

PHILIPPINE BIDDING DOCUMENTS

Government of the
Republic of the Philippines

Procurement of INFRASTRUCTURE PROJECTS

**First Edition
May 2025**

Preface

These Philippine Bidding Documents (PBD) for the procurement of Infrastructure Projects (hereinafter referred to also as the “Works”) through [Competitive Bidding, Limited Source Bidding, or Competitive Dialogue¹] have been prepared by the Government of the Philippines (GoP) for use by all branches, agencies, departments, bureaus, offices, or instrumentalities of the Government, including government-owned and/or -controlled corporations (GOCC), government financial institutions (GFI), state universities and colleges (SUC), local government units (LGU), and autonomous regional government. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory² use in projects that are financed in whole or in part by the GoP or any foreign government/foreign or international financing institution in accordance with the provisions of the Implementing Rules and Regulations (IRR) of Republic Act No. 12009 (RA No. 12009).

These PBD are intended as a model for admeasurements (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: (a) the objectives, scope, and expected outputs and/or results of the proposed contract; (b) the eligibility requirements of Bidders; (c) the expected contract duration; and (d) the obligations, duties, and/or functions of the winning bidder.

In order to simplify the preparation of the Bidding Documents for each procurement, the PBD group the provisions that are intended to be used unchanged in Section II. Instructions to Bidders (ITB) and in Section IV. General Conditions of Contract (GCC). Data and provisions specific to each procurement and contract should be included in Section III. Bid Data Sheet (BDS); Section V. Special Conditions of Contract (SCC); Section VI. Specifications; Section VII. Drawings; and Section VIII. Bill of Quantities. The forms to be used are provided in Section IX. Philippine Bidding Documents Related Forms.

Prudence must be exercised to check the relevance of the provisions of the PBD against the requirements of the specific Works to be procured. In addition, 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, except for the notes introducing Section IX. Philippine Bidding Documents Related Forms, where the information is useful for the Bidder. 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 proposal submission,” should be furnished in the BDS and SCC. The final documents should contain neither blank spaces nor options.

¹ For Second Stage of Competitive Dialogue under Section 29.4.2 of IRR of RA No. 12009.

² Unless the Treaty or International or Executive Agreement expressly provides use of foreign government/foreign or international financing institution procurement guidelines.

- c) This Preface and the footnotes, or notes in italics included in the Invitation to Bid, BDS, SCC, 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. The Bidding Documents should not contain footnotes except Section IX. Philippine Bidding Documents Related Forms since these provide important guidance to Bidders.
- d) The cover page should be modified as required to identify the Bidding Documents and date of issue.
- e) The Project title page should be modified as required to identify the Project title and number, name and address of the Procuring Entity.
- f) If modifications must be made to the bidding requirements, they can be presented in the BDS. Modifications for specific Project or Contract details should be provided in the SCC as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the BDS or SCC these terms shall be printed in bold type face on Section II. Instructions to Bidders, and Section IV. General Conditions of Contract, respectively. To facilitate easy reference and completion, clauses from the BDS and SCC shall appear in bold type face in Sections II and IV, respectively.



Procurement of INFRASTRUCTURE PROJECTS

FURNISHING OF LABOR AND MATERIALS FOR THE
INSTALLATION OF DISTRIBUTION LINE AT
MANGGAYAWAN, CANAMAN TO SUA, CAMALIGAN,
AND ZONE 3 TO ZONE 1 MANGGAYAWAN,
CANAMAN, CAMARINES SUR (INFRA 2025-006)

(J.R. NO. 25-10-081)

For more information, please contact us:

☎ (+63) 928 681 1386 • (+63) 927 463 5974

☎ (054) 473 7813 • Local 114

✉ mnwaterdistrict@yahoo.com

🌐 www.mnwd.gov.ph

TABLE OF CONTENTS

GLOSSARY OF ACRONYMS, TERMS, AND ABBREVIATIONS	6
DEFINITION OF TERMS	8
SECTION I. INVITATION TO BID	11
SECTION II. INSTRUCTIONS TO BIDDERS	14
A. GENERAL	17
B. CONTENTS OF BIDDING DOCUMENTS	24
C. PREPARATION OF BIDS	25
D. SUBMISSION AND OPENING OF BIDS	33
E. EVALUATION AND COMPARISON OF BIDS	35
F. AWARD OF CONTRACT	40
SECTION III. BID DATA SHEET	43
SECTION IV. GENERAL CONDITIONS OF CONTRACT	49
SECTION V. SPECIAL CONDITIONS OF CONTRACT	79
SECTION VI. SPECIFICATIONS	83
SECTION VII. DRAWINGS	96
SECTION VIII. BILL OF QUANTITIES	113

Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

ADR – Alternative Dispute Resolution.

ARCC – Allowable Range of Contract Cost.

BAC – Bids and Awards Committee.

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

CDA – Cooperative Development Authority.

COS – Contract of Service.

CPI – Consumer Price Index.

DOLE – Department of Labor and Employment.

DTI – Department of Trade and Industry.

GCC - General Conditions of Contract.

GFI – Government Financial Institution.

GOCC – Government-Owned and/or –Controlled Corporation.

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

HoPE – Head of Procuring Entity.

JO – Job Order.

IRR – Implementing Rules and Regulations of Republic Act No. 12009.

ITB – Instructions to Bidders.

LCB- Lowest Calculated Bid.

LCRB – Lowest Calculated Responsive Bid.

LGUs – Local Government Units.

LoC – Line of Credit

MAB – Most Advantageous Bid.

MARB – Most Advantageous Responsive Bid.

MEARB – Most Economically Advantageous Responsive Bid.

MYCA – Multi-Year Contracting Authority.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PCAB – Philippine Contractors Accreditation Board.

PhilGEPS - Philippine Government Electronic Procurement System.

PSA – Philippine Statistics Authority.

RA No. – Republic Act Number.

SARB – Single Advantageous and Responsive Bid.

SCC - Special Conditions of Contract.

SCRB – Single Calculated and Responsive Bid.

SEARB – Single Economically Advantageous Responsive Bid.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

SRRB – Single Rated and Responsive Bid.

UN – United Nations.

Definition of Terms

Bid – a signed offer, proposal, or quotation submitted by a supplier, manufacturer, distributor, contractor, consultant, or service provider in response to the requirements of the Procuring Entity as stated in the Bidding Documents. (IRR of RA No. 12009, Section 5[c]).

Bidder – a supplier, manufacturer, distributor, contractor, consultant, and service provider, whether public or private, who submits a Bid in response to the requirements of the Procuring Entity as stated in the Bidding Documents. (IRR of RA No. 12009, Section 5[d]).

Bidding Documents – the documents issued by the Procuring Entity as the basis for Bids, furnishing all information necessary to prospective bidder to prepare a Bid for the Goods, Infrastructure Projects, and Consulting Services required by the Procuring Entity. (IRR of RA No. 12009, Section 5[e])

Bill of Quantities – a list of the specific items of the Work and their corresponding unit prices, lump sums, and/or provisional sums.

Consulting Services – services for Infrastructure Projects and other types of projects or activities of the government requiring adequate external technical and professional expertise that are beyond the capability or capacity of the government 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. (IRR of RA No. 12009, Section 5[i]).

Contract – the agreement entered into between the Procuring Entity and the Contractor to execute, complete, and maintain the Works and as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

Contract Price – the price stated in the Notice of Award and thereafter to be paid by the Procuring Entity to the Contractor for the execution of the Works in accordance with this Contract.

Contract Time Extension (CTE) – the allowable period for the Contractor to complete the Works in addition to the original Completion Date stated in this Contract.

Contractor – 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.

Days – refers to calendar days; months to calendar months.

Dayworks – varied work inputs subject to payment on a time basis for the Contractor's employees and Equipment, in addition to payments for associated Materials and Plant.

Defect – any part of the Works not completed in accordance with the Contract.

Defects Liability Certificate – the certificate issued by the Procuring Entity upon correction of defects by the Contractor.

Defects Liability Period – the one (1) year period between contract completion and final acceptance within which the Contractor assumes the responsibility to undertake the repair of any damage to the Works at its own expense.

Drawings – graphical presentations of the Works. They include all supplementary details, shop drawings, calculations, and other information provided or approved for the execution of this Contract.

Effective Date of the Contract – the date indicated in the contract. However, the Contractor shall commence performance of its obligations only upon receipt of the Notice to Proceed.

Foreign-funded Procurement or Foreign-Assisted Project – refers to the acquisition of Goods, Consulting Services, and the contracting for Infrastructure Projects by the Government of the Philippines which are wholly or partly funded by foreign loans or grants pursuant to a Treaty or International or Executive Agreement.

Funding Source – Organization named in the SCC.

Goods – refer to (i) all items, supplies, and materials, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity; or (ii) general support services which pertain to all types of services except Consulting Services and Infrastructure Projects, such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services. Personnel Services or individual COS or JO engagements do not fall under this definition; (IRR of RA No. 12009, Section 5[n]).

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;” (IRR of RA No. 12009, Section 5[r]).

Lot – refers to one or more infrastructure projects that are grouped or bundled together based on factors, such as scope, location, or other relevant parameters, as determined by the End-User or Implementing Unit of the Procuring Entity. Each lot is distinct within the project and may be awarded as a separate contract.

Materials – refer to all supplies, including consumables, used by the Contractor for incorporation in the Works.

Notice to Proceed – refers to a written notice issued by the Procuring Entity to the Contractor requiring the latter to begin the commencement of the work not later than a specified or determinable date.

Online submission – pertains to the submission of the bid for Infrastructure Projects and the bid envelopes containing the technical and financial components of the bid through electronic means or through the electronic bidding facility of the PhilGEPS, once available.

Permanent Works – refer to all permanent structures and all other project features and facilities required to be constructed and completed in accordance with this Contract which shall be delivered to the Procuring Entity, and which shall remain at the Site after the removal of all Temporary Works.

Plant – refers to the machinery, apparatus, and the like intended to form an integral part of the Permanent Works.

Procuring Entity - the organization acquiring the Infrastructure Project, as named in the SCC.

Project – refers to a specific or identified procurement covering Goods, Infrastructure Projects 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.

Program of Work – refers to the big-picture plan and comprehensive schedule that details construction-related tasks to ensure the timely and efficient delivery of the project.

Site Investigation Reports – refers to those that were included in the Bidding Documents and are factual and interpretative reports about the surface and subsurface conditions at the Site.

Slippage – refers to a delay in work execution occurring when actual accomplishment falls below the target as measured by the difference between the scheduled and actual accomplishment of the Work by the Contractor as established from the work schedule. This is actually described as a percentage of the whole Works.

Simple Infrastructure Projects – refers to construction, improvement, rehabilitation, demolition, repair, restoration, or maintenance of structures, technical facilities and systems with an Approved Budget for the Contract (ABC) not exceeding Ten Million Pesos (PhP 10,000,000.00) built at the community level for the sustenance of lives and livelihoods of the population living in a community and built according to the needs and aspirations of the community population.

Verified Report – the report submitted by the Implementing Unit to the HoPE setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.

Section I. Invitation to Bid

Notes on the Invitation to Bid

The Invitation to Bid provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The Invitation to Bid shall be:

- a) In line with the principles of transparency and competitiveness and to ensure the widest possible dissemination thereof, all invitations to bid shall be published continuously by the Procuring Entity, for at least seven (7) calendar days on the Philippine Government Electronic Procurement System (PhilGEPS) website, in any conspicuous place reserved for this purpose in the premises of the Procuring Entity, and on the website or social media platforms of the Procuring Entity, if available, or such other channels as may be authorized by the GPPB, and the website prescribed by the foreign government/foreign or international financing institution, if applicable; and
- b) For justifiable reasons, Procuring Entities that cannot publish procurement opportunities on its website, social media platform, or such other channels authorized by the GPPB shall publish its invitation to bid, at least once, in a newspaper of general nationwide circulation.

Apart from the essential items listed in the Bidding Documents, the Invitation to Bid should also indicate the following:

- a) The availability of the Bidding Documents, which shall commence from the time the Invitation to Bid is first published until the deadline for submission and continue until the deadline for 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;
- d) The procurement strategy/ies; and
- e) The bid award criterion/criteria. (e.g., the application of a margin of preference in bid evaluation)

The Invitation to Bid should be incorporated into the Bidding Documents. The information contained in the Invitation to Bid must conform to the Bidding Documents, particularly to the relevant information in the BDS.

**Invitation to Bid for
FURNISHING OF LABOR AND MATERIALS FOR THE
INSTALLATION OF DISTRIBUTION LINE AT MANGGAYAWAN,
CANAMAN TO SUA, CAMALIGAN, AND ZONE 3 TO ZONE 1
MANGGAYAWAN, CANAMAN, CAMARINES SUR**

- 1) The *METROPOLITAN NAGA WATER DISTRICT (MNWD)*, through its Corporate Budget intends to apply the sum of **THREE MILLION ONE HUNDRED NINE THOUSAND NINETY-ONE PESOS AND 98/100 (Php 3,109,091.98)** being the Approved Budget for the Contract (ABC) to payments under the contract for **FURNISHING OF LABOR AND MATERIALS FOR THE INSTALLATION OF DISTRIBUTION LINE AT MANGGAYAWAN, CANAMAN TO SUA, CAMALIGAN, AND ZONE 3 TO ZONE 1 MANGGAYAWAN, CANAMAN, CAMARINES SUR, PROJECT NO. INFRA 2025-006**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
- 2) The *MNWD* now invites bids for the above Procurement Project. Completion of the Works is required within **One Hundred Eighty Calendar Days (180 CD)**. Bidders should have completed, within **five (5) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders (ITB).
- 3) Bidding will be conducted through competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the IRR, otherwise known as the “New Government Procurement Act (NGPA)”.

Bidding is restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines.

- 4) Interested Bidders may obtain further information from *MNWD* and inspect the Bidding Documents at the address given below from 8:00 AM - 12:00 NN & 1:00 PM - 5:00 PM.
- 5) A complete set of Bidding Documents may be acquired by interested bidders on **TUESDAY, OCTOBER 29 TO NOVEMBER 17, 2025**, from the 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 PESOS (Php 5,000.00)** only.

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

- 6) The *MNWD* will hold a Pre-Bid Conference on **NOVEMBER 5, 2025, 1:30 P.M.** at 2nd Floor, Conference Room, 40 Miranda Avenue, Concepcion Pequeña, Naga City and/or through video conferencing via Zoom, which shall be open to prospective Bidders.

For those who are interested to join the video conference, you are hereby advised to submit your letter of intent **ONE (1) DAY before** the scheduled pre-bid conference, indicating the e-mail address, wherein the Zoom Video Conference I.D. and password will be sent. Kindly send your letter to:

MR. JON LOUIE A. SANCHEZ
BAC Chairperson
E-mail address: mnwdbac@yahoo.com

- 7) Bids must be duly received by the Bids and Awards Committee (BAC) Secretariat through manual submission at the office address indicated below, on or before **NOVEMBER 17, 2025 at 12:00 N.N.** Late bids shall not be accepted.
 - 8) All Bids must be accompanied by a Bid Security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
 - 9) Bid opening shall be on **NOVEMBER 17, 2025, 1:30 P.M.** at the given address below, and/or via Zoom Video Conference. Bids will be opened in the presence of the Bidders' representatives who choose to attend the activity.
 - 10) The *MNWD* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 70 of R.A. No. 12009, without incurring any liability to the affected Bidder or Bidders.
- 1) For further information, please refer to:

MR. JON LOUIE A. SANCHEZ
BAC Chairperson
MNWD Compound, 40 J. Miranda Avenue, Naga City
Email Address: mnwdbac@yahoo.com
Website Address: mnwd.gov.ph

- 2) You may visit the following websites:

For downloading of bidding documents and forms, please visit the **Philippine Government Electronic Procurement System (PhilGEPS) website** or **Government Procurement Policy Board (GPPB) website**.

October 29, 2025

JON LOUIE A. SANCHEZ
Chairperson
Bids and Awards Committee

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

This Section contains provisions that shall not be changed or modified. Any amendment shall be reflected in Section III. Bid Data Sheet which consists of provisions that supplement, amend, or specify in detail information or requirements included in this Section and which are specific to each procurement.

Matters governing performance of the Contractor, payments under the contract, or those affecting the risks, rights, and obligations of the parties under the contract are not normally included in this Section, but rather under Section IV. General Conditions of Contract (GCC), and/or Section V. Special Conditions of Contract (SCC). If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, prudence must be exercised to avoid contradictions between clauses dealing with the same matter.

TABLE OF CONTENTS

A. GENERAL	17
1. Scope of Bid.....	17
2. Source of Funds.....	17
3. Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices.....	17
4. Conflict of Interest.....	18
5. Eligible Bidders.....	20
6. Bidder's Responsibilities.....	21
7. Origin of Goods and Services.....	24
8. Subcontracts.....	24
B. CONTENTS OF BIDDING DOCUMENTS	24
9. Pre-Bid Conference.....	24
10. Clarification and Amendment of Bidding Documents.....	25
C. PREPARATION OF BIDS	25
11. Language of Bids.....	25
12. Documents Comprising the Bid: Technical and Financial Components.....	26
13. Bid Prices.....	27
14. Bid Currencies.....	28
15. Bid Validity.....	28
16. Bid Security.....	28
17. Format and Signing of Bids.....	32
18. Sealing and Marking of Bids.....	32
D. SUBMISSION AND OPENING OF BIDS	33
19. Deadline for Submission of Bids.....	33
20. Late Bids.....	33
21. Modification and Withdrawal of Bids.....	33
22. Opening and Preliminary Examination of Bids.....	34
E. EVALUATION AND COMPARISON OF BIDS	35
23. Process to be Confidential.....	35
24. Clarification of Bids.....	35
25. Detailed Evaluation and Comparison of Bids.....	35
26. Post Qualification.....	38
27. Reservation Clause.....	39

F. AWARD OF CONTRACT	40
28. Contract Award	40
29. Signing of the Contract	40
30. Performance Security	41
31. Notice to Proceed.....	42
32. Protest Mechanism	42

A. General

1) Scope of Bid

- 1.1 The Procuring Entity named in the **BDS**, invites Bids for the [insert Procurement Project], with Project Identification Number [indicate number].

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

- 1.2 The winning Bidder will be expected to complete the Works by the intended completion date specified in **SCC** Clause 1.1.

2) Source of Funds

The Procuring Entity has a budget or received funds from the Funding Source named in the **BDS**, and in the amount indicated in the **BDS**. It intends to apply part of the funds received for this Project to cover eligible payments under the contract.

3) Corrupt, Fraudulent, Collusive, Coercive, and Obstructive Practices

- 3.1 Unless otherwise specified in the **BDS**, the Procuring Entity, as well as Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. In pursuance of this policy, the Procuring Entity:

- a) defines, for purposes of this provision, the following terms under existing laws, rules, and regulations:
- i) "corrupt practice" means an act by which officials in the public or private sectors improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in RA No. 3019.
 - ii) "fraudulent practice" means a misrepresentation of facts for purposes of influencing a procurement process or the execution of a contract to the detriment of the Procuring Entity, which includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.
 - iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.
 - iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their

participation in a procurement process, or affect the execution of a contract;

- v) "obstructive practice" is
 - a) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution relative to allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent the latter from disclosing its knowledge of matters relevant to the administrative proceedings or from pursuing such proceedings or investigation; or
 - b) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.
- b) Undertakes to reject a proposal for award upon *prima facie* determination that the Bidder recommended for award has engaged in any of the prohibited practices mentioned in this Clause for purposes of competing for the contract.

3.2 Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under the applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in **ITB** Clause 4.

3.3 Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a Bidder or Contractor in the bidding for and performance of a contract themselves or through independent auditors as reflected in the **GCC** Clause 36.

4) Conflict of Interest

4.1 All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) and a general conflict of interest in any of the circumstances set out in paragraphs (d) through (f) below:

- a) A Bidder has controlling shareholders or beneficial owners in common with another Bidder;
- b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;
- c) A bidder has the same legally authorized representative as that of another Bidder for purposes of this Bid;

- d) A bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process. This may include a firm or an organization that lends, or temporarily seconds, its personnel to firms or organizations that are engaged in consulting services for the preparation related to procurement for or implementation of the project if the personnel would be involved in any capacity on the same project;
 - e) A bidder who participated as a consultant in the preparation of the design or technical specifications of the goods and related services that are the subject of the bid; or
 - f) A bidder who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- 4.2 All Bidding Documents shall be accompanied by an Omnibus Sworn Statement of the Bidder that it is not related, by consanguinity or affinity up to the third civil degree, to the HoPE, Procurement Agent (if engaged), the head of the Project Management Office (PMO), the End-User or Implementing Unit or any members of the Bids and Awards Committee (BAC), Technical Working Group (TWG), and BAC Secretariat.³
- 4.3 The Bidder shall also disclose the ultimate beneficial ownership of the entity it represents. Failure to comply shall be a ground for the automatic disqualification of the bid in consonance with Section 59 of the IRR. For this reason, relationship to the aforementioned persons within the third civil degree of consanguinity or affinity shall automatically disqualify the Bidder from participating in the procurement of contracts of the Procuring Entity notwithstanding the act of such persons inhibiting themselves from the procurement process. This Clause shall apply to the following persons and affiliates:
- a) In the case of individuals or sole proprietorships, to the Bidders and their spouses;
 - b) In the case of partnerships, to the partnership itself and its partners;
 - c) In the case of cooperatives, to the cooperative itself and members of the board of directors, general manager or chief executive officer;
 - d) In the case of a partnership, joint venture, or consortium, to the entity itself, its members or partners, as well as any person or entity that is a member of a blacklisted partnership, joint venture, or consortium; and
 - e) In the case of corporations, a single stockholder, together with their relatives up to the third civil degree of consanguinity or affinity, and their assignees, holding at least twenty percent (20%) of the shares therein, its chairperson and president, shall be blacklisted after they have been

³ Section 81.1 of the IRR.

determined to hold the same controlling interest in a previously blacklisted corporation or in two corporations that have been blacklisted; the corporations of which they are part shall also be blacklisted.

5) Eligible Bidders

- 5.1 Only Bids found to be legally, technically, and financially eligible will be evaluated. For procurement of Infrastructure Projects, the following persons shall be eligible to participate in this bidding:
- a) Duly licensed Filipino citizens or sole proprietorships;
 - b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
 - c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;
 - d) Cooperatives duly organized under the laws of the Philippines; and
 - e) Persons or entities forming themselves into a Joint Venture (JV), i.e., a group of two (2) or more persons or entities that intend to be jointly and severally responsible or liable for a particular contract; Provided, however, that in accordance with relevant laws, rules, and regulations, Filipino ownership or interest of the joint venture concerned shall be at least sixty percent (60%); Provided, further, that joint ventures in which Filipino ownership or interest is less than sixty percent (60%) may be eligible where the structures to be built require the application of techniques or technologies which are not adequately possessed by a person or entity meeting the sixty percent (60%) Filipino ownership requirement; Provided, furthermore, that in the latter case, Filipino ownership or interest shall not be less than twenty-five percent (25%). For this purpose, Filipino ownership or interest shall be based on the contributions of each of the member of the joint venture as specified in their Joint Venture Agreement (JVA); Provided, finally, that the primary purpose of each member of the joint venture must be similar or related to the requirement of the project to be bid out.
- 5.2 The Procuring Entity may also invite foreign bidders when provided for under any Treaty or International or Executive Agreement as specified in the **BDS**.
- 5.3 In accordance with RA No. 4566 or the "Contractors' License Law" as amended by RA No. 11711 or "An Act Further Amending Republic Act No. 4566", the persons or entities enumerated in Section 52 of the IRR may participate in the procurement of Infrastructure Projects if it has been issued a license by the Philippine Contractors Accreditation Board (PCAB) to engage or act as a contractor.
- 5.4 The Bidder must have completed an SLCC that is similar to the procurement project to be bid, and whose value must be equivalent to at least fifty percent (50%) of the ABC, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price indices; Provided, that any change to the fifty

percent (50%) requirement may be allowed, subject to the recommendation of the Procuring Entity, which shall be submitted to the GPPB for consideration; Provided, further, that contractors under Small A and Small B categories without similar experience on the procurement project to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost of their registration based on the guidelines as prescribed by the PCAB.

For foreign-funded procurement, the GoP and the foreign government, or foreign or international financing institution may agree on another track record requirement, as specified in the **BDS**.

Moreover, a contract shall be considered similar to the procurement project if it has the same major categories of work. The Procuring Entity may clarify in the Bidding Documents what is regarded as major categories of work, guided by the principle of proportionality and Fit-for-Purpose approach.

- 5.5 The SLCC shall be supported by an Owner's Certificate of Final Acceptance issued by the project owner other than the Contractor, or a final rating of at least Satisfactory in the CPES, or a similar performance and monitoring system. In the case of contracts with the private sector, an equivalent document shall be submitted.
- 5.6 The computation of a bidder's NFCC must be at least equal to the ABC to be bid, calculated as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the procurement project to be bid; Provided, That a different formula may be adopted subject to the recommendation of the Procuring Entity, which shall be submitted to the GPPB for consideration.

The value of the domestic bidder's current assets and current liabilities shall be based on the latest AFS submitted to the BIR.

For purposes of computing the foreign bidders' NFCC, the value of the current assets and current liabilities shall be based on their latest AFS prepared in accordance with international financial reporting standards.

6) Bidder's Responsibilities

- 6.1 The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section IX. Philippine Bidding Documents Related Forms as required in **ITB** Clause 12.1(h)(iv).
- 6.2 Before submitting their bids, the Bidders are deemed to be knowledgeable of all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.
- 6.3 The Bidder shall be responsible for the following:
- a) Took steps to carefully examine and ensure full understanding and comprehension of the Bidding Document, its requirements, clauses, and provisions;

- b) Acknowledged all conditions, local or otherwise, affecting the implementation of the contract;
- c) Made an estimate of the facilities available and needed for the contract to be bid, if any;
- d) Complied with its responsibility to inquire or secure Supplemental Bid Bulletin(s);
- e) Ensured that it is not “blacklisted” or barred from bidding by the Government of the Philippines (GoP) or any of its agencies, offices, corporations, or LGUs, including foreign government, or foreign/international financing institutions whose blacklisting rules have been recognized by the GPPB; by itself or by reason of its relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity;
- f) Ensured that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and that all statements and information provided therein are true and correct;
- g) Authorized the HoPE or its duly authorized representative/s to verify all the documents submitted;
- h) Ensured that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, to sign, and execute the ensuing contract, accompanied by the duly notarized Special Power of Attorney, Board or Partnership Resolution, or Secretary’s Certificate, whichever is applicable;
- i) Complied with the disclosure provision under Section 81 and 82 of RA No. 12009 and its IRR in relation to other provisions of RA No. 3019;
- j) Complied with existing labor laws and standards. Moreover, the Bidder undertakes to:
 - i) Ensure the entitlement of workers to wages, hours of work, safety and health and other prevailing conditions of work as established by national laws, rules and regulations; or Collective Bargaining Agreement (CBA) or arbitration award, if and when applicable.

In case there is a finding by the Procuring Entity or the Department of Labor and Employment (DOLE) of underpayment or non-payment of workers’ wages and wage-related benefits, the Bidder agrees that the performance security or portion of the contract amount shall be withheld in favor of the complaining workers pursuant to appropriate provisions of RA No. 12009, without prejudice to the institution of appropriate actions under the Labor Code, as amended, and other social legislations;
 - ii) Comply with Occupational Safety and Health Standards (OSHS) and correct deficiencies, if any.

In case of imminent danger, injury or death of the worker, the Bidder undertakes to suspend contract implementation pending clearance to resume from the DOLE Regional Office, in compliance with the Work Stoppage Order; and

- iii) Inform the workers of their conditions of work, labor clauses under the contract specifying wages, hours of work and other benefits under prevailing national laws, rules and regulations; or CBA or arbitration award, if and when applicable, through posting in two (2) conspicuous places in the establishment's premises.
- k) Ensured that it did not give or pay, directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity;

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned;

- l) Examined all instructions, forms, terms, and specifications in the Bidding Documents;
 - m) Determined and complied with all matters pertaining to the contract to be bid, including but not limited to: (i) the location and the nature of the contract, project, or work; (ii) climatic conditions; (iii) transportation facilities; (iv) 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 (v) other factors that may affect the cost, duration and execution or implementation of the contract, project, or work; and
 - n) Ensured that all information in the Bidding Documents, including bid or supplemental bid bulletin(s) issued, are correct and consistent. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible Bidder out of the data furnished by the Procuring Entity.
- 6.4 The Bidder, by the act of submitting its bid, shall be deemed to have inspected the site, determined the general characteristics of the contract works and the conditions for this Project and examine all instructions, forms, terms, and project requirements in the Bidding Documents.
- 6.5 Further, the Bidder shall bear all costs associated with the preparation and submission of its bid, and the Procuring Entity shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- In case of failure of bidding, the Bidding Documents fee may be applied in the re-bidding for the same Project.
- 6.6 Furthermore, the Bidder should be aware that the Procuring Entity will accept bids only from those that have paid the applicable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7) Origin of Goods and Services

Unless otherwise indicated in the **BDS**, there is no restriction on the origin of Goods, or Contracting of Works or Services other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations.

8) Subcontracts

8.1 Unless otherwise specified in the **BDS**, the Bidder may subcontract portions of the Works to an extent as may be approved by the HoPE and as stated in the **BDS**. However, the subcontracted portion shall not exceed fifty (50%), or a different percentage of the ABC, on a per project basis, as approved by the GPPB.

8.2 Subcontracting of any portion of the Project shall not relieve the Bidder from any liability or obligation that may arise from the contract.

8.3 Subcontractors must meet the eligibility criteria as stated in the **BDS** and shall submit the same eligibility documents as the general contractor. Failure of a subcontractor to meet the eligibility criteria does not affect the eligibility of the general contractor for the procurement project. In such case, the portion intended to be subcontracted to the ineligible subcontractor shall be assumed by the general contractor.

8.4 Subcontracting arrangement, if allowed, including the time of submission of the eligibility documents of the subcontractor, shall be disclosed in the **BDS**.

B. Contents of Bidding Documents

9) Pre-Bid Conference

9.1 If so specified in the **BDS**, a pre-bid conference shall be held either at the Procuring Entity's physical address and/or online through videoconferencing, webcasting, or similar technology, or a combination thereof, on the date indicated therein, to clarify and address the Bidders' questions on the technical and financial components of this Project.

9.2 The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission of and receipt of bids, but not earlier than seven (7) calendar days from the posting of the invitation to bid and other bidding documents on the PhilGEPS website.

9.3 Bidders are highly encouraged to attend the pre-bid conference to fully understand the Procuring Entity's requirements. While non-attendance of the Bidder will in no way prejudice its bid, the Bidder is deemed to know any changes and/or amendments to the Bidding Documents, as may be provided in the Supplemental Bid Bulletin.

The proceedings of the pre-bid conference shall be recorded, and the corresponding minutes shall be prepared not later than five (5) calendar days after the pre-bid conference. The minutes shall be made available to prospective Bidders not later than five (5) days upon written request.

- 9.4 Decisions of the BAC amending any provision of the Bidding Documents shall be issued in writing through a Supplemental Bid Bulletin at least seven (7) calendar days before the deadline for the submission and receipt of bids.

10) Clarification and Amendment of Bidding Documents

- 10.1 Prospective bidders may request for clarification(s) on and/or interpretation of any part of the Bidding Documents. Such a request must be in writing and submitted to the BAC of the Procuring Entity at the address or electronic mail indicated in the **BDS** or through the electronic bidding facility of PhilGEPS, as may be applicable, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.
- 10.2 The BAC shall respond to the said request by issuing a Supplemental Bid Bulletin duly signed by the BAC Chairperson. It shall be made available to all those who have properly secured the Bidding Documents, at least seven (7) calendar days before the deadline for the submission and receipt of Bids.
- 10.3 Supplemental Bid Bulletins may also be issued upon the Procuring Entity's initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of Bids. Any modification to the Bidding Documents shall be identified as an amendment.
- 10.4 Any Supplemental Bid Bulletin issued by the BAC shall also be posted on the PhilGEPS website, in any conspicuous place in the premises of the Procuring Entity, and on the website or social media platforms of the Procuring Entity, if available, or such other channels as may be authorized by the GPPB. It shall be the responsibility of all prospective bidders, including those who have properly secured the Bidding Documents, to inquire and secure Supplemental Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental Bid Bulletin must be accordingly informed by the BAC, and be allowed to modify or withdraw their bids prior to the deadline for the submission and receipt of bids in accordance with ITB Clause 21.

C. Preparation of Bids

11) Language of Bids

The eligibility requirements or statements, the bids, and all other documents to be submitted to the BAC must be in English. If the eligibility requirements or statements, the bids, and all other documents submitted to the BAC are in foreign language other than English, it must be accompanied by a translation of the documents in English. The documents shall be translated by the relevant foreign government agency, the foreign government agency authorized to translate documents, or a registered translator in the foreign bidder's country. The Bidder shall cause the authentication of the translated documents and shall be authenticated by the appropriate Philippine foreign service establishment or post or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. However, for Contracting Parties to the Apostille Convention, the documents shall be authenticated through an apostille by the Competent Authority, as defined in Section 20.2.9.2 of the IRR, except for countries identified by the DFA that will still require legalization (red ribbon) by the relevant Embassy or Consulate. The English translation shall govern, for purposes of interpretation of the bid.

12) Documents Comprising the Bid: Technical and Financial Components

12.1 The first bid envelope shall contain the following technical documents, including the eligibility documents:

- a) PhilGEPS Certificate of Registration (Platinum Membership) in accordance with Section 20 of the IRR;
- b) PCAB License and Registration, in case of Joint Venture (JV);
- c) Statement 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;
- d) Statement of the Bidder's SLCC, in accordance with **ITB** Clause 5.5.

