

# **PHILIPPINE BIDDING DOCUMENTS**

# **Procurement of INFRASTRUCTURE PROJECTS**

Government of the Republic of the Philippines

**PROPOSED CONSTRUCTION OF SLOPE PROTECTION  
(BORED PILES) ALONG KALAMIONG CREEK (STA.  
0+366.49 - STA.0+420.00) IN BARANGAY PAYATAS**

**Project number:  
23-00167**

**Sixth Edition  
July 2020**

# Preface

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

The PBDs are intended as a model for 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: (i) the objectives, scope, and expected outputs and/or results of the proposed contract; (ii) the eligibility requirements of Bidders; (iii) the expected contract duration; and (iv) the obligations, duties, and/or functions of the winning Bidder.

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

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

- a. All the documents listed in the Table of Contents are normally required for the procurement of Infrastructure Projects. However, they should be adapted as necessary to the circumstances of the particular Project.
- b. Specific details, such as the “*name of the Procuring Entity*” and “*address for bid submission*,” should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, BDS, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, and Bill of Quantities are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.
- d. The cover should be modified as required to identify the Bidding Documents as to the names of the Project, Contract, and Procuring Entity, in addition to date of issue.

- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

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# ***Glossary of Terms, Abbreviations, and Acronyms***

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

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

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

**CDA** – Cooperative Development Authority.

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

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

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

**CPI** – Consumer Price Index.

**DOLE** – Department of Labor and Employment.

**DTI** – Department of Trade and Industry.

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

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

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PCAB** – Philippine Contractors Accreditation Board.

**PhilGEPS** - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

**UN** – United Nations.



## ***Section I. Invitation to Bid***

### **Notes on the Invitation to Bid**

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

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

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

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



REPUBLIC OF THE PHILIPPINES  
QUEZON CITY GOVERNMENT

BIDS AND AWARDS COMMITTEE FOR INFRASTRUCTURE & CONSULTANCY

2<sup>nd</sup> floor, Finance Building, Procurement Department, Quezon City Hall Complex, Elliptical Road, Quezon City



October 24, 2023

Invitation to Bid

No.	Project No.	Project Name	Location	Amount	Duration Cal. Days	Office	Source Fund
<b><u>Buildings – Small B</u></b>							
1	23-00156	Proposed Relocation and Upgrading of Service Entrance at Doña Rosario Elementary School	Novaliches Proper	6,104,175.68	90	Department of Engineering	Special Education Fund-Local School Board
2	23-00157	Proposed Rehabilitation of Buildings I and II, Stage and Perimeter Fence at Nick Joaquin Senior High School	Bahay Toro	12,147,998.02	120	Department of Engineering	Special Education Fund-Local School Board
3	23-00158	Proposed Rehabilitation of Quezon City University - San Francisco Campus Gate, Perimeter Fence and School Grounds	Sto. Cristo	13,247,508.06	120	Department of Engineering	Engineering - Continuing
4	23-00159	Proposed Installation of Wet Stand Pipe System and Upgrading of Service Entrance at Project 6 Elementary School	Project 6	16,905,458.56	120	Department of Engineering	Special Education Fund-Local School Board
5	23-00160	Proposed Rehabilitation of seven (7) school Buildings at Dra. Josefa Jara Martinez High School	Tatalon	18,216,061.97	180	Department of Engineering	Special Education Fund-Local School Board
6	23-00161	Proposed Rehabilitation of Admin Building at Quezon City Drug Treatment and Rehabilitation Center	Payatas	23,214,596.70	210	Department of Engineering	20% CDF-Continuing Appropriation
<b><u>Buildings – Medium A</u></b>							
7	23-00162	Proposed Construction of Histopathology, Milk Bank and Microbiology at Rosario Maclang Bautista General Hospital	Batasan Hills	37,857,471.70	240	Engineering Department	20% CDF-Continuing Appropriation
8	23-00163	Proposed Construction of four (4) storey with Roof Deck Multi-Purpose Building	Payatas	56,903,558.87	300	Engineering Department	20% CDF-Continuing Appropriation
9	23-00164	Proposed Improvement of three (3) storey with Mezzanine and Roof Deck of Disaster Risk Reduction and Management Office Building	Central	76,995,908.34	240	Department of Engineering	Engineering - Continuing Appropriation

