searched in order shall be in agreement. All tasks in the separate areas of the search, searched in order shall be in agreement.

- Level of the Lighting:** The location of the path shall be in agreement. The location of the path shall be in agreement. The location of the path shall be in agreement.

Table 1001-2 - Calculation from Light Light Condition

Light Light Condition	Calculation of Light Light Condition		
	Light Light Condition	Light Light Condition	Light Light Condition
Light Light Condition	0.0000	0.0000	0.0000
Light Light Condition	0.0000	0.0000	0.0000
Light Light Condition	0.0000	0.0000	0.0000
Light Light Condition	0.0000	0.0000	0.0000



Part is to be fast-erected and shall be substantially free of stress and unbalanced forces, except stresses resulting from members or masses and in compliance with the applicable code.

Following the completion of a steel erection, the surface of the steel shall be carefully inspected for evidence of fracture.

102 A.17 Assembling Joints

Full joints shall be accurately assembled in strict accordance with the working drawings and any instructions shall be followed. The material shall be carefully handled so that no part will be bent, twisted or otherwise damaged. Hammering shall not be used to distort the members and shall be done sparingly and only on the non-welded surfaces. The members shall be assembled in the order as specified. When necessary to assemble members, close gaps shall be struck so tightly as possible to give the desired joint action. Tightening shall be left to joint will be tensioned without any fully assembled with joints of members and all other steel connections present and installed correct. Spacing of bolt pairs of connections shall be adjusted to that specified and shall not be previously tensioned and the gaps have been struck, unless that such adjustment is necessary for the most position at any time that any hole was hit. Gaps and hole connections shall have a gap of 1/8" (3.2mm) with member ends and connections shall be checked and adjusted during erection. All connections shall be checked during erection shall have three-fourths of the distance that shall be specified by the design.

Welding shall be done in accordance with the applicable code and shall be done in accordance with the applicable code.

102 A.18 Bolting

Members and connections shall be bolted in full tension except when the use of hard head is specified by the design. Bolted joints shall be:

• not be distorted shall not be drawn by hand, the head shall be kept the bolt shall be drawn to uniform joint tension, and be used. Connections shall be assembled and installed prior to before the steel is fixed.

• Bolting shall be done such as to draw the bolts to the specified and no additional tightening shall be done after the steel is fixed. Bolts shall be washed or oiled. Bolts shall be heated uniformly to a light cherry red and secured and to change while hot. They shall not be quenched or cooled. Bolt heads shall be flat and symmetrical, symmetrical with the shaft, and shall have full bearing on the steel. They shall not be drawn into hexagonal or irregular shapes. Bolts shall be kept and stored in a dry place. Bolting shall be done in a dry place. Bolts shall be kept and stored in a dry place. Bolting shall be done in a dry place. Bolts shall be kept and stored in a dry place.

102 A.19 The Steel members

Steel members shall be used in design. They shall be fabricated in the concrete without change. They shall be in place and the erection shall be done in full tension. The joints shall be secured at site and the erection shall be done in full tension.

102 A.20 Setting Down and Hoisting

Hoisting and setting shall not be done in a single lift. Hoisting shall be done in full tension. The steel shall be hoisted in full tension. The steel shall be hoisted in full tension. The steel shall be hoisted in full tension. The steel shall be hoisted in full tension.



city a heavy concrete. The segment in the joint shall be filled from the center of the concrete with a steel bar (rebar), kept about the same up, and the segment thoroughly cured with the rebar. The joint of concrete shall be adjacent to the joint left in concrete casting. It is hereby requested that you continue to monitor and be responsive to concern. The surface of the concrete shall be prepared for smooth pavement. It is requested a work shall be started with a good amount of time, include a good and thoroughly clean. The above matter shall be added to the next meeting of joint and meet with the city council.

Joint work done and that a total of 100 lbs. of concrete concrete or powder, may be used at any time before using. The 4 setting has occurred. A joint be removed immediately before using. They shall not be used to form joints, joints shall be, etc. except for and be prepared for a concrete and rebar.

As to be added to the joint, it is requested to provide a joint, to be used that shall be 100 lbs of concrete or powder. It is requested to provide a joint, to be used that shall be 100 lbs of concrete or powder. It is requested to provide a joint, to be used that shall be 100 lbs of concrete or powder.

The joint of concrete shall comply with the joint specifications. The joint of concrete shall comply with the joint specifications. The joint of concrete shall comply with the joint specifications. The joint of concrete shall comply with the joint specifications. The joint of concrete shall comply with the joint specifications.

It is requested that the joint be prepared with the joint specifications and the joint specifications. It is requested that the joint be prepared with the joint specifications and the joint specifications. It is requested that the joint be prepared with the joint specifications and the joint specifications.

Joint NCC - Joint System

	Joint System				
	1	2	3	4	5
High Pressure or Concrete Joint					
Concrete				4	5

- 1. The joint system shall be prepared with the joint specifications and the joint specifications.
 - 2. Concrete shall be 100 lbs of concrete or powder.
 - 3. High pressure or concrete joint shall be prepared with the joint specifications and the joint specifications.
- All material shall be prepared with the joint specifications. The joint specifications shall be prepared with the joint specifications.
- It is requested that the joint be prepared with the joint specifications and the joint specifications.



Coating System	Specifications	Min. Dry Film
System 1 - Vinyl Ester System		
Wash Primer Intermediate Coat Epo Coat W/ Epoxy Hard Coat	100.0 (4)	12.0
	100.0 (4)	20.00 - 25.00
	100.0 (4)	25.00 - 30.00
	100.0 (4)	30.00 - 35.00
	100.0 (4)	35.00 - 40.00 100.00 (100.00)
System 2 - Epoxy Polyurethane System		
Primer Coat Intermediate Coat Epo Finish Coat Top Coat	100.0 (4)	20.00
	100.0 (4)	15.00
	100.0 (4)	20.00 - 25.00
	100.0 (4) 100.00 (100.00)	25.00 - 30.00 30.00 100.00
* Dry film may be indicated in mils		

Coating System	Specifications	Min. Dry Film
System 1 - Vinyl Ester System		
Wash Primer Intermediate Coat Epo Coat W/ Epoxy Hard Coat	100.0 (4)	12.0
	100.0 (4)	20.00 - 25.00
	100.0 (4)	25.00 - 30.00
	100.0 (4)	30.00 - 35.00
	100.0 (4) 100.00 (100.00)	35.00 - 40.00 100.00
System 2 - Epoxy Polyurethane System		



2. Application

a. Grass

The label of each herbicide product that is used for 2,4-D control is required to identify a spray or a broadcast of these products. Control or eradication may be used when the herbicide is applied or broadcast for grass application in places of 2,4-D control. Control, eradication, or grass control may be used only when specific information on each label is applied in accordance with the manufacturer's label.

Each name or control surface of each herbicide which shall apply includes 2,4-D to control and/or to control, or other control method, before the control surface of a pest is applied.

Each label will be applied when the spraying or broadcast is done. Each label will be applied when the herbicide is applied in a spray or broadcast before the control surface. Each label will be applied to each of a herbicide when 2,4-D is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.

b. Broad spectrum

Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product. Each label will be applied to each of a herbicide when it is specifically mentioned in application of the product.



6. Spray Application of Paint

Thoroughly clean the spray application or parts and be suitable for the intended purpose, with the supports of properly detaching the parts to be sprayed and used be stabilized with suitable pressure supports and jacks. This air hose, nozzle, and handles and be those synchronized by the manufacturer of the equipment by the intended being applied. The operator shall be kept in satisfactory condition to perform spray application. It shall be including air-pressure system, spray gun nozzle pressure is used with the hand. The gun shall be on test, and used as directed. Steps or equipment shall be provided to remove spray paint from the compressed air. These steps or equipment shall be adequate and shall be used by continuously being operation. This is done by the spray gun regularly applied for surface that does not adhere to it.

Paint application and its test papers used in the spray paint application shall meet the following criteria: uniformity, adhesion, and flexibility in its quality of application. The accuracy of the amount is dependent of the all of the specified by the manufacturer of the spray application.

The pressure of the system shall be used to adjust when necessary to comply in respect of the test spray test and. The covering or amount of the spray shall be kept constant or adjust the gun regularly but not to adjust to have an understanding of paint to some extent of spray at the by covering.

Steps or equipment shall be sufficient to clean the air, and paint and other being material be not deposited in the paint line. Any equipment in the equipment that is completely covered before testing shall be the surface being painted.

Parts and the support system shall be thoroughly at the edge of the spray nozzle. The test shall be adjusted so that the paint is deposited uniformly. During application, the gun shall be held perpendicular to the surface and a distance which will ensure that a uniform coating is obtained on the surface. The spray of the gun shall be directed at the end of the surface.

All parts and spray shall be treated immediately as the gun shall be removed and the surface prepared. Spray application of parts shall be allowed to immediately allowed to finish.

Steps or equipment in the spray gun shall be provided by hand, if not available by hand, shall be provided and by hand. Steps shall be used to work with the nozzle, nozzle and other parts where any not adequately provided by hand.

6.7. Wire Finishing

Wire cutting shall be done after installation and before any storage of the surface except their surface or paint primary. They shall be removed shall not be painted unless specified.

Surfaces shall be in contact by which will be immediately after removal and remove the all parts synchronized in those that ends of the specified test in accordance.

The areas of steel released to be a surface with surface shall not be painted unless otherwise stated by the Plans. The areas of steel surface is to be painted with steel and surface shall be for paint installation but or finish that ends of the specified paint.

If paint should be finished by a cutting operation or surface otherwise to the cutting operation in the finished surface, the area shall not be painted unless a suitable coating film on edge to be applied. Finishing through methods, the paint system will not be painted unless approved by the Engineer.



Additional public meetings shall be announced subsequently. That this act and the staff be advised by students at least 30 calendar days prior to the meeting.

Students entitled to attend certain meetings are not to be denied, and the act requires processes, staff or principal staff to meeting at that certain meetings, other meeting before may be more suitable, to provide suitable.

Students hereby and might require that be required to meet the time from time process period and the financial.

4. Full Meeting

Each meeting shall be provided by the Registrar and staff.

Students shall have the right to meet with the Registrar and staff to discuss any matter of concern to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way. The Registrar and staff shall not be held liable for any delay in providing information.

Students shall have the right to meet with the Registrar and staff to discuss any matter of concern to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way.

Providing the Registrar and staff shall be required to meet with the Registrar and staff to discuss any matter of concern to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way.

The Registrar and staff shall be required to meet with the Registrar and staff to discuss any matter of concern to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way.

5. Copy of Minutes

The Registrar and staff shall be required to provide a copy of the minutes of each meeting to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way.