The SLCC shall be supported by an Owner's Certificate of Final Acceptance issued by the project owner other than the Contractor, or a final rating of at least satisfactory in the Constructors Performance Evaluation System (CPES), or a similar performance and monitoring system. In case of contracts with the private sector, an equivalent document shall be submitted;

- e) NFCC computation in accordance with **ITB** Clause 5.6;
- f) Joint Venture Agreement (JVA), if applicable;
- g) Bid Security in the prescribed form and amount in accordance with **ITB** Clause 16, and validity period under **ITB** Clause 15;
- h) Project Requirements, which shall include the following:
 - i) Organizational chart of the personnel to be deployed for the procurement project to be bid;
 - ii) List of Contractor's personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the procurement project to be bid, with their complete qualifications and experience data. These personnel must meet the required minimum years of experience set in the **BDS**;
 - iii) List of Contractor's major equipment units which are owned, leased, or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor or vendor for the duration of the project, as the case may be, which must meet the minimum requirements for the contract set in the **BDS**; and
 - iv) Omnibus Sworn Statement in accordance with Section 54.3 of the IRR.

12.2 The second bid envelope shall contain the Financial Bid Form, which includes the bid prices and the bill of quantities, in accordance with **ITB** Clauses 13.1.

- 12.3 Whenever necessary, modifications may be made to the foregoing provisions specifically for major and specialized procurement to suit the particular needs of the Procuring Entity, subject to the approval of the GPPB.
- 12.4 All bids that exceed the ABC shall not be accepted. Unless otherwise indicated in the **BDS**, for foreign-funded procurement, the ABC shall be applied as the ceiling to bid prices provided the following conditions are met:
- a) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the Procuring Entity, payment could be made upon the submission of bids.
 - b) The Procuring Entity has procedures in place to ensure that the ABC is based on recent estimates made by the engineer or the responsible unit of the Procuring Entity and that the estimates are based on adequate detailed engineering and reflect the quality, supervision and risk, and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.
 - c) The Procuring Entity has trained cost estimators on estimating prices and analyzing bid variances. In the case of Infrastructure Projects, the Procuring Entity must also have trained quantity surveyors.
 - d) The Procuring Entity has established a system to monitor and report bid prices relative to ABC and engineer's or Procuring Entity's estimate.
 - e) The Procuring Entity has established a monitoring and evaluation system for contract implementation to provide feedback on actual total costs of goods and works.

However, the GoP and the foreign government, or foreign or international financing institutions may agree to waive the foregoing conditions.

13) Bid Prices

- 13.1 The contract shall be for the whole Works, as described in the Bidding Documents, based on the priced Bill of Quantities submitted by the Bidder.
- 13.2 The Bidder shall fill in rates and prices for all items of the Works described in the Bill of Quantities. In case partial bids are allowed in the ITB, bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, the Bill of Quantities, shall be considered non-responsive and shall be automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a zero (0) or a dash (-) for the said item would mean that it is being offered for free to the Government, except those required by law or regulations to be provided for.
- 13.3 For the given scope of work in the contract as awarded, all bid prices shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances as specified in GCC Clause 45.

14) Bid Currencies

- 14.1 All bid prices shall be quoted in Philippine Peso unless otherwise provided in the **BDS**. However, for purposes of bid evaluation, bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP Daily Reference Exchange Rate Bulletin on the day of the bid opening.⁴
- 14.2 If so allowed in accordance with **ITB** Clause 14.1, the Procuring Entity, for purposes of bid evaluation and comparing the bid prices, will convert the currencies in which the bid price is expressed to Philippine Peso at the foreign exchange rates.
- 14.3 Unless otherwise specified in the **BDS**, payment of the contract price shall be made in Philippine Peso.

15) Bid Validity

- 15.1 Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.
- 15.2 Should it become necessary to extend the validity of the bids and the bid securities beyond one hundred twenty (120) calendar days, the Procuring Entity concerned shall request in writing all those who submitted bids for such extension before the expiration date therefor. Bidders, however, shall have the right to refuse to grant such extension without forfeiting their Bid Security.

16) Bid Security

- 16.1 The Bidder, at its option, shall submit a Bid Security in the form and amount as stated in the **BDS**, which may include the following:

Form of Bid Security	Amount of Bid Security (Not less than the required Percentage of the ABC)
(a) Cash or cashier's/manager's check issued by a bank. <i>For biddings conducted by LGUs, the Cashier's or Manager's check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i>	Two percent (2%)
(b) Bank draft/guarantee or irrevocable Letter of Credit issued by a bank; Provided, however, that it shall be confirmed or authenticated by a local bank, if issued by a foreign bank.	Five percent (5%)

⁴ RA No. 8183 or "An Act to Assure Uniform Value to Philippine Coin and Currency."

<i>For biddings conducted by LGUs, the Bank Draft/ Guarantee, or irrevocable letter of credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i>	
(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance on as authorized to issue such security.	Five percent (5%)
(d) Bid Securing Declaration	Not Applicable

The Bid Security shall be denominated in Philippine Peso and posted in favor of the Procuring Entity.

- 16.2 The Bid Security should be valid for the period specified in the **BDS**. Any bid not accompanied by an acceptable Bid Security shall be considered as non-responsive and rejected by the Procuring Entity.
- 16.3 In no case shall the Bid Security be returned later than the expiration of the bid validity period indicated in the Bidding Documents, unless it has been extended in accordance with Section 57.2 of the IRR. In case the bidder is required to extend its bid validity, the bidder may, at its discretion, substitute a Bid Securing Declaration for the extended period as a replacement of its Bid Security; Provided, that the option to substitute is indicated in the **BDS**.
- 16.4 Upon signing and execution of the contract, pursuant to **ITB** Clause 29, and the posting of the performance security pursuant to **ITB** Clause 30, the Bid Security of the successful Bidder's Bid Security will be discharged, but in no case later than its validity period as indicated in **ITB** Clause 15.
- 16.5 The Bid Security may be forfeited based on any of the following grounds, as provided under Rule VIII, X, XI, and XXI of the IRR:
- a) If a Bidder:
 - i) With the LCRB, MEARB, MARB, Single Calculated and Responsive Bid (SCRB), Single Economically Advantageous Responsive Bid (SEARB), or Single Advantageous Responsive Bid (SARB) withdraws, fails, refuses or is unable to: (i) submit the documents required under Section 66.5 of the IRR; (ii) enter into contract with the Procuring Entity; or (iii) post the required performance security within the period stipulated in the IRR and in accordance with **ITB** Clause 30;
 - ii) Causes the delay, without justifiable cause, of the screening for eligibility, opening of bids, evaluation and post evaluation of Bids, and awarding of contracts;

- iii) Refuses to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification;
- iv) Withdraws a bid, or refuses to accept an award, or refuses or fails to enter into contract with the Procuring Entity without justifiable cause, after the approval of the HoPE for having been the declared LCRB or MEARB, as the case may be;
- v) Refuses or fails to furnish performance security within the prescribed time;
- vi) Commits of three (3) or more of any of the acts imposed with suspension, as provided under Section 99 of the IRR;
- vii) Uses force, fraudulent machinations, coercion, undue influence or pressure on any member of the BAC or any officer or employee of the Procuring Entity to take a particular action for its own favor or gain, or to the advantage of a particular bidder;
- viii) Colludes with one (1) or more bidders and submitting different bids as if they were bona fide, when they knew that one or more of them was so much higher than the other that it could not be honestly accepted and that the contract will surely be awarded to the pre-arranged lowest bid;
- ix) Maliciously submits different bids through two (2) or more persons, corporations, partnerships, or any other business entity in which it has interest, to create the appearance of competition that does not in fact exist so as to be declared as the winning bidder;
- x) Enters into an agreement with other bidder/s which call upon one to refrain from bidding for procurement contracts, or which call for withdrawal of bids already submitted, or which are otherwise intended to secure an undue advantage to any of the bidders;
- xi) Fails to faithfully disclose its relationship, regardless of the time of its discovery, with the HoPE, members of the BAC, the TWG, and the BAC Secretariat, the head of the PMO or the End-User or Implementing Unit, and the project consultants of the Procuring Entity, or of the procurement agent, whichever is applicable, by consanguinity or affinity up to the third civil degree pursuant to Section 81 of the IRR;
- xii) Submits beneficial ownership information containing false entries;
- xiii) Allows the use of one's name or uses the name of another for purposes of public bidding;
- xiv) Submits eligibility requirements and bids containing false information or falsified documents or the concealment of such

information that will materially alter the outcome of eligibility screening or any stage of the procurement;

- xv) Accesses the contents of any Bid submitted to the Procuring Entity before the opening of bids, without authorization;
 - xvi) Has any documented attempt to unduly influence the outcome of the bidding;
 - xv) Employs schemes which stifle or suppress any procurement activity; or
 - xvi) Commits a third offense imposed with blacklisting under the Act by the same Procuring Entity, or a combination of three (3) violations imposed with blacklisting by the Procuring Entity and other Procuring Entities, as posted on the GPPB portal;
- b) If a Winning Bidder:
- i) Conducts poor performance or unsatisfactory quality and/or progress of work. Poor performance shall be as follows:
 - i.i) Negative slippage of fifteen percent (15%) and above within the critical path of the project due entirely to the fault or negligence of the winning bidder; or
 - i.ii) Non-compliance of the materials and workmanship with the approved specifications arising from the fault or negligence of the winning bidder.
 - ii) In case it is determined prima facie that the winning bidder has engaged, before or during the implementation of the contract, in the following unlawful deeds and behaviors relative to contract acquisition and implementation:
 - ii.i) Corrupt, fraudulent, collusive and coercive practices;
 - ii.ii) Drawing up or using forged documents; or
 - ii.iii) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or trade.
 - iii) Assigns or subcontracts the contract or any part thereof or substituting key personnel named in the proposal without prior written approval by the Procuring Entity;
 - iv) Willfully or deliberately abandons or does not perform the project or contract by the winning bidder resulting in substantial breach thereof without lawful and/or just cause;
 - v) Has its contract terminated due to its default or unlawful acts; or
 - vi) Fails to comply with the provision on warranty that requires to repair any noted defect or damage to the Infrastructure Project

due to the use of materials of inferior quality within ninety (90) calendar days from the issuance of the order by the HoPE to undertake such repairs.

17) Format and Signing of Bids

- 17.1 Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in **Error! Reference source not found.** on or before the deadline specified in the **ITB** Clause 19 in two (2) separate sealed bid envelopes which shall be submitted simultaneously, whether through manual or online submission. The first shall contain the technical component of the bid, including the eligibility requirements under **ITB** Clause 12, and the second shall contain the financial component of the bid.
- 17.2 Forms as mentioned in **ITB** Clause 17.1 must be completed without any alterations to their format. No substitute form shall be accepted.
- 17.3 Each and every page of the Bid Form, including the Bill of Quantities, under Section IX hereof, shall be signed by the duly authorized representative/s of the Bidder. Failure to do so shall be a ground for the rejection of the bid.
- 17.4 Any insertions, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

18) Sealing and Marking of Bids

- 18.1 Bidders shall enclose their technical documents described in **ITB** Clause 12 in one sealed envelope marked "TECHNICAL COMPONENT," and the financial component in another sealed envelope marked "FINANCIAL COMPONENT," sealing them all in an outer envelope marked "BID."
- 18.2 The Bid shall be typed or written in ink and shall be signed by the Bidder or its duly authorized representative/s.
- 18.3 All envelopes shall:
 - a) contain the name of the contract to be bid in capital letters;
 - b) bear the name and address of the Bidder in capital letters;
 - c) be addressed to the Procuring Entity's BAC in accordance with **ITB** Clause 18.1;
 - d) bear the specific identification of this bidding process indicated in the **ITB** Clause 1.1; and
 - e) bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids, in accordance with **ITB** Clause 19.
- 18.4 For manually submitted bid envelopes that are not properly sealed and marked, as required in the Bidding Documents, the same shall be accepted; Provided, That the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. On the other hand, unsealed or unmarked bid envelopes, or bids that cannot be opened or corrupted in case of online submission, shall be rejected.

The BAC shall assume no responsibility for misplaced or lost contents of the improperly sealed or marked bid, or for its premature opening.

D. Submission and Opening of Bids

19) Deadline for Submission of Bids

Bids must be received by the Procuring Entity's BAC at the address indicated in the **IB**, or through the e-bidding facility of the PhilGEPS, on or before the date and time indicated in the **BDS**.

20) Late Bids

Bids, including the eligibility requirements, submitted after the deadline shall be rejected by the BAC. The BAC shall record in the Minutes of the Meeting the submission and opening of bids, the Bidder's name, its representative, and the time the late bid was submitted.

21) Modification and Withdrawal of Bids

21.1 Bidders may modify their bids before the deadline for the submission and receipt of bids.

a) For manual submission and receipt of bids, the Bidders shall not be allowed to retrieve their original bid, but shall only be allowed to submit the bid modification by sending another bid, equally sealed, properly identified, linked to its original bid, and marked as a "modification," thereof, and stamped "received" by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the bidder unopened.

b) For online submission of bids, the Bidders shall not be allowed to retrieve their original Bid, but shall only be allowed to submit the bid modification, send another Bid equally secured, properly identified labelled as a "modification" of the one previously submitted. The time indicated in the latest bid receipt page generated shall be the official time of submission. Bids modification submitted after the applicable deadline shall not be accepted.

21.2 Bidders may withdraw their bids in writing before the deadline for submission and receipt of bids. Withdrawal of bids after the applicable deadline shall be subject to appropriate sanctions as prescribed in the IRR.

Bidders may also express their intention not to participate in the bidding in writing, which should be received by the BAC before the deadline for submission and receipt of bids. Bidders that withdraw their bids shall no longer be allowed to submit another bid for the same contract, directly or indirectly.

21.3 No bid may be modified after the deadline for submission and receipt of bids. Further, no bid may be withdrawn in the interval between the deadline for submission and receipt of bids, and the expiration of bid validity specified by the Bidder in the Financial Bid Form. Withdrawal of bid during this interval shall result in the forfeiture of the Bidder's Bid Security pursuant to **ITB** Clause 16.5, and the imposition of administrative sanctions as prescribed by RA No. 12009

and without prejudice to the imposition of civil and criminal sanctions as provided under applicable laws.

Alternative Bids shall be rejected. For this purpose, Alternative Bid shall pertain to an offer made by a bidder in addition or as a substitute to its original bid, which may be included as part of its original bid or submitted separately. A bid with options shall likewise be considered an Alternative Bid regardless of whether said bid proposal is contained in a single envelope or submitted in two (2) or more separate bid envelopes.

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.

Each Bidder shall submit only one Bid, either individually or as a partner in a JV. A Bidder who submits or participates in more than one bid (other than as a subcontractor if a subcontractor is permitted to participate in more than one bid) will cause all the proposals with the Bidder's participation to be disqualified. This shall be without prejudice to any applicable criminal, civil and administrative penalties that may be imposed upon the persons and entities concerned.

22) Opening and Preliminary Examination of Bids

- 22.1 The BAC shall open the bids in public, immediately after the deadline for submission and receipt of bids, as specified in the **BDS**. In case the Bids cannot be opened as scheduled due to justifiable reasons, the BAC shall take custody of the submitted Bids and reschedule the opening of Bids on the next working day or at the soonest possible time, through the issuance of a Notice of Postponement to be posted on the PhilGEPS website and the website of the Procuring Entity concerned.
- 22.2 The manner of opening of the bids for Infrastructure Projects shall depend on the award criterion to be adopted, as follows:
 - a) For LCRB and MEARB, the BAC shall open the technical and financial proposals on the same day; and
 - b) For MARB, only the technical proposals shall be opened while the financial proposals shall remain unopened and shall be kept securely by the BAC until the specified time of their opening as indicated in the **BDS**. Only the financial proposals of the bidders who have met the highest technical score for MAB shall be opened.
- 22.3 The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price (per lot, if applicable, and/or including discount, if any), bid security, findings of preliminary examination, and whether there is a withdrawal or modification; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.
- 22.4 The Bidders or their duly authorized representatives may attend the opening of bids. The BAC shall ensure the integrity, security, and confidentiality of all submitted bids. The Abstract of bids, as read, and the minutes of the bid

opening shall be made available to the public, upon written request and payment of a specified fee to recover the cost of materials.

- 22.5 To ensure transparency and accurate representation of the bid submission, the BAC Secretariat shall notify in writing all bidders whose bids it has received through mail at its PhilGEPS-registered physical address or official e-mail address. The said notice shall be issued within seven (7) calendar days from the date of the bid opening.

E. Evaluation and Comparison of Bids

23) Process to be Confidential

- 23.1 Members of the BAC, its staff and personnel, Secretariat, and TWG, as well as Observers, are prohibited from making or accepting any communication with any bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of **ITB** Clause 24.
- 23.2 Any effort by a Bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the bid.

24) Clarification of Bids

To assist in the evaluation, comparison, and post-qualification of the bids, the Procuring Entity may ask in writing any Bidder for a clarification of its bid. All responses to requests for clarification shall be in writing. Any clarification submitted by a Bidder in respect to its bid that is not in response to the request of the Procuring Entity shall not be considered.

25) Detailed Evaluation and Comparison of Bids

- 25.1 The Procuring Entity's evaluation of bids shall be based on the bid price quoted in the Bid Form, which includes the Bill of Quantities.
- 25.2 The Procuring Entity will undertake the detailed evaluation and comparison of the bids which have passed the opening and preliminary examination of bids, pursuant to **ITB** Clause 22, to determine the Lowest Calculated Bid (LCB), Most Economically Advantageous Bid (MEAB), and Most Advantageous Bid (MAB).
- 25.3 The award criterion shall be determined as follows:
- a) For LCB:
 - i) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and
 - ii) The ranking of the total bid prices as so calculated from the lowest to highest, where the bid with the lowest price shall be identified as the Lowest Calculated Bid.
 - b) For MEAB, the BAC shall evaluate the quality and price proposals to determine the Most Economically Advantageous Bid (MEAB) using the following steps:

- i) The quality proposal together with the price proposal shall be considered in the evaluation of bids. The quality proposals shall be evaluated first using the criteria in the **BDS**. The price proposals of the bids that meet the minimum quality score shall then be opened.
- ii) The price and quality proposals shall be given corresponding weights with the price proposal given a minimum weight of fifteen percent (15%) up to a maximum of forty percent (40%). The weight of the quality criteria shall be adjusted accordingly such that their total weight in percent together with the weight given to the price proposal shall be equal to one hundred percent (100%).
- iii) To further promote green public procurement, the sustainability of materials-or structures with green specifications shall be given greater weight in the evaluation of bids. As approved by the BAC, the exact weights shall be indicated in the **BDS**. The BAC shall rank the bidders in descending order based on the combined numerical ratings of their quality and price proposals. The bidder with the best overall score using the quality-price ratio shall be referred to as the MEAB.
- iv) The HoPE shall approve or disapprove the recommendations of the BAC within two (2) calendar days after receipt of the results of the evaluation from the BAC.

The quality component shall be assessed on the basis of criteria with corresponding numerical weights indicated in the **BDS**, which may include qualitative, environmental, or social aspects linked to the subject matter of the contract. These may include any or a combination of the following:

- a) Quality and technical merit, including technical competence and a credible track record;
- b) Aesthetic and functional design and characteristics;
- c) Approach and methodology;
- d) Accessibility;
- e) Tools and equipment;
- f) Social, environmental, economic, and innovative characteristics;
- g) Organization, qualification, and experience of employees or staff assigned to perform the contract;
- h) Ongoing contracts and work commitments; or
- i) Other relevant criteria in relation to the subject Infrastructure Projects to be procured.

c) For MAB

- i) The BAC shall evaluate the quality proposals to determine the MAB using the quality components. The quality components shall be

assessed on the basis of the criteria with corresponding numerical weights indicated in the **BDS** to determine the bidder with the highest technical rating.

- ii) The second bid envelope of the bidder obtaining the highest technical rating shall be opened. If the financial proposal is equal to or lower than the ABC, the bid shall be accepted and determined as the MAB; otherwise, the same shall be rejected and the bidder will be disqualified.

25.4 In order to eliminate bias in evaluating the quality proposals, it is recommended that the highest and lowest scores for each bidder for each criterion shall not be considered in determining the average scores of the bidders, except when the evaluation is conducted in a collegial manner.

25.5 The BAC shall immediately conduct a detailed evaluation of all bids using non-discretionary criteria in considering the following:

- a) Completeness of the bid. Unless the **BDS** allows partial bids, bids not addressing or providing all of the required items in the BDS shall be considered non-responsive and, thus, automatically disqualified.

However, when no price or a zero (0) or a dash (-) is indicated in a required item in the bid form, the same shall be construed that it is being offered for free to the Government, except those required by law or regulations to be provided for; and

- b) Arithmetical corrections. The BAC shall consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid correction if expressly allowed in the **BDS**. Any adjustment shall be calculated in monetary terms to determine the calculated prices.

25.6 Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the LCB, MEAB, or MAB. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the **BDS**.

25.7 The BAC shall evaluate all bids on an equal footing to ensure fair and competitive bid comparison. For this purpose, all bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value-added tax (VAT), income tax, local taxes, and other fiscal levies and duties. Such bids, including said taxes, shall be the basis for the bid evaluation and comparison.

25.8 If so indicated pursuant to **ITB** Clause 1.1, bids may be submitted for individual lots, or for any combination thereof, provided that all bids and combinations of bids 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 prices quoted shall correspond to all of the requirements specified for each lot. Bid Security as required by **ITB** Clause 16 shall be submitted for each contract (lot) separately. The basis for evaluation of lots is specified in **BDS** Clause 25.5 (a).

26) Post Qualification

- 26.1 The BAC shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the LCB, MEAB, or MAB, as the case may be, complies with and is responsive to all the requirements and conditions specified in **ITB** Clauses 5 and 12. The Bidder, within a non-extendible period of five (5) calendar days from receipt of notice from the BAC that it submitted the LCB, MEAB, or MAB, shall submit all the eligibility documents supporting its PhilGEPS Certificate of Registration (Platinum Membership), its latest income and business tax returns filed for the preceding quarter which should not be earlier than two (2) quarters from the date of submission and receipt of bid, and other appropriate licenses and permits required by law and stated in the **BDS**.
- 26.2 Failure to submit any of the post-qualification requirements on time, or a finding against the veracity thereof, shall disqualify the Bidder for award; Provided, That in the event that a finding against the veracity of any of the documents submitted is made, it shall cause the forfeiture of the Bid Security.
- 26.3 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted pursuant to **ITB** Clause 12, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary "pass/fail" criterion, which shall be completed within a period of twelve (12) calendar days.
- 26.4 If the BAC determines that the bidder with the LCB, MEAB, or MAB passes all the criteria for post-qualification, it shall declare the said bid as the LCRB, MEARB, MARB, SCB, SEAB, or SAB and recommend to the HoPE the award of contract to the said bidder at its submitted bid price or its calculated bid price, whichever is lower or, in the case of quality-based evaluation procedure, submitted bid price or its negotiated price, whichever is lower.
- If, however, the BAC determines that the bidder with the LCB, MEAB, MAB, SCB, SEAB, or SAB fails to meet the post-qualification criteria, it shall immediately notify the Bidder in writing of its post-disqualification and the grounds for such determination.⁵
- 26.5 Immediately after the BAC has notified the first bidder of its post-disqualification, and notwithstanding any pending request for reconsideration thereof, the BAC shall initiate and complete the same post-qualification process on the bidder with the second LCB, MEAB, or MAB. If the second bidder passes the post-qualification and provided that the request for reconsideration of the first bidder has been denied, the second bidder shall be post-qualified as the bidder with the LCB, MEAB, or MAB.
- 26.6 If the second bidder, however, fails the post-qualification, the procedure for post-qualification shall be repeated for the bidder with the next LCB, MEAB, or MAB and so on, until the LCRB, MEARB, or MARB, as the case may be, is determined for award, subject to the procedure of Notice and Execution of Award.

⁵ Sec 63.5 of the IRR.

- 26.7 Within a period not exceeding ten (10) calendar days from the determination by the BAC of the LCRB, MEARB, MARB, SCRB, SEARB, or SARB and the recommendation to award the contract, the HoPE or its duly authorized representative shall approve or disapprove the said recommendation.
- 26.8 In case of approval, the HoPE or its duly authorized representative shall immediately issue the Notice of Award to the bidder with the LCRB, MEARB, MARB, SCRB, SEARB, or SARB, as the case may be.

In the event that the approving authority shall disapprove the resolution on the award of the contract, such disapproval shall be based only on valid, reasonable, and justifiable grounds as enumerated under Section 70 of the IRR to be expressed in writing. A copy of the decision disapproving the resolution shall be furnished to the BAC and the bidder.

27) Reservation Clause

- 27.1 Notwithstanding the eligibility or post-qualification of a bidder and without incurring any liability, the HoPE or its duly authorized representative at any stage of the procurement, reserves the right to review its qualifications, reject any and all bids, declare a failure of bidding or not award the contract in the following situations:
- a) If it has reasonable grounds to believe that a misrepresentation has been made by the said bidder; or
 - b) If it has reasonable grounds to believe that there has been a change in the bidder's capability to undertake the project from the time it submitted its eligibility requirements.

Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will adversely affect its capability to undertake the Project so that it no longer meets the prescribed eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as ineligible and disqualify it from participating further in the bidding process or being awarded the contract.

- 27.2 Based on the following grounds, the HoPE or its duly authorized representative reserves the right to reject any and all Bids, declare a Failure of Bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:
- a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the bidders, or if the collusion is between or among the bidders themselves, or between a bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition or influences or tends to influence the bidding process;
 - b) If the BAC is found to have failed in complying with the applicable law or in following the prescribed bidding procedures; or

- c) If there are any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the government, in instances where (i) the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the HoPE; (ii) the Project is no longer necessary as determined by the HoPE; and (iii) the source of funds for the Project has been withheld or reduced through no fault of the Procuring Entity.

F. Award of Contract

28) Contract Award

- 28.1 Subject to **ITB** Clause 26, the HoPE or its duly authorized representative shall award the contract to the Bidder whose bid has been determined to be the LCRB, MEARB, MARB, SCRB, SEARB, or SARB, as the case may be.
- 28.2 Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the winning Bidder in writing that its bid has been accepted, through a Notice of Award duly received by the Bidder or its representative personally or by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB, MEARB, MARB, SCRB, SEARB, or SARB, as applicable, and submitted personally or sent by registered mail or electronically to the Procuring Entity.
- 28.3 Within ten (10) calendar days from receipt by the winning bidder of the Notice of Award, the following conditions should be complied with before the contract may be awarded:
 - a) Submission of the following documents:
 - i) Valid JVA, if applicable;
 - ii) The SEC Certificate of Registration of the foreign corporation, if applicable; or
 - iii) Valid PCAB license and registration for the type and cost of the Project for foreign bidders when the Treaty or International or Executive Agreement expressly allows submission of such license and registration as a pre-condition to the Notice of Award.
 - b) Posting of the performance security in accordance with **ITB** Clause 30; and
 - c) Signing of the contract as provided in **ITB** Clause 29.

29) Signing of the Contract

- 29.1 Within ten (10) calendar days from receipt of the Notice of Award, the winning Bidder shall post the required performance security, sign and date the contract, and return it to the Procuring Entity.

29.2 The Procuring Entity shall enter into a contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.

29.3 The following documents shall form part of the contract:

- a) Contract Agreement;
- b) Bidding Documents;
- c) Winning Bidder's bid, including the technical and financial proposals, and all other documents/statements submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
- d) Performance Security;
- e) Notice of Award of Contract; and
- f) Other contract documents that may be required by existing laws and/or specified in the **BDS**.

30) Performance Security

30.1 To guarantee the faithful performance by the winning bidder of its obligations under the contract, it shall post a performance security prior to the signing of the contract. Furthermore, the successful bidder shall be required to update the performance security posted before to the issuance of a variation order, if any.

30.2 Sectors enumerated under Section 76.1⁶ of the IRR may be allowed to post Performance Securing Declaration (PSD) as specified in the **BDS**.

30.3 The performance security shall be in a form selected by the Procuring Entity in the amount indicated in the **BDS**, which shall not be less than the percentage of the ABC in accordance with the following price schedule:

Form of Performance Security	Amount of Performance Security (Not less than the Percentage of the Total Contract Price)
-------------------------------------	--

⁶ Section 76.1. The GPPB, once data is available from relevant agencies, shall maintain a registry of entities belonging to the following sectors:

- a) Farmers as certified by the Department of Agriculture (DA);
- b) Fisherfolk as certified by the Bureau of Fisheries and Aquatic Resources (BFAR);
- c) Persons with disabilities as certified by the National Council for Disability Affairs (NCDA) pursuant to RA No. 7277, otherwise known as the Magna Carta for Disabled Persons, as amended;
- d) Solo parents as certified by the Department of Social Welfare and Development (DSWD); e) Microenterprises and social enterprises as certified by the MSMED Council;
- f) Startups, spin-offs, and other forms of entity involved in science, technology, and innovation activities as certified by the DTI, DICT, NIC or the Department of Science and Technology (DOST), as may be applicable;
- g) Cooperatives duly registered with the CDA pursuant to RA No. 6938, otherwise known as the Cooperative Code of the Philippines, as amended; and
- h) Other relevant sectors as may be determined by the GPPB to ensure inclusivity and diversity in the procurement process.

<p>a) Cash or Cashier's or Manager's check issued by a bank.</p> <p><i>For biddings conducted by LGUs, the cashier's or manager's check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.</i></p>	<p>Ten percent (10%)</p>
<p>b) Bank draft or guarantee or irrevocable Letter of Credit issued by a local bank. If issued by a foreign bank, it shall be confirmed or authenticated by a local bank.</p>	
<p>c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the IC as authorized to issue such security.</p>	<p>Thirty Percent (30%)</p>

30.4 The performance security shall be denominated in Philippine Peso and posted in favor of the Procuring Entity, which shall be forfeited in the event it is established that the winning bidder is in default in any of its obligations under the contract.

31) Notice to Proceed

The Procuring Entity shall issue the Notice to Proceed to the winning Bidder not later than three (3) calendar days from the date of approval of the contract by the appropriate signatories. All notices called for by the terms of the contract shall be effective only at the time of receipt thereof by the successful Bidder.

Except as otherwise stipulated in the **SCC** Clause 9.1, materials and equipment delivered onsite but not yet incorporated in the Works shall not be included for payment.

32) Protest Mechanism

Decisions of the BAC in all stages of procurement may be protested to the HoPE in accordance with Section 83 of the IRR.