**Flood Control – Small B**

10	23-00165	Proposed Construction of Retaining Wall at Bayanihan ng Litex Homeowners Association	Commonwealth	9,485,200.41	60	Department of Engineering	LDRRMF Continuing Fund
11	23-00166	Proposed Construction of Box Culvert in Alley 15	Bahay Toro	14,303,221.32	150	Department of Engineering	LDRRMF Continuing Fund

**Flood Control – Medium A**

12	23-00167	Proposed Construction of Slope Protection (Bored Piles) along Kalamiong Creek (Sta. 0+366.49 - Sta. 0+420)	Payatas	77,634,473.61	300	Department of Engineering	LDRRMF Continuing Fund
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**Parks – Small B**

13	23-00168	Proposed Development of Elliptical Road Directional Island at East Avenue Intersection	Pinyahan, Central	7,615,580.69	90	Parks Development & Administration Department	DOTr – Trust Fund
14	23-00169	Proposed Development of Elliptical Road Directional Islands at Quezon Avenue and Visayas Avenue Intersections	Bagong Pag-Asa, Vasra	8,081,214.66	90	Parks Development & Administration Department	DOTr – Trust Fund
15	23-00170	Proposed Landscaping of Bike Lane and Sidewalk Improvement at Elliptical Road (Phase 1)	Pinyahan, Central, Bagong Pag-Asa, Vasra, Old Capitol Site	10,192,589.25	75	Parks Development & Administration Department	DOTr – Trust Fund

**Building – Medium B**

16	23-00172	Proposed Construction of Amoranto Indoor Sports Facility Building and Improvement of Existing Multi-purpose Building at Amoranto Sports Complex, Quezon City	Barangay Paligsahan	269,163,045.25	450	Department of Engineering	Engineering – Continuing Appropriation
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1. The **QUEZON CITY LOCAL GOVERNMENT**, through *funding source of various years* intends to apply the sum stated above being the Approved Budget for the Contract (ABC) to payments under the contract *for the above stated Projects*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **QUEZON CITY LOCAL GOVERNMENT** now invites bids for the above Procurement Project. Completion of the Works is required *as stated above*. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.



4. Interested bidders may obtain further information from **QUEZON CITY LOCAL GOVERNMENT – BAC Secretariat** and inspect the Bidding Documents at the address given below *weekdays from 8:00 am. – 5:00 p.m.*
5. A complete set of Bidding Documents may be acquired by interested bidders on **October 25, 2023 (Wednesday)** from given address and website/s below *and upon payment of a non-refundable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB.* The Procuring Entity shall allow the bidder to present its proof of payment for the fees *presented in person.*

**STANDARD RATES:**

<b>Approved Budget for the Contract</b>	<b>Maximum Cost of Bidding Documents (in Philippine Peso)</b>
500,000 and below	500.00
More than 500,000 up to 1 Million	1,000.00
More than 1 Million up to 5 Million	5,000.00
More than 5 Million up to 10 Million	10,000.00
More than 10 Million up to 50 Million	25,000.00
More than 50 Million up to 500 Million	50,000.00
More than 500 Million	75,000.00

The following are the requirements for purchase of Bidding Documents;

1. PhilGEPS Registration Certificate (Platinum – 3 Pages)
2. Document Request List (DRL)
3. Authorization to purchase bidding documents
  - 3.1 Secretary's Certificate (for corporation)
  - 3.2 Special Power of Attorney (for sole proprietorship)
4. Notarized Joint Venture Agreement (if applicable)
5. Letter of Intent

It must be duly received by the BAC Secretariat at 2<sup>nd</sup> Floor, Procurement Department, Finance Building, Quezon City Hall Compound.

6. The **QC- BAC- INFRASTRUCTURE & CONSULTANCY** will hold a Pre-Bid Conference<sup>1</sup> on **November 06, 2023 at 9:30 AM at 2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP)** which shall be open to prospective bidders.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 854 9489 0133**

**Password: 273320**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below, on or before **November 28, 2023 – 9:00 AM.** 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.**

<sup>1</sup> May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a pre-bid conference.