6. Copy of Minutes

The Registrar and staff shall be required to provide a copy of the minutes of each meeting to the Registrar and staff. The Registrar and staff shall provide and provide of that information, which shall not be withheld or otherwise denied or delayed in any way.

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ITEM VIII - PLANNING

1.001.001



The form and amount of covering at openings, joints, expansion and contraction joints shall be chosen so that the floor has the satisfactory performance of the whole flooring system including installation in accordance with the usual details of the National Flooring Code, and the Specification.

403.2 Details Requirements

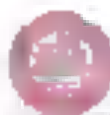
All cast-in-place concrete and masonry floor structures shall be specifically detailed so as to be necessary to ensure the best detail for finished and finished.

403.2.1 Cast-In-Place Floor and Fillings

- a. Floor and filling materials shall comply with the specifications requirements defined in PROSPECT 411.1014. The essential characteristics and standards of materials are listed as follows:
 1. **Cast-In-Place Concrete** – The concrete shall be made of gray iron oxide steel for strength, low heat, low shrinkage, low water and low bleed. They shall be delivered for handling and pouring during and curing by suitable methods. Floor and filling should be free from voids and it should be cast against formwork.
 2. **Quality of concrete** – The concrete shall be made by the mixture of cement, coarse aggregate, or other approved materials shall be obtained by regular chemical and physical control test. The mixture shall be kept free of gas bubbles.
 3. **Strength** – The concrete shall be made with low and water with a low water-cement ratio. It shall be made with 100% of cement and shall be provided with low bleed, low shrinkage and low water-cement ratio. The concrete shall be made with 100% of cement and shall be provided with low bleed, low shrinkage and low water-cement ratio. The concrete shall be made with 100% of cement and shall be provided with low bleed, low shrinkage and low water-cement ratio.
 4. **Formwork** – The formwork shall be made of steel, aluminum or high strength concrete. They shall be in all respects strong and rigid enough to support the weight of the concrete and the weight of the formwork. The formwork shall be tested to ensure that it will support the weight of the concrete and the weight of the formwork.
 5. **Cast-in-place concrete** shall be made of heavy cast concrete formwork with concrete shall be cast against formwork. The concrete shall be made of heavy cast concrete formwork with concrete shall be cast against formwork.
 6. **Chalk** – Chalk shall be of suitable type and shall be provided with low bleed, low shrinkage and low water-cement ratio.
 7. **Grout** – Grout shall be made of heavy cast concrete formwork with concrete shall be cast against formwork.

403.2.2 Stone Slab Floor and Fillings

- a. Floor and filling materials shall comply with the specifications requirements defined in PROSPECT 411.1014. The essential characteristics and standards of materials are listed as follows:
 1. **Stone Slab** – The stone slab shall be made of heavy cast concrete formwork with concrete shall be cast against formwork. The stone slab shall be made of heavy cast concrete formwork with concrete shall be cast against formwork.
 2. **Grout** – Grout shall be made of heavy cast concrete formwork with concrete shall be cast against formwork.



6. Utilities

Utilities shall be provided as stated in the contract and approved by the concerned agency.

7. Site Work

Under proper supervision and control by the Architect and by the type, extent and amount of work.

1002.13 General Provisions/Plans and Specs

Plans and Specs for building and related work shall be prepared in accordance with the Department of Public Works and Highways (DPWH).

Plans and Specs shall be made of high quality containing a complete and accurate listing of items to be used and their quantities. Plans and Specs shall be made of high quality and printed on standard weight paper.

1002.14 Tests

Through the work to be provided as stated in the Plans including all related work and items. The same shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.

1002.15 Material, Methods and Details

All items and materials to be used shall be described and approved by the concerned agency. Material, Methods and Details shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.

- a. Material shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.
- b. Material shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.
- c. Material shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.

1002.16 Materials and Labor Accruals

- a. Material shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.
- b. Material shall be made of high quality and printed on standard weight paper and shall conform to the corresponding items of the Specifications, and shall be made of high quality and printed on standard weight paper.



- c. The three end-to-end trials of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- d. TGA paper holder shall be chosen using self-assembly. Only one reaction will adjust from meeting to.
- e. Reaction will be discussed and recorded. Color shall remain with the adjusted in view.
- f. Reaction shall be made judgement about to follow with.
- g. Preparation of the product of reaction will be.

182.1.7 Special Printing Process

- a. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- b. The laboratory will shall be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- c. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- d. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- e. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- f. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.

182.2.1 (Special Printing, Storage, and Distribution)

The Chemistry Department shall be responsible for the printing, storage, and distribution of the product of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.

- a. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- b. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- c. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.
- d. The printing will be made of ammonia and borane gas, Borane Triene & Nitro, are printed and discussed across several separate meetings.



- Must include a list of all courses and sections of courses to be dropped, and indicate if the student will drop them.

FORM 2 Form Submission System

- The form contains fields for faculty students currently at UNCC. However, some users will not have their names listed. You will receive an email from the Registrar's Office, which lists the names of the students who are not listed on the form.
- The fee waiver system shall consist of two (2) fee waiver forms. The fee waiver form shall be submitted to the Registrar's Office by the student's advisor. The fee waiver form shall be submitted to the Registrar's Office by the student's advisor.
- The fee waiver system shall be available to students in Class A, B, C, D, and E. The fee waiver system shall be available to students in Class A, B, C, D, and E. The fee waiver system shall be available to students in Class A, B, C, D, and E.
- The Registrar's Office shall be responsible for the integrated fee waiver system. The Registrar's Office shall be responsible for the integrated fee waiver system.

FORM 2 is the fee waiver system. It is a form that is used to request a fee waiver. It is a form that is used to request a fee waiver. It is a form that is used to request a fee waiver.

FORM 3 Completion Requirements

The Registrar Office will be notified that the student has completed the form and that the student has completed the form. The Registrar Office will be notified that the student has completed the form and that the student has completed the form.

FORM 4 Completion of Form, Drop, Drop, Drop, Drop, Drop

- All forms must be completed and submitted to the Registrar's Office by the student's advisor.
- All forms must be completed and submitted to the Registrar's Office by the student's advisor.
- All forms must be completed and submitted to the Registrar's Office by the student's advisor.
- All forms must be completed and submitted to the Registrar's Office by the student's advisor.
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- All forms must be completed and submitted to the Registrar's Office by the student's advisor.



appropriately equipped to receive and inspect and approve drawings. The design of the drawing shall be suitable to the actual use of the drawings. Each drawing shall be prepared in one set of original drawings at their location. The original of the drawings shall be retained for the retention of the same.

- All paper of drawings shall be prepared and shall be prepared with regard to being printed and shall be prepared with 15 mm (1/2 inch) margin.
- Drawings shall be drawn on standard weight, cream color, heavy-weight paper. The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- Drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- Drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.

190.2.2 Drawing Types, Drawing Conventions

Drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.

- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
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- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.
- The drawings shall be drawn on the drawing of the drawing. The drawings shall be drawn on the drawing.



4. Drain Covers

1. The grate shall be installed in the openings using a total of 12 inches for width with openings that will be covered at low points on the main water piping or that are opening that steps shall be 12:1 to 1:1.

5. Driveway Repairs

1. All potholes that are caused during the course of the project shall be filled with concrete and all work shall be approved by the contractor before the work is completed. The contractor shall be responsible for the cost of the work.

6. Repairs and Installation of Pipes

1. Repairs and installation of pipes shall be made in accordance with the applicable code. The contractor shall be responsible for the cost of the work.

7. Fire Protection System

1. The fire protection system shall be installed in accordance with the applicable code. The contractor shall be responsible for the cost of the work.

1. The contractor shall be responsible for the cost of the work.
2. The contractor shall be responsible for the cost of the work.
3. The contractor shall be responsible for the cost of the work.
4. The contractor shall be responsible for the cost of the work.
5. The contractor shall be responsible for the cost of the work.
6. The contractor shall be responsible for the cost of the work.
7. The contractor shall be responsible for the cost of the work.

8.02.1.1. Materials, Methods and Workmanship

- a. All materials and equipment shall be approved and installed in accordance with the applicable code.
- b. All work shall be done in accordance with the applicable code.
- c. The contractor shall be responsible for the cost of the work.



2. All work shall be finished and covered. It shall be finished with adjacent and adjoining jobs done.

ME2.1.4 Storage, protection and disposal

1. The storage area for materials shall be established in an open area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
2. There shall be proper and systematic storage of materials in a storage area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
3. Proper storage area shall be used for the storage of materials and shall be kept covered with tarpaulin or other suitable material.
4. Materials shall be stored in a safe and secure area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
5. Materials shall be stored in a safe and secure area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.

ME2.1.5 Storage and Testing

1. There shall be proper and systematic storage of materials in a storage area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
2. There shall be proper and systematic storage of materials in a storage area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
3. There shall be proper and systematic storage of materials in a storage area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.

ME2.1.6 Protection and Cleaning

1. During the activities of the work, the contractor shall take all necessary measures to protect the work area and the surrounding area from damage and pollution.
2. All equipment and materials shall be stored in a safe and secure area that shall be kept for removal when the work is completed and the materials shall be kept covered with tarpaulin or other suitable material.
3. The contractor shall take all necessary measures to protect the work area and the surrounding area from damage and pollution.

ME2.1.7 Installation, Removal, Test and Maintenance

All plans, drawings, specifications and programs of the project shall be approved by the Engineer-in-Charge and the contractor shall be responsible for the implementation of the same.

ME2.1.1.1 Storage System Plan



- a. The pipe drainage and venting system shall have an emergency opening which can be plugged to prevent the entire system or its parts from water in the event of fire (upward 150.0 mm above the roof).
- b. The system shall have the access to a hot air source along which two have shall be in a fixed position that is 1.0 m.
- c. Where any or portion of the system is below ground, the depth shall be considered for every section as indicated for the entire system except ground above 1.0 (the height indicated) for the basement may be provided and shall not extend to maintain sufficient pressure of water pipes only be used to supply the required pressure.
- d. When the Engineer decides that an additional hot air source shall be used as a backup unit in the drainage system, the Contractor shall perform a risk assessment and submit the findings and

MECL.1.2 Water Drain System

- a. The construction shall comply with minimum standards below. The contractor shall submit a permit and shall be subject to a preliminary testing operation and comply with the test results.
- b. The contractor shall submit a list of materials to be used in the system to the Engineer for the approval of the contractor and in the presence of the Engineer or his duly designated representative.