Section III. Bid Data Sheet

Notes on the Bid Data Sheet

This Section is intended to assist the Procuring Entity in providing specific information relative to corresponding clauses in the ITB included in Section II. Instructions to Bidders, and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS the information and requirements relevant to the circumstances of the Procuring Entity, including procurement processing details; the applicable rules regarding bid price and currency; and the bid evaluation criteria that will apply to the bids. In preparing Section III, the following aspects should be checked:

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

Bid Data Sheet

ITB Clause	
1.1	<p>The Procuring Entity is METROPOLITAN NAGA WATER DISTRICT.</p> <p>The Project title is FURNISHING OF LABOR AND MATERIALS FOR THE INSTALLATION OF DISTRIBUTION LINE AT MANGGAYAWAN, CANAMAN TO SUA, CAMALIGAN, AND ZONE 3 TO ZONE 1 MANGGAYAWAN, CANAMAN, CAMARINES SUR.</p> <p>The identification number of the Contract is INFRA 2025-006.</p>
2	<p>The Funding Source is:</p> <p>2.1 The GOP through the source of funding as indicated below for Fiscal Year 2025</p> <p>2.2 The source of funding is the Corporate Operating Budget.</p>
3.1	No further instructions.
5.2	Not Applicable
5.4	<p>The Bidder's SLCC similar to the contract to be bid should have been completed within FIVE (5) YEARS prior to the deadline for the submission and receipt of bids.</p> <p>Per MNWD BAC Resolution No. 18, Series of 2020, the bidder shall submit a <i>Constructors Performance Evaluation System (CPES) Rating Sheet, or any equivalent document in case of contracts with private sector, with at least satisfactory rating</i>, corresponding to the submitted SLCC. This is in addition to the Notice of Award and/ or Notice to Proceed and Certificate of Completion and Final Acceptance issued by the owner.</p>
7	No further instructions.
8.1	Subcontracting is not allowed.
8.3	Not applicable.
8.4	Subcontracting is not allowed.
9.1	The Procuring Entity will hold a pre-bid conference for this Project on November 5, 2025, 1:30 P.M. at 2 nd Floor, Conference Room, MNWD Building, 40 Miranda Avenue, Concepcion Pequeña, Naga City, and through video-conferencing/webcasting via Zoom.
10.1	<p>The Procuring Entity's address is:</p> <p>METROPOLITAN NAGA WATER DISTRICT, 40 Miranda Avenue, Concepcion Pequeña, Naga City Contact Person: JON LOUIE A. SANCHEZ, BAC Chairperson</p>

	Email Address: mnwdbac@yahoo.com Website: www.mnwd.gov.ph																																										
12.1(h)(ii)	<p>The Bidder must submit the requirements which shows that all key personnel must meet the required minimum years of experience set below:</p> <ul style="list-style-type: none"> a.) Organizational chart for the contract to be bid b.) List of contractor's personnel (viz, Project Manager, Project Engineers, Materials Engineers and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data; c.) Contractor's Letter Certificate to Procuring Entity; and d.) Bidders with a pending project with MNWD showing a slippage of more than 10% at the time of posting of Invitation to Bid shall not be allowed to bid. Bidders shall secure a certification from MNWD, including bidders without on-going projects. <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Key Personnel</u></th> <th style="text-align: left;"><u>General Experience</u></th> <th style="text-align: left;"><u>Relevant Experience</u></th> </tr> </thead> <tbody> <tr> <td>1 – Project Engineer</td> <td></td> <td>3 years</td> </tr> <tr> <td>1 – Foreman</td> <td></td> <td>3 years</td> </tr> <tr> <td>1 – Safety Officer</td> <td></td> <td>1 year</td> </tr> </tbody> </table>	<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>	1 – Project Engineer		3 years	1 – Foreman		3 years	1 – Safety Officer		1 year																														
<u>Key Personnel</u>	<u>General Experience</u>	<u>Relevant Experience</u>																																									
1 – Project Engineer		3 years																																									
1 – Foreman		3 years																																									
1 – Safety Officer		1 year																																									
12.1(h)(iii)	<p>The minimum major equipment requirements are the following:</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Equipment</u></th> <th style="text-align: left;"><u>Capacity</u></th> <th style="text-align: left;"><u>Number of Units</u></th> </tr> </thead> <tbody> <tr><td>1.) Concrete Vibrator</td><td></td><td>1</td></tr> <tr><td>2.) Elf Truck</td><td></td><td>1</td></tr> <tr><td>3.) Boom Truck</td><td></td><td>1</td></tr> <tr><td>4.) Welding Machine</td><td></td><td>1</td></tr> <tr><td>5.) Oxygen / Acetylene Cutting Outfit / Equipment</td><td></td><td>1</td></tr> <tr><td>6.) Grinder</td><td></td><td>1</td></tr> <tr><td>7.) Hand Drill</td><td></td><td>1</td></tr> <tr><td>8.) Plate Compactor</td><td></td><td>1</td></tr> <tr><td>9.) Portable Generator Set</td><td></td><td>1</td></tr> <tr><td>10.) Jackhammer with Air Compressor</td><td></td><td>1</td></tr> <tr><td>11.) Concrete Cutter</td><td></td><td>1</td></tr> <tr><td>12.) Submersible Pump</td><td></td><td>1</td></tr> <tr><td>13.) Rotating Light</td><td></td><td>1</td></tr> </tbody> </table> <p>The Bidder must submit List of Contractor's major equipment units, which are owned, leased, and / or under purchase, supported by proof of ownership, Certificate of Availability of Equipment from the equipment lessor / vendor / owner for the duration of the project; as the case may be, which must meet the minimum requirements for the contract set in BDS.</p>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	1.) Concrete Vibrator		1	2.) Elf Truck		1	3.) Boom Truck		1	4.) Welding Machine		1	5.) Oxygen / Acetylene Cutting Outfit / Equipment		1	6.) Grinder		1	7.) Hand Drill		1	8.) Plate Compactor		1	9.) Portable Generator Set		1	10.) Jackhammer with Air Compressor		1	11.) Concrete Cutter		1	12.) Submersible Pump		1	13.) Rotating Light		1
<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>																																									
1.) Concrete Vibrator		1																																									
2.) Elf Truck		1																																									
3.) Boom Truck		1																																									
4.) Welding Machine		1																																									
5.) Oxygen / Acetylene Cutting Outfit / Equipment		1																																									
6.) Grinder		1																																									
7.) Hand Drill		1																																									
8.) Plate Compactor		1																																									
9.) Portable Generator Set		1																																									
10.) Jackhammer with Air Compressor		1																																									
11.) Concrete Cutter		1																																									
12.) Submersible Pump		1																																									
13.) Rotating Light		1																																									
12.4	The ABC is THREE MILLION ONE HUNDRED NINE THOUSAND NINETY-ONE PESOS AND 98/100 (Php 3,109,091.98) . Any bid with a financial component exceeding this amount shall not be accepted.																																										
14.1	The bid prices shall be quoted in Philippine Peso.																																										

14.3	Payment shall be made in <i>Philippine Peso</i>
15.1	Bids will be valid for One Hundred Twenty (120) days from bid opening.
16.1	<p>The Bid Security shall be in the form of a Bid Securing Declaration, and any of the following:</p> <ol style="list-style-type: none"> 1. The amount of not less than SIXTY-TWO THOUSAND ONE HUNDRED EIGHTY-ONE PESOS AND 84/100 (Php 62,181.84) only [2% of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or 2. The amount of not less than ONE HUNDRED FIFTY-FIVE THOUSAND FOUR HUNDRED FIFTY-FOUR PESOS AND 60/100 (Php 155,454.60) only [5% of ABC] if bid security is in Surety Bond.
16.2	The Bid Security shall be valid until <i>One Hundred Twenty (120)</i> .
16.3	<p>In case of extension of bid validity and bid security validity period, Substitution of the bid security form is allowed. Bid Securing Declaration and the following forms may be used:</p> <ol style="list-style-type: none"> a) Cash or Cashier's or Manager's Check issued by a Bank. b) Bank draft/guarantee or irrevocable Letter of Credit issued by a Bank: Provided, however, that it shall be confirmed or authenticated by a local Bank, if issued by a foreign bank. c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.
19	<p>The address for the submission of Bids is 1st Floor, Administrative Services Department, 40 Miranda Avenue, Concepcion Pequeña, Naga City.</p> <p>The deadline for the submission of Bids is November 17, 2025 at 12:00 N.N.</p>
21.5	No further instructions.
22.1	<p>The place of the bid opening is 2nd Floor, Conference Room, Metropolitan Naga Water District, 40 Miranda Avenue, Concepcion Pequeña, Naga City.</p> <p>The date and time of bid opening is November 17, 2025 at 1:30 P.M.</p>
22.2(b)	Not applicable.

25.3 (b)(i)	<p>The quality component shall be assessed on the basis of criteria with corresponding numerical weights, which may include qualitative, environmental, or social aspects linked to the subject matter of the contract. These may include any or a combination of the following:</p> <ul style="list-style-type: none"> a) Quality and technical merit, including technical competence and a credible track record; b) Aesthetic and functional design and characteristics; c) Approach and methodology; d) Accessibility; e) Tools and equipment; f) Social, environmental, economic, and innovative characteristics; g) Organization, qualification, and experience of employees or staff assigned to perform the contract; h) Ongoing contracts and work commitments; i) After-sales service and technical assistance; j) Delivery conditions, such as delivery period and delivery process; k) Disposal measures; or l) Other relevant criteria in relation to the subject Goods or Infrastructure Projects to be procured.
25.3 (b)(iii)	Not applicable.
25.3(b)	Not applicable.
25.3 (c)(i)	Not applicable.
25.5 (a)	<p>All infrastructure projects are packaged in lots listed below. Bidders shall have the option of submitting a proposal on any or all lots and evaluation and contract award will be undertaken on a per lot basis. Lots shall not be divided further into sub-lots for the purpose of bidding, evaluation, and contract award.</p> <p>In all cases, the NFCC computation, if applicable, must be sufficient for all the lots or contracts to be awarded to the Bidder.</p>
25.5 (b)	Bid correction shall be allowed.
25.6	No further instructions.
26.1	<p>The Bidder, within five (5) calendar days from receipt of notice from the BAC that it submitted the LCB, MEAB, or MAB shall submit all the eligibility documents supporting its PhilGEPS Certificate of Registration (Platinum Membership), its latest income and business tax returns filed for the preceding quarter which should not be earlier than two (2) quarters from the date of submission and receipt of bid, and other appropriate licenses and permits required by law.</p>
29.3(f)	<p>Additional contract documents required by MNWD:</p> <p>Construction schedule and S-curve, manpower schedule, construction methods, equipment utilization schedule, and PERT/CPM.</p>

30.2	Posting Performance Securing Declaration in lieu of performance security may be allowed in this Project.
30.3	<p>The Performance Security shall be in the form:</p> <p>The amount of not less than NINE HUNDRED THIRTY-TWO THOUSAND SEVEN HUNDRED TWENTY-SEVEN PESOS AND 59/100 (Php 932,727.59) only, if performance security is Surety Bond.</p>

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The GCC in Section IV, read in conjunction with the SCC in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

The GCC herein shall not be altered. Any changes and complementary information which may be needed shall be introduced only through the SCC in Section V.

TABLE OF CONTENTS

1. GENERAL TERMS	52
2. INTERPRETATION	52
3. GOVERNING LANGUAGE AND LAW	53
4. COMMUNICATIONS.....	53
5. POSSESSION OF SITE	53
6. THE CONTRACTOR'S OBLIGATIONS	54
7. SUBCONTRACTING	54
8. ADVANCE PAYMENT	56
9. PROGRESS PAYMENTS	56
10. PAYMENT DOCUMENTS.....	57
11. RETENTION.....	58
12. PERFORMANCE SECURITY	58
13. DETAILED ENGINEERING AND SITE INVESTIGATION REPORTS	59
14. LICENSES AND PERMITS	60
15. CONTRACTOR'S RISK AND WARRANTY SECURITY	60
16. PROCURING ENTITY'S RISK	63
17. INSURANCE	63
18. LIQUIDATED DAMAGES	64
19. SETTLEMENT OF DISPUTES.....	65
20. LIABILITY OF THE CONTRACTOR	65
21. TERMINATION FOR BREACH OF CONTRACT.....	65
22. TERMINATION DUE TO FORCE MAJEURE.....	66
23. TERMINATION BY CONTRACTOR.....	67
24. TERMINATION FOR CONVENIENCE.....	67
25. TERMINATION FOR UNLAWFUL ACTS	68
26. TERMINATION FOR OTHER CAUSES	68
27. PROCEDURES FOR TERMINATION OF CONTRACTS	69
28. APPROVAL OF DRAWINGS AND TEMPORARY WORKS BY THE PROCURING ENTITY	70
29. ACCELERATION AND DELAYS ORDERED BY THE PROCURING ENTITY.....	71
30. CONTRACTOR'S RIGHT TO CLAIM	71
31. DAYWORKS	71
32. EARLY WARNING.....	71
33. PROGRAM OF WORK	71
34. MANAGEMENT CONFERENCES.....	72
35. BILL OF QUANTITIES.....	72
36. INSTRUCTIONS, INSPECTIONS AND AUDITS.....	73

37. IDENTIFYING DEFECTS	73
38. CORRECTION OF DEFECTS	73
39. UNCORRECTED DEFECTS	73
40. VARIATION ORDERS	74
41. CONTRACT COMPLETION	75
42. SUSPENSION OF WORK	76
43. PAYMENT ON TERMINATION	76
44. EXTENSION OF CONTRACT TIME	77
45. PRICE ESCALATION	78
46. COMPLETION	78
47. TAKING OVER	78
48. OPERATING AND MAINTENANCE MANUALS	78

1) General Terms

In this Contract, the following terms shall be interpreted as indicated:

- 1.1 The **Intended Completion Date** refers to the date specified in the **SCC** when the Contractor is expected to have completed the Works. The intended Completion Date may be revised only by the Procuring Entity by issuing an extension of time or an acceleration order.
- 1.2 The **Procuring Entity** is the party who employs the Contractor to carry out the Works stated in the **SCC**.
- 1.3 The **Site** is the place provided by the Procuring Entity where the Works shall be executed and any other place or places which may be designated in the **SCC**, or notified to the Contractor by the Procuring Entity as forming part of the Site.
- 1.4 The **Start Date**, as specified in the **SCC**, is the date when the Contractor is obliged to commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.
- 1.5 **Work(s)** refer to the Permanent Works and Temporary Works to be executed by the Contractor in accordance with this Contract, including (i) the furnishing of all labor, materials, equipment and others incidental, necessary or convenient to the complete execution of the Works; (ii) the passing of any tests before acceptance by the Procuring Entity; (iii) and the carrying out of all duties and obligations of the Contractor imposed by this Contract as described in the **SCC**. In line with this, Temporary Works are works designed, constructed, and installed by the Contractor that are needed for construction or installation of the Permanent Works, which are subsequently removed.

2) Interpretation

- 2.1 In interpreting the Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of this Contract unless specifically defined. The Procuring Entity will provide instructions clarifying queries about the Conditions of Contract.
- 2.2 If sectional completion is specified in the **SCC**, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).
- 2.3 The documents forming this Contract shall be interpreted in the following order of priority:
 - a) Contract Agreement;
 - b) Bid Data Sheet;
 - c) Instructions to Bidders;
 - d) Addenda to the Bidding Documents;

- e) Special Conditions of Contract;
- f) General Conditions of Contract;
- g) Specifications;
- h) Bill of Quantities; and
- i) Drawings.

3) **Governing Language and Law**

- 3.1 This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.
- 3.2 This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract which are exchanged by the parties shall be written in English.

4) **Communications**

Communications between parties that are referred to in the Conditions shall be effective only if made in writing. A notice shall be effective only when it is received by the concerned party.

5) **Possession of Site**

- 5.1 On the date specified in the **SCC**, the Procuring Entity shall grant the Contractor possession of so much of the Site as may be required to enable it to proceed with 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 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.
- 5.2 If possession of a portion is not given by the date stated in the **SCC** Clause 1.3, 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 shall be in accordance with **GCC** Clause 44.
- 5.3 The Contractor shall bear all costs and charges for special or temporary right-of-way required by it in connection with access to the Site. The Contractor shall also provide at its own cost any additional facilities outside the Site required by it for purposes of the Works.
- 5.4 The Contractor shall allow the Procuring Entity and any person authorized by the Procuring Entity access to the Site and to any place where work in connection with this Contract is being carried out or is intended to be carried out.

6) The Contractor's Obligations

- 6.1 The Contractor shall carry out the Works properly and in accordance with this Contract. The Contractor shall provide all supervision, labor, Materials, Plant and Contractor's Equipment, which may be required. All Materials and Plant on Site shall be deemed to be the property of the Procuring Entity.
- 6.2 The Contractor shall commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Program of Work submitted by the Contractor, as updated with the approval of the Procuring Entity, and complete them by the Intended Completion Date.
- 6.3 The Contractor shall be responsible for the safety of all activities on the Site.
- 6.4 The Contractor shall carry out all instructions of the Procuring Entity that comply with the applicable laws where the Site is located.
- 6.5 The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the **SCC**, 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.
- 6.6 If the Procuring Entity asks the Contractor to remove a member of the Contractor's staff or work force, for justifiable cause, the Contractor shall ensure that the person leaves the Site within seven (7) days and has no further connection with the Work in this Contract.
- 6.7 During Contract implementation, the Contractor and its subcontractors shall abide at all times by all labor laws, including child labor related enactments, and other relevant rules.
- 6.8 The Contractor shall submit to the Procuring Entity for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.
- 6.9 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Procuring Entity between the dates given in the schedule of other contractors particularly when they shall require access to the Site. The Contractor shall also provide facilities and services for them during this period. The Procuring Entity may modify the schedule of other contractors, and shall notify the Contractor of any such modification thereto.
- 6.10 Should anything of historical or other interest or of significant value be unexpectedly discovered on the Site, it shall be the property of the Procuring Entity. The Contractor shall notify the Procuring Entity of such discoveries and carry out the Procuring Entity's instructions in dealing with them.

7) Subcontracting

- 7.1 Unless otherwise indicated in the **SCC**, the Contractor shall not subcontract portions of the Works beyond the percentage specified in **BDS** Clause 8.1. If subcontracting is allowed, the arrangement, including the timing for submission of the subcontractor's eligibility documents, shall be disclosed.

7.2 For subcontracting arrangements, the following rules shall apply for both locally-funded projects and to projects financed through Official Development Assistance, except those covered by treaty, or international, or executive agreements:

- a) The subcontracted portion of the contract shall be subject to the approval of the HoPE and the following conditions:
 - i) The subcontracted portion shall not exceed fifty percent (50%), or a different percentage on a per project basis as approved by the GPPB. The threshold percentages fixed herein shall be subject to the periodic review and adjustments as may be deemed appropriate by the GPPB; and
 - ii) The subcontracted portion shall be limited to components that are not deemed "significant or material" to the project as determined by the Procuring Entity.
- b) Subcontracting arrangement, if allowed, including the time of submission of the eligibility documents of the subcontractor, shall be disclosed in the Bidding Documents;
- c) Subcontractors must meet the eligibility criteria and shall submit the same eligibility documents as the general contractor.

Failure of a subcontractor to meet the eligibility criteria does not affect the eligibility of the general contractor for the procurement project. In such case, the portion intended to be subcontracted to the ineligible subcontractor shall be assumed by the general contractor;

- d) The general contractor shall remain liable for the subcontractor's actions, defaults, delays, and negligence;
- e) The general contractor and the subcontractor are obliged to comply with the provisions of the contract and shall share liability, jointly and severally, in cases of violation of safety standards or other labor standards insofar as the subcontracted portion is concerned; and
- f) For purposes of post-qualification in accordance with its objective and process under the IRR, the value of the entire completed and accepted Project, including the subcontracted portion, shall be credited as experience of the general contractor. In the case of the subcontractor, the following rules shall apply:
 - i) The subcontractor shall get credit for one hundred percent (100%) of the value of the subcontracted portion of the project performed;
 - ii) Subcontractors shall be eligible to concessional windows of GFIs that treat receivables from the government as loan security; the receivables of subcontractors due from their general contractor shall similarly be accepted as loan security by GFIs; and
 - iii) Contract performance monitoring, such as the use of Constructors Performance Evaluation System (CPES), among

others, shall also be mandatorily applied to the work experience of the subcontractors.

8) Advance Payment

- 8.1 The Procuring Entity shall make an advance payment on the Contract Price 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**.
- 8.2 The advance payment shall be made only upon:
- i) Written request of the contractor which shall form part of the contract document; and
 - ii) Submission of an irrevocable standby Letter of Credit of equivalent value from a bank as confirmed by the Procuring Entity; a bank guarantee; or a surety bond callable upon demand issued by a duly licensed surety or insurance company, at the option of the Procuring Entity.
- 8.3 The advance payment shall be recovered from the Contractor through deductions in amounts equivalent to the percentage of the total contract price that corresponds to the value of the advance payment granted.
- 8.4 Once a month, Contractors may submit documents, such as Monthly Certificates,⁷ to show the progress or partial completion of a project. The Contractor may reduce its standby letter of credit or guarantee instrument by the amounts refunded by the Monthly Certificates, or any equivalent document subject to auditing and accounting rules, in the advance payment.

9) Progress Payments

- 9.1 Once a month, the Contractor may submit a statement of work accomplished (SWA) or progress billing and corresponding request for progress payment for work accomplished. The SWA should show the amounts which the Contractor considers itself to be entitled to up to the end of the month, to cover (i) the cumulative value of the Works it executed to date, based on the items in the Bill of Quantities, and (ii) adjustments made for approved Variation Orders executed. Alternatively, the Procuring Entity may require in the Bidding Documents that the SWA or progress billing and the corresponding request for progress payment may only be submitted upon actual completion of the Infrastructure Project or a specific portion, segment, milestone or phase thereof.

The Procuring Entity or Project Engineer shall check the Contractor's SWA and certify the amount to be paid to the Contractor as progress payment. Materials and equipment delivered onsite but not yet incorporated in the Works shall not be included for payment, except as otherwise stipulated in the **SCC**.

⁷ Commission on Audit (COA) Circular 2012-001.

- 9.2 The Procuring Entity shall deduct the following from the certified gross amounts to be paid to the Contractor as progress payment:
- a) Cumulative value of the work previously certified and paid for.
 - b) Portion of the advance payment to be recouped.
 - c) Retention money in accordance with the conditions of the contract.
 - d) Amount to cover third-party liabilities.
 - e) Amount to cover uncorrected discovered defects in the Works.
- 9.3 Payments shall be adjusted by deducting therefrom the amounts for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Procuring Entity within twenty-eight (28) days from the date each certificate was issued. No payment of interest for delayed payments and adjustments shall be made by the Procuring Entity.
- 9.4 The first progress payment may be paid by the Procuring Entity to the Contractor, as indicated in the **SCC**; Provided, That at least a percentage of the Works has been accomplished as certified by the Procuring Entity and as indicated in the **SCC**.
- 9.5 Items of the Works for which a price of "0" (zero) has been entered will not be paid for by the Procuring Entity and shall be deemed covered by other rates and prices in the Contract.

10) Payment Documents

- 10.1 Subject to existing accounting and auditing rules and regulations,⁸ the Contractor shall submit to the Procuring Entity monthly statements of the estimated value of the work executed less the cumulative amount certified previously.
- 10.2 The Procuring Entity shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.
- 10.3 The value of Work executed shall:
- a) be determined by the Procuring Entity;
 - b) comprise the value of the quantities of the items in the Bill of Quantities completed; and
 - c) include the valuations of approved variations.
- 10.4 The Procuring Entity may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

⁸ COA Circular No. 2012-001.

11) Retention

- 11.1 The Procuring Entity shall retain from each payment due to the Contractor an amount equal to a percentage thereof using the rate as specified in GCC Clause 11.2. The said amount will serve to guarantee indemnity for uncorrected discovered defects and third-party liabilities arising from this Contract. This retention money shall be utilized if the contractor fails to repair the discovered defects. Should the retention money be insufficient, the PE may forfeit the performance security, which may ultimately lead to the termination of the contract.⁹
- 11.2 Progress payments are subject to retention of ten percent (10%) referred to as the retention money. Such retention shall be based on the total amount due to the Contractor prior to any deduction and shall be retained from every progress payment until fifty percent (50%) of the value of the Works, as determined by the Procuring Entity, are completed.
- If, after fifty percent (50%) completion, the work is satisfactorily done and on schedule, no additional retention shall be made; otherwise, the ten percent (10%) retention shall be imposed, which may be decreased to 5 percent (5%) by the Procuring Entity based on justifiable causes.¹⁰
- 11.3 The total retention money shall be due for release upon final acceptance of the Works. The Contractor may, however, request the substitution of the retention money for each progress billing with irrevocable standby Letters of Credit from a bank, bank guarantees or surety bonds callable on demand, of amounts equivalent to the retention money substituted for and acceptable to Government; Provided, That the project is on schedule and is satisfactorily undertaken. Otherwise, the ten (10%) percent retention shall be made. Said irrevocable standby letters of credit, bank guarantees and/or surety bonds, to be posted in favor of the Government shall be valid for a duration to be determined by the concerned implementing office/agency or Procuring Entity and will answer for the purpose for which the ten (10%) percent retention is intended, *i.e.*, to cover uncorrected discovered defects and third party liabilities.
- 11.4 On completion of the whole Works, the Contractor may substitute retention money with an “on demand” Bank guarantee in a form acceptable to the Procuring Entity.

12) Performance Security

- 12.1 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 winning Contractor shall furnish the performance security in any of the forms prescribed in **ITB** Clause 30 in relation to **BDS** Clause 30.2 and 30.3.

⁹ Supreme Court rulings (e.g. New Bian Yek Commercial, Inc. vs. Office of the Ombudsman, et. al., GR No. 169338[2009], and Tondo Medical Center vs. Rante, G.R. No. 230645 [2019] have affirmed this purpose, stating that retention money is a form of security to ensure the satisfactory completion of works and to cover any defects or third-party claims that may arise after project completion.

¹⁰ Section 71.2.7 of the IRR.

- 12.2 The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the Contractor is in default in any of its obligations under the contract.
- 12.3 The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance. In case the performance security issued is valid for a specific period shorter than the term of the contract, including the defects liability period, the same shall be renewed or extended as often as necessary and immediately submitted to the Procuring Entity. In case of approved contract time extensions, the Contractor shall cause the extension of the validity of the performance security to cover the said extensions.
- 12.4 The performance security may be released by the Procuring Entity after the issuance of the Certificate of Final Acceptance; Provided, That the Procuring Entity has no claims filed against the performance security.
- 12.5 The Contractor shall post an additional performance security following the amount and form specified in **ITB Clause 30** to cover any cumulative increase of more than ten percent (10%) over the original value of the contract as a result of change orders, extra work orders and supplemental agreements, as the case may be.
- 12.6 In case of a reduction in the contract value or for partially completed Works under the contract which are usable and accepted by the Procuring Entity the use of which, in the judgment of the implementing agency or the Procuring Entity, will not affect the structural integrity of the entire project, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.
- 12.7 Unless otherwise indicated in the **SCC**, the Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to Act No. 3688¹¹ 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.

13) Detailed Engineering and Site Investigation Reports

- 13.1 The Contractor, in preparing the Bid, shall rely on all Site Investigation Reports referred to in the **SCC** supplemented by any information obtained by the Contractor.
- 13.2 Detailed engineering shall proceed only on the basis of the feasibility or preliminary engineering study made which establishes the technical viability of the project and conformance to land use and zoning guidelines prescribed by existing laws. The findings contained in the feasibility study, if undertaken for the project, shall be examined. If, in the course of this exercise, it is found that amendments would be desirable in the design standards of principal features, as proposed, specific recommendations for such changes shall be supported

¹¹ Also known as "An Act for the Protection of Persons Furnishing Material and Labor for the Construction Of Public Works".

by detailed justifications, including their effects on the cost, and the economic justifications, if necessary.

13.3 A schedule of detailed engineering activities shall include the following:

- a) Survey;
- b) Site Investigation;
- c) Soils and Foundation Investigation;
- d) Construction Materials Investigation;
- e) Preparation of Design Plans;
- f) Preparation of Technical Specifications;
- g) Preparation of Quantity and Cost Estimates;
- h) Preparation of Scope of Work;
- i) Preparation of Proposed Construction Schedule (and estimated Cash Flow for projects with Schedule over six (6) months);
- j) Preparation of Site or Right-of-Way Plans including Schedule of Acquisition;
- k) Preparation of Utility Relocation Plan;
- l) Preparation and Submission of Design Report;
- m) Environmental Impact Statement for critical project, as defined by the Department of Environment and Natural Resources;
- n) Preparation of minimum requirements for a Construction Safety and Health Program for the project being considered;
- o) Value Engineering Studies; and
- p) Preparation of report on asset climate hazards, risk assessment, disaster response strategies, and readiness planning.

13.4 Work under detailed architectural and engineering design shall include, among others, the items stated in Section 8.3 of the IRR.

14) Licenses and Permits

The Procuring Entity may, if requested by the Contractor, assist him in applying for permits, licenses or approvals, which are required for the Works.

15) Contractor's Risk and Warranty Security

15.1 From the time project construction commenced up to final acceptance, the Contractor shall assume full responsibility for any damage or destruction of the works, except those occasioned by force majeure; and the safety, protection, security, and convenience of its personnel, third parties, and the public at large,

as well as the works, equipment, installation and the like to be affected by its construction work.

- 15.2 The defects liability period for infrastructure projects shall be one (1) year from project completion up to final acceptance by the Procuring Entity. During this period, the Contractor shall undertake the repair works, at its own expense, of any damage to the Works on account of the use of materials of inferior quality, defects in the construction, or due to any violation of the terms of the contract, within ninety (90) calendar days from the time the HoPE has issued an order to undertake repair. In case of failure or refusal to comply with this mandate, the Procuring Entity shall undertake such repair works and shall be entitled to full reimbursement of expenses incurred therein upon demand.
- 15.3 The defects liability period shall be covered by the performance security of the Contractor required in Section 68 of the IRR, which shall guarantee that the Contractor performs its responsibilities stated in **GCC** Clause 15.1 Unless otherwise indicated in the **SCC**, in case the Contractor fails to comply with the preceding paragraph, the Procuring Entity shall forfeit its performance security, subject its properties to attachment or garnishment proceedings, and may impose the appropriate penalty under Sections 99, 100, and 101 of the IRR. All payables of the GoP in its favor shall be offset to recover the costs.
- 15.4 The following persons shall be held responsible for “Structural Defects,” i.e., major faults or flaws or deficiencies in one or more key structural elements of the project which may lead to structural failure of the completed elements or structure, or “Structural Failures,” i.e., where one or more key structural elements in an infrastructure facility fails or collapses, thereby rendering the facility or part thereof incapable of withstanding the design loads, and/or endangering the safety of the users or the general public:
- a) Contractor – Where Structural Defects or Failures arise due to faults attributable to improper construction, use of inferior quality/substandard materials, and any violation of the contract plans and specifications, the Contractor shall be held liable;
 - b) Consultants – Where Structural Defects or Failures arise due to faulty and/or inadequate design and specifications as well as construction supervision, then the consultant who prepared the design or undertook construction supervision for the project shall be held liable;
 - c) Procuring Entity’s Representatives or Project Manager or Construction Managers and Supervisors – The project owner’s representative, project manager, construction manager, and supervisor shall be held liable in cases where the Structural Defects or Failures are due to their willful intervention in altering the designs and other specifications; negligence or omission in not approving or acting on proposed changes to noted defects or deficiencies in the design and/or specifications and the use of substandard construction materials in the project;
 - d) Third Parties - Third Parties shall be held liable in cases where Structural Defects or Failures are caused by work undertaken by them such as leaking pipes, diggings or excavations, underground cables and electrical wires, underground tunnel, mining shaft and the like, in which case the applicable warranty to such structure should be levied to third parties for their construction or restoration works; and

- e) Users - In cases where Structural Defects or Failures are due to abuse or misuse by the End-User or Implementing Unit of the constructed facility and/or non-compliance by a user with the technical design limits and/or intended purpose of the same, then the user concerned shall be held liable.

15.5 The warranty against Structural Defects or Failures, except those occasioned by force majeure, shall cover the period specified in the **SCC** reckoned from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity. On the other hand, such warranty shall likewise be applied against non-structural defects for instances that pertain to faults or deficiencies in non-load bearing components or finishes of the Project, such as minor cracks, leaks, or defects in workmanship or materials, which do not affect the stability or safety of the structure but may impact its appearance, functionality, or usability.

15.6 To guarantee that the Contractor shall perform its responsibilities, it shall be required to post a warranty security, which shall be stated in Philippine Peso, in the form chosen by the Procuring Entity in accordance with the following schedule:

Form of Warranty	Amount of Warranty Security Not less than the Percentage (%) of Total Contract Price
(a) Cash or letter of credit issued by bank; Provided, however, that the letter of credit shall be confirmed or authenticated by a local bank, if issued by a foreign bank. For biddings conducted by LGUs, the Letter of Credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	Five Percent (5%)
(b) Bank guarantee confirmed by bank. For biddings conducted by LGUs, the bank draft/guarantee may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	Ten Percent (10%)
(c) Surety bond callable upon demand issued by GSIS or any surety or insurance company duly certified by the Insurance Commission	Thirty Percent (30%)

15.7 The warranty security shall be stated in Philippine Peso and shall remain effective within one (1) year from the date of issuance of the Certificate of Final Acceptance by the Procuring Entity, and returned only after the lapse of the said one (1) year period. This one (1) year period shall cover both structural and non-structural defects or failures; Provided, that in cases of structural defects or failures, warranties beyond the one (1) year period shall be subject to applicable laws, rules, and regulations such as the New Civil Code of the Philippines.

15.8 In case of structural/non-structural defects or failure occurring during the applicable warranty period provided in **GCC** Clause 15.5, the Procuring Entity shall undertake the necessary restoration or reconstruction works and shall be entitled to full reimbursement by the parties found to be liable for expenses incurred therein upon demand, without prejudice to the imposition of administrative sanctions as prescribed by RA No. 12009 and without prejudice to the imposition of civil and criminal sanctions as provided under applicable laws against the responsible persons as well as the forfeiture of the warranty security posted in favor of the Procuring Entity.

16) Procuring Entity's Risk

16.1 From the Start Date until the Certificate of Final Acceptance has been issued, the following are risks of the Procuring Entity:

- a) The risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to:
 - i) any type of use or occupation of the Site authorized by the Procuring Entity after the official acceptance of the Works; or
 - ii) negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed or contracted by it, except the Contractor.
- b) The risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

17) Insurance

17.1 The Contractor shall, under its name and at its own expense, obtain and maintain, for the duration of this Contract, the following insurance coverage:

- a) Contractor's All Risk Insurance, with an exception for Simple Infrastructure Projects, as applicable;
- b) Transportation to the project Site of Equipment, Machinery, and Supplies owned by the Contractor;
- c) Personal injury or death of Contractor's employees; and
- d) Comprehensive insurance for third party liability to Contractor's direct or indirect act or omission causing damage to third persons.

17.2 The Contractor shall provide evidence to the Procuring Entity that the insurances required under this Contract have been effected and shall, within a reasonable time, provide copies of the insurance policies to the Procuring Entity.

17.3 The Contractor shall notify the insurers of changes in the nature, extent, or program for the execution of the Works and ensure the adequacy of the insurances at all times in accordance with the terms of this Contract and shall

produce to the Procuring Entity the insurance policies in force including the receipts for payment of the current premiums.

The above insurance policies shall be obtained from any reputable insurance company approved by the Procuring Entity.

- 17.4 If the Contractor fails to obtain and keep in force the insurances referred to herein or any other insurance required to be obtained under the terms of this Contract, the Procuring Entity may obtain and keep in force any such insurances and pay such premiums as may be necessary for the purpose. From time to time, the Procuring Entity may deduct the amount it shall pay for said premiums including twenty five percent (25%) therein from any monies due, or which may become due, to the Contractor, without prejudice to the Procuring Entity exercising its right to impose other sanctions against the Contractor pursuant to the provisions of this Contract.
- 17.5 In the event the Contractor fails to observe the above safeguards, the Procuring Entity may, at the Contractor's expense, take whatever measure is deemed necessary for its protection and that of the Contractor's personnel and third parties, and/or order the interruption of dangerous Works. In addition, the Procuring Entity may refuse to make the payments under **GCC** Clause 9 until the Contractor complies with this Clause.
- 17.6 The Contractor shall immediately replace the insurance policy obtained as required in this Contract, without need of the Procuring Entity's demand, with a new policy issued by a new insurance company acceptable to the Procuring Entity for any of the following grounds:
- a) The issuer of the insurance policy to be replaced has:
 - i) become bankrupt;
 - ii) been placed under receivership or under a management committee;
 - iii) been sued for suspension of payment;
 - iv) been suspended by the Insurance Commission and its license to engage in business or its authority to issue insurance policies has been cancelled; or
 - v) Where reasonable grounds exist that the insurer may not be able, fully and promptly, to fulfill its obligation under the insurance policy.