9. Bid opening shall be on **November 28, 2023 – 10:00 AM** at **2<sup>nd</sup> Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or via Zoom. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

**Virtual Conference (ZOOM APP)**

**Meeting ID: 810 3646 5257**

**Password: 201522**

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

**ATTY. DOMINIC B. GARCIA**

OIC, Procurement Department

2<sup>nd</sup> Floor, Procurement Department,

Finance Building, Quezon City Hall Compound

Elliptical Road, Barangay Central Diliman, Quezon City.

Tel. No. (02)8988-4242 loc. 8506/8710


Email Add: [bacinfra.procurement@quezoncity.gov.ph](mailto:bacinfra.procurement@quezoncity.gov.ph)

Website: [www.quezoncity.gov.ph](http://www.quezoncity.gov.ph)

12. You may visit the following websites:

For downloading of Bidding Documents: <https://quezoncity.gov.ph/public-notice/procurement/>

By:

  
**ARCH. LUCILLE H. CHUA, fuap, piep**  
Chairperson, BAC-Infra and Consultancy

## ***Section II. Instructions to Bidders***

### **Notes on the Instructions to Bidders**

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

## 1. Scope of Bid

The Procuring Entity, **Quezon City Government** invites Bids for the **PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+366.49 - STA.0+420.00) IN BARANGAY PAYATAS**, with Project Identification Number **23-00167**.

*[Note: The Project Identification Number is assigned by the Procuring Entity based on its own coding scheme and is not the same as the PhilGEPS reference number, which is generated after the posting of the bid opportunity on the PhilGEPS website.]*

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

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2023** in the amount of **Seventy-Seven Million Six Hundred Thirty-Four Thousand Four Hundred Seventy-Three Pesos and 61/100 Cts. (77,634,473.61)**.

2.2. The source of funding is:

a. LGUs, the Annual or Supplemental Budget, as approved by the Sanggunian.

## 3. Bidding Requirements

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

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

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

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

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or

through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## **5. Eligible Bidders**

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

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

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

## **6. Origin of Associated Goods**

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

## **7. Subcontracts**

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

The Procuring Entity has prescribed that:

### **a. Subcontracting is not allowed.**

- 7.1. *[If Procuring Entity has determined that subcontracting is allowed during the bidding , state:]* The Bidder must submit together with its Bid the documentary requirements of the subcontractor(s) complying with the eligibility criterial stated in **ITB** Clause 5 in accordance with Section 23.4 of the 2016 revised IRR of RA No. 9184 pursuant to Section 23.1 thereof.
- 7.2. *[If subcontracting is allowed during the contract implementation stage, state:]* The Supplier may identify its subcontractor during the contract implementation stage. Subcontractors identified during the bidding may be changed during the



implementation of this Contract. Subcontractors must submit the documentary requirements under Section 23.1 of the 2016 revised IRR of RA No. 9184 and comply with the eligibility criteria specified in **ITB** Clause 5 to the implementing or end-user unit.

- 7.3. Subcontracting of any portion of the Project does not relieve the Contractor of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen as fully as if these were the Contractor's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

## **8. Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address on **November 06, 2023, 09:30 A.M. at 2nd Floor, Procurement Department-Bidding Room, Finance Building, Quezon City Hall Compound** and/or we encourage the prospective bidders to join through our **Virtual Conference (ZOOM APP) Meeting ID: 854 9489 0133 Password: 273320**

## **9. Clarification and Amendment of Bidding Documents**

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

## **10. Documents Comprising the Bid: Eligibility and Technical Components**

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

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

## **11. Documents Comprising the Bid: Financial Component**

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

## **12. Alternative Bids**

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

## **13. Bid Prices**

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

## **14. Bid and Payment Currencies**

- 14.1. Bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.
- 14.2. *Payment of the contract price shall be made in:*
  - a. Philippine Pesos.

## **15. Bid Security**

- 15.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 15.2. The Bid and bid security **in no case shall exceed One Hundred Twenty (120) calendar days from the date of opening of bids, unless duly extended by the bidder upon the request of the Head of the Procuring Entity (HoPE) of the Quezon City Local Government**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

## **16. Sealing and Marking of Bids**

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

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

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

## **17. Deadline for Submission of Bids**

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph **5** of the **IB**.