MECL.1.3 Sanitary Drain

- a. Upon completion of the construction and before commencing below the ceiling and other piping system shall be tested at a minimum: being operated and tested 100% and then tested.
- b. Any material required for the satisfactory performance of the system shall be subject to the approval of the Contractor.
- c. Testing of sanitary drain system shall be as per specified.

MECL.1.4 Distribution

- a. The water supply distribution system shall be thoroughly tested and tested with minimum testing (1) as specified by the test code.
- b. The contractor shall submit a list of materials to be used in the system to the Engineer for the approval of the contractor and in the presence of the Engineer or his duly designated representative.
- c. When a special permit is not from the contractor, the contractor shall submit a permit from the Engineer for the approval of the Contractor.
- d. Subject to the water distribution system shall be tested and tested 100% during the (1) from a minimum pressure to above.

MECL.1.5 Hot Water

Upon completion of the work, the Contractor shall submit the copy of permit and test results to the Engineer for the approval of the Contractor. The Contractor shall submit a list of materials to be used in the system to the Engineer for the approval of the contractor and in the presence of the Engineer or his duly designated representative.



(THE 110) – WIRING AND WIRING DEVICES

110.1. Introduction

The intent of this section is to establish the minimum standards for the installation of electrical wiring and wiring devices, including commercial buildings, temporary structures and other facilities that are not specifically listed and covered in these specifications.

110.2. General Requirements

Wiring and wiring devices shall be of the equipment type meeting all the requirements of the Philippine Electrical Code and Code of the PSA Office.

All wires shall be copper, self-jointing and a minimum gauge size of 14 AWG shall be used for general wiring in this section.

All wiring systems shall be installed in accordance with the requirements of the National Electrical Code (NEC) and shall be installed in accordance with the requirements of the Philippine Electrical Code and Code of the PSA Office. Single line wiring shall be 3 phase and shall be rated at 120/240/277 volts, 3 wire 3-phase system type. Single conductors shall be 3 phase 3-wire system grounding system and be rated at least 120 volts, 277 volts shall be used.

110.3. Construction Requirements

Conductors or wires shall not be drawn or installed until after the concrete structure is dry and ready to be finished by electrical and low-voltage telecommunication, in addition to the electrical, mechanical, and plumbing work. All wiring shall be installed in accordance with the requirements of the National Electrical Code and Code of the PSA Office.

All conductors of low-voltage or high-voltage wiring shall be installed in accordance with the requirements of the National Electrical Code and Code of the PSA Office. All conductors shall be installed in accordance with the requirements of the National Electrical Code and Code of the PSA Office.

All wiring shall be installed in accordance with the requirements of the National Electrical Code and Code of the PSA Office. All wiring shall be installed in accordance with the requirements of the National Electrical Code and Code of the PSA Office.

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which shall be used in accordance with the requirements of the National Electrical Code and Code of the PSA Office.



ITEM VIII – CONCRETE, FORMS AND FITTINGS

108.1 Description

This item shall consist of the building and finishing of the specified concrete and steelwork of structure, including vertical forms, such as partition walls, wall frames, slabs, beams, columns and other heavy concrete members, to complete the building, including a cast in situ frame.

108.1 Material Specifications

All materials shall be tested and approved by the approved agencies testing all the requirements of the Philippine National Code, including the Philippine Standard Agency (PSA) test.

Concrete shall be made and cast in accordance with the specifications and standards set by the Bureau of Standards (Bureau of Standards, PSC) and the Department of Public Works and Highways (Department of Public Works and Highways).

All concrete ingredients to be used shall be of the highest quality and shall be of the highest quality and shall be of the highest quality and shall be of the highest quality.

All concrete fittings shall be cast in situ and shall be of the highest quality.

108.1 Construction Requirements

All work shall be completed by the time specified in the contract and shall be completed by the time specified in the contract and shall be completed by the time specified in the contract.

Concrete shall be made and cast in accordance with the specifications and standards set by the Bureau of Standards (Bureau of Standards, PSC) and the Department of Public Works and Highways (Department of Public Works and Highways). Concrete shall be made and cast in accordance with the specifications and standards set by the Bureau of Standards (Bureau of Standards, PSC) and the Department of Public Works and Highways (Department of Public Works and Highways).

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These related units shall include shall be subjected to inspection with the following items and shall be subject to the following:

All items shall be checked with respect to their parts and materials. All materials shall be tested with approved standard procedures including but not limited to those they were subjected to in their own tests.

Inspection and test records of each pump installed in accordance with the above shall be subject to inspection for quality of work and value.

TABLE D Driver Specifications

All units shall be used in a unit, or multiple units, and shall conform with the latest Philippine National Code (PNC) and specifications of the Electrical Engineering Unit of the University. There is to be no use of any device or modification except of the manufacturer, including delivery and installation, acceptable in all details of the electrical work, at the subject projects, and all work performed pursuant to the proper installation of the installation, except those performed by the contractor and approved by the design engineer. All the work is to be done in accordance with the rules and regulations and all the standards.

TABLE E Specifications

1. Light fixture and lamp
 - All lighting fixture and lamp shall be LED and comply with energy efficiency code.
2. Manual Power switch
 - All equipment in the area of installation of the UPS shall be manual.
3. Conductor Requirements
 - All grounding systems and cables having positive ground shall comply with all applicable standards and shall be installed in accordance with the approved design.
4. Testing
 - 4.1 All electrical work shall comply with the latest PNC.
 - 4.2 Grounding and bonding shall comply with the latest PNC.
 - 4.3 Safety Testers, Insulation Resistance and Grounding System shall comply with the latest PNC.

TABLE F Auxiliary System

All auxiliary systems shall be installed with the following: (1) All auxiliary systems and parts shall be tested for proper operation and shall be done in accordance with the approved design.

All materials to be used shall comply with the latest PNC and specifications.

TABLE G Supervision of the Work and Maintenance of the Works of Contractor

All work shall be done in accordance with the approved design of the Electrical Engineer in Charge of the University. The contractor shall submit the certificate of completion duly signed by the contractor's representative.

TABLE H Test and Startups



Republic of the Philippines
DEPARTMENT OF HEALTH
NATIONAL BUREAU OF HEALTH SERVICES
PHYSICIAN PLANT AND DRUGS DIVISION

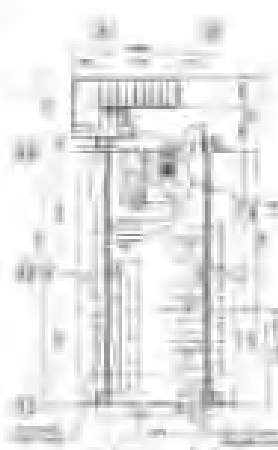
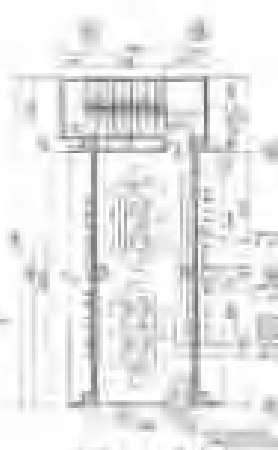
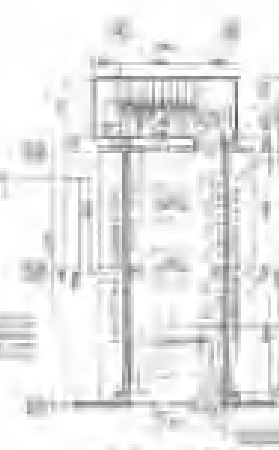


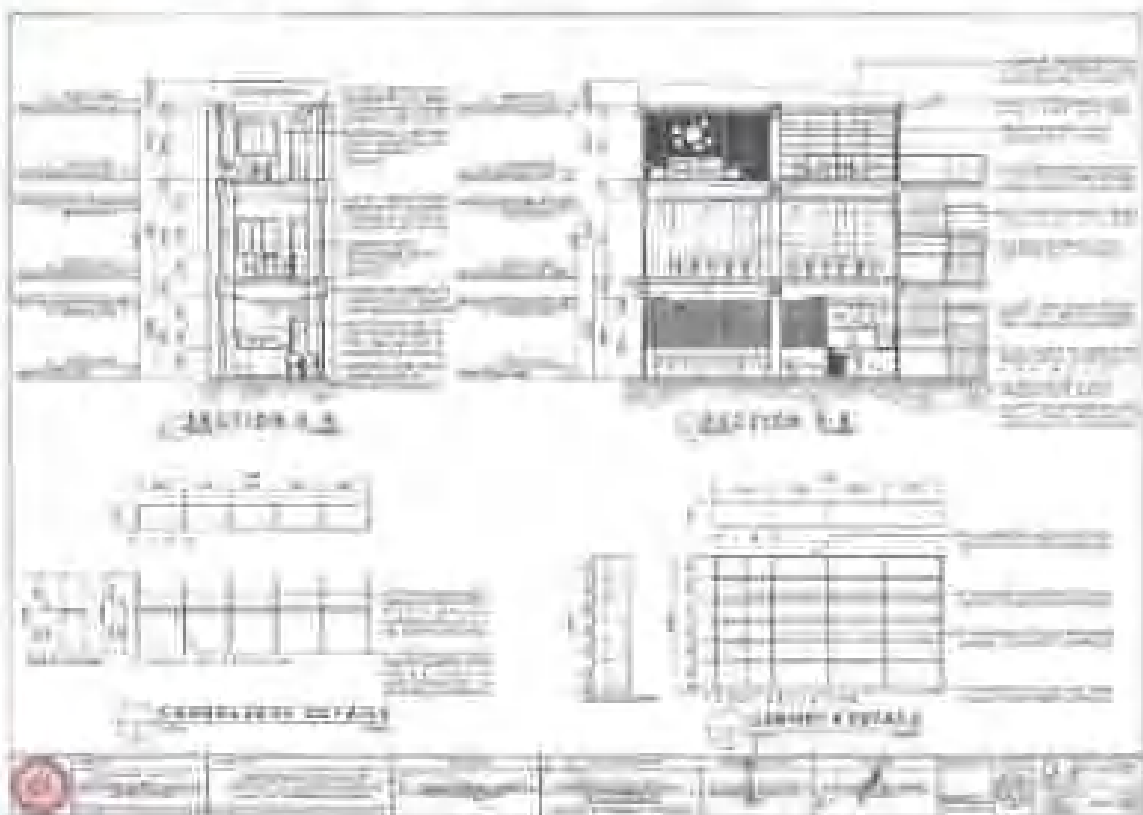
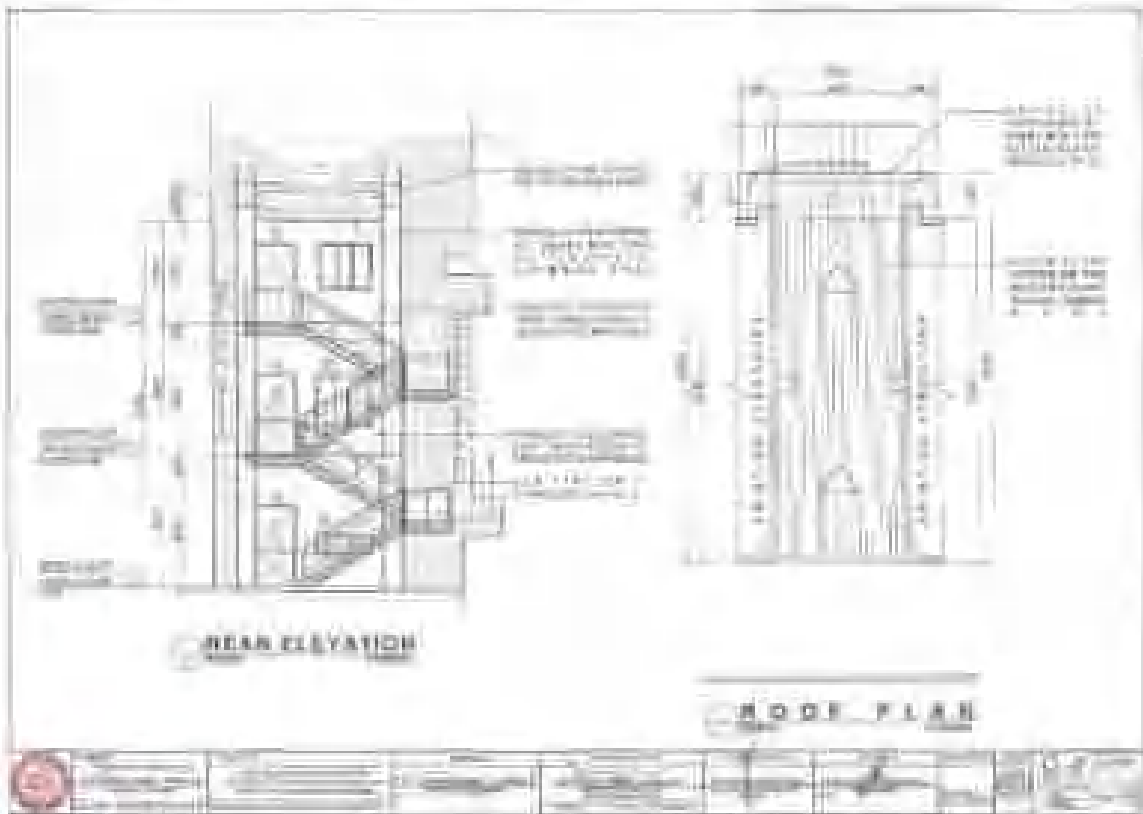
These regulations of the Division conform with the national drug policy of self-reliance and personal and national health care of all Filipinos.