18) Liquidated Damages

- 18.1 When the Contractor fails to satisfactorily complete the Works under the contract within the specified contract duration, inclusive of duly granted time extensions, if any, the Contractor shall be liable for liquidated damages in an amount equal to at least one-tenth (1/10) of one percent (1%) of the cost of the unperformed portion of the Works for every day of delay.
- 18.2 In computing liquidated damages, the Procuring Entity shall determine the usability of the project. A project or a portion thereof may be deemed usable

when it starts to provide the desired benefits as certified by the End-User or Implementing Unit and approved by the HoPE.

- 18.3 To be entitled to liquidated damages, the Procuring Entity does not have to prove that it has incurred actual damages. Such amount shall be deducted from any money due, or which may become due the Contractor under the contract, collected from the retention money or other securities posted by the Contractor, or a combination thereof, whichever is convenient to the Procuring Entity.
- 18.4 In case the total sum of liquidated damages reaches ten percent (10%) of the total contract price, the Procuring Entity may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances.
- 18.5 If the Intended Completion Date is extended after liquidated damages have been paid, the Procuring Entity shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment schedule.

19) Settlement of Disputes

- 19.1 Any dispute arising from the implementation of a contract covered by the Act and the IRR shall primarily be resolved and settled amicably by mutual consultation or agreement.
- 19.2 In case of failure to settle the dispute amicably, the parties may mutually agree in writing to resort to other modes of alternative dispute resolution (ADR) to promote efficiency in the procurement process. Accordingly, they are encouraged to select the most expeditious mode of ADR available.

If arbitration is chosen as the ADR method, this shall be incorporated as a provision in the contract and referred to the Arbitrator specified in the **SCC**.
- 19.3 If the dispute remains unresolved after exhausting the remedies provided above, it may be submitted to other forms of alternative dispute resolution, such as mediation, conciliation, early neutral evaluation, mini-trial, or any combination thereof, in accordance with RA No. 9285, otherwise known as the "Alternative Dispute Resolution Act of 2004". However, disputes that are within the competence or jurisdiction of the Construction Industry Arbitration Commission shall be referred to the same for resolution.¹²

20) 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.

21) Termination for Breach of Contract

- 21.1 The Procuring Entity shall terminate the contract for breach thereof when any of the following conditions are present:

¹² Executive Order No. 1008 (Construction Industry Arbitration Law); and Construction Industry Arbitration Commission Revised Rules of Procedure.

- a) Due to the Contractor's fault and while the project is on-going, it has incurred negative slippage of fifteen percent (15%) or more in accordance with Presidential Decree No. 1870, s. 1983;
- b) Due to the Contractor's fault and after the contract time has expired, it has incurred a negative slippage of ten percent (10%) or more in the completion of the work;
- c) The Contractor abandons the contract works, plainly demonstrates an intention not to continue the performance of the Contractor's obligations under the contract, refuses or fails to comply with the Procuring Entity's instructions, or fails to proceed expeditiously and without delay despite a written notice by the Procuring Entity;
- d) When the Contractor, without reasonable excuse, fails to comply with the Notice of Rejection given by the Project Engineer that, after examination therein, the Infrastructure Project is found to be defective or otherwise not in accordance with the Contract, or a Project Engineer's instruction to conduct remedial work, within 30 days after receiving the said notice;
- e) The Contractor does not actually have on the project site the minimum essential equipment listed on the Bid necessary to prosecute the Works in accordance with the approved work plan and equipment deployment schedule as required for the project;
- f) The Contractor does not execute the Works in accordance with the contract or persistently or flagrantly neglects to carry out its obligations under the contract;
- g) The Contractor neglects or refuses to remove materials or to perform a new work that has been rejected as defective or unsuitable;
- h) The Contractor subcontracts any part of the contract works without approval by the Procuring Entity; or
- i) The Contractor becomes bankrupt or insolvent; goes into liquidation, administration, reorganization, winding-up, or dissolution; becomes subject to the appointment of a liquidator, receiver, administrator, manager, or trustee; enters into a composition or arrangement with the Contractor's creditors; or any act is done or any event occurs which is analogous to or has a similar effect to any of these acts or events under applicable laws.

21.2 All materials on the Site, Plant, Works, including Equipment paid under this Contract, including those identified by the Procuring Entity in the **SCC** pursuant to GCC Clause 9.1, shall be deemed to be the property of the Procuring Entity if this Contract is terminated because of the Contractor's breach.

22) Termination Due to Force Majeure

22.1 For purposes of this Contract the terms "*force majeure*" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which could not have been foreseen, or though foreseen, was inevitable. It shall not include ordinary

unfavorable weather conditions, and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Contractor.

- 22.2 If this Contract is discontinued by an outbreak of war or by any other similar event entirely outside the control of either the Procuring Entity or the Contractor, the Procuring Entity shall certify that this Contract has been discontinued. The Contractor shall make the Site safe and stop work as quickly as possible after receiving the certificate and shall be paid for all Works carried out before receiving it and for any Work carried out afterwards to which a commitment was made by the Procuring Entity.
- 22.3 If the event continues for a period of eighty-four (84) days, either party may then give notice of termination, which shall take effect twenty-eight (28) days after the giving of the notice.
- 22.4 After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the materials and Plant, in relation to GCC Clause 9.1 and 21.2, adjusted by the following:
- (a) any sum to which the Contractor is entitled under **GCC** Clause 30; and
 - (b) any sum to which the Procuring Entity is entitled.
- 22.5 The net balance due shall be paid or repaid within a reasonable time period from the time of the notice of termination.

23) Termination by Contractor

The Contractor may terminate this Contract with the Procuring Entity if the Works are completely stopped for a continuous period of at least sixty (60) calendar days through no fault of its own, due to any of the following reasons:

- a) Failure of the Procuring Entity to deliver, within a reasonable time, supplies, materials, right-of-way, or other items it is obligated to furnish under the terms of this Contract;
- b) Substantial failure of the Procuring Entity to perform its obligations under the contract, and such failure constitutes a material breach of the Procuring Entity's obligations under the contract;
- c) Prolonged suspension by the Procuring Entity, through no fault of the Contractor, which affects the substantial part of the Infrastructure Project; or
- d) The prosecution of the Work is disrupted by the adverse peace and order situation, as certified by the Armed Forces of the Philippines Provincial Commander and approved by the Secretary of National Defense.

24) Termination for Convenience

The Procuring Entity, by notice sent to the Contractor, may terminate the Contract, in whole or in part, at any time, if it has determined the existence of any of the following conditions that make contract implementation economically, financially, or technically impractical or unnecessary:

- i) If physical and economic conditions have significantly changed so as to render the project no longer economically, financially, or technically feasible, as determined by the HoPE; or
- ii) The HoPE has determined the existence of conditions that make project implementation impractical or unnecessary, such as, but not limited to, fortuitous events, changes in laws and government policies.

25) Termination for Unlawful Acts

The Procuring Entity may terminate the contract in case it is determined prima facie that the Contractor, including any joint venture partner therein, has engaged, before or during the implementation of the contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. These unlawful acts include, but are not limited to, the following:

- a) Corrupt, fraudulent, collusive, coercive, and obstructive practices as defined in **ITB** Clause 3.10, unless otherwise specified in the **SCC**;
- b) Drawing up or using forged documents;
- c) Using adulterated materials, means, or methods, or engaging in production contrary to rules of science or trade; or
- d) Any other act analogous to the foregoing.

26) Termination for Other Causes

26.1 The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The HoPE may terminate this Contract for the convenience of the Procuring Entity if physical and economic conditions have significantly changed so as to render the project no longer economically, financially, or technically feasible, as determined by the HoPE; or if the HoPE has determined the existence of conditions that make project implementation impractical or unnecessary, such as, but not limited to, fortuitous events, changes in laws and government policies.

26.2 The Procuring Entity or the Contractor may terminate this Contract if the other party causes a fundamental breach of this Contract.

26.3 Other breaches of Contract shall include, but shall not be limited to, the following:

- a) The Contractor stops work for twenty-eight (28) days when no stoppage of work is shown on the current Program of Work and the stoppage has not been authorized by the Procuring Entity;
- b) The Procuring Entity instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within twenty-eight (28) days;
- c) A payment certified by the Procuring Entity is not paid to the Contractor within eighty-four (84) days from the date of the Procuring Entity's certificate;

- d) The Procuring Entity gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Procuring Entity;
 - e) The Contractor does not maintain a Security, which is required;
 - f) The Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in the **GCC** 18; and
- 26.4 The Funding Source or the Procuring Entity, as appropriate, will seek the imposition of administrative sanctions as prescribed by RA No. 12009 and without prejudice to the imposition of civil and criminal sanctions as provided under applicable against individuals and organizations deemed to be involved with corrupt, fraudulent, or coercive practices.
- 26.5 When persons from either party to this Contract gives notice of a fundamental breach to the Procuring Entity in order to terminate the existing contract for a cause other than those listed under **GCC** Clause 26.3, the Procuring Entity shall decide whether the breach is fundamental or not.
- 26.6 If this Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

27) Procedures for Termination of Contracts

- 27.1 The following provisions shall govern the procedures for the termination of this Contract:
- a) **Verification** - Upon receipt of a written report of acts or causes which may constitute grounds for termination as aforementioned, or upon its own initiative, the End-User or Implementing Unit shall, within a period of seven (7) calendar days, verify the existence of such grounds and cause the execution of a Verified Report, with all relevant evidence attached;
 - b) **Notice to Terminate** - Upon recommendation by the End-User or Implementing Unit, the HoPE shall terminate contracts only by written notice to the Contractor conveying the termination of the contract. The notice shall state:
 - (i) that the Contract is being terminated for any of the grounds aforementioned, and a statement of the acts that constitute the grounds constituting the same;
 - (ii) the extent of termination, whether in whole or in part;
 - (iii) an instruction to the Contractor to show cause as to why this contract should not be terminated; and
 - (iv) special instructions of the Procuring Entity, if any.

The Notice to Terminate shall be accompanied by a copy of the Verified Report;

- c) **Show Cause** - Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Contractor shall submit to the HoPE a verified position paper stating why the contract should not be terminated. If the Contractor fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the HoPE shall issue an order terminating the contract;
- d) **Rescission of Notice of Termination** - The Procuring Entity may, at any time before receipt of the Contractor's verified position paper, withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Contractor's receipt of the notice;
- e) **Decision** - Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the HoPE shall decide whether or not to terminate the contract. It shall serve a written notice to the Contractor of its decision and, unless otherwise provided, the contract is deemed terminated from receipt of the Contractor of the notice of the decision. The termination shall only be based on the grounds stated in the Notice to Terminate.
- f) **Contract Termination Review Committee (CTRC)** - The HoPE may create a committee to assist him in the discharge of its functions under the IRR. All decisions recommended by the CTRC shall be subject to the approval of the HoPE
- g) **Take-over of Contracts** - If a Procuring Entity terminates the contract due to default, insolvency, or for cause, it may enter into a Negotiated Procurement (Take-over of Contracts) pursuant to Section 35(c) of the IRR.
- h) **Notice by Contractor** - The Contractor must serve a written notice to the Procuring Entity of its intention to terminate the contract at least thirty (30) calendar days before its intended termination. The contract is deemed terminated if it is not resumed in thirty (30) calendar days after the receipt of such notice by the Procuring Entity.

27.2 Notwithstanding Section 99 of RA No. 12009 and as provided by applicable laws, the Procuring Entity shall impose on Contractors after the termination of the contract, the penalty of suspension for one (1) year for the first offense, suspension for two (2) years for the second offense from participating in the public bidding process, for violations committed during the contract implementation stage, as stated in the **SCC**.

28) Approval of Drawings and Temporary Works by the Procuring Entity

- 28.1 All Drawings prepared by the Contractor for the execution of the Temporary Works, are subject to prior approval by the Procuring Entity before its use.
- 28.2 The Contractor shall be responsible for design of Temporary Works.
- 28.3 The Procuring Entity's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

28.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, when required by the Procuring Entity.

29) Acceleration and Delays Ordered by the Procuring Entity

29.1 When the Procuring Entity wants the Contractor to finish before the Intended Completion Date, the Procuring Entity will obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Procuring Entity accepts these proposals, the Intended Completion Date will be adjusted accordingly and confirmed by both the Procuring Entity and the Contractor.

29.2 If the Contractor's Financial Proposals for an acceleration are accepted by the Procuring Entity, they are incorporated in the Contract Price and treated as a Variation.

30) Contractor's Right to Claim

If the Contractor incurs cost as a result of any of the events under **GCC** Clauses 22, 23 and 24 in relation to **GCC** Clause 20, the Contractor shall be entitled to the amount of such cost. If as a result of any of the said events, it is necessary to change the Works, this shall be dealt with as a Variation.

31) Dayworks

31.1 Subject to **GCC** Clause 40 on Variation Order, and if applicable as indicated in the **SCC**, the Contractor shall determine the Dayworks rates to be included or indicated in the Bid. The Dayworks rates in the Contractor's bid shall be used for small additional amounts of work only when the Procuring Entity has given written instructions in advance for additional work to be paid for in that way.

31.2 All work to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Procuring Entity. Each completed form shall be verified and signed by the Procuring Entity within two days of the work being done.

31.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms from both the Procuring Entity and Contractor.

32) Early Warning

32.1 The Contractor shall warn the Procuring Entity at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract Price, or delay the execution of the Works.

32.2 The Contractor shall cooperate with the Procuring Entity in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Procuring Entity. Should such events or circumstances arise which increase the Contract price or delay the execution of Works, the provisions on variation order shall apply.

33) Program of Work

33.1 Within the time stated in the **SCC**, the Contractor shall submit to the Procuring Entity for approval a Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works.

- 33.2 An update of the Program of Work shall show the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.
- 33.3 The Contractor shall submit to the Procuring Entity 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 may withhold the amount stated in the **SCC** from the next payment schedule and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.
- 33.4 The Procuring Entity's approval of the Program of Work shall not alter the Contractor's obligations. A revised Program of Work produced by the Contractor shall show the effect of any approved Variations, and shall include all Variations. The Contractor may revise the Program of Work, based on the Variation Order, and submit it to the Procuring Entity again.
- 33.5 When the Program of Work is updated, the Contractor shall provide the Procuring Entity with an updated cash flow forecast. The cash flow forecast shall include different currencies, as defined in the Contract, converted as necessary using the Contract exchange rates.

34) Management Conferences

- 34.1 Either the Procuring Entity or the Contractor may require the other to attend a Management Conference. The Management Conference shall review the plans for remaining work and deal with matters raised in accordance with the early warning procedure.
- 34.2 The Procuring Entity shall record the business of Management Conferences and provide copies of the record to those attending the Conference and to the Procuring Entity. The responsibility of the parties for the actions to be taken shall be decided by the Procuring Entity either at the Management Conference or after the Management Conference. The Procuring Entity shall communicate these responsibilities in writing to all who attended the Conference.

35) Bill of Quantities

- 35.1 The Bill of Quantities shall contain items of work for the construction, installation, testing, commissioning of work, materials, and labor among others, to be done by the Contractor.
- 35.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.
- 35.3 If the final quantity of any work item completed differs from the quantity indicated in the Bill of Quantities, and the difference does not exceed twenty-five percent (25%) of the original quantity for that item, the Procuring Entity shall adjust the Contract accordingly.

This shall be allowed only if the total amount of all such changes does not go beyond ten percent (10%) of the total Contract price, subject to applicable laws, rules, and regulations.

- 35.4 If requested by the Procuring Entity, the Contractor shall provide the Procuring Entity with a detailed cost breakdown of any rate in the Bill of Quantities.

36) Instructions, Inspections and Audits

- 36.1 The Procuring Entity shall at all reasonable times during construction of the Works be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of the construction.
- 36.2 If the Procuring Entity instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a defect and the test shows that it does, the Contractor shall pay for the test and any samples. In the absence of any defect, the test shall be a compensation event with no adverse consequences to the contractor.
- 36.3 The Contractor shall permit the Funding Source named in the **SCC** to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

37) Identifying Defects

The Procuring Entity shall check the Contractor's work and notify the Contractor of any defects that are found. Such checking shall not affect the Contractor's responsibilities. The Procuring Entity may instruct the Contractor to check noted defects and test any work that the Procuring Entity considers as substandard and/or defective.

38) Correction of Defects

- 38.1 The Procuring Entity shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which is one (1) year from project completion up to final acceptance by the Procuring Entity.
- 38.2 Every time notice of a defect is given, the Contractor shall correct the notified defect within ninety (90) calendar days from the time the HoPE has issued an order to undertake repair.
- 38.3 The Contractor shall correct the defects which they notice themselves before the end of the Defects Liability Period.
- 38.4 The Procuring Entity shall certify that all defects have been duly corrected.

39) Uncorrected Defects

- 39.1 The Procuring Entity shall give the Contractor at least fourteen (14) days' notice of its intention to use a third party to correct a Defect. If the Contractor does not correct the Defect himself within the period, the Procuring Entity may have the Defect corrected by the third party. The cost of the correction will be deducted from the Contract Price.
- 39.2 The use of a third party to correct defects that are uncorrected by the Contractor will in no way relieve the Contractor of its liabilities and warranties under the Contract.

40) Variation Orders

- 40.1 Variation Orders may be issued by the Procuring Entity to cover any increase or decrease in quantities, including the introduction of new work items that are not included in the original contract or reclassification of work items that are either due to change of plans, design or alignment to suit actual field conditions resulting in disparity between the preconstruction plans used for purposes of bidding and the "as staked plans" or construction drawings prepared after a joint survey by the Contractor and the Government after award of the contract.

Provided, that in case of positive or additive Variation Order/s, the cumulative amount thereof shall not exceed ten percent (10%) of the original contract price; Provided, further, That the scope of works shall not be reduced as to accommodate a positive Variation Order. In all cases, the addition of works under Variation Orders should be within the general scope of the project as bid and awarded.

- 40.2 Any cumulative positive Variation Order beyond ten percent (10%) of the original contract price shall be the subject of another procurement project to be bid out if the Works are separable from the original contract. In exceptional cases where it is urgently necessary to complete the original scope of work, the HoPE, upon the recommendation of the End-User or Implementing Unit, may authorize positive Variation Order/s resulting to a cumulative value of the positive Variation Orders beyond ten percent (10%) but not more than twenty percent (20%) of the original contract price.

All progress payments shall first be charged against the advance payment until the latter has been fully exhausted, at the option of the Procuring Entity.

- 40.3 A Variation Order may either be in the form of a Change Order or Extra Work Order:

- a) A Change Order may be issued by the HoPE or duly authorized representative to cover any increase or decrease in quantities of original work items in the contract.
- b) An Extra Work Order may be issued by the implementing official to cover the introduction of new work necessary for the completion, improvement or protection of the project which was not included as items of work in the original contract, such as, where there are subsurface or latent physical conditions at the site differing materially from those indicated in the contract, or where there are duly unknown physical conditions at the site of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in the work or character provided for in the contract.

- 40.4 For Variation Orders, the Contractor shall be paid for additional work items whose unit prices shall be derived based on the following:

- a) For additional or extra works duly covered by Change Orders involving work items which are exactly the same or similar to those in the original contract, the applicable unit prices of work items original contract shall be used.

- b) For additional or extra works duly covered by Extra Work Orders involving new work items that are not in the original contract, the unit prices of the new work items shall be based on the direct unit costs used in the original contract (e.g., unit cost of cement, rebars, form lumber, labor rate, equipment rental, etc.). All new components of the new work item shall be fixed prices; Provided, The same is acceptable to both the Government and the Contractor; Provided further, That the direct unit costs of new components shall be based on the Contractor's estimate as validated by the Procuring Entity concerned via documented canvass in accordance with existing rules and regulations. The direct cost of the new work item shall then be combined with the mark-up factor (i.e., taxes and profit) used by the Contractor in its bid to determine the unit price of the new work item.

40.5 Under no circumstances shall a Contractor proceed to commence work under any Change Order or Extra Work Order unless it has been approved by the HoPE or its duly authorized representative. However, under any of the following conditions, the Procuring Entity's representative or Project Engineer may, subject to the availability of funds and within the limits of its delegated authority, allow the immediate start of work under any Change Order or Extra Work Order:

- a) In the event of an emergency where the prosecution of the work is urgent to avoid detriment to public service, or damage to life and/or property; and/or
- b) When time is of the essence;

Provided, however, That such approval is valid on work done up to the point where the cumulative increase in value of work on the project which has not yet been duly fully approved does not exceed five percent (5%) of the adjusted original contract price.

Provided, further, That immediately after the start of work, the corresponding Change Order or Extra Work Order shall be prepared and submitted for approval in accordance with the abovementioned rules. Payments for Works satisfactorily accomplished on any Change Order or Extra Work Order may be made only after approval of the same by the HoPE or its duly authorized representative.

Provided, finally, That for a Change Order or Extra Work Order involving a cumulative amount exceeding five percent (5%) of the original contract price, no work thereon may be commenced unless said Change Order or Extra Work Order has been approved by the HoPE or its duly authorized representative.

41) Contract Completion

Once the project reaches an accomplishment of ninety-five (95%) of the total contract amount, the Procuring Entity may constitute an inspectorate team to conduct preliminary inspection and submit a punch-list to the Contractor in preparation for the final turnover of the project. Said punch-list will contain, among others, the remaining Works, Work deficiencies for necessary corrections, and the specific duration/time to fully complete the project within the approved remaining contract time. This, however, shall not preclude the claim of the Procuring Entity for liquidated damages, if applicable.

42) Suspension of Work

- 42.1 The Procuring Entity shall have the authority to suspend the work wholly or partly by written order for such period as may be deemed necessary, due to *force majeure* or any fortuitous event or for failure on the part of the Contractor to correct bad conditions which are unsafe for workers or for the general public, to carry out valid orders given by the Procuring Entity or to perform any provisions of the contract, or due to adjustment of plans to suit field conditions as found necessary during construction. The Contractor shall immediately comply with such order to suspend the work wholly or partly.
- 42.2 The Contractor or its duly authorized representative shall have the right to suspend work operation on any or all projects or activities along the critical path of activities after fifteen (15) calendar days from date of receipt of written notice from the Contractor to the district engineer, regional director, consultant or equivalent official, as the case may be, due to the following:
- a) There exist right-of-way problems which prohibit the Contractor from performing work in accordance with the approved construction schedule.
 - b) Requisite construction plans which must be owner furnished are not issued to the Contractor precluding any work called for by such plans.
 - c) Peace and order conditions that make it extremely dangerous, if not possible, to work. However, this condition must be certified in writing by the PNP station which has responsibility over the affected area and confirmed by the Department of the Interior and Local Government (DILG) Regional Director.
 - d) There was a failure on the part of the Procuring Entity to deliver government-furnished materials and equipment as stipulated in the contract.
 - e) Delay in the payment of Contractor's claim for progress billing beyond forty-five (45) calendar days from the time the Contractor's claim has been certified by the Procuring Entity's authorized representative that the documents are complete, unless there are justifiable reasons for the delay in payment which shall be communicated in writing to the Contractor.
- 42.3 In case of total suspension, or suspension of activities along the critical path, which is not due to any fault of the Contractor, the elapsed time between the effectivity of the order suspending operation and the order to resume work shall be allowed to the Contractor by adjusting the contract time accordingly.

43) Payment on Termination

- 43.1 If the Contract is terminated because of a breach of Contract by the Contractor, the Procuring Entity shall issue a certificate for the value of the work done and Materials ordered less advance payments received up to the date of the issue of the certificate, and less the percentage to apply to the value of the work not completed, as indicated in the **SCC**. Additional Liquidated Damages shall not apply. If the total amount due to the Procuring Entity exceeds any payment

due to the Contractor, the difference shall be a debt payable to the Procuring Entity.

- 43.2 If the Contract is terminated for the Procuring Entity's convenience, or due to a breach of Contract by the Procuring Entity, the Procuring Entity shall issue a certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.
- 43.3 The net balance due shall be paid or repaid within twenty-eight (28) days from the notice of termination.
- 43.4 If the Contractor has terminated the Contract under **GCC** Clauses 23 to 24, the Procuring Entity shall promptly return the Performance Security to the Contractor.

44) Extension of Contract Time

- 44.1 Should the amount of additional work or other special circumstances warrant the entitlement of the Contractor to an extension of contract time, the Procuring Entity shall determine the amount of such extension; Provided, That the Contractor has notified the Procuring Entity of its claim for extension of contract time prior to the expiration of the contract time, and within thirty (30) calendar days after the additional work has been commenced or the circumstances leading to such claim have arisen, as the case may be, in order to give the Procuring Entity the opportunity to investigate the claim. Failure to provide such notice shall constitute a waiver of such a claim by the Contractor. Upon receipt of full and detailed particulars, the Procuring Entity shall examine the facts and extent of the delay and shall extend the contract time to complete the contract work when, in the Procuring Entity's opinion, the findings of facts justify an extension.
- 44.2 No extension of contract time shall be granted to the Contractor due to ordinary unfavorable weather conditions and inexcusable negligence of the Contractor to provide the required equipment, supplies, or materials.
- 44.3 Extension of contract time may be granted only when the affected activities fall within the critical path of the Program Evaluation and Review Technique (PERT), Critical Path Method (CPM), Precedence Diagram Method (PDM) or any other project management tool.
- 44.4 No extension of contract time shall be granted when the reason given to support the request for extension was already considered in the determination of the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection.
- 44.5 Extension of contract time may be granted in the cases indicated in the **SCC**.
- 44.6 The written consent of the bank, or surety or insurance company, as the case may be, must be attached to any request of the Contractor for extension of contract time and submitted to the Procuring Entity for consideration and the validity of the Performance Security shall be correspondingly extended.

- 44.7 The Procuring Entity shall extend the Intended Completion Date if a Variation is issued which makes it impossible for the Intended Completion Date to be achieved by the Contractor without taking steps to accelerate the remaining work, which would cause the Contractor to incur additional costs. No payment shall be made for any event which may warrant the extension of the Intended Completion Date.
- 44.8 The Procuring Entity shall decide whether and by how much to extend the Intended Completion Date within twenty (20) days of the Contractor asking the Procuring Entity for a decision thereto after fully submitting all supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

45) Price Escalation

In the event of an extraordinary increase in prices of specific components of the Infrastructure Project, price escalation may be considered, subject to prior approval of the GPPB. If the cost of construction components increases by more than ten percent (10%) of the unit price of work items, as determined against the prevailing price indices of the PSA, a price escalation may be authorized at a no-loss, no-gain basis, using the appropriate formula prescribed by the GPPB. For the purpose of this Section, the PSA shall ensure that its price indices are region-specific and updated on a monthly basis

46) Completion

The Contractor shall request the Procuring Entity to issue a Certificate of Completion of the Works, and the Procuring Entity will do so upon determining that the work is completed.

47) Taking Over

The Procuring Entity shall take over the Site and the Works within seven (7) days from the date of issuance of a Certificate of Completion; Provided, That it shall not release the Contractor of its responsibilities within the defects liability period.

48) Operating and Maintenance Manuals

- 48.1 If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the **SCC**.
- 48.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the **SCC**, or they do not receive the Procuring Entity's approval, the Procuring Entity shall 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 BDS, 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.

The provisions of this Section 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 Section IV. General Conditions of Contract must be incorporated.
- b) Amendments and/or supplements to provisions of Section IV. General Conditions of Contract, as necessitated by the circumstances of the specific project, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of Section IV. General Conditions of Contract should be incorporated herein.

Special Conditions of Contract

GCC Clause	
1.1	The Intended Completion Date is within 180 calendar days. <i>NOTE: The contract duration shall be reckoned from the start date and not from contract effectivity date.</i>
1.2	The Procuring Entity is METROPOLITAN NAGA WATER DISTRICT .
1.3	The Site is located at Manggayawan, Canaman to Sua, Camaligan, Camarines Sur and is defined in drawings No. 1/17. <i>List here locations of other Sites, if any.</i>
1.4	The Start Date is <i>[to be inserted]</i> . <i>NOTE: The start date shall be the date of receipt of the Notice to Proceed.</i>
1.5	The Works consist of furnishing of all labor and materials for the installation of distribution line at Manggayawan, Canaman to Sua, Camaligan, Camarines Sur
2.2	<i>If different dates are specified for completion of the Works by section (“sectional completion”), these dates should be listed here</i>
5.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor <i>[insert date]</i> .
6.5	The Contractor shall employ the following Key Personnel : <i>[List key personnel by name and designation]</i>
7.1	No further instructions.
8.1	The amount of the advance payment is <i>15% of the total Contract Price, to be made in lump sum upon request of the contractor.</i>
9.1	No further instructions.
9.4	The first progress payment may be paid by the Procuring Entity to the Contractor; Provided, that at least 20% of the Works has been accomplished as certified by the Procuring Entity.
12.7	No further instructions.
13.1	The site investigation reports are: Affidavit of Site Inspection
15.3	No further instructions.
15.5	<i>Warranty against structural defects: Five (5) years.</i>
19.2	The Arbitrator is the person appointed jointly by the Procuring Entity and the Contractor: <i>[Insert name]</i> <i>[Insert address]</i>

20	All partners to the joint venture shall be jointly and severally liable to the Procuring Entity.
25(a)	No further instructions.
27.2	<p>a) Failure of the Contractor, due solely to its fault or negligence, to mobilize and start work or performance within the specified period in the Notice to Proceed (“NTP”);</p> <p>b) Failure by the Contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the Contractor to comply with any written lawful instruction of the Procuring Entity or its representative(s) pursuant to the implementation of the contract. For the procurement of infrastructure projects or consultancy contracts, lawful instructions include but are not limited to the following:</p> <ul style="list-style-type: none"> i) Employment of competent technical personnel, competent engineers and/or work supervisors; ii) Provision of warning signs and barricades in accordance with approved plans and specifications and contract provisions; iii) Stockpiling in proper places of all materials and removal from the project site of waste and excess materials, including broken pavement and excavated debris in accordance with approved plans and specifications and contract provisions; iv) Deployment of committed equipment, facilities, support staff and manpower; and v) Renewal of the effectivity dates of the performance security after its expiration during the course of contract implementation. <p>c) Assignment and subcontracting of the contract or any part thereof or substitution of key personnel named in the proposal without prior written approval by the Procuring Entity.</p> <p>d) Poor performance by the Contractor or unsatisfactory quality and/or progress of work arising from its fault or negligence as reflected in the Constructor's Performance Evaluation System (“CPES”) rating sheet. In the absence of the CPES rating sheet, the existing performance monitoring system of the Procuring Entity shall be applied. Any of the following acts by the Contractor shall be construed as poor performance:</p> <ul style="list-style-type: none"> i) Negative slippage of fifteen (15%) and above within the critical path of the project due entirely to the fault or negligence of the Contractor; and ii) Quality of materials and workmanship not complying with the approved specifications arising from the Contractor's fault or negligence.

	<p>e) Willful or deliberate abandonment or non-performance of the project or contract by the Contractor resulting to substantial breach thereof without lawful and/or just cause.</p> <p>In addition to the penalty of suspension, the performance security posted by the Contractor shall also be forfeited.]</p>
31.1	Dayworks are applicable at the rate shown in the Contractor's original Bid.
33.1	The Contractor shall submit the Program of Work to the Procuring Entity within 30 days of delivery from the Notice of Award.
33.3	<p>The period between Program of Work updates is 15 days.</p> <p>The amount to be withheld for late submission of an updated Program of Work is 10% of the contract amount.</p>
36.3	The Funding Source is the COB of MNWD
43.1	No further instruction.
44.5	<p>a) rainy/unworkable days considered unfavorable for the prosecution of the Works at the site, based on the actual conditions obtained at the site, in excess of the number of rainy/unworkable days pre-determined by the Procuring Entity in relation to the original contract time during the conduct of detailed engineering and in the preparation of the contract documents as agreed upon by the parties before contract perfection, and/or</p> <p>b) major calamities such as exceptionally destructive typhoons, floods and earthquakes, and epidemics,</p> <p>c) delays attributable to the Procuring Entity, such as non-delivery on time of materials, working drawings, or written information to be furnished by the Procuring Entity, non-acquisition of permit to enter private properties or non-execution of deed of sale or donation within the right-of-way resulting in complete paralyzation of construction activities, and</p> <p>d) other meritorious causes as determined by the Procuring Entity and approved by the HoPE such as shortage of construction materials, general labor strikes, and peace and order problems that disrupt construction operations through no fault of the Contractor may be considered as additional grounds for extension of contract time provided, they are publicly felt and certified by appropriate government agencies such as DTI, DOLE, DILG, and DND, among others.</p>
48.1	The date by which "as built" drawings are required is upon completion of on-site works.
48.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is 10% of the Total Contract Price.

Section VI. Specifications

This set of specifications shall govern the method of installation and the kind of materials to be used for the proposed distribution line and its appurtenances at Zone 3 to Zone 1, Manggayawan and Zone 3, Manggayawan, Canaman - Zone 6, Barangay Sua, Camaligan, Camarines Sur

The plans, detail drawings and these specifications shall be considered as complementing each other so that what is mentioned in one, although not mentioned or shown in the other, shall be considered as appearing on both. In case of conflict between the two, the same should be referred to the Designing Engineer for resolution.