## **18. Opening and Preliminary Examination of Bids**

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

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

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

## **19. Detailed Evaluation and Comparison of Bids**

- 19.1. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*" using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, all Bids and combinations of Bids as indicated in the **BDS** shall be received by the same deadline and opened and evaluated simultaneously so as to determine the Bid or combination of Bids offering the lowest calculated cost to the Procuring Entity. Bid Security as required by **ITB** Clause 15 shall be submitted for each contract (lot) separately.
- 19.3. In all cases, the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184 must be sufficient for the total of the ABCs for all the lots participated in by the prospective Bidder.

## **20. Post Qualification**

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

## **21. Signing of the Contract**

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

## ***Section III. Bid Data Sheet***

### **Notes on the Bid Data Sheet (BDS)**

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

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

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

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

# Bid Data Sheet

ITB Clause																																											
5.2	For this purpose, similar contracts shall refer to contracts which have the same major categories of work.																																										
7.1	<b>Subcontracting is not allowed.</b>																																										
10.3	<i>No additional contractor license or permit is required</i>  <b><i>In addition, eligible bidders shall qualify or comply with the following:</i></b>  1. Bidders with valid Philippine Contractors Accreditation Board (PCAB)  Type  <b>Flood Control - Medium A</b>																																										
10.4	<table><tr><td colspan="4">The minimum work experience requirements for key personnel are the following:</td></tr><tr><td>Qty.</td><td>Key Personnel</td><td>General Experience</td><td>Relevant Experience</td></tr><tr><td>1</td><td>Project Engineer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>General Foreman</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Trade Engineers/ Leadman for Civil Works</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>Safety Officer</td><td>3 years</td><td>3 years</td></tr><tr><td>1</td><td>DPWH Duly Accredited Materials Engineer</td><td>3 years</td><td>3 years</td></tr></table> <b><i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing personnel shall perform work exclusively for the project until its completion. Please see attached bid forms.</i></b>	The minimum work experience requirements for key personnel are the following:				Qty.	Key Personnel	General Experience	Relevant Experience	1	Project Engineer	3 years	3 years	1	General Foreman	3 years	3 years	1	Trade Engineers/ Leadman for Civil Works	3 years	3 years	1	Safety Officer	3 years	3 years	1	DPWH Duly Accredited Materials Engineer	3 years	3 years														
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	One Bagger Mixer 1 Concrete Vibrator 1 Welding Machine 1 Bentonite Bin 1 Bentonite Mixer 1 Air Compressor, Portable 1  <i>In addition, the bidder must execute an affidavit of undertaking duly notarized stating that the foregoing equipment shall be used exclusively for the project until its completion. Please see attached bid forms.</i>
12	<i>[Insert Value Engineering clause if allowed.]</i>
15.1	The bid security shall be in the form of a Bid Securing Declaration with project number, or any of the following forms and amounts:  a) The amount of not less than Php 1,552,689.47 or equivalent to two percent (2%) of ABC if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or  b) The amount of not less than Php 3,881,723.68 or equivalent to five percent (5%) of ABC if bid security is in Surety Bond.
19.2	<b>Partial bid is not allowed.</b> The infrastructure project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.
20	No additional requirement.
21	<b>Additional Contract Documents relevant to the Project as required:</b> <b>1. Construction Schedule and S-curve,</b> <b>2. Manpower Schedule,</b> <b>3. Construction Methods,</b> <b>4. Equipment Utilization Schedule,</b> <b>5. PERT/CPM or other acceptable tools of project scheduling, shall be included in the submission of Technical Proposal.</b>

## ***Section IV. General Conditions of Contract***

### **Notes on the General Conditions of Contract**

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

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

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.



## **1. Scope of Contract**

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

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

## **2. Sectional Completion of Works**

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

## **3. Possession of Site**

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

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

## **4. The Contractor's Obligations**

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

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

## **5. Performance Security**

- 5.1. Within ten (10) calendar days from receipt of the Notice of Award from the Procuring Entity but in no case later than the signing of the contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR.
- 5.2. The Contractor, by entering into the Contract with the Procuring Entity, acknowledges the right of the Procuring Entity to institute action pursuant to RA No. 3688 against any subcontractor be they an individual, firm, partnership, corporation, or association supplying the Contractor with labor, materials and/or equipment for the performance of this Contract.