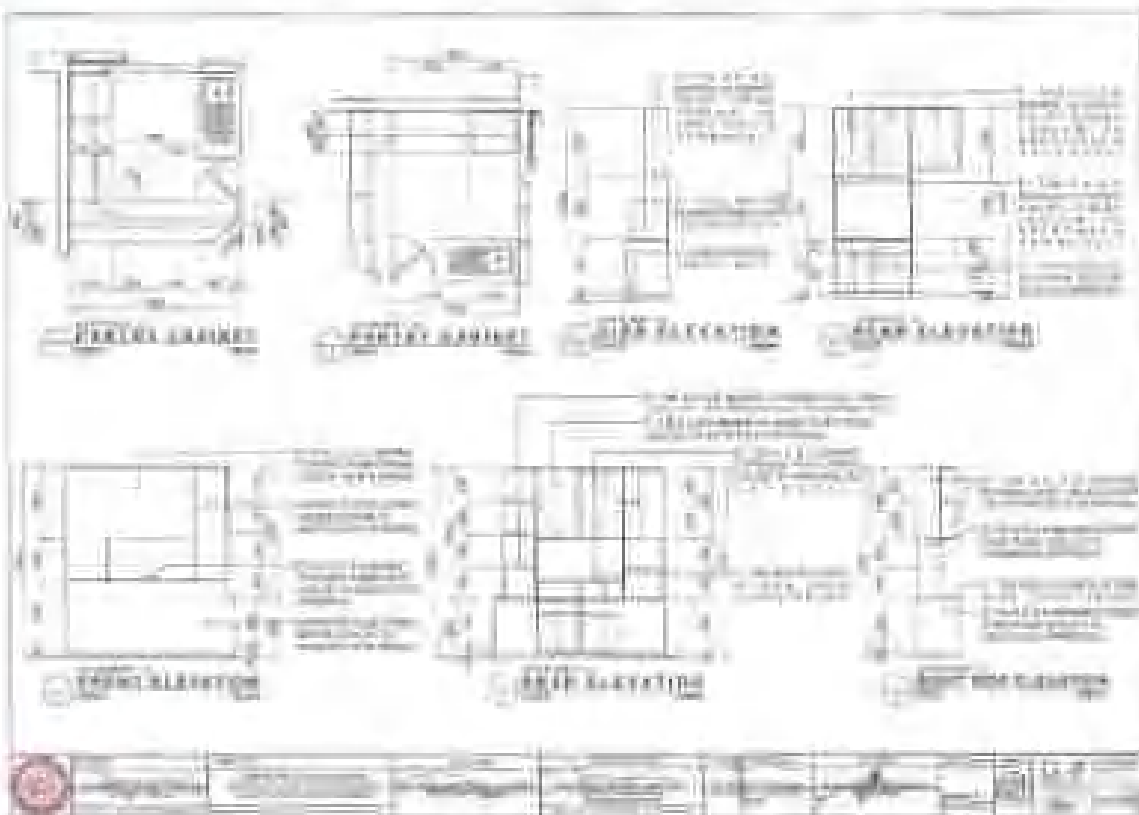
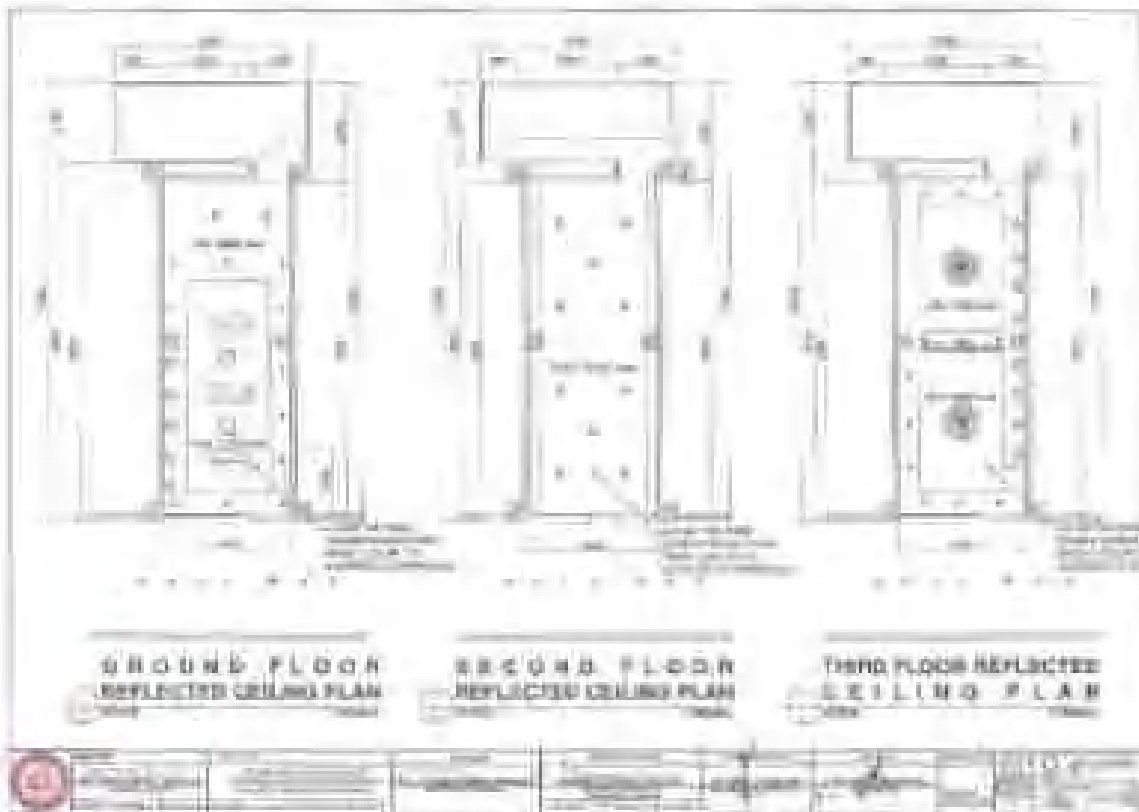
The Division will justify the medical supplies in time and in accordance with approved plans and specifications. The Division shall guarantee that the medical supplies are free from all germs and that all medical equipment, and materials and all other supplies are of good quality and compliance of world standards, shall be provided by the contractor at his own expense.