GENERAL CONDITIONS

All parts of the construction shall be furnished with first class workmanship to the fullest talent and meaning of the plans and these specifications and to the entire satisfaction of the engineer-in-charge and the MNWD.

The installation works must conform with all the requirements of the **Department of Public Works and Highways** rules and regulations as well as the local rules and regulation of the **Municipality of Canaman & Camaligan**.

All materials to be used herein shall be of high quality and premium brands, and shall be inspected and approved by the Engineer-in-charge before using and installation.

SECTION 1 - STAKING OUT LINE GRADES

- 1.1 The Contractor shall accurately stake out lines of the pipes to be installed and shall establish all grades, necessary thereof after which, approval by MNWD shall be secured before any excavation work is commenced.

SECTION 2 - SAFETY AND HEALTH PLAN

GENERAL CONDITIONS:

This set of conditions shall be observed and shall govern all methods of construction/installation of waterlines and its appurtenances.

Furnish all necessary safety signs/warning signs specified herein. Lights, detours, barricades, temporary pedestrian walks and bridges, crossings steel plates and other safety control measures and precaution for the general safety of the public.

2.1 MAIN OBJECTIVES

The main objectives of this conditions are to be able to protect lives, properties and environment and abide by the requirements of the government agencies concerned.

A series of five handwritten marks or signatures arranged horizontally. From left to right: a circle with a vertical line through it and a small 'S' inside; a stylized 'A' or 'B' with a vertical line; a large, slanted 'H'; a vertical line with a small '1' above it and a signature below; and a large, stylized 'G'.

The main concern of this conditions shall not only be for the safety of the contractor's workers but for the safety of general public as well. The construction/installation site shall be properly enclosed, warning and safety signs shall be provided in strategic places where they can be read not only by the workers but by the public.

2.2 TRAINING AND ORIENTATION

Before the commencement of the project, the contractor should adequately and suitably inform workers of potential safety and hazards to which they may be exposed at the construction site, and instructed and trained on the measures available for the prevention, control and protection against those hazards.

Specialized instruction and training should be given to:

- a. Drivers and operators of lifting, transport, earth moving and materials – handling equipment and machinery or any equipment of specialized or dangerous nature.
- b. Workers engage in excavation at least one meter deep or deep enough to cause damage.
- c. Workers as signalers

2.3 GENERAL SAFETY WITHIN CONSTRUCTION/INSTALLATION AREA:

Strictly observe and comply with all provisions/conditions of the Department of Public Works and Highways and Local Government Unit as to the safety of the General Public and its environment.

2.4 ENVIRONMENTAL CONTROL

Monitor the control of noise, vibration and hazardous air-borne contaminants such as gases, fumes, mist or vapors. A regular street sweeper shall be assigned to control the spillage of excavated materials and the likes which move beyond the construction limit/line.

2.5 PROVISION FOR AND USE OF PERSONAL PROTECTIVE EQUIPMENT

The Contractor shall furnish all workers with protective equipment for eyes, face, hands and feet, lifeline safety belts/harness, protective shields and barrier whenever necessary by reason of the hazardous work process or environment, or other mechanical irritants or hazardous capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical agent.

2.6 SAFETY SIGNS/WARNING SIGNS, LIGHTS

GENERAL: The Contractor shall furnish all necessary safety signs/warning signs, specified herein, lights, detours, barricades, temporary pedestrian walks and bridges, crossing steel plate and other safety control measures and precaution for the general safety of the public.

Handwritten signatures and initials in blue ink, including a circular stamp on the left and several distinct signatures.

2.6.1 WARNING SIGNS

2.6.1.1 National and Main Streets :

The Contractor shall provide the following signs:

- a. Slow down signs (RS-1) at 50 meters before and after the project. (See RS-1 details)
- b. Slow down signs (RS-1) at 25 meters before and after the project. (See RS-1 details)
- c. Road signs (RS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See RS-2 details)

2.6.1.2 Secondary or Interior Streets

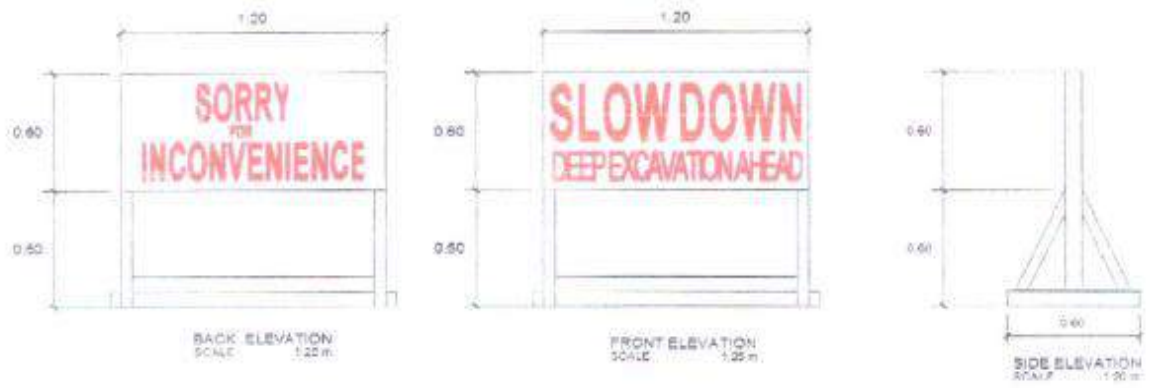
The Contractor shall provide the following signs:

- a. Road signs (RS-2) at 25 meters and 10 meters before and after the project. (See RS-2 details)
- b. Road signs (RS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See RS-2 details)

2.6.1.3 Pathways/Footwalks :

The Contractor shall provide the following signs:

- a. Road signs (RS-2) at 5 meters before and after the project. (See RS-2 details)
- b. Road signs (RS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See RS-2 details)



DETAILS OF LETTERING SCALE 1:17.5 m

DETAILS OF ROAD SIGN (RS-1)



DETAILS OF ROAD SIGN (RS-2)

Handwritten notes and symbols:

- Handwritten "used" with a circle around it.
- Handwritten "b".
- Handwritten "H".
- Handwritten "A".
- Handwritten "G".

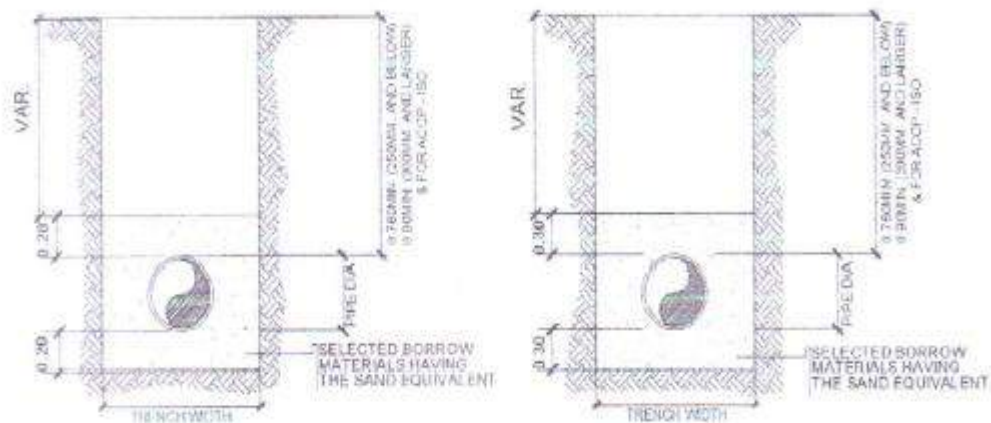
SECTION 3 – PIPELINE DETAILS OF ROAD SIGN (RS-2)

3.1 EXCAVATION WORKS

- 3.1.1 The contractor shall furnish labor, tools, materials and other facilities for the satisfactory performance to complete the excavation works.
The contractor shall make all necessary excavation to grade as indicated on the plans and provided in these specifications.
- 3.1.2 Trenches for water pipelines shall be made wide enough to allow good workmanship. A table shown on the drawing gives the recommended widths and depths for various pipe sizes.

TABLE OF TRENCH DIMENSION (MNWD STANDARD SPECIFICATION BOARD RESOLUTION NO. 47 - I Series 2013: DERIVATION OF UNIT COST FOR PIPELINE SAND BEDDING AND SAND COVER)

PIPE DIAMETER (mm)	50	75	100	150	200	250	300	350
WIDTH (m)	0.30	0.30	0.30	0.40	0.40	0.40	0.40	0.50



TRENCH DETAILS
NOT TO SCALE

Handwritten marks and signatures at the bottom of the page, including a circular stamp with the number 3, and several illegible signatures.

4.1.3.2 C.I.(Cast Iron) FITTINGS

Relevant characteristics and performance requirements for universal various fittings with complete bolts, nuts and gasket. Gasket should be 2 ply neoprene or equivalent. Should conform with ISO standard.

4.1.3.3 No fabricated fitting/material shall be used/installed unless it has been approved by the Engineer-in-Charged.

4.1.4 The pipe shall be located/installed within road right-of-way

4.1.5 Any pipe having its grade, alignment or joint disturbed after laying shall be taken up and relaid. No pipe shall be laid after in water or when trench or weather conditions are unsuitable for work. Water shall be kept out of trench until the jointing is completed. When work is not in progress, open ends of pipe and fittings shall be plugged or closed so that no trench water, earth or foreign substance will enter the pipes or fittings.

4.1.6 Pipe under drainage structures and/or culverts shall have reinforced concrete encasement unless otherwise specified by Engineer-in-Charge.

4.1.7 Proper equipment, tools, instruments and facilities satisfactory to the engineer-in-charge shall be provided and used by the contractor for the safe and efficient execution of the work. All pipes, fittings, valves and accessories shall be carefully lowered into the trench by means of suitable equipment and in such manner as to prevent damage to them. Under no circumstances shall pipes or accessories be dropped or dump into the trench, all foreign matter or dirt shall be thoroughly removed from the interior of the pipes and accessories, before lowering into the trench, any defective, damaged or unsound pipe shall not be lowered into the trench.

4.1.8 Deflection from a straight line or grade, as required by horizontal curves, vertical curves or effect shall be made with proper bends and elbows.

4.1.9 Install caution/warning tape 30 cm below the natural grade line.

4.1.10 No installation of pipes/fittings shall be done unless excavation has been approved by the Engineer-in-Charge.

SECTION 5 – CONCRETE THRUST BLOCKS



- 3.1.3 Whenever the methods used for the dewatering trenches and the other pits are found ineffective and inadequate, the contractor shall construct dewatering trenches or wells in order to rapidly collect the water as the case may be.

3.2 SHEETING, BRACING, AND COVERING

- 3.2.1 The contractor shall provide all shoring, sheeting and bracing necessary or required to perform and protect the excavation work and to safeguard the workmen and the public.
- 3.2.2 The contractor shall provide a steel plate covering with a minimum thickness of 1" for all excavation works on national and main streets; and a minimum thickness of 3/4" for all excavation works on the secondary and interior streets to ensure safety of the pedestrians.
- 3.2.3 All sheeting, bracing, and covering works shall be provided at the expense of the contractor.

SECTION 4 – INSTALLATION OF PIPES AND FITTINGS

4.1 PIPE AND FITTING LAYING

- 4.1.1 uPVC (un-plasticized polyvinyl chloride) Pipes/Bends, Class 150 with machine installed plastic ring, homogenously bonded with rubber ring and should conform with ISO standard.
- 4.1.2 G.I. (Galvanized Iron) Pipes/Elbows, Heavy Duty, schedule 40 and should conform with ISO standard.
- 4.1.3 FITTINGS

4.1.3.1 D.I.(Ductile Iron) FITTINGS

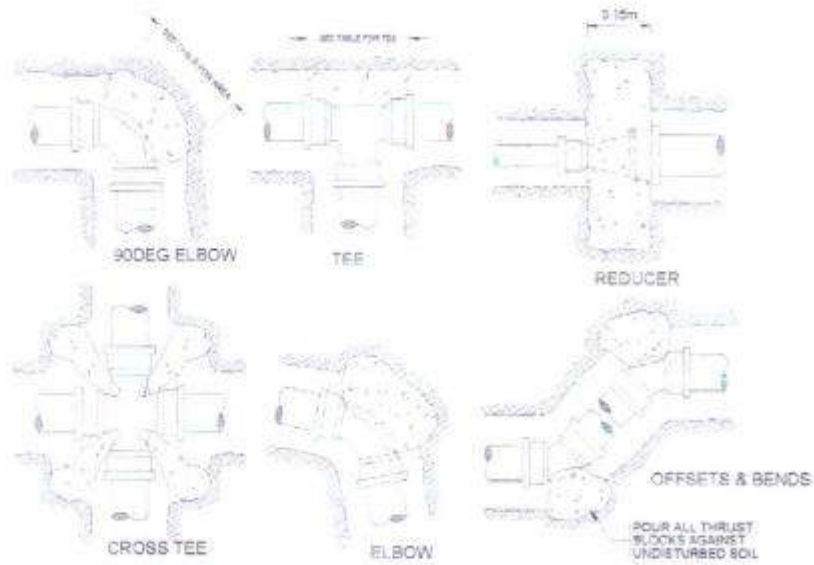
Relevant characteristics and performance requirements for gate valves, ductile iron body, bonnet guard flange and wrench nut, electronically applied fusion bonded epoxy resin coating, stainless stem, ductile iron encapsulated with EPDM-rubber compound wedge, bronze wedge nut, stainless steel 304 hexagon gland bolts, ASTM D2000 buna "N" nitrile rubber bonnet gasket, open O-ring stem seals, O-ring gland seal with 2 major components (Body and Bonnet).

Relevant characteristics and performance requirements for universal flange adaptor with complete bolts, nuts and gaskets – ductile iron body with epoxy resin coating with stainless steel 304 hexagon bolts.

Should conform with ISO standard.



- 5.1 Concrete thrust blocks, anchor blocks or welded joints shall be provided at all junctions, changes in direction exceeding 11 ½ degrees or where otherwise shown.



CONCRETE THRUST BLOCK DETAILS

TABLE OF MINIMUM THRUST BLOCK BEARING AREAS IN SQUARE METERS FOR PIPE SIZES 50mm TO 600mm Ø.				
PIPE SIZE mm (in)	TEE & DEAD END	90 DEG. BEND	45 DEG. BEND	22.5 DEG. BEND
50 (2")				
75 (3")	0.0500	0.0700	0.0400	0.0200
100 (4")	0.0900	0.1200	0.0700	0.0400
150 (6")	0.2000	0.2800	0.1500	0.0800
200 (8")	0.3500	0.5000	0.2700	0.1400
250 (10")	0.5500	0.7700	0.4200	0.2100
300 (12")	0.7900	1.1100	0.6000	0.3100
350 (14")	1.0700	1.5200	0.8200	0.4200
400 (16")	1.4000	1.9800	1.0700	0.5500
450 (18")	1.7700	2.5100	1.3600	0.6900
500 (20")	2.1900	3.1000	1.6800	0.8500
600 (24")	3.1500	4.4600	2.4200	1.2300

5

6

7

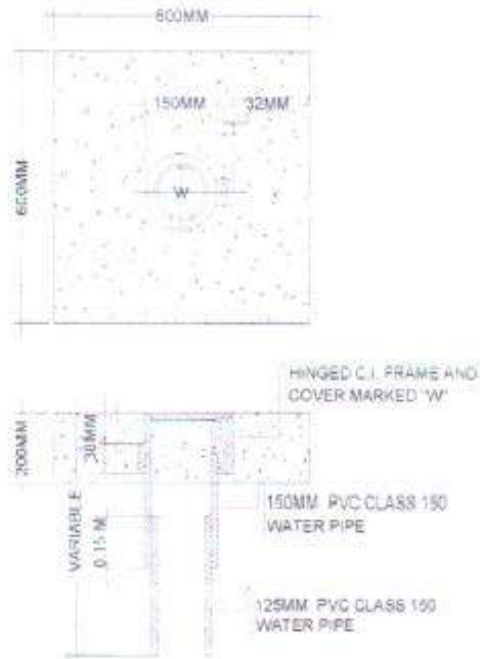
8

SECTION 6 – PIPELINE TRENCH BACKFILL

- 6.1 Selected borrow materials having the sand equivalent shall first be brought up to mid diameter of the pipe and compacted, then backfilling at 150mm(6in.) and compaction shall be repeatedly done until fully backfilled.
- 6.2 Blasted rock, broken concrete or broken pavement materials and large boulders, shall not be used as backfill materials.
- 6.3 Backfill shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage.
- 6.4 When backfill material is not enough, it shall be sourced from outside but must conform with the general condition on materials quality.
- 6.5 Prior to backfilling, a backfilling permit shall be secured from the MNWD Engineer-in-Charge.

SECTION 7 – INSTALLATION OF VALVES AND VALVE BOX COVER

- 7.1 Valves and valve box covers shall be installed as shown on the drawings. Valves shall be set plumb center with valve box cover. Valves shall have the interiors cleaned of all foregoing matters before installation.
- 7.2 Install concrete pad for every valve box cover installed as shown in the drawings.

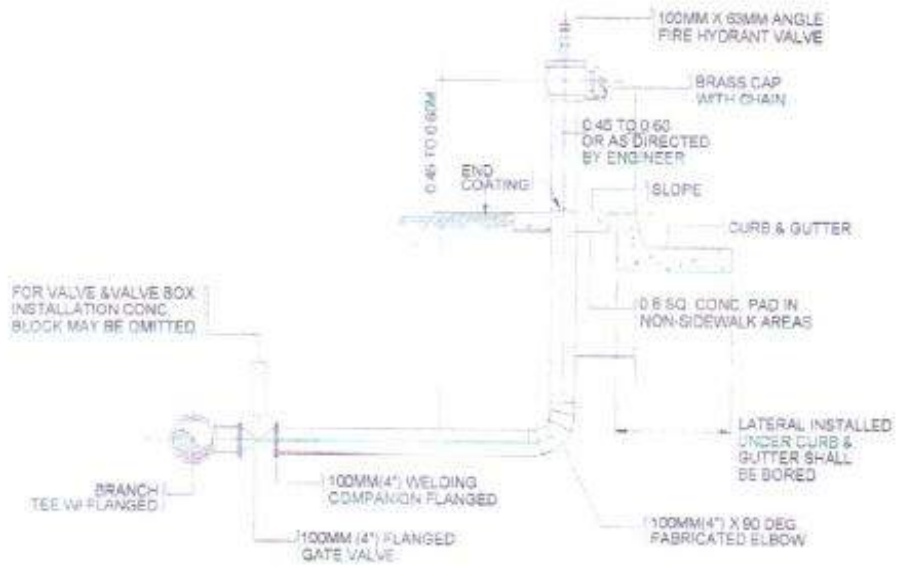


VALVE BOX and COVER DETAIL
NOT TO SCALE

Handwritten marks and signatures: a circle with a cross, a signature, a blue checkmark, a signature, and a signature.

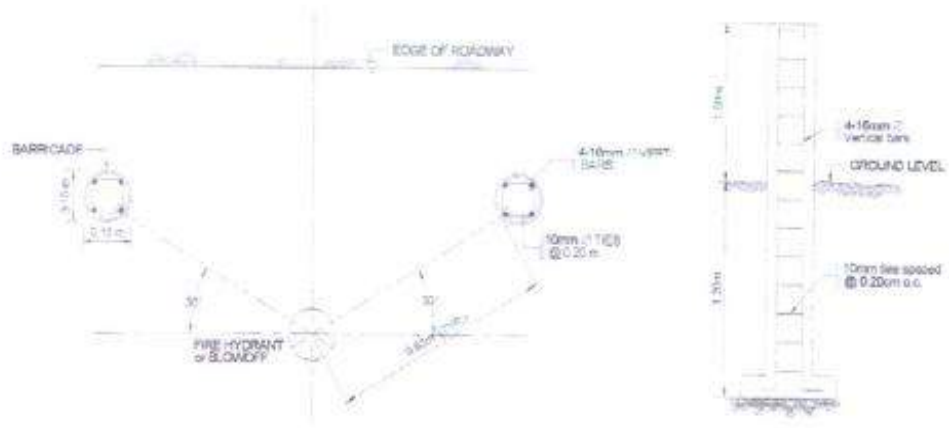
SECTION 8 – FIRE HYDRANTS AND BLOW OFFS

8.1 Where no curbs exist, the hydrant/blow-off shall be located within 1.50 meters of the road right-of-way or as directed by the Engineer-in-Charge and barricades shall be installed as shown in the drawing



FIRE HYDRANT DETAILS

NOT TO SCALE



PLAN FOR SETTING BARRICADE

ELEV. OF CONC. BARRICADE

(Handwritten marks and signatures)

- 8.2 Residential fire hydrants shall be painted red. Blow-off shall be painted blue. Barricades in yellow and black as specified by Engineer-in-charge.

SECTION 9 – BRIDGE AND CULVERT CROSSING

- 9.1 The work shall include furnishing of all materials, labor, tools equipment and other facilities for the satisfactory performance to complete the bridge and culvert crossing as specified herein.
- 9.2 Bridge and culvert crossing shall be installed in accordance with the MNWD approved design.
- 9.3 Steel or G.I. pipes shall be painted blue.

SECTION 10 – CONCRETE CUTTING AND BREAKING

- 10.1 The work shall include furnishing of all labor, tools equipment and other facilities for the satisfactory performance to complete the concrete cutting and breaking works as specified herein.

SECTION 11 – RESTORATION WORKS

11.1 ROADS AND DRIVEWAYS

- 11.1.1 Furnish all materials, labor, tools, equipment and perform all works necessary as specified herein.
- 11.1.2 All damaged roads and driveways, if any, on account of the performance of the work covered by the contract, the same shall be restored into its original condition.
- 11.1.3 Portland cement
ASTM ISO type 1 for normal Portland cement, unless the Engineer-in-Charge approved as change.
- 11.1.4 Aggregates
 - 11.1.4.1 Fine aggregate to be used in the composition of concrete shall consist of sand, stone or other inert materials with similar characteristics or a combination there of having clean, hard, strong, durable, uncoated grains and free from injurious amount of dust, lumps, soft or flaky particles, shale, alkali, organic matter, ham or clay.
 - 11.1.4.2 Coarse aggregate shall consist of crushed stones, gravel or other approved inert materials with similar characteristics as the fine aggregate and shall well graded as to maximum size of 1/2" in diameter



11.1.5 Asphalt

Cold mix asphalt with emulsifier, unless the Engineer-in-Charge approved as change.

11.1.6 Concrete Proportions

11.1.6.1 Class "A" concrete shall consist of one(1) part cement to a total of five(5) parts of fine and coarse aggregates measured separately.

11.1.7 Concrete Mixing

11.1.7.1 Concrete mixing shall be done using one(1) bagger concrete mixer / transit mixer.

11.1.8 Depositing Concrete

11.1.8.1 Before pouring of concrete, debris shall be removed from space to be occupied by the concrete.

11.1.8.2 During concrete pouring, it shall be thoroughly spanted and compacted by means of a rod.

11.1.8.3 Water shall be removed from excavated portion before concrete is poured.

11.1.9 Depositing of Asphalt

Before pouring of cold mix asphalt, debris shall be removed from cured concrete.

Used of vibratory compactor/roller must be observed during compaction of cold mix asphalt.

11.2 LANDSCAPE

11.2.1 All landscape work that is damaged, if any, on account of the performance of the work covered by the contract shall be placed and put into perfect condition by the contractor at its own expense..

SECTION 12 –HYDROTESTING

12.1 Furnish all materials, labor, tools equipment except pressure gauge provided by MNWD and perform all unless necessary or specified herein.

12.2 After the pipes have been laid, the joints completed and the trench partially backfilled but with joints exposed for examination, all newly laid pipe or any valved section thereof shall be subjected to a hydrostatic pressure of 150 psi.

- 12.3 The duration of each pressure test shall be at least two (2) hour unless otherwise specified by the engineer.
- 12.4 Each section of pipeline shall be slowly filled with water and the specified test pressure, measured at the point of lowest elevation, shall be applied by means of a hydrotesting machine connected to the pipe in manner satisfactory to the engineer. During the filling of the pipe and before applying the test pressure, all air shall be expelled from the pipeline. To accomplish this, taps shall be made, if necessary at points of highest elevation, and after completion of the test, the taps shall be tightly plugged unless otherwise specified.
- 12.5 During the test, all exposed pipes, fittings, valves, hydrants, joints and coupling shall be carefully examined. If found to be cracked or defective, they shall be removed and replaced by the contractor. The test shall be repeated until satisfactory results are obtained.
- 12.6 Hydrotesting points are indicated in the plans and it should be strictly followed, no further works are allowed before the start of hydrotesting prior to the mentioned work.

SECTION 13 - DISINFECTION

- 13.1 Furnish all materials, labor, tools equipment and perform all unless necessary or specified herein.
- 13.2 Before being placed in service, and before certification of completion by the engineer, all new water mains or extensions to existing system, or valved section of such extension or any replacement in the existing water system shall be disinfected with chlorine.
- 13.3 The preferred point of applications of the chlorinating agent is at the beginning of the pipeline, extensions, or any valved section and through a corporation stop inserted on the top of the newly laid pipe.

SECTION 14 - FLUSHING

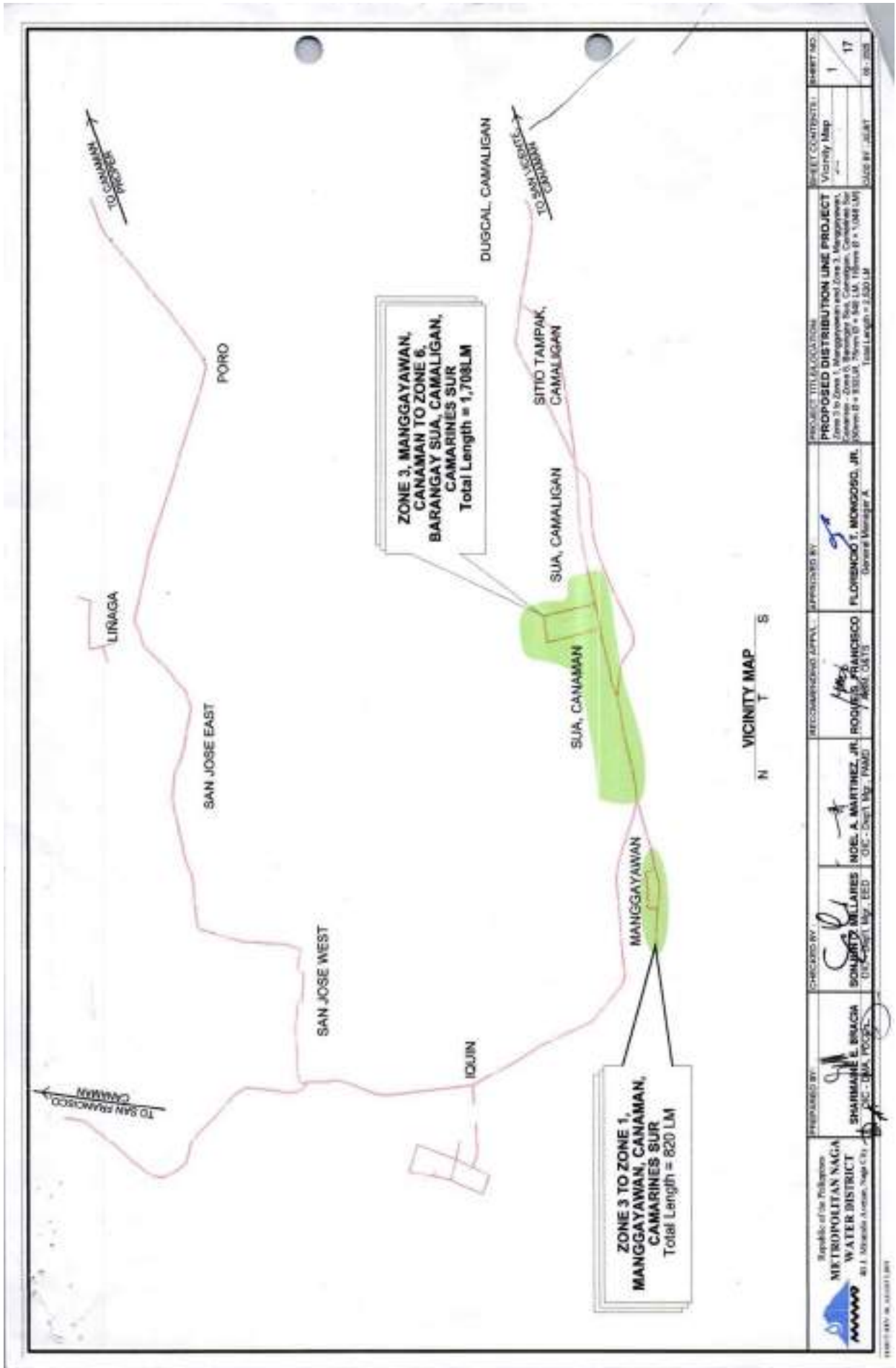
- 14.1 Furnish all materials, labor, tools equipment and perform all unless necessary or specified herein.
- 14.2 After chlorination, all treated water shall be thoroughly flushed from newly laid pipeline and replaced with water throughout its entire length. Water sample shall be collected by MNWD for laboratory examination, with cost chargeable to the Contractor until all samples passes the NSDW requirement.

SECTION 15 - AS-BUILT PLAN

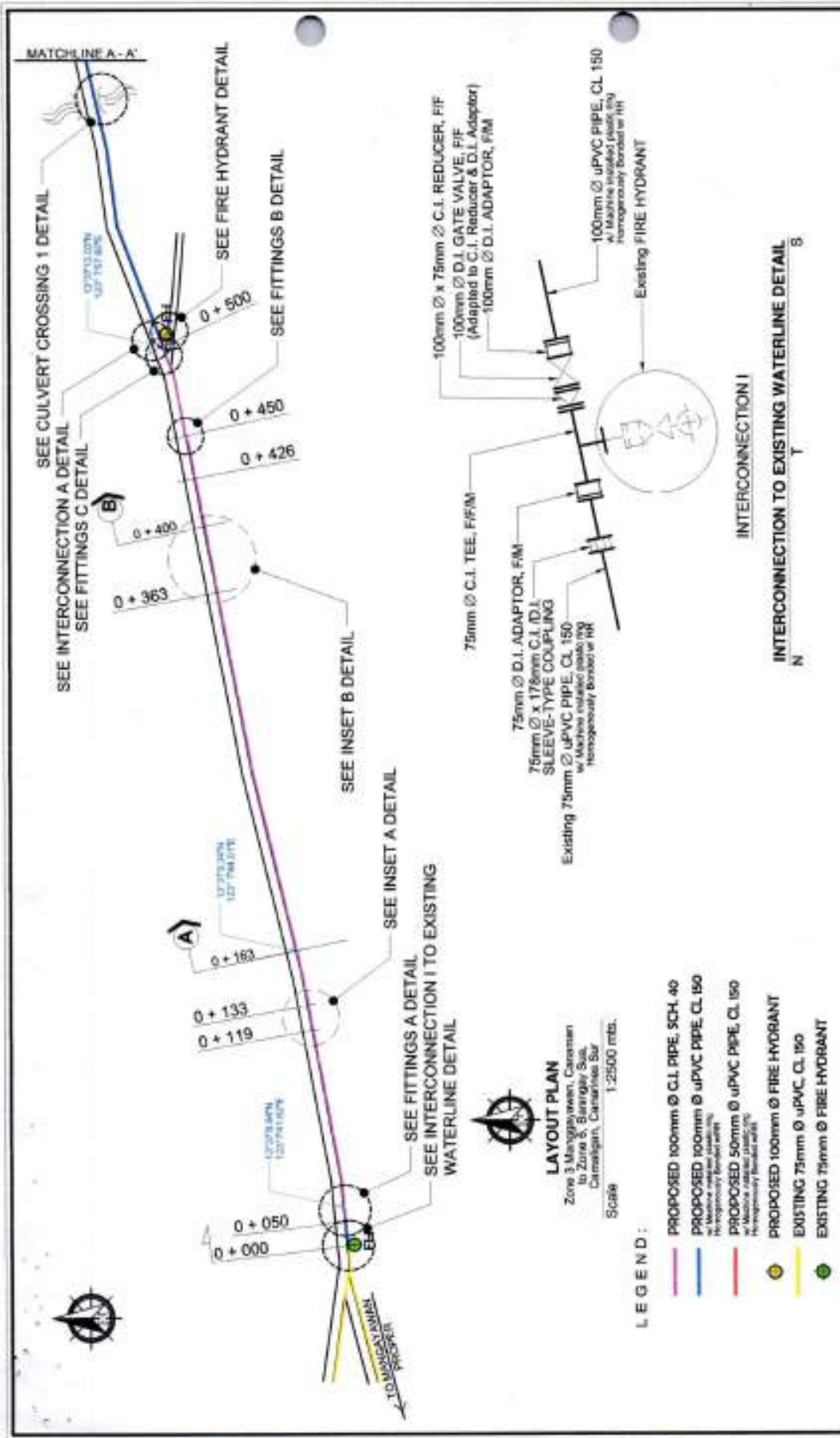
- 15.1 After completion of works, the contractor shall submit a preliminary "As-Built Plan" of the project prior to the conduct of the final inspection of MNWD project Engineer-in-Charge.