## **6. Site Investigation Reports**

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

## **7. Warranty**

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

## **8. Liability of the Contractor**

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

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

## **9. Termination for Other Causes**

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

## **10. Dayworks**

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

## **11. Program of Work**

- 11.1. The Contractor shall submit to the Procuring Entity’s Representative for approval the said Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works. The submissions of the Program of Work are indicated in the **SCC**.
- 11.2. The Contractor shall submit to the Procuring Entity’s Representative for approval an updated Program of Work at intervals no longer than the period stated in the **SCC**. If the Contractor does not submit an updated Program of Work within this period, the Procuring Entity’s Representative may withhold the amount stated in the **SCC** from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program of Work has been submitted.

## **12. Instructions, Inspections and Audits**

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

## **13. Advance Payment**

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

## **14. Progress Payments**

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

## **15. Operating and Maintenance Manuals**

- 15.1. If required, the Contractor will provide “as built” Drawings and/or operating and maintenance manuals as specified in the **SCC**.

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

## ***Section V. Special Conditions of Contract***

### **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 found in Section IV.

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

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

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

# Special Conditions of Contract

GCC Clause	
2	Completion of work shall be within 300 calendar days.
4.1	The Procuring Entity shall give possession of all parts of the Site to the Contractor upon receipt of the Notice to Proceed.
6	The site investigation reports are: <i>[list here the required site investigation reports.]</i>
7.2	<p><i>[Select one, delete the other.]</i></p> <p><i>[In case of permanent structures, such as buildings of types 4 and 5 as classified under the National Building Code of the Philippines and other structures made of steel, iron, or concrete which comply with relevant structural codes (e.g., DPWH Standard Specifications), such as, but not limited to, steel/concrete bridges, flyovers, aircraft movement areas, ports, dams, tunnels, filtration and treatment plants, sewerage systems, power plants, transmission and communication towers, railway system, and other similar permanent structures:]</i> Fifteen (15) years.</p> <p><i>[In case of semi-permanent structures, such as buildings of types 1, 2, and 3 as classified under the National Building Code of the Philippines, concrete/asphalt roads, concrete river control, drainage, irrigation lined canals, river landing, deep wells, rock causeway, pedestrian overpass, and other similar semi-permanent structures:]</i> Five (5) years.</p> <p><i>[In case of other structures, such as bailey and wooden bridges, shallow wells, spring developments, and other similar structures:]</i> Two (2) years.</p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
13	The amount of the advance payment is no more that fifteen percent (15%) of the Contract Price subject to approval by the HOPE and compliance with the conditions under RA 9184 and its IRR.
14	No further instructions.
15.1	<p>The date by which operating and maintenance manuals are required is <i>thirty (30) days</i></p> <p>The date by which "as built" drawings are required as part of final payment</p>
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is ten (10%) percent of the contract price.

## ***Section VI. Specifications***

### **Notes on Specifications**

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

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

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

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

#### **Sample Clause: Equivalency of Standards and Codes**

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted

subject to the Procuring Entity's Representative's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Procuring Entity's Representative at least twenty-eight (28) days prior to the date when the Contractor desires the Procuring Entity's Representative's consent. In the event the Procuring Entity's Representative determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

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





**PROJECT TITLE :** PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES)  
ALONG KALAMIONG CREEK (STA. 0+366.49 – STA. 0+420.00) IN  
BARANGAY PAYATAS