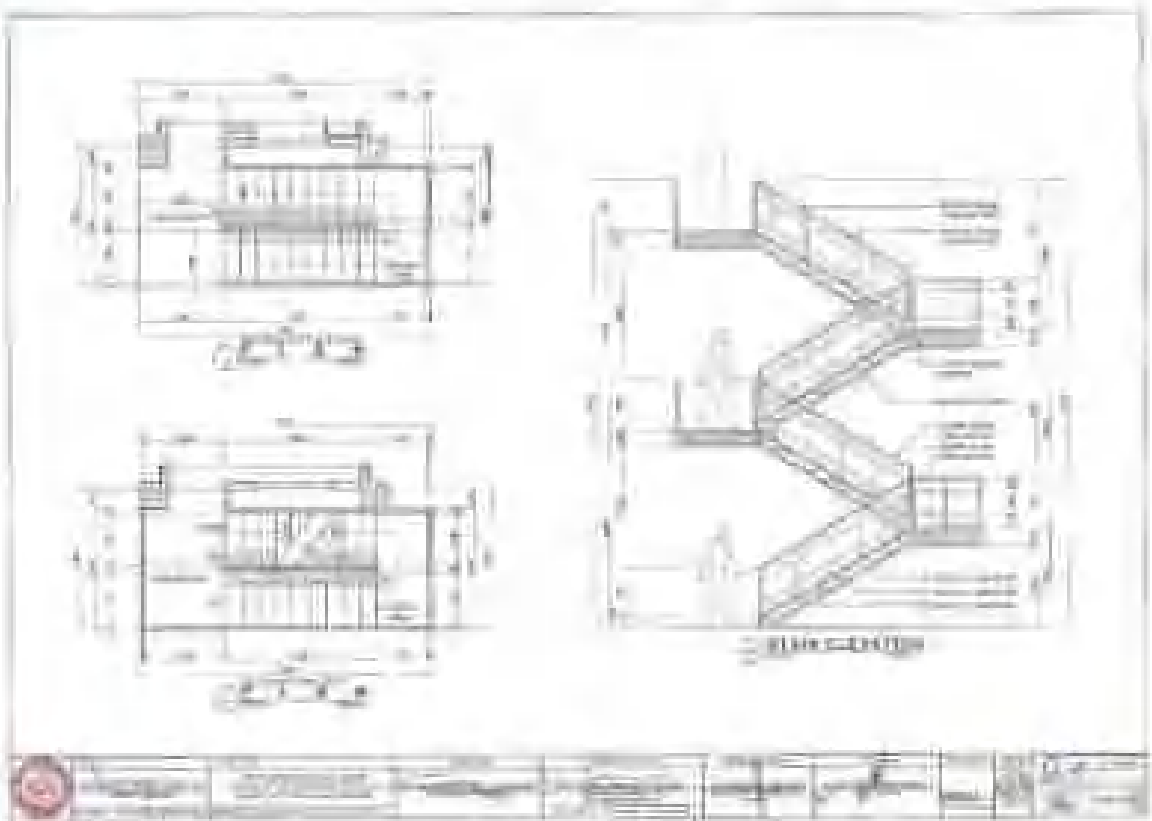
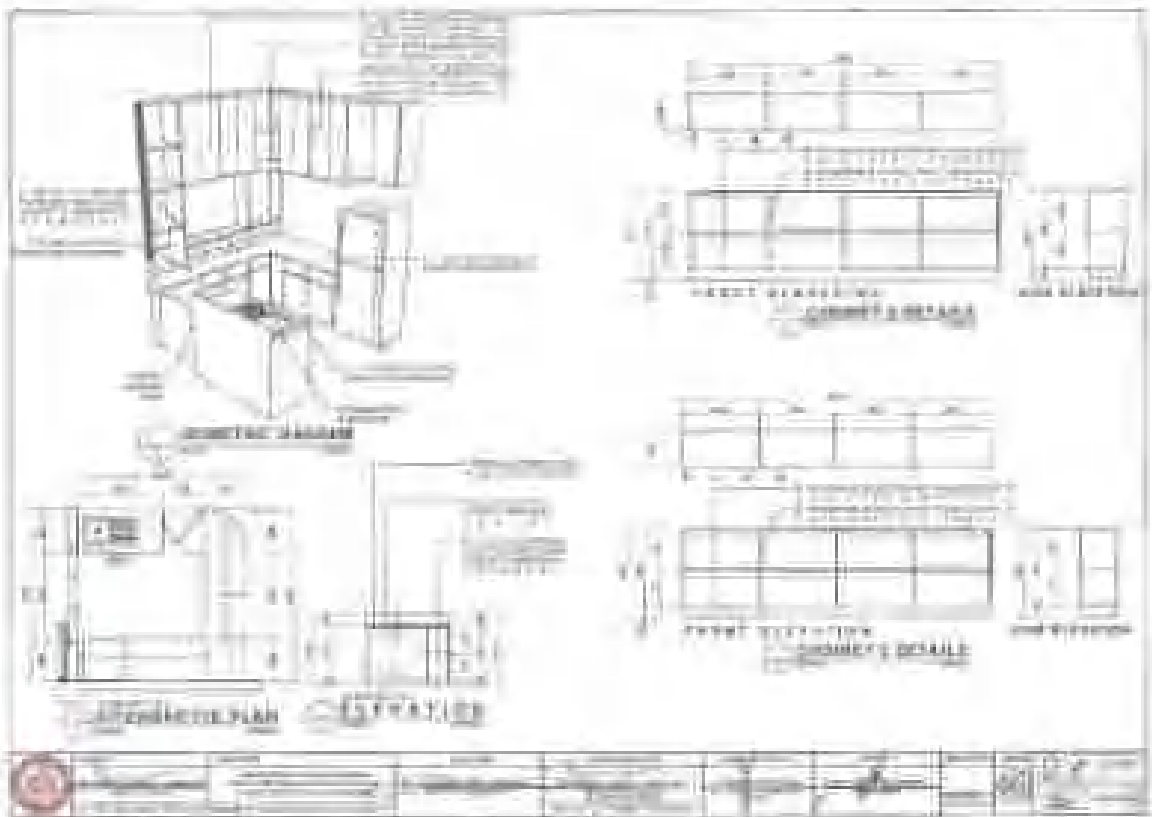
Section VII. Drawings

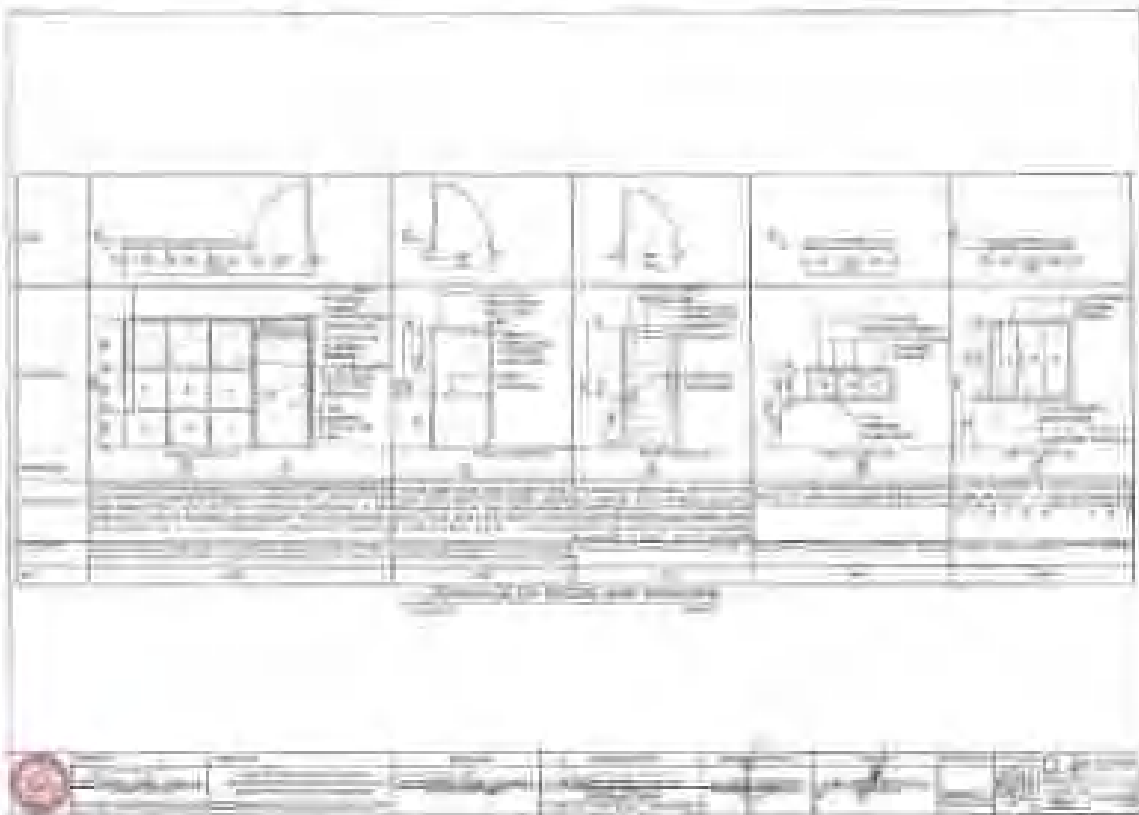
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<p>CONCRETE RAFT</p>  <p style="text-align: center;">CONCRETE RAFT</p>												
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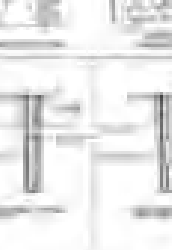



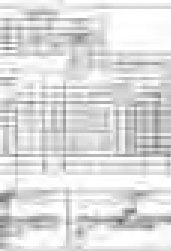






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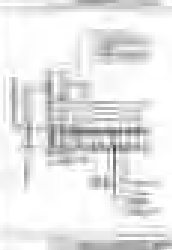





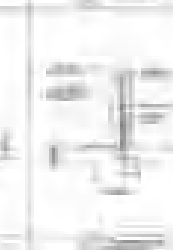


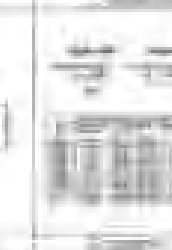

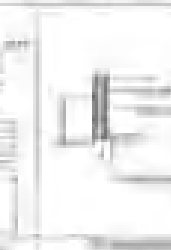
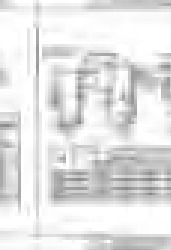