Section VII. Drawings



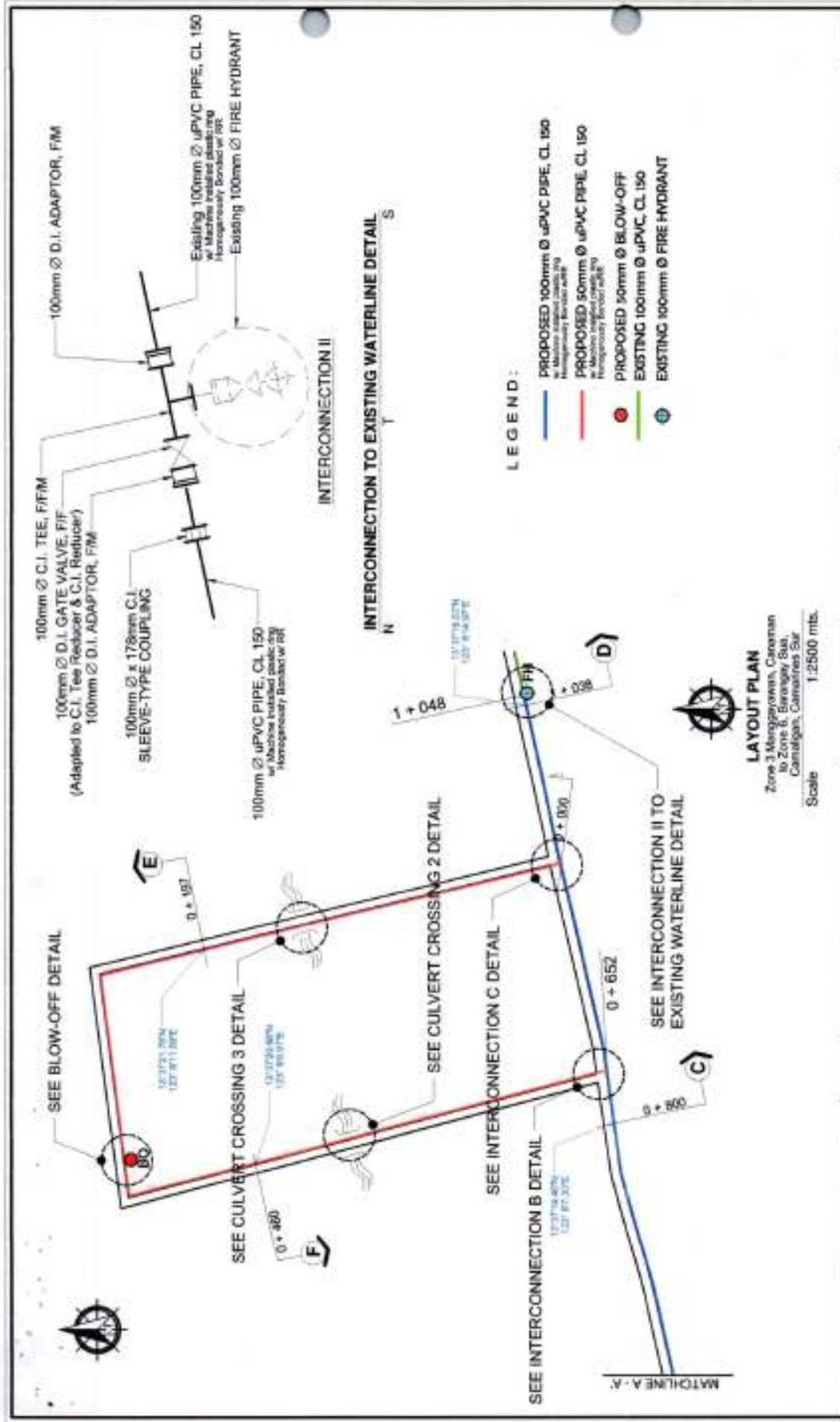
<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 401 J. Morado Avenue, Naga City</p>	<p>PREPARED BY: SHARMAH E. BRAGA D/C - QA, PCCP</p>	<p>CHECKED BY: SONJAY M. LAURE D/C - DIST. Mgr., EED</p>	<p>NOEL A. MARTINEZ, JR. D/C - Dist. Mgr., PAMG</p>	<p>RECOMMENDED APPROVAL: RODOLFO FRANCISCO Asst. City Engr.</p>	<p>APPROVED BY: FLORENCO T. MONGGOSO, JR. General Manager A.</p>	<p>PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggawayan and Zone 3, Manggawayan, Canaman - Zone 6, Barangay Sua, Camaligan, Camarines Sur 30km - D = 800 LM, 10km - D = 1,000 LM Total Length = 2,800 LM</p>	<p>SHEET CONTENTS: Vicinity Map</p>	<p>SHEET NO. 1</p>	<p>DATE BY: JABAT 08-2023</p>
	<p>17</p>								



LAYOUT PLAN
 Zone 3 Manggaysawan, Caranman
 to Zone 6, Barangay Sur,
 Caranman, Caranman Sur
 Scale 1:2500 mts.

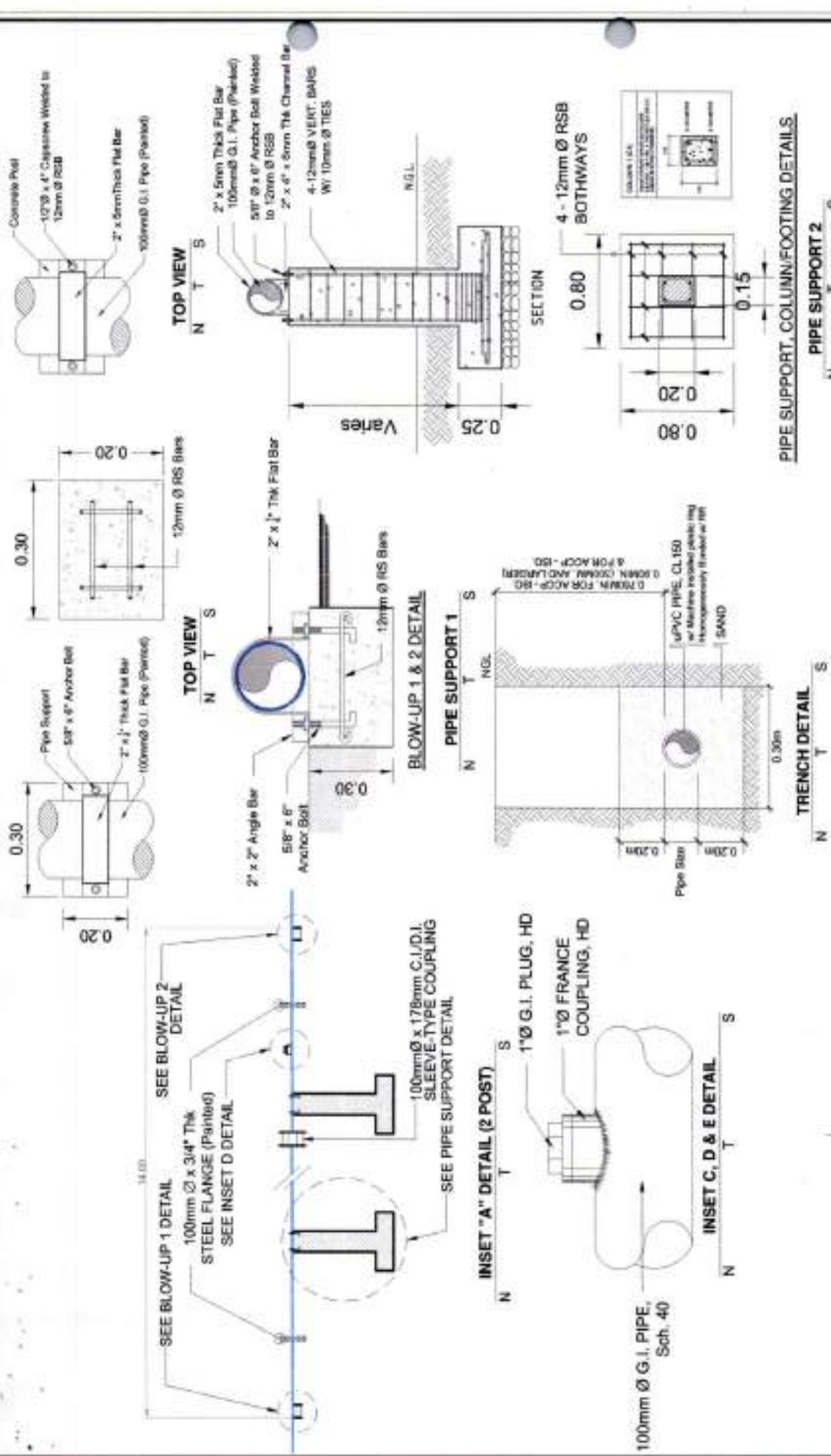
- LEGEND :**
- PROPOSED 100mm Ø C.I. PIPE, SCH. 40
 - PROPOSED 100mm Ø uPVC PIPE, CL. 150
Homogeneously Bonded w/ RH
 - PROPOSED 50mm Ø uPVC PIPE, CL. 150
Homogeneously Bonded w/ RH
 - PROPOSED 100mm Ø FIRE HYDRANT
 - EXISTING 75mm Ø uPVC, CL. 150
 - EXISTING 75mm Ø FIRE HYDRANT

Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 48 E. Miranda Avenue, Naga City	PREPARED BY: SHARMAINE E. BRACIA OIC - DAM. POOL	CHECKED BY: SONJHIN D. MILLARES OIC - DAM. MY. SED	RECOMMENDING APPROV. APPROVED BY: NOEL A. MARTINEZ, JR. OIC - Dept. My. P.O.	PROJECT TELELOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggaysawan to Zone 3, Manggaysawan Caranman - Zone 6, Barangay Sur, Caranman, Caranman Sur 200mm Ø = 553.0M, 75mm Ø = 540.0M, 100mm Ø = 1,348.0M Total Length = 2,500.0M	SHEET CONTENTS: Layout Plan 2 17 OIC - DAM
	RECOMMENDING APPROV. APPROVED BY: FLORENCIO T. MONGIOSO, JR. General Manager A			PROJECT NO. 00-2808	

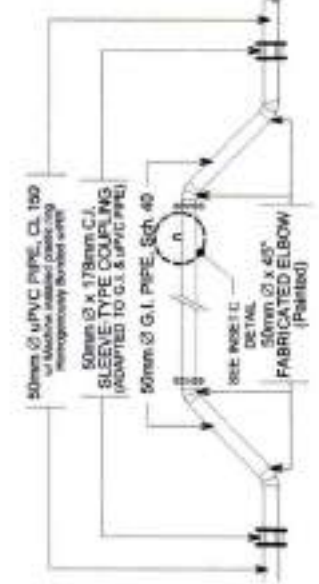
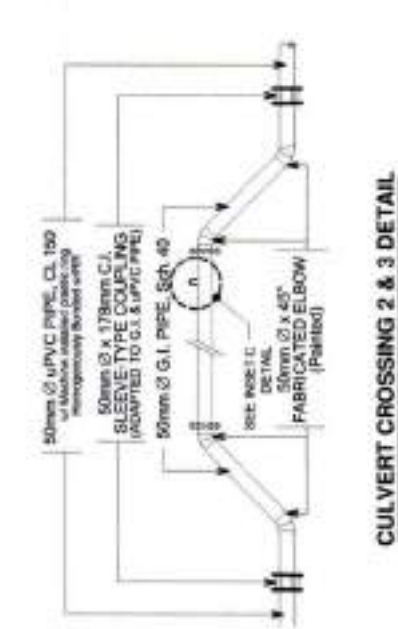
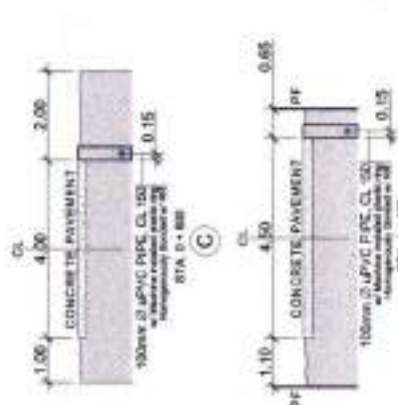


 Republic of the Philippines METROPOLITAN WATER DISTRICT 4013 Miranda Avenue, Ngay City	PREPARED BY: SHARMA S. BRAGA O/C - Design	CHECKED BY: SONIA O. DELA ROSA O/C - Design	RECOMMENDING APPROVAL: NOEL A. MARTINEZ, JR. O/C - Dept. Mgr., PABD	APPROVED BY: FLORENCIO T. MONGOSO, JR. General Manager	PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggoyawan and Zone 3, Manggoyawan, Camarines Sur - Zone 6, Barangay San, Camarines Sur 50mm Ø = 0.020 MI, 75mm Ø = 0.461 MI, 100mm Ø = 1.040 MI Total Length = 3.501 MI	SHEET NO.: 3 OF 17 DATE: 2020 BY: JALPT
---	--	--	--	---	--	---

DATE: 04/20/2020



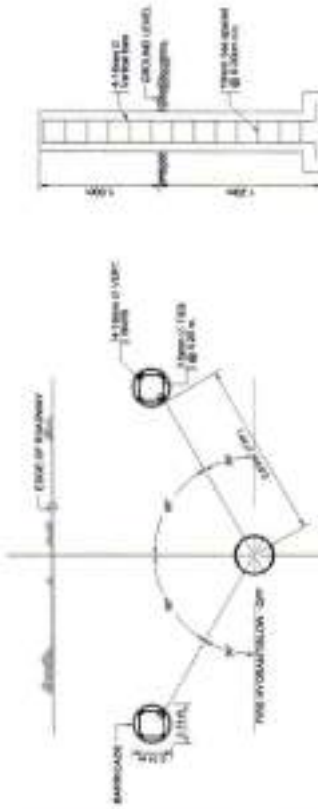
 METROPOLITAN WATER DISTRICT 40 J. Mendiola Avenue, Naga City	PREPARED BY: SHARMAINE P. BRACIA DEC - 2014, P.E.	CHECKED BY: SONJUN B. MELLARES DEC - 2014, P.E.	RECOMMENDING APPROV.: NOEL A. MARTINEZ, JR. DEC - 2014, P.E.	APPROVED BY: FLORENCIO J. MONGOSCO, JR. General Manager	PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 1 to Zone 11, Marikina City, Marikina City Zone 1, Marikina City, Marikina City Zone 2, Marikina City, Marikina City Zone 3, Marikina City, Marikina City Zone 4, Marikina City, Marikina City Zone 5, Marikina City, Marikina City Zone 6, Marikina City, Marikina City Zone 7, Marikina City, Marikina City Zone 8, Marikina City, Marikina City Zone 9, Marikina City, Marikina City Zone 10, Marikina City, Marikina City Zone 11, Marikina City, Marikina City Total Length = 2,500 LM	SHEET CONTENTS: As shown	SHEET NO.: 6 OF 17 DATE: 08/20/14
--	--	--	---	--	--	-----------------------------	---



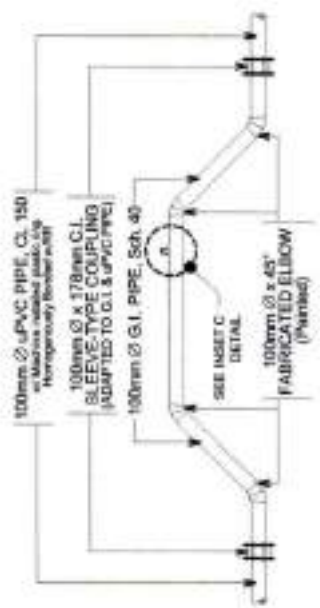
CULVERT CROSSING 2 & 3 DETAIL



ELEV. OF CONC. BARRICADE



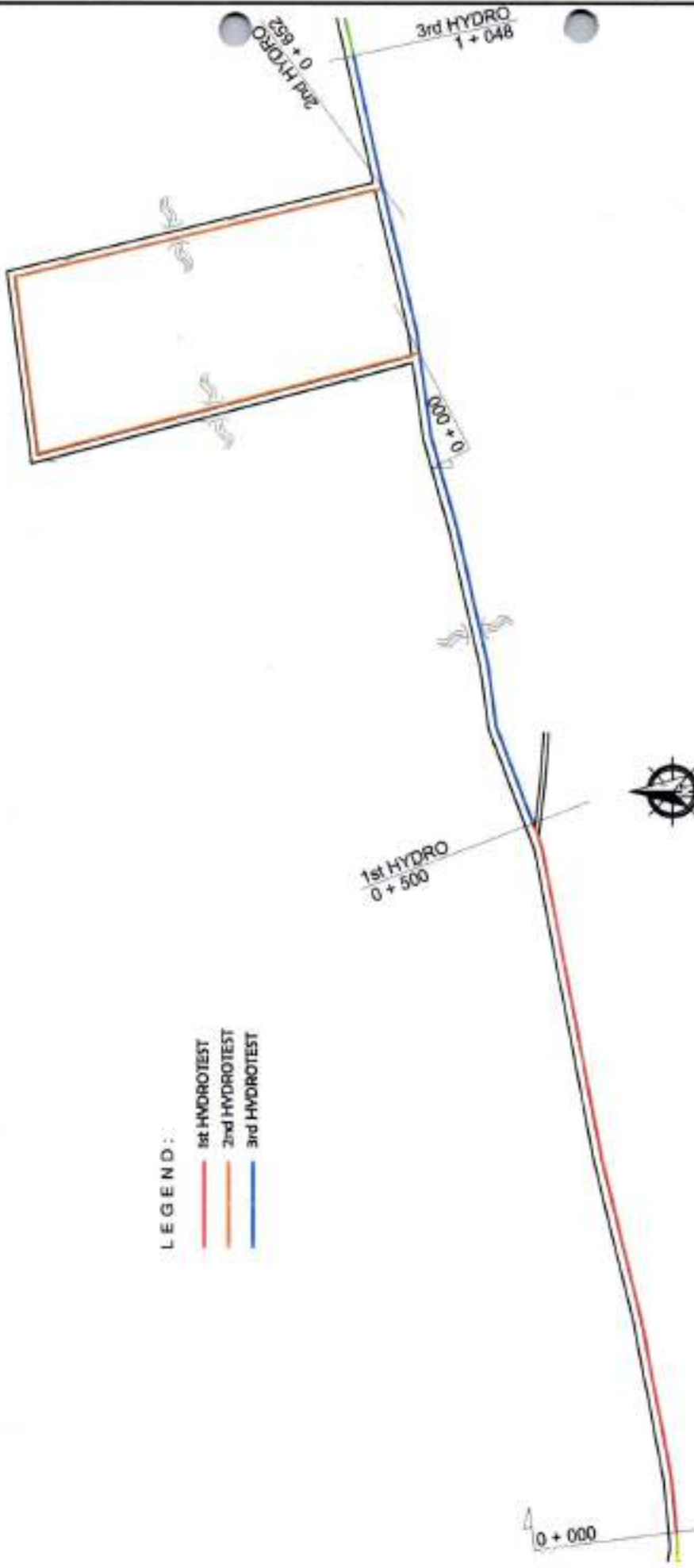
PLAN FOR SETTING BARRICADE



CULVERT CROSSING 1 DETAIL

ROAD CROSS-SECTION DETAIL

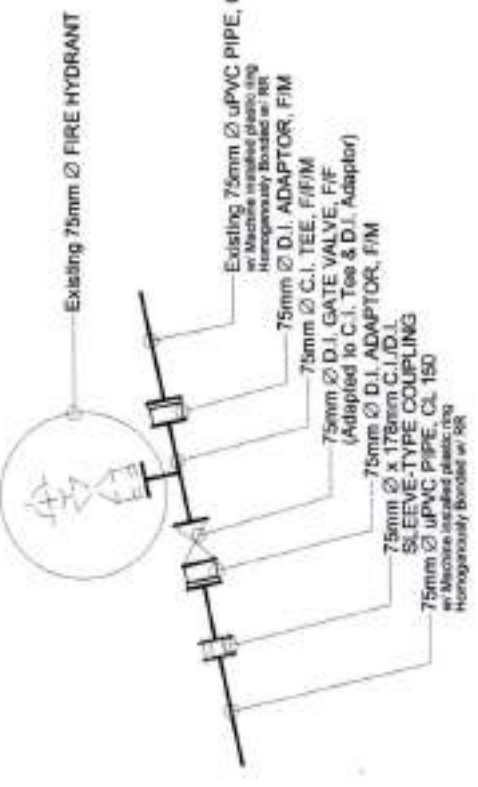
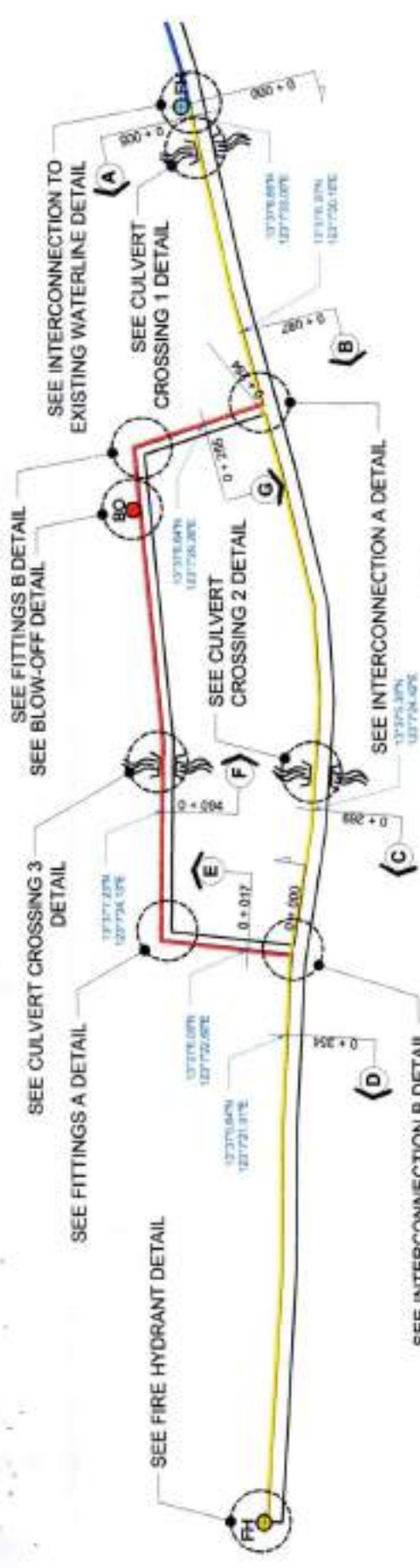
<p>Republic of the Philippines METROPOLITAN WATER DISTRICT 46 F. Miranda Avenue, Naga City</p>	<p>PREPARED BY: SHARMAHE E. BRAGA DCE - DWA PROJECT</p>	<p>CHECKED BY: RODOLFO D. MILLARES DCE - DWA PROJECT</p>	<p>APPROVED BY: NOEL A. MARTINEZ, JR. DCE - Dept. Mgr. PAMAD</p>	<p>RECOMMENDING APP'AL: RODOLFO D. FRANCISCO DCE - DWA PROJECT</p>	<p>APPROVED BY: FLORENCE T. MONGOSO, JR. General Manager A</p>	<p>PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggahan and Zone 3, Manggahan, Cananan - Zone 6, Manggahan Sta. (Manggahan, Cananan Sta.) 100mm Ø x 1000 M, 100mm Ø x 500 M, 100mm Ø x 1000 M Total Length = 2,000 LM</p>	<p>SHEET NO. 17 SHEET CONTENTS: As shown DRAFTER: JASSET DATE: 08-2023</p>
	<p>ROAD CROSS-SECTION DETAIL</p>						



- LEGEND:**
- 1st HYDROTEST
 - 2nd HYDROTEST
 - 3rd HYDROTEST

HYDROTETING LAYOUT PLAN
 Zone 3 Manggayanen, Canatuan
 to Zone 6, Barangay Sula,
 Camaligan, Camarines Sur

 Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Marcelo Avenue, Naga City	PREPARED BY: SHARMA E BRACHA (EC - Asst. Engr.)	CHECKED BY: BOHUN O. VILLARES (EC - Asst. Engr.)	RECOMMENDING OFFICER: NOEL A. MARTINEZ, JR. (EC - Asst. Engr.)	SUPERVISOR BY: RODOLFO FRANCISCO (Asst. Engr.)	PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggayanen and Zone 3, Manggayanen to Zone 6, Barangay Sula, Camaligan, Camarines Sur Station 0 + 000 to Station 1 + 048 (L.M. Miles) & 1 + 048 (L.M. Miles) to Station 2 + 500 (L.M. Miles) Total Length = 2,500 L.M.	SHEET CONTAINS: Hydrotesting LP	SHEET NO. 9	TOTAL SHEETS 17
	DATED BY: JULY			DRAWN BY: JULY				



- LEGEND:**
- PROPOSED 75mm Ø uPVC PIPE, CL 150
in Machine installed plastic ring Homogeneously Banded w/ FR
 - PROPOSED 50mm Ø uPVC PIPE, CL 150
in Machine installed plastic ring Homogeneously Banded w/ FR
 - PROPOSED 75mm Ø FIRE HYDRANT
 - PROPOSED 50mm Ø BLOW-OFF
 - EXISTING 75mm Ø uPVC CL 150
 - EXISTING FIRE HYDRANT

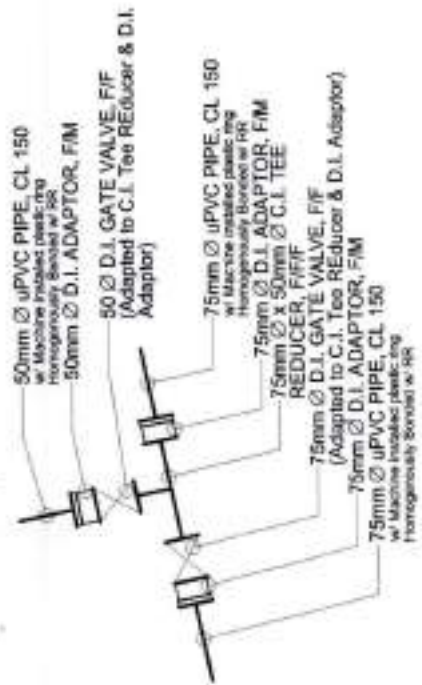


LAYOUT PLAN
Zone 3 to Zone 1, Manggoyawan,
Camaran, Camarines Sur

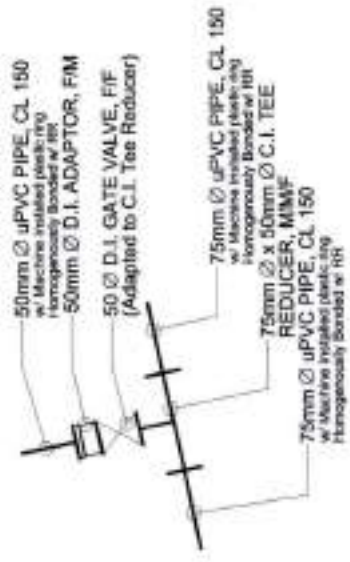
Scale 1:2000 mts.

INTERCONNECTION TO EXISTING WATERLINE DETAIL

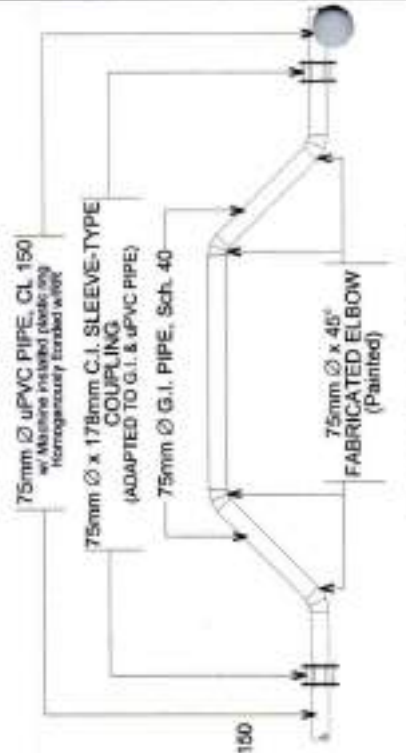
<p>Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 48 J. Miranda Avenue, Naga City</p>	<p>DESIGNED BY SHARMAINE E. BRACIA O.C. - DRA, PRC-CE</p>	<p>CHECKED BY SOMUN O. MELLARES O.C. - Dept. Mgr. EED</p>	<p>APPROVED BY NOEL A. MARTINEZ, JR. O.C. - Dept. Mgr. PADM</p>	<p>RECOMMENDING APPROVAL ROGUE S. FLORENCIO Asst. Mgr. PADM</p>	<p>APPROVED BY FLORENCIO J. MONGOSO, JR. General Manager A</p>	<p>PROJECT RELOCATION PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Manggoyawan and Zone 1, Manggoyawan, Camaran - Zone 0, Barangay Gas, Camarigan, Camarines Sur (Station 0 + 000UM to Station 0 + 540 UM, Station 0 + 1348 UM) Total Length = 2,000 UM</p>	<p>SHEET CONTENTS</p> <table border="1"> <tr> <td>Layout Plan</td> <td>10</td> </tr> <tr> <td>Int. Details</td> <td>17</td> </tr> </table>	Layout Plan	10	Int. Details	17
	Layout Plan	10									
Int. Details	17										
<p>DATE: 07/20/2023</p>											