**LOCATION :** BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

## **TECHNICAL SPECIFICATIONS**

### **I. GENERAL REQUIREMENTS**

- A. Comply with the current and existing laws, ordinances and applicable codes, rules and regulations, and standards. Any works performed contrary to the existing laws, rules and regulations, ordinances and standards without notice shall bear all cost arising therefrom.
- B. Drawings, specifications, codes and standards are minimum requirements. Where requirements differ, the more stringent apply.
- C. Should there be any change(s) in drawings or specifications, it is required to comply with the governing regulations, notify the implementing agency.
- D. Photographs shall be taken as, when and where directed at intervals of not more than one month. The photographs shall be sufficient in number and location, to record the exact progress of the works. The photographs shall be retained and will become the property of the Government.
- E. Site verification / inspection shall be conducted to validate the scope of works. No extra compensation and extension of time shall be given due to negligence or inadvertence.
- F. The quality of materials shall be of the best grade of their respective kinds for the purpose. The work shall also be performed in the best and most capable manner in strict accordance with requirements of the plans and details. All materials not conforming to the requirements of these specifications shall be considered as defective.
- G. All equipment and installations shall meet or exceed minimum requirements of the standards and codes.
- H. Mobilization and Demobilization (If applicable)
  1. Mobilization shall include all activities and related costs for transportation of personnel, equipment, and operating supplies to the site, establishment of offices, buildings, and other necessary general facilities for the operations at the site.
  2. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not anymore required within the construction site including the disassembly, removal and site clean-up of offices and other facilities assembled on the site specifically for this contract.
- I. Execute work in strict accordance with the best practices of the trades in a thorough, substantial, workmanlike manner by competent workmen. Provide a competent, experienced, full-time supervisor who is authorized to make decisions on behalf of the Contractor.
- J. Temporary Facilities and Utilities
  1. All facilities shall be near the job site, where necessary and shall conform to the best standard for the required types.
  2. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.

2. Temporary facilities shall be provided and maintained including sanitary facilities and first aid stations.
  3. Temporary utilities shall be sufficiently provided until the completion of the project such as water, power and communication
  4. Temporary enclosure shall be provided around the construction site with adequate guard lights, railings and proper signage.
  5. Temporary roadways shall be constructed and maintained to sustain loads to be carried on them during the entire construction period.
  6. Upon completion of the work, the temporary facilities shall be demolished, hauled-out and disposed properly.
- K. Adequate construction safety and health protection shall be provided at all times during the execution of work to both workers and property.
1. A fully-trained Medical Aide shall be employed permanently on the site who shall be engaged solely to medical duties.
  2. The medical room shall be provided with waterproofing, it could be a building or room designated and used exclusively for the purpose and have a floor area of at least 15 square meters and a glazed window area of at least 2 square meters.
  3. The location of the medical room and any other arrangements shall be made known to all employees by posting on prominent locations and suitable notices in the site.
  4. Additional safety precautions shall be provided in the event of a pandemic. Protocols set forth by the government shall be strictly followed.
  5. Construction safety shall consist of construction canopy and safety net
- L. Necessary protections to the adjacent property shall be provided to avoid untoward incidents / accidents
- M. Final cleaning of the work shall be employed prior to the final inspection for the certification of final acceptance. Final cleaning shall be applied on each surface or unit of work and shall be of condition expected for a building cleaning and maintenance program

## II. SITE WORKS

- A. All grades, lines, levels and dimensions shall be verified as indicated on the plans and details. Any discrepancies or inconsistencies shall be reported before commencing work
- B. This item shall consist of the removal wholly or in part, and satisfactory disposal of all buildings, fences, structures, old pavements, abandoned pipe lines, and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the Contract.

Removal and/or demolition of existing structures shall be done in accordance to safety procedures.

- C. All excavations shall be made to grade as indicated in the plans. Whenever water is encountered in the excavation process, it shall be removed by pumping, care being taken that the surrounding soil particles are not disturbed or removed

The Contractor shall notify the Engineer sufficiently in advance of the beginning of any excavation so that cross-sectional elevations and measurements may be taken on the undisturbed ground. The natural ground adjacent to the structure shall not be disturbed without permission of the Engineer

Trenches or foundation pits for structures or structure footings shall be excavated to the lines and grades or elevations shown on the Plans or as staked by the Engineer. They shall be of sufficient size to permit the placing of structures or structure footings of the full width and length shown. The elevations of the bottoms of footings, as shown on the Plans, shall

be considered as approximate only and the Engineer may order, in writing, such changes in dimensions or elevations of footings as may be deemed necessary, to secure a satisfactory foundation.

Boulders, logs, and other objectionable materials encountered in excavation shall be removed.

After each excavation is completed, the Contractor shall notify the Engineer to that effect and no footing, bedding material or pipe culvert shall be placed until the Engineer has approved the depth of excavation and the character of the foundation material.

- D. All excavated materials, so far as suitable, shall be utilized as backfill. The surplus materials shall be disposed of in such manner as not to obstruct the stream or otherwise impair the efficiency or appearance of the structure. No excavated materials shall be deposited at any time so as to endanger the partly finished structure.

All backfills shall be placed in layers not exceeding to 150mm in thickness and each layer shall be thoroughly compacted by wetting, tamping and rolling.