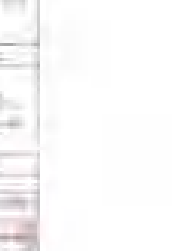


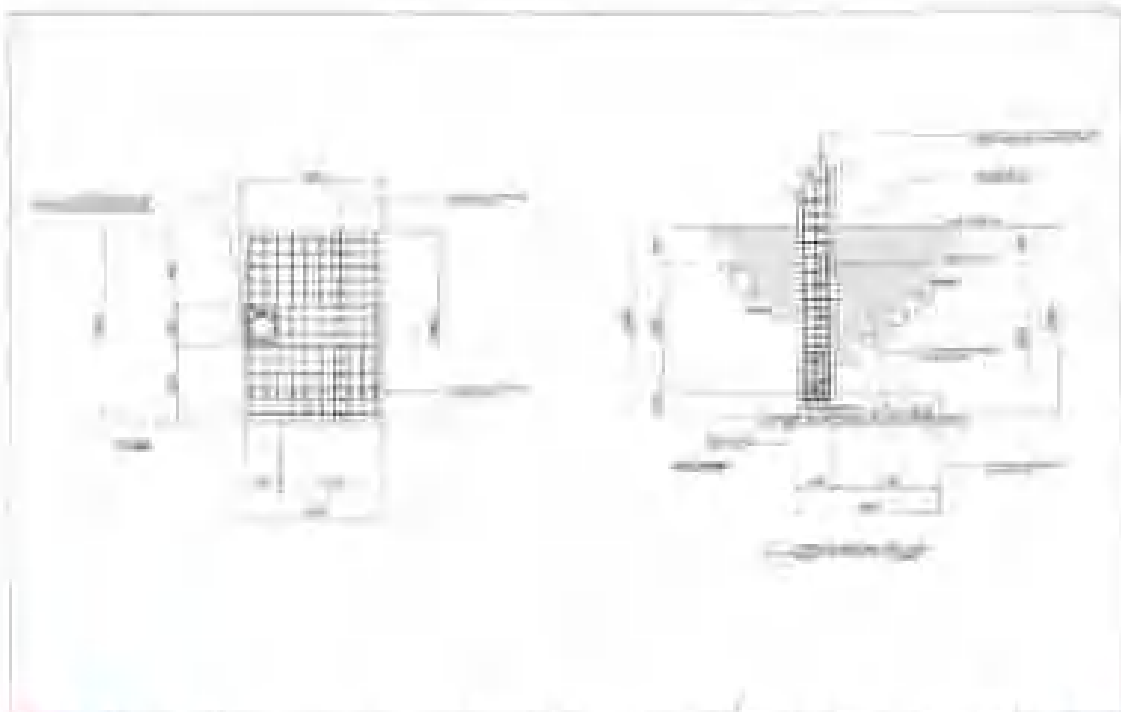
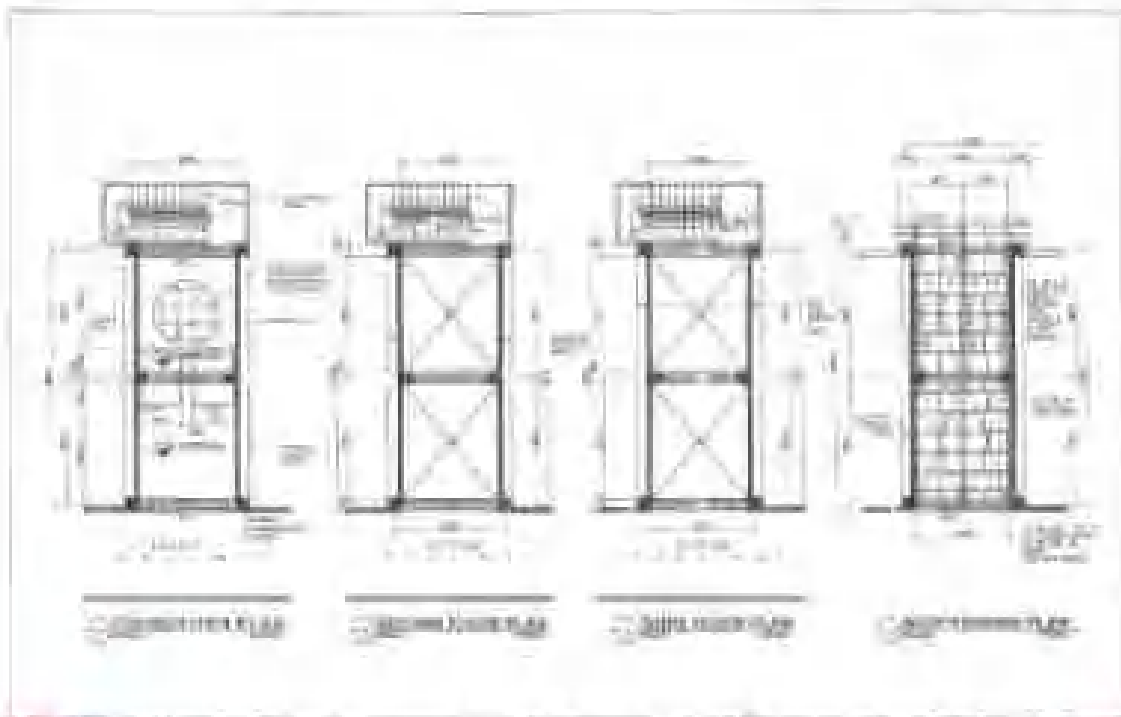


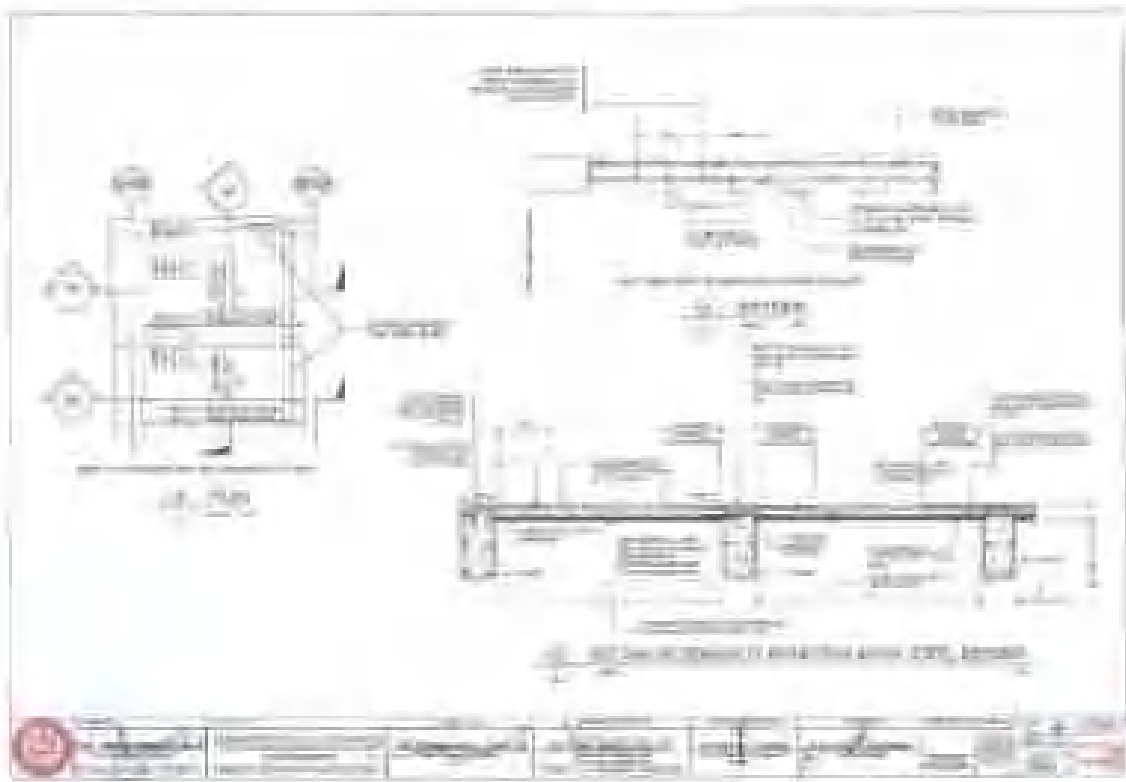
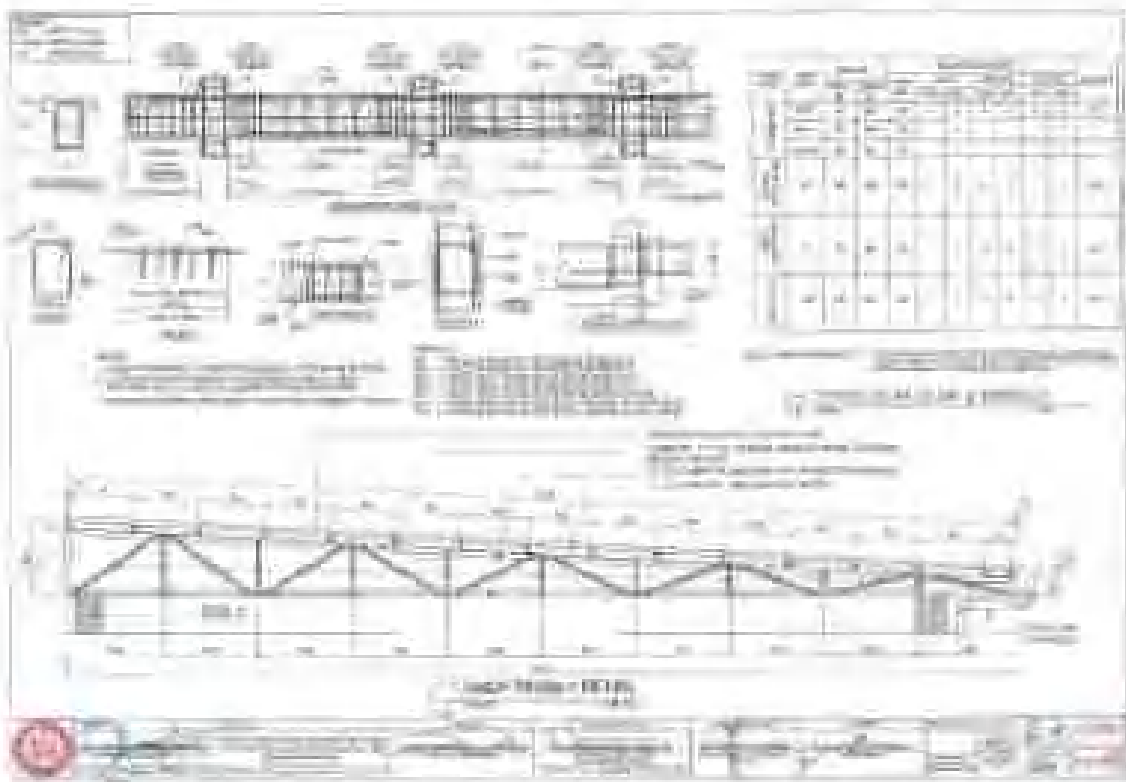