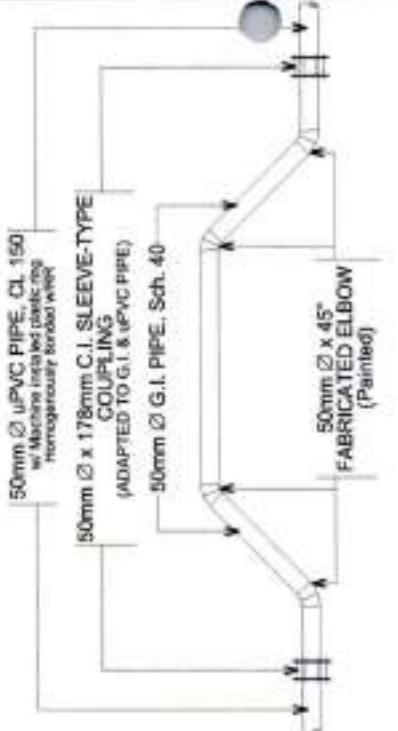
INTERCONNECTION A



INTERCONNECTION B



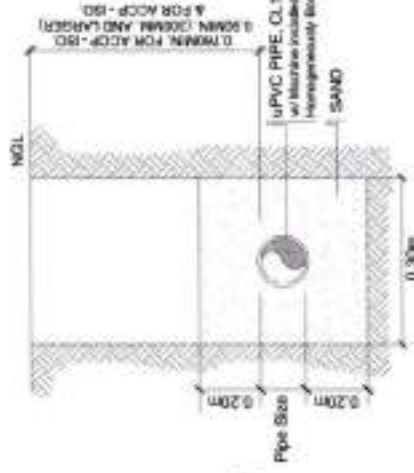
CULVERT CROSSING 1 & 2



CULVERT CROSSING 3



FITTINGS A & B DETAIL

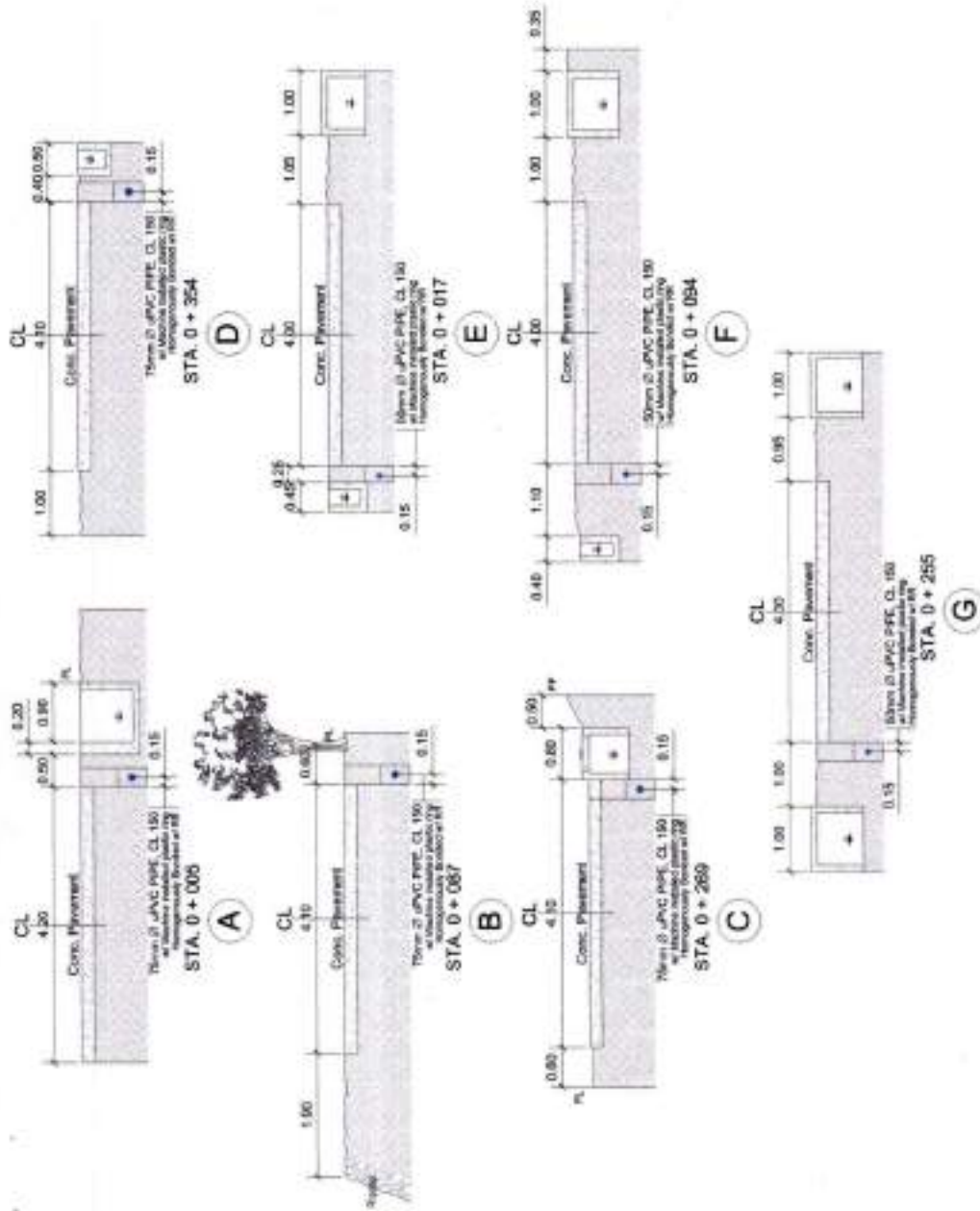


TRENCH DETAIL

INTERCONNECTION DETAIL

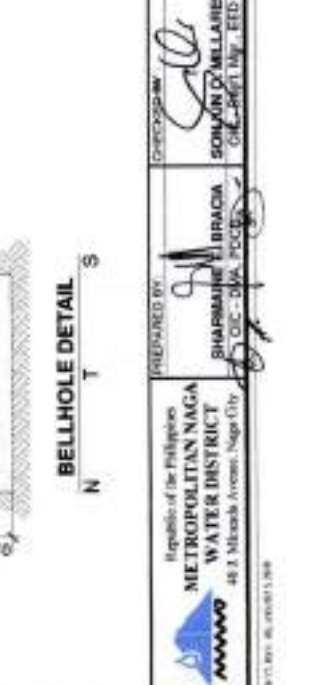
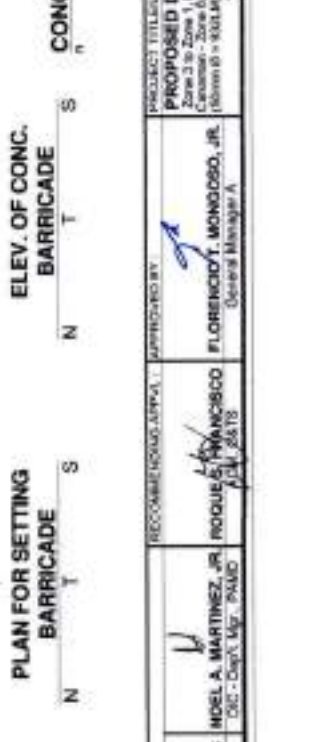
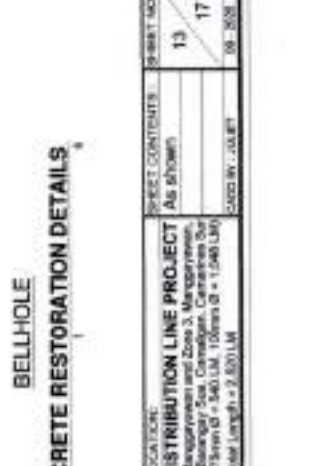
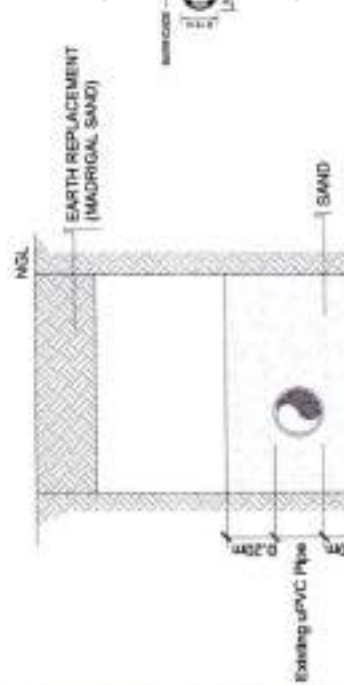
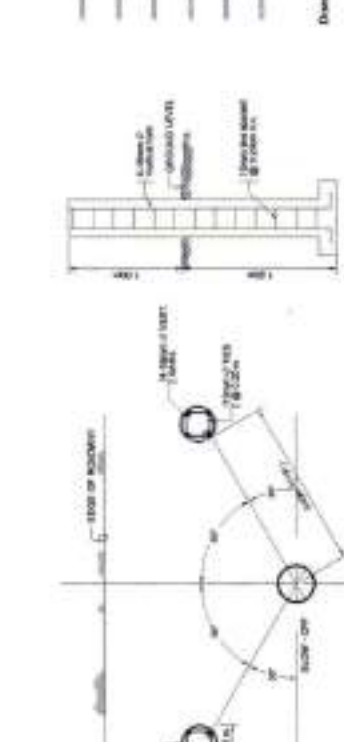
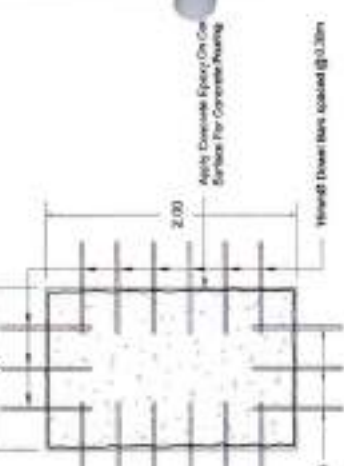
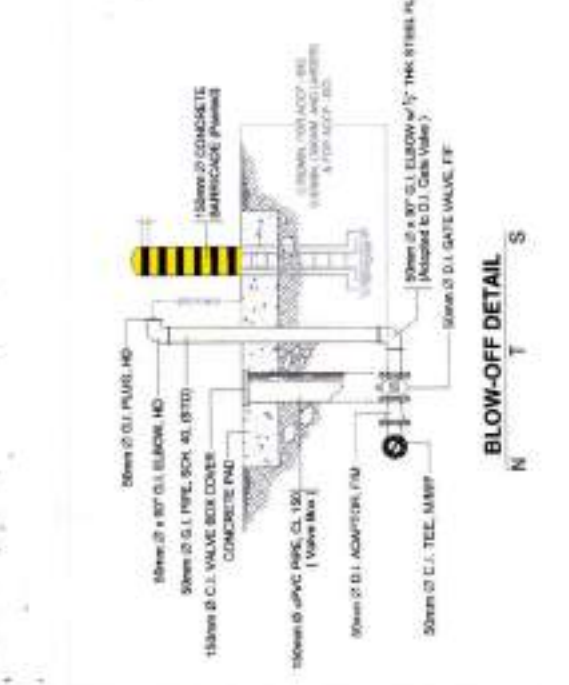
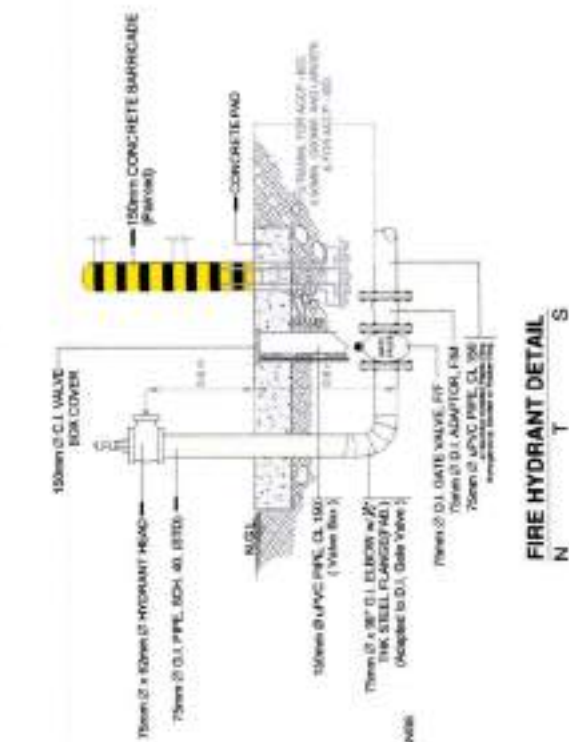
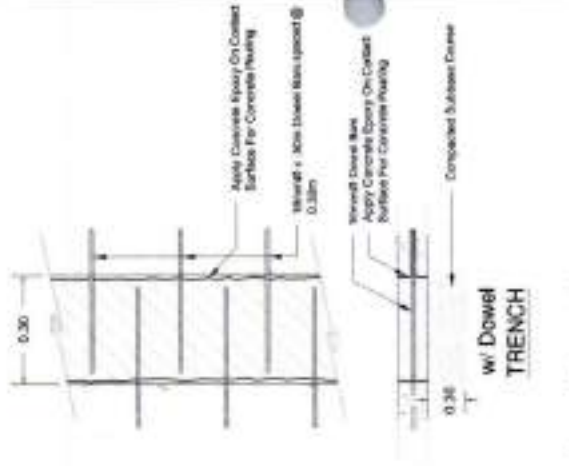
CULVERT CROSSING DETAIL

<p>Republic of the Philippines METROPOLITAN WATER DISTRICT 40 J. Vitoria Avenue, Ngli City</p>	<p>PREPARED BY: SHARMADEEN BRAGA DCC: Asst. Engr. / POC</p>	<p>CHECKED BY: SONJIN O. MELLARES DCC: Asst. Mgr. / BE</p>	<p>RECOMMENDED APPROV. / APPROVED BY: NOEL A. MARTINEZ, JR. DCC: Asst. Mgr. / IAMD</p>	<p>APPROVED BY: FLORENCE T. MONCOSO, JR. General Manager A</p>	<p>PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Montegomery and Zone 3, Montegomery, Canaan - Zone 4, Montegomery Sta. Cebu City, Cebu City (50mm \varnothing = 602UM, 75mm \varnothing = 648 LK, 100mm \varnothing = 1,048 LK) Total Length = 2.55 KM</p>	<p>SHEET NO. / TOTAL SHEETS 11 / 17</p>	<p>DATE 2020-07-20</p>
	<p>REVISIONS</p>			<p>DATE</p>			

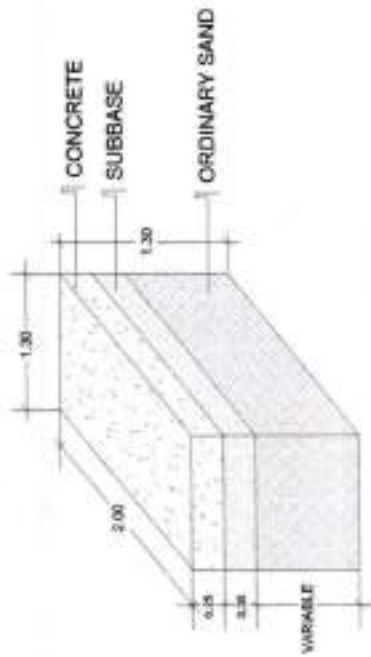


ROAD CROSS SECTION DETAIL
 Not Scale

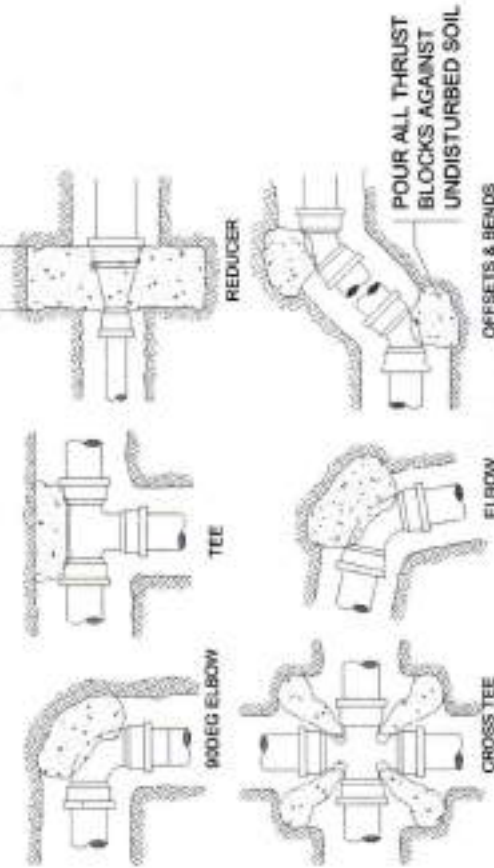
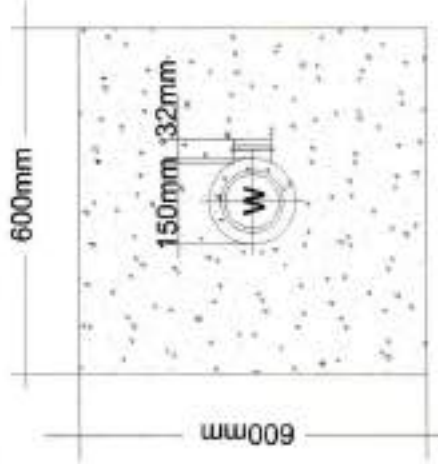
 Republic of the Philippines METROPOLITAN WATER DISTRICT 48 J. Miranda Avenue, Tagay City	PREPARED BY: SHARMINE E. BRAGA C.E. - DWA, PCE-2	CHECKED BY:  SONNY D. MILLARES C.E. - DWA, PCE-2	RECOMMENDED APPROV. APPROVED BY:  NOEL A. MARTINEZ, JR. C.E. - DWA, PCE-2	RECOMMENDED APPROV. APPROVED BY:  ROGUE S. FRANCISCO C.E. - DWA, PCE-2	PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Magayasan and Zone 3, Magayasan, Camarines - Zone 6, Barangay San Camarines, Camarines Sur (Station 0 + 000 LM - Station 0 + 100 LM, 750m x 6 + 1,000 LM) Total Length = 2,000 LM	SHEET CONTENTS: As shown	SHEET NO.: 12 OF 17	DATE: 08-2008
	GENERAL MANAGER: FLORENCIO T. MONGOSO, JR. General Manager A				PROJECT NO.: 002	DATE: 08-2008		



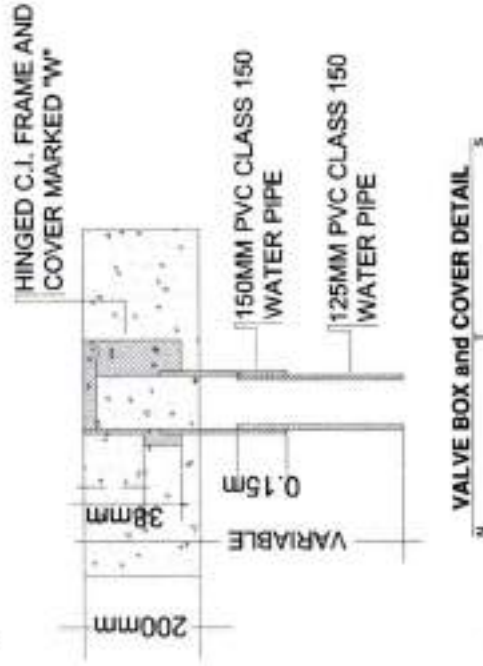
Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 48 J. Miranda Avenue, Naga City 	PREPARED BY: SHARMAINE BRACIA DEC - 2024, PCE	CHECKED BY: SOLOMON D. MILLARES DEC - 2024, Mgr., EED	APPROVED BY: HOEL A. MARTINEZ, JR. DEC - 2024, Mgr., P&MO	RECOMMENDED APPROVAL: ROGUE S. FRANCISCO P.E., E.E.T.	GENERAL MANAGER: FLORENDO T. MONDOSO, JR. General Manager A	PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 2 to Zone 1, Manayunan and Zone 3, Manayunan Caisan - Zone A, Manayunan, Caisan, Caisan Sur (150mm Ø = 403.1M, 75mm Ø = 540.1M, 100mm Ø = 1,240.1M) Total Length = 2,500.1M	SHEET CONTENTS: As shown 13 17 18 - 258 DRAWN BY: J.A.B.T.
	CONCRETE RESTORATION DETAILS						



BELLHOLE EXCAVATION



CONCRETE THRUST BLOCK DETAIL



HINGED C.I. FRAME AND COVER MARKED "W"

VALVE BOX and COVER DETAIL

<p>Republic of the Philippines METROPOLITAN WATER DISTRICT 40 J. Mirona Avenue, Naga City</p>	<p>PREPARED BY: SHARMAH VIRACIA D/C - CIVIL ENGINEER</p>	<p>CHECKED BY: SOLICITO MILLARES D/C - DEPT. MGR. ESD</p>	<p>RECOMMENDING APPROV. NOEL A. MARTINEZ, JR. D/C - DEPT. MGT. P&M&D</p>	<p>APPROVED BY: FLORENCO T. MONGCOSO, JR. General Manager A</p>	<p>PROJECT TITLE/LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Mergayawan and Zone 3, Mergayawan, Camarine - Zone 3, Mergayawan, Camarines Sur (Main D = 300MM, Branch D = 540 MM, 100mm D = 1.040 LM) Total Length = 2.520 LM</p>	<p>FILE CONTENTS: As shown</p>	<p>SHEET NO.: 14</p>	<p>TOTAL SHEETS: 17</p>	<p>DATE: 08 - 2025</p>
	<p>DATE: 08 - 2025</p>								

SPECIFICATIONS:

1. WARNING SIGNS

a. National and Main Streets

The Contractor shall provide the following signs:

- a.1 Slow down signs (WS-1) at 50 meters before and after the project. (See WS-1 details)
- a.2 Slow down signs (WS-1) at 25 meters before and after the project. (See WS-1 details)
- a.3 Road signs (WS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See WS-2 details)

b. Secondary or Inland Streets

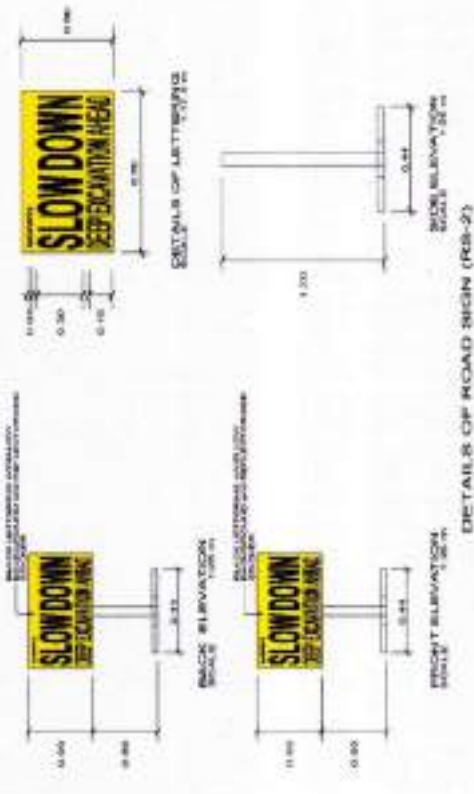
The Contractor shall provide the following signs:

- b.1 Road signs (WS-2) at 25 meters and 10 meters before and after the project. (See WS-2 details)
- b.2 Road signs (WS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See WS-2 details)

c. Private/Feeder Streets

The Contractor shall provide the following signs:

- c.1 Road signs (WS-2) at 5 meters before and after the project. (See WS-2 details)
- c.2 Road signs (WS-2) at every 10 meters along the entire length of the excavation with warning tape stretch on top of the road signs. (See WS-2 details)



2. EXCAVATION WORKS

- a. The contractor shall furnish labor, tools, materials and other facilities for the satisfactory performance to complete the excavation works. The contractor shall make all necessary excavation to grade as indicated on the plans and provided in these specifications.
 - b. Trenches for water pipelines shall be made wide enough to allow good working. A table shown on the drawing gives the recommended widths and depths for various pipe sizes.
 - c. Whenever the method used for the concreting trenches and the other jobs are found ineffective and inadequate, the contractor shall construct alternative benches or walls in order to rapidly collect the water of the cuts may be.
- 3. SHEETING AND BRACING**
- a. The contractor shall provide all sheeting, bracing and facing necessary or required to perform and protect the excavation work as to safeguard the workmen and the public.
 - b. The contractor shall provide a steel plate covering with a minimum thickness of 1" for all excavations works on national and main streets, and a minimum thickness of 3/4" for all excavation works on the secondary and interior streets to ensure safety of the pedestrians.
 - c. All sheeting and bracing works shall be provided at the expense of the contractor.

 <p>Republic of the Philippines METROPOLITAN WATER DISTRICT 40 J. Alameda Avenue, Naga City</p>	<p>APPROVED BY:</p> <p>SHARMAINE E. BRAGA DCC - DEPT. ENGINEERING</p>	<p>CHECKED BY:</p> <p>SOMBURO MILLARES DCC - DEPT. EED</p>	<p>RECOMMENDING APPROVAL:</p> <p>NOEL A. MARTINEZ, JR. DCC - DEPT. MAINT. & REPAIR</p>	<p>APPROVED BY:</p> <p>FLORENCE T. MONOSBO, JR. General Manager A</p>	<p>PROJECT TITLE/LOCATION:</p> <p>PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Mariposa and Zone 3, Maginhawa Canaan - Zone 6, Barangay Sta. Catalina, Canaan Sta. (Diameter = 632.0mm, Trench D = 540.0mm, Trench W = 1.045.0m) Total length = 2.500.0m</p>	<p>SHEET NO.</p> <p>17</p>
	<p>Specification</p>				<p>DATE BY: 24.07.2024</p>	

4. PIPE AND FITTING LAYING

- a. sPVC (unplasticized polyvinyl chloride) Pipes/Berms, Class 150 with machine installed plastic ring, homogeneously bonded with rubber ring and should conform with ISO standard.
- b. G.U (Galvanized iron) Pipes/Elbows, Heavy Duty, schedule 40 and should conform with ISO standard.
- c. D.I (Ductile Iron) FITTINGS

Relevant characteristics and performance requirements for gate valves, ductile iron body, bronze gate flange and wrench nut, electronically applied fusion bonded epoxy resin coating, stainless steel, ductile iron encapsulated with EPDM-rubber compound wedge, bronze wedge nut, stainless steel 304 hexagon gland bolts, ASTM D2000 form "N" nitrile rubber bronze gasket, open O-ring stem seal, O-ring gland seal with 2 major components (Body and Bonnet).

Relevant characteristics and performance requirements for universal flange adapter with complete bolts, nuts and gaskets - ductile iron body with epoxy resin coating with stainless steel 304 hexagon bolts.

Should conform with ISO standard.

d. C.I (Cast Iron) FITTINGS

Relevant characteristics and performance requirements for universal elbow

Fittings with complete bolts, nuts and gaskets.

Gaskets should be 2 ply neoprene or equivalent.

Should conform with ISO standard

- e. No fabricated fittings/material shall be used/installed unless it has been approved by the Engineer-in-Charge

f. The pipe shall be located/installed within road right-of-way

Any pipe having its grade, alignment or joint disturbed after laying shall be sewer up and raised. No pipe shall be laid either in water or when trench or weather conditions are unsuitable for work. Water shall be kept out of trench until the jacking is completed. When work is not in progress, open ends of pipe and fittings shall be plugged or closed so that no trench water, earth or foreign substances will enter the pipe or fittings.

- g. Pipe under drainage structures and/or culverts shall have reinforced concrete encasement unless otherwise specified by Engineer-in-Charge.

Proper equipment, tools, instruments and facilities satisfactory to the engineer-in-charge shall be provided and used by the contractor for the safe and efficient execution of the work. All pipes, fittings, valves and accessories shall be carefully lowered into the trench by means of suitable equipment and in such manner as to prevent damage to them. Under no circumstances shall pipes or accessories be dropped or cast into the trench, all foreign matter or dirt shall be thoroughly removed from the interior of the pipe and accessories, before lowering into the trench, any defective, damaged or abused pipe shall not be lowered into the trench.

Deflection from a straight line or grade, as required by horizontal curves, vertical curves or offset shall be made with proper bends and elbows.

- h. Install caution/warning tape 30 cm below the natural grade line.

No installation of pipe/fittings shall be done unless excavation has been approved by the Engineer-in-Charge.

5. CONCRETE THRUST BLOCK

- a. Concrete thrust blocks, anchor blocks or wedge joints shall be provided at all junctions, changes in direction exceeding 11 1/2 degrees or when otherwise shown.

TABLE OF MINIMUM THRUST BLOCK BEARING AREAS IN SQUARE METERS FOR PIPE SIZES 50mm TO 600mm Ø

PIPE SIZE mm (In.)	TEE & DEAD END		45 DEG. BEND		72.5 DEG. BEND	
	50 (2")	75 (3")	100 (4")	150 (6")	200 (8")	300 (12")
50 (2")	0.0500	0.0700	0.1000	0.1500	0.2000	0.3000
75 (3")	0.0600	0.0800	0.1100	0.1600	0.2100	0.3100
100 (4")	0.0800	0.1000	0.1300	0.1900	0.2500	0.3500
150 (6")	0.1200	0.1500	0.2000	0.2800	0.3600	0.5000
200 (8")	0.1600	0.2000	0.2600	0.3600	0.4600	0.6000
300 (12")	0.2400	0.3000	0.3900	0.5400	0.7000	0.9000
400 (16")	0.3200	0.4000	0.5200	0.7200	0.9400	1.2000
450 (18")	0.3600	0.4500	0.5800	0.8100	1.0600	1.3500
500 (20")	0.4000	0.5000	0.6400	0.9000	1.1800	1.5000
600 (24")	0.4800	0.6000	0.7600	1.0800	1.4000	1.8000

6. PIPELINE TRENCH BACKFILL

- a. Selected borrow materials having the same equivalent shall be brought up to road diameter of the pipe and compacted, then backfilling at 50mm (2in.) and compacted shall be repeatable done until fully backfilled.

Blasted rock, broken concrete or broken pavement materials and large boulders shall not be used as backfill materials.

- b. Backfill shall be brought to a suitable elevation above grade to provide for anticipated settlement and shrinkage.

When backfill material is not enough, it shall be sourced from outside but must conform with the general condition as materials quality.

- c. Prior to backfilling, a backfilling permit shall be secured from the MMWD Engineer-in-Charge.

7. INSTALLATION OF VALVES AND VALVE BOX COVER

- a. Valves and valve box covers shall be installed as shown on the drawings. Valves shall be set plumb center with valve box cover. Valves shall have the treads cleaned of all foreign matters before installation.



Republic of the Philippines
METROPOLITAN WATER DISTRICT
 48 J. Miranda Avenue, Naga City