- E. Soil Poisoning. There are two methods usually adopted in soil poisoning which are as follows:

1. Cordoning. This method is usually adopted when there is no visible evidence of termite infestation. Trenches in concentric circles, squares or rectangles are dug 150mm to 220mm wide and at least one meter apart and applied with Liquid Termiticide Concentrate working solution at the rate of 8 liters per linear meter.
2. Drenching. When soil show termite infestation, this method shall be applied. The building area shall be thoroughly drenched with Liquid Termiticide Concentrate working solution at the rate of 24 liters per square meter.

### III. CIVIL / STRUCTURAL WORKS

#### A. CONCRETE WORKS

1. Delivery, Storage, and Handling. All materials shall be so delivered, stored, and handled as to prevent the inclusion of foreign materials and the damage of materials by water or breakage. Package materials shall be delivered and stored in original packages until ready to be used. Packages or materials showing evidence of water or other damage shall be rejected.
2. Unless otherwise specified herein, concrete works shall conform to the requirements of the ACI Building Code. Full cooperation shall be given on trades to install embedded items. Provisions shall be made for setting items not placed in the forms. Before concrete is placed, embedded items shall have been inspected and tested for concrete aggregates and other materials shall have been done.
3. Materials
  - a. Cement for concrete shall conform to the requirements of specifications for Portland Cement (ASTM C – 150).
  - b. Water used in mixing concrete shall be clean and free from other injurious amounts of oils, acids, alkaline, organic materials or other substances that may be deleterious to concrete or steel.
  - c. Fine aggregates shall be beach or river sand conforming to ASTM C33, "Specification for Concrete Aggregates". Sand particle shall be coarse, sharp, clean free from salt, dust, loam, dirt and all foreign matters.
  - d. Coarse aggregates shall be either natural gravel or crushed rock conforming to the "Specifications for Concrete Aggregates (ASTM C33). The minimum size of aggregates shall be larger than one fifth (1/5) of the narrowest dimensions between sides of the forms within which the concrete is to be cast nor larger than three fourths (3/4) of the minimum clear spacing between reinforcing bars or between reinforcing bars and forms.

#### 4. Proportioning and Mixing

- a. Proportioning and mixing of concrete shall conform to the requirements for Item 405 of the standard specification with the following proportions:

Cement: Sand: Gravel

Class "A" - 1: 2: 3

Class "B" - 1: 2: 4

Class "C" - 1: 2 ½

- b. Concrete mixture to be used for concrete shall conform with the structural requirements.
- c. Mixing – concrete shall be machine mixed. Mixing shall begin within 30 minutes after the cement has been added to the aggregates.

#### 5. Forms

- a. General – Forms shall be used whatever necessary to confine the concrete and shape it to the required lines, or to insure the concrete of contamination with materials caving from adjacent excavated surfaces. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss of mortar from the concrete. Forms shall be ¾" (6mm) thick ordinary plywood and form lumber.
- b. Cleaning of Forms – before placing the concrete, the contact surfaces of the formed shall be cleaned of encrustations of mortar, the grout or other foreign material.
- c. Removal of Forms – forms shall be removed in a manner which will prevent damage to the concrete. Forms shall not be removed without approval. Any repairs of surface imperfections shall be formed at once and along shall be started as soon as the surface is sufficiently hard to permit it without further damage.

#### 6. Placing Reinforcement:

Steel reinforcement shall be provided as indicated, together with all necessary tie wires, chairs, spacers, supports and other devices necessary to install and secure the reinforcement properly. All reinforcement, when placed, shall be free from loose, flaky rust and scale, oil, grease, clay and other coating and foreign substances that would reduce or destroy its bond with concrete. Reinforcement shall be placed accurately and secured in place by use of metal or concrete supports, spacers and ties. Such supports shall be used in such manner that they will not be exposed or contribute in any way, to the discoloration or deterioration of the concrete.