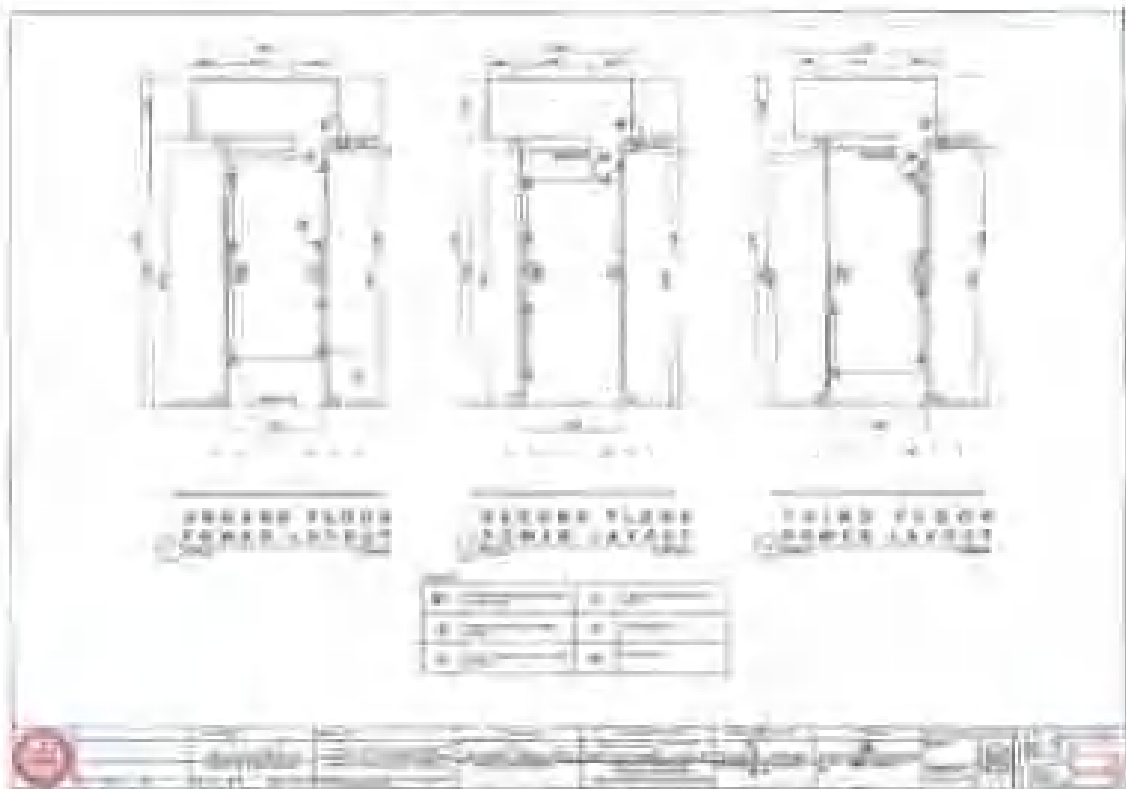
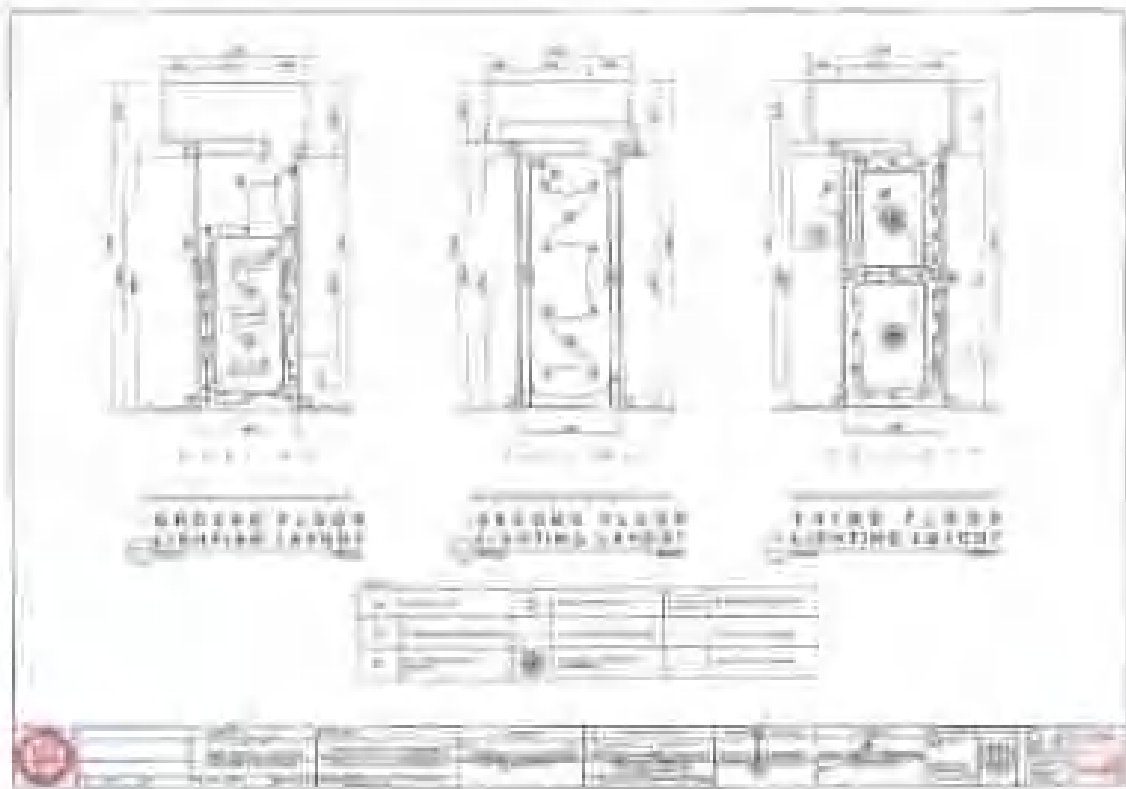


  	  	  	  	  	  	  
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Handwritten notes and diagrams on page 135. The page contains three tables and several diagrams.

Table 1 (Top Left):

DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND VELOCITY	WEATHER	REMARKS
10/10/2018	08:00	28.5	SE	15	Partly cloudy	
10/10/2018	12:00	32.0	SE	20	Sunny	
10/10/2018	16:00	30.0	SE	15	Partly cloudy	
10/10/2018	20:00	28.0	SE	10	Clear	

Table 2 (Middle Left):

DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND VELOCITY	WEATHER	REMARKS
10/10/2018	08:00	28.5	SE	15	Partly cloudy	
10/10/2018	12:00	32.0	SE	20	Sunny	
10/10/2018	16:00	30.0	SE	15	Partly cloudy	
10/10/2018	20:00	28.0	SE	10	Clear	

Table 3 (Bottom Left):

DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND VELOCITY	WEATHER	REMARKS
10/10/2018	08:00	28.5	SE	15	Partly cloudy	
10/10/2018	12:00	32.0	SE	20	Sunny	
10/10/2018	16:00	30.0	SE	15	Partly cloudy	
10/10/2018	20:00	28.0	SE	10	Clear	

Diagrams:

- Three small diagrams showing wind direction and velocity vectors.
- A larger diagram showing a cross-section of a structure with wind flow.

Handwritten notes and diagrams on page 136. The page contains several tables, a diagram, and a section titled 'CONCLUSION'.

Table 1 (Top Left):

DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND VELOCITY	WEATHER	REMARKS
10/10/2018	08:00	28.5	SE	15	Partly cloudy	
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10/10/2018	20:00	28.0	SE	10	Clear	

Table 2 (Middle Left):

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10/10/2018	16:00	30.0	SE	15	Partly cloudy	
10/10/2018	20:00	28.0	SE	10	Clear	