PREPARED BY: **SHARMAINE E. BRACIA**
 CIVIL ENGINEER

CHECKED BY: **SONIA D. MELLARES**
 CIVIL ENGINEER

NOEL A. MARTINEZ, JR.
 CIVIL ENGINEER

RECOMMENDING APPROVAL: **ROSEMARIE FRANCISCO**
 CIVIL ENGINEER

APPROVED BY: **FLORENCE T. MORGOSO, JR.**
 General Manager A

PROJECT TITLE/LOCATION: **PROPOSED DISTRIBUTION LINE PROJECT**
 Zone 3 to Zone 4, Barangays San Jose 3, Cagayan, San Jose 4, Cagayan, San Jose 5, Cagayan, San Jose 6, Cagayan, San Jose 7, Cagayan, San Jose 8, Cagayan, San Jose 9, Cagayan, San Jose 10, Cagayan, San Jose 11, Cagayan, San Jose 12, Cagayan, San Jose 13, Cagayan, San Jose 14, Cagayan, San Jose 15, Cagayan, San Jose 16, Cagayan, San Jose 17, Cagayan, San Jose 18, Cagayan, San Jose 19, Cagayan, San Jose 20, Cagayan, San Jose 21, Cagayan, San Jose 22, Cagayan, San Jose 23, Cagayan, San Jose 24, Cagayan, San Jose 25, Cagayan, San Jose 26, Cagayan, San Jose 27, Cagayan, San Jose 28, Cagayan, San Jose 29, Cagayan, San Jose 30, Cagayan, San Jose 31, Cagayan, San Jose 32, Cagayan, San Jose 33, Cagayan, San Jose 34, Cagayan, San Jose 35, Cagayan, San Jose 36, Cagayan, San Jose 37, Cagayan, San Jose 38, Cagayan, San Jose 39, Cagayan, San Jose 40, Cagayan, San Jose 41, Cagayan, San Jose 42, Cagayan, San Jose 43, Cagayan, San Jose 44, Cagayan, San Jose 45, Cagayan, San Jose 46, Cagayan, San Jose 47, Cagayan, San Jose 48, Cagayan, San Jose 49, Cagayan, San Jose 50, Cagayan, San Jose 51, Cagayan, San Jose 52, Cagayan, San Jose 53, Cagayan, San Jose 54, Cagayan, San Jose 55, Cagayan, San Jose 56, Cagayan, San Jose 57, Cagayan, San Jose 58, Cagayan, San Jose 59, Cagayan, San Jose 60, Cagayan, San Jose 61, Cagayan, San Jose 62, Cagayan, San Jose 63, Cagayan, San Jose 64, Cagayan, San Jose 65, Cagayan, San Jose 66, Cagayan, San Jose 67, Cagayan, San Jose 68, Cagayan, San Jose 69, Cagayan, San Jose 70, Cagayan, San Jose 71, Cagayan, San Jose 72, Cagayan, San Jose 73, Cagayan, San Jose 74, Cagayan, San Jose 75, Cagayan, San Jose 76, Cagayan, San Jose 77, Cagayan, San Jose 78, Cagayan, San Jose 79, Cagayan, San Jose 80, Cagayan, San Jose 81, Cagayan, San Jose 82, Cagayan, San Jose 83, Cagayan, San Jose 84, Cagayan, San Jose 85, Cagayan, San Jose 86, Cagayan, San Jose 87, Cagayan, San Jose 88, Cagayan, San Jose 89, Cagayan, San Jose 90, Cagayan, San Jose 91, Cagayan, San Jose 92, Cagayan, San Jose 93, Cagayan, San Jose 94, Cagayan, San Jose 95, Cagayan, San Jose 96, Cagayan, San Jose 97, Cagayan, San Jose 98, Cagayan, San Jose 99, Cagayan, San Jose 100, Cagayan, San Jose 101, Cagayan, San Jose 102, Cagayan, San Jose 103, Cagayan, San Jose 104, Cagayan, San Jose 105, Cagayan, San Jose 106, Cagayan, San Jose 107, Cagayan, San Jose 108, Cagayan, San Jose 109, Cagayan, San Jose 110, Cagayan, San Jose 111, Cagayan, San Jose 112, Cagayan, San Jose 113, Cagayan, San Jose 114, Cagayan, San Jose 115, Cagayan, San Jose 116, Cagayan, San Jose 117, Cagayan, San Jose 118, Cagayan, San Jose 119, Cagayan, San Jose 120, Cagayan, San Jose 121, Cagayan, San Jose 122, Cagayan, San Jose 123, Cagayan, San Jose 124, Cagayan, San Jose 125, Cagayan, San Jose 126, Cagayan, San Jose 127, Cagayan, San Jose 128, Cagayan, San Jose 129, Cagayan, San Jose 130, Cagayan, San Jose 131, Cagayan, San Jose 132, Cagayan, San Jose 133, Cagayan, San Jose 134, Cagayan, San Jose 135, Cagayan, San Jose 136, Cagayan, San Jose 137, Cagayan, San Jose 138, Cagayan, San Jose 139, Cagayan, San Jose 140, Cagayan, San Jose 141, Cagayan, San Jose 142, Cagayan, San Jose 143, Cagayan, San Jose 144, Cagayan, San Jose 145, Cagayan, San Jose 146, Cagayan, San Jose 147, Cagayan, San Jose 148, Cagayan, San Jose 149, Cagayan, San Jose 150, Cagayan, San Jose 151, Cagayan, San Jose 152, Cagayan, San Jose 153, Cagayan, San Jose 154, Cagayan, San Jose 155, Cagayan, San Jose 156, Cagayan, San Jose 157, Cagayan, San Jose 158, Cagayan, San Jose 159, Cagayan, San Jose 160, Cagayan, San Jose 161, Cagayan, San Jose 162, Cagayan, San Jose 163, Cagayan, San Jose 164, Cagayan, San Jose 165, Cagayan, San Jose 166, Cagayan, San Jose 167, Cagayan, San Jose 168, Cagayan, San Jose 169, Cagayan, San Jose 170, Cagayan, San Jose 171, Cagayan, San Jose 172, Cagayan, San Jose 173, Cagayan, San Jose 174, Cagayan, San Jose 175, Cagayan, San Jose 176, Cagayan, San Jose 177, Cagayan, San Jose 178, Cagayan, San Jose 179, Cagayan, San Jose 180, Cagayan, San Jose 181, Cagayan, San Jose 182, Cagayan, San Jose 183, Cagayan, San Jose 184, Cagayan, San Jose 185, Cagayan, San Jose 186, Cagayan, San Jose 187, Cagayan, San Jose 188, Cagayan, San Jose 189, Cagayan, San Jose 190, Cagayan, San Jose 191, Cagayan, San Jose 192, Cagayan, San Jose 193, Cagayan, San Jose 194, Cagayan, San Jose 195, Cagayan, San Jose 196, Cagayan, San Jose 197, Cagayan, San Jose 198, Cagayan, San Jose 199, Cagayan, San Jose 200, Cagayan, San Jose 201, Cagayan, San Jose 202, Cagayan, San Jose 203, Cagayan, San Jose 204, Cagayan, San Jose 205, Cagayan, San Jose 206, Cagayan, San Jose 207, Cagayan, San Jose 208, Cagayan, San Jose 209, Cagayan, San Jose 210, Cagayan, San Jose 211, Cagayan, San Jose 212, Cagayan, San Jose 213, Cagayan, San Jose 214, Cagayan, San Jose 215, Cagayan, San Jose 216, Cagayan, San Jose 217, Cagayan, San Jose 218, Cagayan, San Jose 219, Cagayan, San Jose 220, Cagayan, San Jose 221, Cagayan, San Jose 222, Cagayan, San Jose 223, Cagayan, San Jose 224, Cagayan, San Jose 225, Cagayan, San Jose 226, Cagayan, San Jose 227, Cagayan, San Jose 228, Cagayan, San Jose 229, Cagayan, San Jose 230, Cagayan, San Jose 231, Cagayan, San Jose 232, Cagayan, San Jose 233, Cagayan, San Jose 234, Cagayan, San Jose 235, Cagayan, San Jose 236, Cagayan, San Jose 237, Cagayan, San Jose 238, Cagayan, San Jose 239, Cagayan, San Jose 240, Cagayan, San Jose 241, Cagayan, San Jose 242, Cagayan, San Jose 243, Cagayan, San Jose 244, Cagayan, San Jose 245, Cagayan, San Jose 246, Cagayan, San Jose 247, Cagayan, San Jose 248, Cagayan, San Jose 249, Cagayan, San Jose 250, Cagayan, San Jose 251, Cagayan, San Jose 252, Cagayan, San Jose 253, Cagayan, San Jose 254, Cagayan, San Jose 255, Cagayan, San Jose 256, Cagayan, San Jose 257, Cagayan, San Jose 258, Cagayan, San Jose 259, Cagayan, San Jose 260, Cagayan, San Jose 261, Cagayan, San Jose 262, Cagayan, San Jose 263, Cagayan, San Jose 264, Cagayan, San Jose 265, Cagayan, San Jose 266, Cagayan, San Jose 267, Cagayan, San Jose 268, Cagayan, San Jose 269, Cagayan, San Jose 270, Cagayan, San Jose 271, Cagayan, San Jose 272, Cagayan, San Jose 273, Cagayan, San Jose 274, Cagayan, San Jose 275, Cagayan, San Jose 276, Cagayan, San Jose 277, Cagayan, San Jose 278, Cagayan, San Jose 279, Cagayan, San Jose 280, Cagayan, San Jose 281, Cagayan, San Jose 282, Cagayan, San Jose 283, Cagayan, San Jose 284, Cagayan, San Jose 285, Cagayan, San Jose 286, Cagayan, San Jose 287, Cagayan, San Jose 288, Cagayan, San Jose 289, Cagayan, San Jose 290, Cagayan, San Jose 291, Cagayan, San Jose 292, Cagayan, San Jose 293, Cagayan, San Jose 294, Cagayan, San Jose 295, Cagayan, San Jose 296, Cagayan, San Jose 297, Cagayan, San Jose 298, Cagayan, San Jose 299, Cagayan, San Jose 300, Cagayan, San Jose 301, Cagayan, San Jose 302, Cagayan, San Jose 303, Cagayan, San Jose 304, Cagayan, San Jose 305, Cagayan, San Jose 306, Cagayan, San Jose 307, Cagayan, San Jose 308, Cagayan, San Jose 309, Cagayan, San Jose 310, Cagayan, San Jose 311, Cagayan, San Jose 312, Cagayan, San Jose 313, Cagayan, San Jose 314, Cagayan, San Jose 315, Cagayan, San Jose 316, Cagayan, San Jose 317, Cagayan, San Jose 318, Cagayan, San Jose 319, Cagayan, San Jose 320, Cagayan, San Jose 321, Cagayan, San Jose 322, Cagayan, San Jose 323, Cagayan, San Jose 324, Cagayan, San Jose 325, Cagayan, San Jose 326, Cagayan, San Jose 327, Cagayan, San Jose 328, Cagayan, San Jose 329, Cagayan, San Jose 330, Cagayan, San Jose 331, Cagayan, San Jose 332, Cagayan, San Jose 333, Cagayan, San Jose 334, Cagayan, San Jose 335, Cagayan, San Jose 336, Cagayan, San Jose 337, Cagayan, San Jose 338, Cagayan, San Jose 339, Cagayan, San Jose 340, Cagayan, San Jose 341, Cagayan, San Jose 342, Cagayan, San Jose 343, Cagayan, San Jose 344, Cagayan, San Jose 345, Cagayan, San Jose 346, Cagayan, San Jose 347, Cagayan, San Jose 348, Cagayan, San Jose 349, Cagayan, San Jose 350, Cagayan, San Jose 351, Cagayan, San Jose 352, Cagayan, San Jose 353, Cagayan, San Jose 354, Cagayan, San Jose 355, Cagayan, San Jose 356, Cagayan, San Jose 357, Cagayan, San Jose 358, Cagayan, San Jose 359, Cagayan, San Jose 360, Cagayan, San Jose 361, Cagayan, San Jose 362, Cagayan, San Jose 363, Cagayan, San Jose 364, Cagayan, San Jose 365, Cagayan, San Jose 366, Cagayan, San Jose 367, Cagayan, San Jose 368, Cagayan, San Jose 369, Cagayan, San Jose 370, Cagayan, San Jose 371, Cagayan, San Jose 372, Cagayan, San Jose 373, Cagayan, San Jose 374, Cagayan, San Jose 375, Cagayan, San Jose 376, Cagayan, San Jose 377, Cagayan, San Jose 378, Cagayan, San Jose 379, Cagayan, San Jose 380, Cagayan, San Jose 381, Cagayan, San Jose 382, Cagayan, San Jose 383, Cagayan, San Jose 384, Cagayan, San Jose 385, Cagayan, San Jose 386, Cagayan, San Jose 387, Cagayan, San Jose 388, Cagayan, San Jose 389, Cagayan, San Jose 390, Cagayan, San Jose 391, Cagayan, San Jose 392, Cagayan, San Jose 393, Cagayan, San Jose 394, Cagayan, San Jose 395, Cagayan, San Jose 396, Cagayan, San Jose 397, Cagayan, San Jose 398, Cagayan, San Jose 399, Cagayan, San Jose 400, Cagayan, San Jose 401, Cagayan, San Jose 402, Cagayan, San Jose 403, Cagayan, San Jose 404, Cagayan, San Jose 405, Cagayan, San Jose 406, Cagayan, San Jose 407, Cagayan, San Jose 408, Cagayan, San Jose 409, Cagayan, San Jose 410, Cagayan, San Jose 411, Cagayan, San Jose 412, Cagayan, San Jose 413, Cagayan, San Jose 414, Cagayan, San Jose 415, Cagayan, San Jose 416, Cagayan, San Jose 417, Cagayan, San Jose 418, Cagayan, San Jose 419, Cagayan, San Jose 420, Cagayan, San Jose 421, Cagayan, San Jose 422, Cagayan, San Jose 423, Cagayan, San Jose 424, Cagayan, San Jose 425, Cagayan, San Jose 426, Cagayan, San Jose 427, Cagayan, San Jose 428, Cagayan, San Jose 429, Cagayan, San Jose 430, Cagayan, San Jose 431, Cagayan, San Jose 432, Cagayan, San Jose 433, Cagayan, San Jose 434, Cagayan, San Jose 435, Cagayan, San Jose 436, Cagayan, San Jose 437, Cagayan, San Jose 438, Cagayan, San Jose 439, Cagayan, San Jose 440, Cagayan, San Jose 441, Cagayan, San Jose 442, Cagayan, San Jose 443, Cagayan, San Jose 444, Cagayan, San Jose 445, Cagayan, San Jose 446, Cagayan, San Jose 447, Cagayan, San Jose 448, Cagayan, San Jose 449, Cagayan, San Jose 450, Cagayan, San Jose 451, Cagayan, San Jose 452, Cagayan, San Jose 453, Cagayan, San Jose 454, Cagayan, San Jose 455, Cagayan, San Jose 456, Cagayan, San Jose 457, Cagayan, San Jose 458, Cagayan, San Jose 459, Cagayan, San Jose 460, Cagayan, San Jose 461, Cagayan, San Jose 462, Cagayan, San Jose 463, Cagayan, San Jose 464, Cagayan, San Jose 465, Cagayan, San Jose 466, Cagayan, San Jose 467, Cagayan, San Jose 468, Cagayan, San Jose 469, Cagayan, San Jose 470, Cagayan, San Jose 471, Cagayan, San Jose 472, Cagayan, San Jose 473, Cagayan, San Jose 474, Cagayan, San Jose 475, Cagayan, San Jose 476, Cagayan, San Jose 477, Cagayan, San Jose 478, Cagayan, San Jose 479, Cagayan, San Jose 480, Cagayan, San Jose 481, Cagayan, San Jose 482, Cagayan, San Jose 483, Cagayan, San Jose 484, Cagayan, San Jose 485, Cagayan, San Jose 486, Cagayan, San Jose 487, Cagayan, San Jose 488, Cagayan, San Jose 489, Cagayan, San Jose 490, Cagayan, San Jose 491, Cagayan, San Jose 492, Cagayan, San Jose 493, Cagayan, San Jose 494, Cagayan, San Jose 495, Cagayan, San Jose 496, Cagayan, San Jose 497, Cagayan, San Jose 498, Cagayan, San Jose 499, Cagayan, San Jose 500, Cagayan, San Jose 501, Cagayan, San Jose 502, Cagayan, San Jose 503, Cagayan, San Jose 504, Cagayan, San Jose 505, Cagayan, San Jose 506, Cagayan, San Jose 507, Cagayan, San Jose 508, Cagayan, San Jose 509, Cagayan, San Jose 510, Cagayan, San Jose 511, Cagayan, San Jose 512, Cagayan, San Jose 513, Cagayan, San Jose 514, Cagayan, San Jose 515, Cagayan, San Jose 516, Cagayan, San Jose 517, Cagayan, San Jose 518, Cagayan, San Jose 519, Cagayan, San Jose 520, Cagayan, San Jose 521, Cagayan, San Jose 522, Cagayan, San Jose 523, Cagayan, San Jose 524, Cagayan, San Jose 525, Cagayan, San Jose 526, Cagayan, San Jose 527, Cagayan, San Jose 528, Cagayan, San Jose 529, Cagayan, San Jose 530, Cagayan, San Jose 531, Cagayan, San Jose 532, Cagayan, San Jose 533, Cagayan, San Jose 534, Cagayan, San Jose 535, Cagayan, San Jose 536, Cagayan, San Jose 537, Cagayan, San Jose 538, Cagayan, San Jose 539, Cagayan, San Jose 540, Cagayan, San Jose 541, Cagayan, San Jose 542, Cagayan, San Jose 543, Cagayan, San Jose 544, Cagayan, San Jose 545, Cagayan, San Jose 546, Cagayan, San Jose 547, Cagayan, San Jose 548, Cagayan, San Jose 549, Cagayan, San Jose 550, Cagayan, San Jose 551, Cagayan, San Jose 552, Cagayan, San Jose 553, Cagayan, San Jose 554, Cagayan, San Jose 555, Cagayan, San Jose 556, Cagayan, San Jose 557, Cagayan, San Jose 558, Cagayan, San Jose 559, Cagayan, San Jose 560, Cagayan, San Jose 561, Cagayan, San Jose 562, Cagayan, San Jose 563, Cagayan, San Jose 564, Cagayan, San Jose 565, Cagayan, San Jose 566, Cagayan, San Jose 567, Cagayan, San Jose 568, Cagayan, San Jose 569, Cagayan, San Jose 570, Cagayan, San Jose 571, Cagayan, San Jose 572, Cagayan, San Jose 573, Cagayan, San Jose 574, Cagayan, San Jose 575, Cagayan, San Jose 576, Cagayan, San Jose 577, Cagayan, San Jose 578, Cagayan, San Jose 579, Cagayan, San Jose 580, Cagayan, San Jose 581, Cagayan, San Jose 582, Cagayan, San Jose 583, Cagayan, San Jose 584, Cagayan, San Jose 585, Cagayan, San Jose 586, Cagayan, San Jose 587, Cagayan, San Jose 588, Cagayan, San Jose 589, Cagayan, San Jose 590, Cagayan, San Jose 591, Cagayan, San Jose 592, Cagayan, San Jose 593, Cagayan, San Jose 594, Cagayan, San Jose 595, Cagayan, San Jose 596, Cagayan, San Jose 597, Cagayan, San Jose 598, Cagayan, San Jose 599, Cagayan, San Jose 600, Cagayan, San Jose 601, Cagayan, San Jose 602, Cagayan, San Jose 603, Cagayan, San Jose 604, Cagayan, San Jose 605, Cagayan, San Jose 606, Cagayan, San Jose 607, Cagayan, San Jose 608, Cagayan, San Jose 609, Cagayan, San Jose 610, Cagayan, San Jose 611, Cagayan, San Jose 612, Cagayan, San Jose 613, Cagayan, San Jose 614, Cagayan, San Jose 615, Cagayan, San Jose 616, Cagayan, San Jose 617, Cagayan, San Jose 618, Cagayan, San Jose 619, Cagayan, San Jose 620, Cagayan, San Jose 621, Cagayan, San Jose 622, Cagayan, San Jose 623, Cagayan, San Jose 624, Cagayan, San Jose 625, Cagayan, San Jose 626, Cagayan, San Jose 627, Cagayan, San Jose 628, Cagayan, San Jose 629, Cagayan, San Jose 630, Cagayan, San Jose 631, Cagayan, San Jose 632, Cagayan, San Jose 633, Cagayan, San Jose 634, Cagayan, San Jose 635, Cagayan, San Jose 636, Cagayan, San Jose 637, Cagayan, San Jose 638, Cagayan, San Jose 639, Cagayan, San Jose 640, Cagayan, San Jose 641, Cagayan, San Jose 642, Cagayan, San Jose 643, Cagayan, San Jose 644, Cagayan, San Jose 645, Cagayan, San Jose 646, Cagayan, San Jose 647, Cagayan, San Jose 648, Cagayan, San Jose 649, Cagayan, San Jose 650, Cagayan, San Jose 651, Cagayan, San Jose 652, Cagayan, San Jose 653, Cagayan, San Jose 654, Cagayan, San Jose 655, Cagayan, San Jose 656, Cagayan, San Jose 657, Cagayan, San Jose 658, Cagayan, San Jose 659, Cagayan, San Jose 660, Cagayan, San Jose 661, Cagayan, San Jose 662, Cagayan, San Jose 663, Cagayan, San Jose 664, Cagayan, San Jose 665, Cagayan, San Jose 666, Cagayan, San Jose 667, Cagayan, San Jose 668, Cagayan, San Jose 669, Cagayan, San Jose 670, Cagayan, San Jose 671, Cagayan, San Jose 672, Cagayan, San Jose 673, Cagayan, San Jose 674, Cagayan, San Jose 675, Cagayan, San Jose 676, Cagayan, San Jose 677, Cagayan, San Jose 678, Cagayan, San Jose 679, Cagayan, San Jose 680, Cagayan, San Jose 681, Cagayan, San Jose 682, Cagayan, San Jose 683, Cagayan, San Jose 684, Cagayan, San Jose 685, Cagayan, San Jose 686, Cagayan, San Jose 687, Cagayan, San Jose 688, Cagayan, San Jose 689, Cagayan, San Jose 690, Cagayan, San Jose 691, Cagayan, San Jose 692, Cagayan, San Jose 693, Cagayan, San Jose 694, Cagayan, San Jose 695, Cagayan, San Jose 696, Cagayan, San Jose 697, Cagayan, San Jose 698, Cagayan, San Jose 699, Cagayan, San Jose 700, Cagayan, San Jose 701, Cagayan, San Jose 702, Cagayan, San Jose 703, Cagayan, San Jose 704, Cagayan, San Jose 705, Cagayan, San Jose 706, Cagayan, San Jose 707, Cagayan, San Jose 708, Cagayan, San Jose 709, Cagayan, San Jose 710, Cagayan, San Jose 711, Cagayan, San Jose 712, Cagayan, San Jose 713, Cagayan, San Jose 714, Cagayan, San Jose 715, Cagayan, San Jose 716, Cagayan, San Jose 717, Cagayan, San Jose 718, Cagayan, San Jose 719, Cagayan, San Jose 720, Cagayan, San Jose 721, Cagayan, San Jose 722, Cagayan, San Jose 723, Cagayan, San Jose 724, Cagayan, San Jose 725, Cagayan, San Jose 726, Cagayan, San Jose 727, Cagayan, San Jose 728, Cagayan, San Jose 729, Cagayan, San Jose 730, Cagayan, San Jose 731, Cagayan, San Jose 732, Cagayan, San Jose 733, Cagayan, San Jose 734, Cagayan, San Jose 735, Cagayan, San Jose 736, Cagayan, San Jose 737, Cagayan, San Jose 738, Cagayan, San Jose 739, Cagayan, San Jose 740, Cagayan, San Jose 741, Cagayan, San Jose 742, Cagayan, San Jose 743, Cagayan, San Jose 744, Cagayan, San Jose 745, Cagayan, San Jose 746, Cagayan, San Jose 747, Cagayan, San Jose 748, Cagayan, San Jose 749, Cagayan, San Jose 750, Cagayan, San Jose 751, Cagayan, San Jose 752, Cagayan, San Jose 753, Cagayan, San Jose 754, Cagayan, San Jose 755, Cagayan, San Jose 756, Cagayan, San Jose 757, Cagayan, San Jose 758, Cagayan, San Jose 759, Cagayan, San Jose 760, Cagayan, San Jose 761, Cagayan, San Jose 762, Cagayan, San Jose 763, Cagayan, San Jose 764, Cagayan, San Jose 765, Cagayan, San Jose 766, Cagayan, San Jose 767, Cagayan, San Jose 768, Cagayan, San Jose 769, Cagayan, San Jose 770, Cagayan, San Jose 771, Cagayan, San Jose 772, Cagayan, San Jose 773, Cagayan, San Jose 774, Cagayan, San Jose 775, Cagayan, San Jose 776, Cagayan, San Jose 777, Cagayan, San Jose 778, Cagayan, San Jose 779, Cagayan, San Jose 780, Cagayan, San Jose 781, Cagayan, San Jose 782, Cagayan, San Jose 783, Cagayan, San Jose 784, Cagayan, San Jose 785, Cagayan, San Jose 786, Cagayan, San Jose 787, Cagayan, San Jose 788, Cagayan, San Jose 789, Cagayan, San Jose 790, Cagayan, San Jose 791, Cagayan, San Jose 792, Cagayan, San Jose 793, Cagayan, San Jose 794, Cagayan, San Jose 795, Cagayan, San Jose 796, Cagayan, San Jose 797, Cagayan

8. FIRE HYDRANTS AND BLOW OFFS

- Where no curbs exist, the hydrant/blow-off shall be located within 1.50 meters of the road right-of-way or as directed by the Engineer-in-Charge and barricades shall be installed as shown in the drawing.

9. BRIDGE AND CULVERT CROSSING

- The work shall include furnishing of all materials, labor, tools, equipment and other facilities for the satisfactory performance to complete the bridge and culvert crossing as specified herein.
- Bridge and culvert crossing shall be installed in accordance with the MMWD approved design.
- Steel or G.I. piers shall be painted blue.

10. CONCRETE CUTTING AND BREAKING

- The work shall include furnishing of all labor, tools, equipment and other facilities for the satisfactory performance to complete the concrete cutting and breaking works as specified herein.

11. RESTORATION WORKS

- Furnish all materials, labor, tools, equipment and perform all works necessary as specified herein.
- All damaged roads and driveways, if any, on account of the performance of the work covered by the contract, the same shall be restored into its original condition.
- ASTM ISO type 1 for normal Portland cement, unless the Engineer-in-Charge approved as change.
- Fill aggregate to be used in the composition of concrete shall consist of sand, stone or other inert materials with similar characteristics or a combination thereof being clean, hard, strong, durable, uncoated grains and free from injurious amount of dust, lumps, soft or flaky particles, stains, alkali, organic matter, fern or clay.
- Concrete aggregate shall consist of crushed stones, gravel or other approved inert materials with similar characteristics as the fine aggregate and shall well graded as to maximum size of 1/2" in diameter.
- Cold mix asphalt with emulsifier, unless the Engineer-in-Charge approved as change.
- Class "X" concrete shall consist of one (1) part cement to a total of five (5) parts of the sand and coarse aggregates measured separately.
- Concrete mixing shall be done using one (1) bagper concrete mixer / transit mixer.
- Depositing Concrete
 - Before pouring of concrete, debris shall be removed from space to be occupied by the concrete.
 - During concrete pouring, it shall be thoroughly spalled and compacted by means of a rod.
 - Water shall be removed from excavator pan before concrete is placed.
- Depositing of Asphalt
 - Before pouring of cold mix asphalt, debris shall be removed from cured concrete.
 - Used of vibratory compactor/roller must be observed during compaction of cold mix asphalt.

12. HYDROTESTING

- Furnish all materials, labor, tools, equipment except pressure gauge to be provided by MMWD and perform all unless necessary or specified herein.
- After the pipe have been laid, the joints completed and the trench partly backfilled but with joints exposed for examination, all newly laid pipe or any valved section thereof shall be subjected to a hydrostatic pressure of 150 psi.
- The duration of each pressure test shall be at least two (2) hour unless otherwise specified by the engineer.
- Each section of pipeline shall be slowly filled with water and the specified test pressure, measured at the point of lowest elevation, shall be applied by means of a hydrotesting machine connected to the pipe in manner satisfactory to the engineer. During the filling of the pipe and before applying the test pressure, all air shall be expelled from the pipeline. To accomplish this, taps shall be made, if necessary at points of highest elevation, and after completion of the test, the taps shall be tightly plugged unless otherwise specified.
- During the test of exposed pipes, fittings, valves, hydrants, joints and coupling shall be carefully examined. If found to be cracked or defective, they shall be removed and replaced by the contractor. The test shall be repeated until satisfactory results are obtained.
- Hydrotesting points are indicated in the plans and it should be strictly followed; no further works are allowed before the start of hydrotesting prior to the mentioned work.

13. DISINFECTION

- Furnish all materials, labor, tools, equipment and perform all unless necessary or specified herein.
- Before being placed in service, and before certification of completion by the engineer, all new water mains or extensions to existing systems, or valved section of such extension or any replacement in the existing water system shall be disinfected with chlorine.
- The preferred point of application of the disinfecting agent is at the beginning of the pipeline, extensions, or any valved section and through a corporation stop installed on the top of the newly laid pipe.

14. FLUSHING

- Furnish all materials, labor, tools, equipment and perform all unless necessary or specified herein.
- After chlorination, all tested water shall be thoroughly flushed from newly laid pipeline and replaced with water throughout its entire length. Water sample shall be collected by MMWD for laboratory examination, with cost chargeable to the Contractor until all samples passes the MSDM requirement.

15. AS-BUILT PLAN

- After completion of works, the contractor shall submit a preliminary "As-Built Plan" of the project prior to the conduct of the final inspection of MMWD project Engineer-in-Charge.

Republic of the Philippines METROPOLITAN NAGA WATER DISTRICT 40 J. Mercedes Avenue, Naga City	PREPARED BY: SHARMAINE E. BRACIA DIC - CIVIL, PRC-25	CHECKED BY: SONJIN Q. MILLARES DIC - CIVIL, Mgr. - PAID	RECOMMENDING APPL. APPROVED BY: ROGUE S. FRANCISCO JAL - CIVIL	PROJECT TITLE & LOCATION: PROPOSED DISTRIBUTION LINE PROJECT Zone 3 to Zone 1, Mangayunan and Zone 3, Mangayunan, Caranigan - Zone A, Bantogan, Caranigan, San Jose (Station 0 + 333.14, Station 0 + 543.14, Station 0 + 1,048.14) Total Length = 2,505.14M	SHEET NO. 17 17 As shown (Scale per sheet) 88 - 205
	APPROVED BY: FLORIBERTO T. MONSISO, JR. General Manager A				

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
	100mm Ø D.I. Adaptor, F/M with bng(Adapted to D.I. Gate Valve and D.I. Adaptor)	2	pcs.		
	150mm Ø C.I. Valve Box Cover	1	pc.		
	150mm Ø uPVC Pipe, CL. 150	1	mtr.		
	2. Interconnection B & C				
	100mm Ø x 50mm Ø C.I. Tee Red., F/F/F with bng	2	pcs.		
	100mm Ø D.I. Gate Valve, F/F with bng (Adapted to C.I. Tee & D.I. Adaptor)	2	pcs.		
	100mm Ø D.I. Adaptor, F/M w/ bng	4	pcs.		
	50mm Ø D.I. Gate Valve, F/F with bng (Adapted to C.I. Tee & D.I. Adaptor)	2	pcs.		
	50mm Ø D.I. Adaptor, F/M with bng	2	pcs.		
	150mm Ø C.I. Valve Box Cover	4	pcs.		
	150mm Ø uPVC Pipe, Cl 150	4	mtrs.		
	1m x 1m x 1/4" Thk. Neoprene	1	pc.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
	b. Labor (100mm Ø)	3	units		
	5. FABRICATION & INSTALLATION OF PIPE SUPPORT				
	a. Materials				
	Portland Cement	29	bags		
	Albay Sand	1.5	m ³		
	Crushed Gravel (G-1)	3	m ³		
	Apple Size Boulders	1	m ³		
	12mm Ø x 6m RSB	33	pcs.		
	10mm Ø x 6m RSB	33	pcs.		
	1" Ø G.I. Plug, HD	3	pcs.		
	1" Ø France Coupling, HD	3	pcs.		
	6013 Welding Rod	5	kgs.		
	1m x 1m x 1/4" Thk. Neoprene	1	pc.		
	5/8"Ø x 3" Capscrew with Nut & Washer	25	pcs.		
	Teflon Tape	280	pcs.		
	Tie Wire #16	5	kls.		
	2" x 5mm thk. x 6m Flat Bar	1	pc.		
	6mm thk. x 2" x 4" x 6m Channel Bar	1	pc.		
	1/2" Ø x 4" Capscrew with nut & washer	24	pcs.		
	5/8" Ø x 6" Anchor Bolt	40	pcs.		
	2" x 2" x 6mm thk. Angle Bar	1	pc.		
	2" x 2" x 10' Coco Lumber	23	pcs.		
	2" x 3" x 10' Coco Lumber	5	pcs.		
	4' x 28' x 1/4" thk. Ordinary Plywood	2	pcs.		
	b. Labor of Materials	1	Lot		
	6. FABRICATION AND INSTALLATION OF CULVERT CROSSING				
	a. 100mm Ø	1	unit		
	b. 50mm Ø	2	units		
	7. FABRICATION AND INSTALLATION OF FIRE HYDRANT AND BLOW-OFF WITH CONCRETE BARRICADE AND CONCRETE PAD				
	a. 100mm Ø	1	unit		
	b. 50mm Ø	1	unit		
	8. SAND BEDDING AND SAND COVER				
	a. 100mm Ø	596	Lm		
	b. 50mm Ø	635	Lm		
	9. HYDROTESTING, DISINFECTION AND FLUSHING				
	a. 100mm Ø	1,048	Lm		
	b. 50mm Ø	652	Lm		

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
10.	FINAL BACKFILLING AND COMPACTION				
a.	Trench 100mm Ø	598	Lm		
	50mm Ø	635	Lm		
b.	Bellhole	10	m ²		
c.	Earth Replacement	4	m ²		
11.	FABRICATION OF SAFETY PROTECTORS AND WARNING SIGNS	1,700	Lm		
12.	CONCRETE CUTTING	270	Lm		
13.	CONCRETE BREAKING	15	m ²		
14.	CONCRETE RESTORATION	20.73	m ²		
15.	THRUST BLOCKS INSTALLATION	0.9	m ²		
16.	INTERCONNECTION TO EXISTING WATERLINE				
a.	Materials				
1.	Interconnection I				
	100mm Ø x 75mm Ø C.I. Reducer, F/F w/ bng	1	pc.		
	100mm Ø D.I. Gate Valve, F/F w/ bng (Adapted to C.I. Red. & D.I. Adaptor)	1	pc.		
	100mm Ø D.I. Adaptor, F/M w/ bng	1	pc.		
	75mm Ø C.I. Tee, F/F/M w/ bng	1	pc.		
	75mm Ø D.I. Adaptor, F/M w/ bng	1	pc.		
	75mm Ø x 178mm D.I. Sleeve-type Coupling w/ bng	1	pc.		
	150mm Ø C.I. Valve Box Cover	1	pc.		
	150mm Ø uPVC Pipe, CL. 150	1	mtr.		
	1m x 1m x 1/4" Thk. Neoprene	1	pc.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
2.	Interconnection II				
	100mm Ø C.I. Tee, F/F/M w/ bng	1	pc.		
	100mm Ø D.I. Gate Valve, F/F w/ bng (Adapted to C.I. Tee & D.I. Adaptor)	1	pc.		
	100mm Ø D.I. Adaptor, F/M w/ bng	2	pcs.		
	100mm Ø x 178mm D.I. Sleeve-type Coupling w/ bng	1	pc.		
	150mm Ø C.I. Valve Box Cover	1	pc.		
	150mm Ø uPVC Pipe, Cl 150	1	mtr.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
ii.	ZONE 3 - 1, BARANGAY MANGGAYAWAN, CANAMAN, CAMARINES SUR				
	<u>WORK INCLUDES:</u>				
1.	EXCAVATION				
a.	Trench 50mm Ø	280	Lm		
	75mm Ø	527	Lm		
b.	Bellhole	5	m ³		
2.	INSTALLATION OF PIPES WITH PARTIAL BACKFILLING, COMPACTION, AND WARNING TAPE (50mm Ø)	280	Lm		
	(75mm Ø)	527	Lm		
3.	INSTALLATION OF FITTINGS AND OTHER MATERIALS				
a.	Materials				
	75mm Ø x 6mm thk. X 6m. G.I. Pipe, Schd. 40	2	pcs.		
	75mm Ø x 178mm C.I. Sleeve-Type Coupling with bng	1	pc.		
	75mm Ø x 22.5"mm Ø uPVC Bend, Cl. 150 w/ machine installed	1	pc.		
	Plastic Ring, Homogenously Bonded w/ Rubber Ring				
	50mm Ø x 178mm C.I. Sleeve-Type Coupling with bng	1	pc.		
	50mm Ø x 90° C.I. Elbow, M/M w/ bng	2	pcs.		
	50mm Ø C.I. Tee, M/M/F with bng	1	pc.		
	16mm x 6m RSB (for Dowel)	27	pcs.		
	Madrigal Sand	7.5	m ³		

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
	b. Labor				
	50mm Ø	3	units		
	75mm Ø	1	unit		
4.	INTERCONNECTION				
	a. Materials				
	1. Interconnection A				
	75mm Ø x 50mm Ø C.I. Tee Red., F/F/F with bng	1	pc.		
	75mm Ø D.I. Gate Valve, F/F with bng (Adapted to C.I. Tee and D.I. Adaptor)	1	pc.		
	75mm Ø D.I. Adaptor, F/M w/ bng	2	pcs.		
	50mm Ø D.I. Gate Valve, F/F w/ bng (Adapted to C.I. Tee and D.I. Gate Valve)	1	pc.		
	50mm Ø D.I. Adaptor, F/M w/ bng	1	pc.		
	150mm Ø C.I. Valve Box Cover	2	pcs.		
	150mm Ø uPVC Pipe, Cl. 150	2	mtrs.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
	2. Interconnection B				
	75mm Ø x 50mm Ø C.I. Tee Red., M/M/F with bng	1	pc.		
	50mm Ø D.I. Gate Valve, F/F with bng (Adapted to C.I. Tee and D.I. Gate Valve)	1	pc.		
	50mm Ø D.I. Adaptor, F/M with bng	1	pc.		
	150mm Ø C.I. Valve Box Cover	1	pc.		
	150mm Ø uPVC Pipe, Cl. 150	1	mtr.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
	1m x 1m x 1/4" Thk. Neoprene	1	pc.		
	b. Labor (75mm Ø)	2	units		
5.	FABRICATION AND INSTALLATION OF CULVERT CROSSING				
	a. 50mm Ø	1	unit		
	b. 75mm Ø	3	units		
6.	FABRICATION AND INSTALLATION OF FIRE HYDRANT AND BLOW-OFF WITH CONCRETE BARRICADE AND CONCRETE PAD				
	a. 50mm Ø	1	unit		
	b. 75mm Ø	1	unit		
7.	SAND BEDDING AND SAND COVER				
	a. 50mm Ø	280	Lm		
	b. 75mm Ø	527	Lm		
8.	HYDROTESTING, DISINFECTION AND FLUSHING				
	a. 50mm Ø	280	Lm		
	b. 75mm Ø	540	Lm		
9.	FINAL BACKFILLING AND COMPACTION				
	a. Trench 50mm Ø	280	Lm		
	75mm Ø	527	Lm		
	b. Bellhole	5	m³		
	c. Earth Replacement	3	m³		
10.	FABRICATION OF SAFETY PROTECTORS AND WARNING SIGNS	820	Lm		
11.	CONCRETE CUTTING	200	Lm		
12.	CONCRETE BREAKING	12	m²		
13.	CONCRETE RESTORATION	12	m²		
14.	THRUST BLOCKS INSTALLATION	0.3	m²		

ITEM NO.	DESCRIPTION	QTY.	UNIT	UNIT COST	AMOUNT
15.	INTERCONNECTION TO EXISTING WATERLINE				
	a. Materials				
	1. Interconnection I				
	75mm Ø C.I. Tee, F/F/M with bng	1	pc.		
	75mm Ø D.I. Gate Valve, F/F with bng (Adapted to C.I. Tee & D.I. Adaptor)	1	pc.		
	75mm Ø D.I. Adaptor, F/M with bng	2	pcs.		
	75mm Ø x 178mm C.I. Sleeve-type Coupling with bng	1	pc.		
	150mm Ø C.I. Valve Box Cover	1	pc.		
	150mm Ø uPVC Pipe, Cl. 150	1	mtr.		
	1m x 1m x 1/4" Thk. Neoprene	1	pc.		
	50mm Ø x 3.9mm thk. x 6m. G.I. Pipe, Sch. 40	1	pc.		
	TOTAL				

S