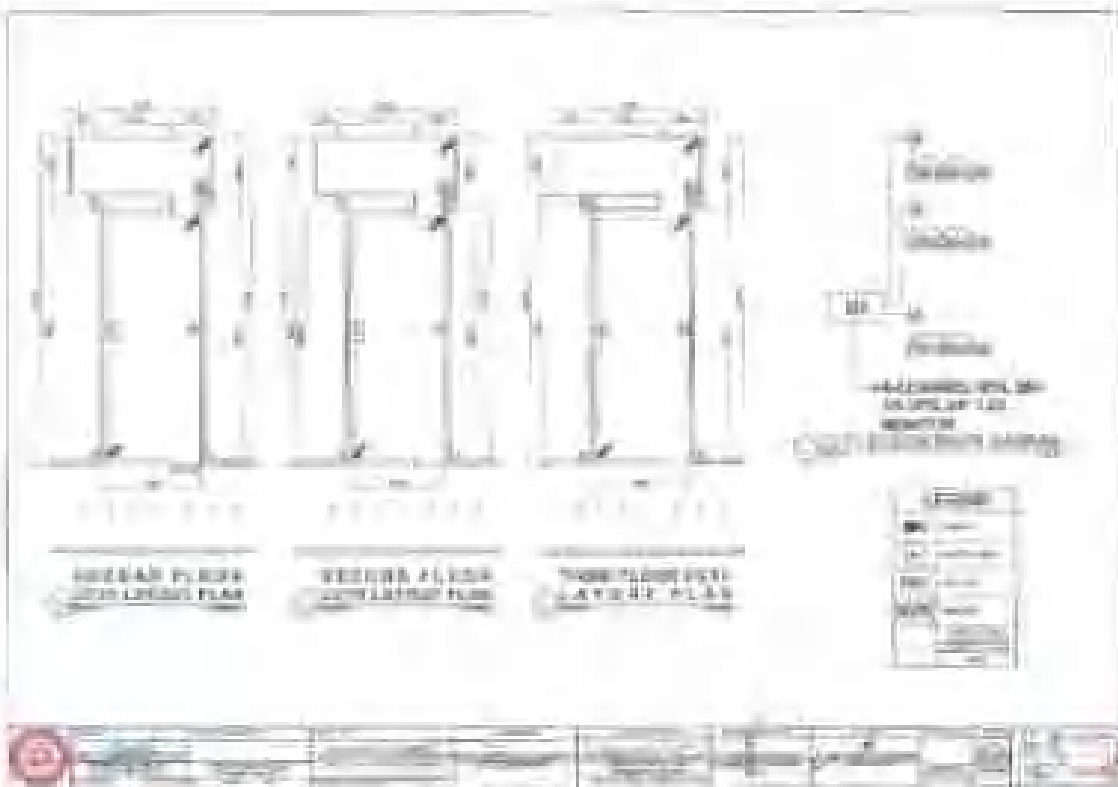
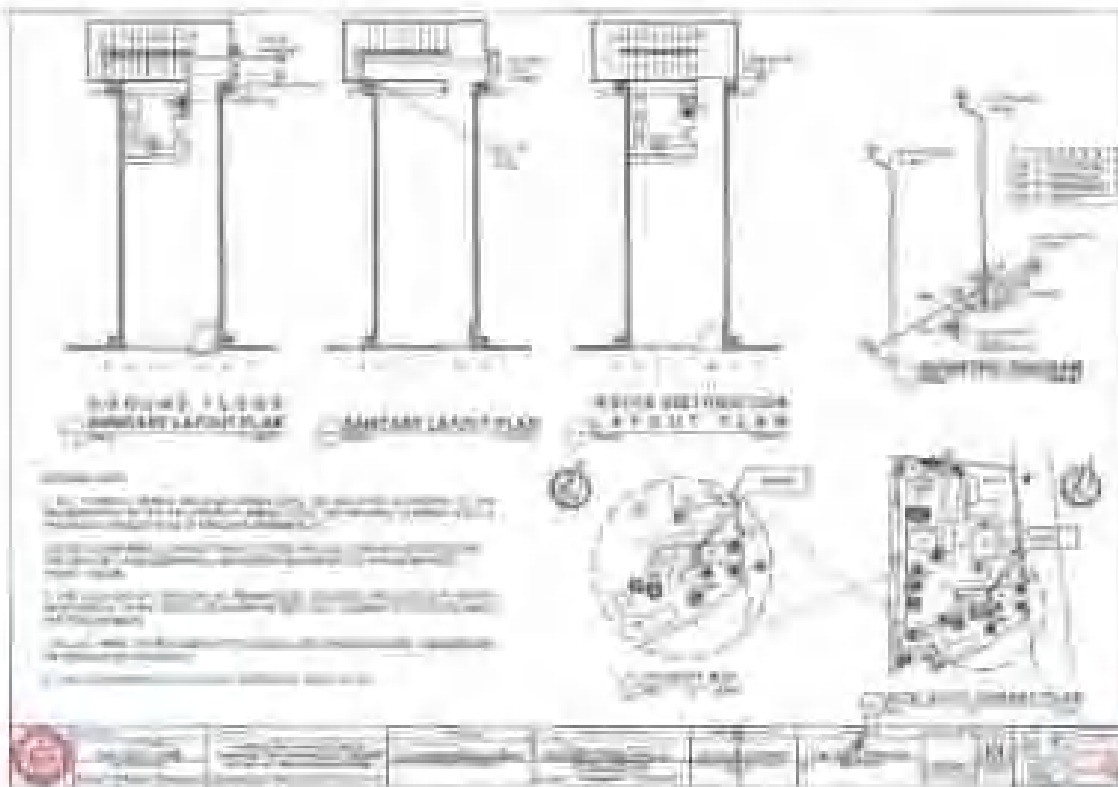
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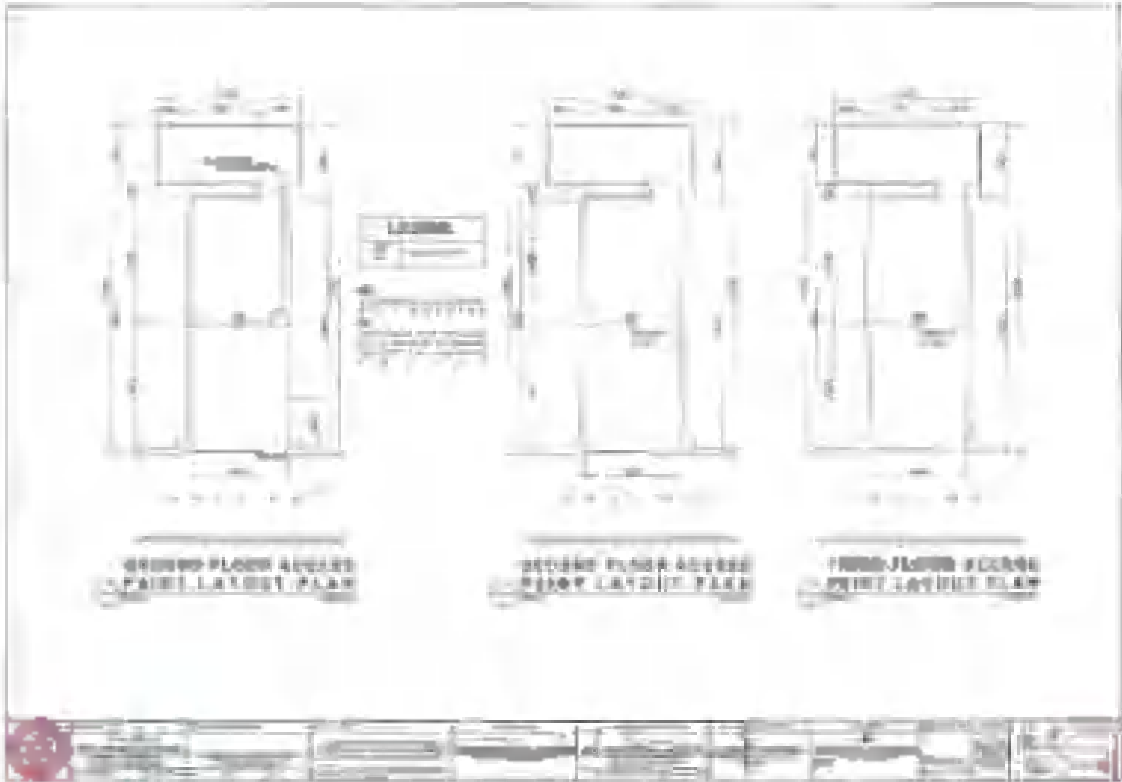
DATE	TIME	TEMPERATURE	WIND DIRECTION	WIND VELOCITY	WEATHER	REMARKS
10/10/2018	08:00	28.5	SE	15	Partly cloudy	
10/10/2018	12:00	32.0	SE	20	Sunny	
10/10/2018	16:00	30.0	SE	15	Partly cloudy	
10/10/2018	20:00	28.0	SE	10	Clear	

Diagram:

CONCLUSION:

The experiment was conducted to study the effect of wind velocity on the power output of a wind turbine. The results show that the power output increases with the cube of the wind velocity. The maximum power output was observed at a wind velocity of 20 m/s.





Section VIII Bill of Quantities

Notes on the Bill of Quantities

Objectives

The objectives of the Bill of Quantities are:

- a. to provide sufficient information on the quantities of Works to be performed to enable Bids to be prepared efficiently and accurately, and
- b. when a Contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations, or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Daywork Schedule

A Daywork Schedule should be included only if the probability of unforeseen work outside the items included in the Bill of Quantities is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

Provisional Sums

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

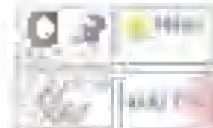
The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime

Contractor for the use and convenience of the specialist contractors; each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

Signature Box

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.



BILL OF MATERIALS

	Item Bill Description	Quantity	Unit	Unit Cost	Amount
I	GENERAL REQUIREMENTS				
01	Project Director	1	mo		
02	Construction Safety and Health Program	1	yr		
03	Materials and Construction	1	yr		
04	Site Temporary Power	1	yr		
100 000	GENERAL OF STRUCTURES AND CONSTRUCTION				
01	Removal of Structures and Construction	1	yr		
200 000	STRUCTURAL EXCAVATION				
01	Excavate Concrete	1.00	cu yd		
02	Excavate RE	1.00	cu yd		
300 000	CONCREMENT				
01	Form 18	1.00	cu yd		
400 000	REINFORCED CONCRETE				
01	Structural Concrete (Class 4, 30 Days)	2.00	cu yd		
500 000	REINFORCED STEEL				
01	Reinforced Steel (Rebar) (Trade 4)	100.00	lb		
02	Form and Steel (Rebar) (Trade 4)	100.00	lb		
600 000	MECHANICAL AND ELECTRICAL				
01	Electrical and Telecommunications	1	yr		
700 000	PIPE, PIPING AND SPECIALTY SYSTEMS				
01	PVC Pipe and Fittings (2" Class 4 Series 150)	20	ft		
800 000	PLASTER WORK				
01	Apply Dry Mix Concrete Plaster (75% Type 1 Fines) (2" Class) (150)	1	sq		
02	Water (Dry Mix Concrete Plaster)	2	gal		
03	Form	2	sq		
900 000	CONCRETE AND JOINTS WORK				
01	Pre-Cast Bed with Joint Form Casting	12.00	sq yd		
02	Pre-Casting with Joint Form Casting	120.00	sq yd		
03	Form	1	sq		
04	Form Bed (Class 40 Pre-Cast Bed)	1.00	sq		
05	Concrete and Joint Form	1	sq		
990 000	OTHER ITEMS AND PRICES				
01	Pre-Cast No Bed Bed Bed	1.00	sq yd		

070 107	ALUMINUM FINISH SLAB FORM		
070 108	Aluminum Slab Form (Dry Type)	13	100
070 109	ALUMINUM SLAB FORMING		
070 110	Aluminum Slab Form (Dry Type)	13	100
070 111	ALUMINUM FORMING AND STRUKING		
070 112	Aluminum Forming	13	100
070 113	Aluminum Striking	1	100
070 114	CONCRETE SLAB FORMING		
070 115	Forming and Striking (Dry Type) (Slab)	24.24	100
070 116	Forming and Striking (Wet Type) (Slab)	24	100
070 117	FORMWORK METAL SHEET		
070 118	Formwork Metal Sheet (Dry Type) (Slab)	13	100
070 119	FORMWORK METAL SHEET		
070 120	Formwork Metal Sheet	13	100
070 121	Formwork Metal Sheet	13	100
070 122	Formwork Metal Sheet	13	100
070 123	Formwork Metal Sheet	13	100
070 124	Formwork Metal Sheet	13	100
070 125	Formwork Metal Sheet	13	100
070 126	Formwork Metal Sheet	13	100
070 127	Formwork Metal Sheet	13	100
070 128	Formwork Metal Sheet	13	100
070 129	Formwork Metal Sheet	13	100
070 130	Formwork Metal Sheet	13	100
070 131	Formwork Metal Sheet	13	100
070 132	Formwork Metal Sheet	13	100
070 133	Formwork Metal Sheet	13	100
070 134	Formwork Metal Sheet	13	100
070 135	Formwork Metal Sheet	13	100
070 136	Formwork Metal Sheet	13	100
070 137	Formwork Metal Sheet	13	100
070 138	Formwork Metal Sheet	13	100
070 139	Formwork Metal Sheet	13	100
070 140	Formwork Metal Sheet	13	100
070 141	Formwork Metal Sheet	13	100
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070 193	Formwork Metal Sheet	13	100
070 194	Formwork Metal Sheet	13	100
070 195	Formwork Metal Sheet	13	100
070 196	Formwork Metal Sheet	13	100
070 197	Formwork Metal Sheet	13	100
070 198	Formwork Metal Sheet	13	100
070 199	Formwork Metal Sheet	13	100
070 200	Formwork Metal Sheet	13	100

Section IX. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar instances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PHILs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criteria pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 2.5.2 of the IRR;

Technical Documents

- (e) 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
- (f) 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
- (g) Special PCAB License in case of Joint Ventures and registration for the type and cost of the contract to be bid; and
- (h) 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
- (i) 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 Foreman), 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/owner for the duration of the project, as the case may be; and
- (j) Original duly signed Oritinus 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

- (k) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC).

Class "B" Documents

- (l) If applicable, duly signed joint venture agreement (JVA) in accordance with EA 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

- (m) Original of duly signed and accomplished Financial Bid Form; and

Other documentary requirements under RA No. 9184

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