#### 7. Conveying and Placing Concrete:

- a. Conveying – concrete shall be conveyed from mixer to forms as rapidly as applicable, by methods which will prevent segregation, or loss of ingredients. There will be no vertical drop greater than 1.5 meters except where suitable equipment is provided to prevent segregation and where specifically authorized.
- b. Placing – concrete shall be worked readily into the corners and angles of the forms and around all reinforcement and imbedded items without permitting the material to segregate, concrete shall be deposited as close as possible to its final position in the forms so that flow within the mass does not exceed two (2) meters and consequently segregation is reduced to a minimum near forms or embedded items, or elsewhere as directed, the discharge shall be so controlled that the concrete may be effectively compacted into horizontal layers not exceeding 30 centimeters in depth within the maximum lateral movement specified.
- c. Time interval between mixing and placing. Concrete shall be placed before initial set has occurred and before it has contained its water content for more

than 45 minutes. No concrete mix shall be placed before 60 complete revolution of the machine mixer.

- d. Consolidation of Concrete – concrete shall be consolidated with the aid of mechanical vibrating equipment and supplemented by the hand spading and tamping. Vibrators shall not be inserted into lower course that have commenced initial set; and reinforcement embedded in concrete beginning to set or already set shall not be disturbed by vibrators. Consolidation around major embedded parts shall be by hand spading and tamping and vibrators shall not be used.
- e. Placing Concrete through reinforcement – In placing concrete through reinforcement, care shall be taken that no segregation of the coarse aggregate occurs. On the bottom of beams and slabs, where the congestion of steel near the forms makes placing difficult, a layer of mortar of the same cement-sand ratios as used in concrete shall be first deposited to cover the surfaces.

#### 8. Curing

- a. General – All concrete shall be moist cured for a period not less than seven (7) consecutive days by an approved method or combination applicable to local conditions.
- b. Moist Curing – The surface of the concrete shall be kept continuously wet by covering with burlap plastic or other approved materials thoroughly saturated with water and keeping the covering spraying or intermittent hosing.

#### 9. Finishing

- a. Concrete surfaces shall not be plastered unless otherwise indicated. Exposed concrete surfaces shall be formed with plywood, and after removal of forms, the surfaces shall be smooth, true to line and shall present a finished appearance except for minor defects which can be easily repaired with patching with cement mortar, or can be ground to a smooth surface to remove all joint marks of the form works.
- b. Concrete Slabs on Fill The concrete slabs on fill shall be laid on a prepared foundation consisting of sub grade and granular fill with thickness equal to the thickness of the overlaying slab except when indicated.

  
**ENGR. ALDWIN T. LAGUNDINO**  
 Planning and Design Division

  
**ENGR. MARILEN F. COMENDADOR**  
 Planning and Design Division

## ***Section VII. Drawings***

*[Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section, or annexed in a separate folder.]*



2 LOCATION MAP

SCALE: NTS



1 VICINITY MAP

SCALE: NTS



3 SITE DEVELOPMENT PLAN

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	(STA. 0+400.00)		
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	SPOT DETAIL 'Z'		



Republic of the Philippines  
Department of Engineering  
Civil Engineering Division Office  
Quezon City  
Project No. 001-2000-0000

PROJECT TITLE:  
PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMONG CREEK (STA. 0+00.00 -  
STA. 0+400.00) IN SARANGAY PAYATAS

LOCATION:  
BPOF, PAYATAS, DISTRICT 2, QUEZON CITY

DATE:  
DESIGNED BY:  
KALAMONG CREEK  
DIV. ENGINEER  
CHECKED BY:  
REASONING:

SUBMITTED BY:  
RECOMMENDING APPROVAL:  
ENGR. FREDERICK A. DE GUZMAN  
PRIN. PLANNING & DESIGN DIVISION

APPROVED BY:  
ENGR. ROBERT L. DELTRAN  
CH. ENGINEER

APPROVED BY:  
HON. MA. JOSEFINA G. BELMONTA  
CITY ENGINEER

SHEET CONTENT:  
TABLE OF CONTENTS  
MAP OF THE PROPOSED  
VICINITY MAP  
LOCATION MAP

SHEET NO.  
G-01  
01 21



## ABBREVIATIONS

[illegible]

1	ABBREVIATIONS
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Department of Engineering  
 University of Guelph  
 Guelph, Ontario N1G 2W1  
 Canada  
 Tel: 519-824-4131  
 Fax: 519-824-4132  
 Email: [engr@uoguelph.ca](mailto:engr@uoguelph.ca)

PROJECT TITLE :	DATE :		SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED BY :	ENRIT COMPLIANT :	ENRIT NO. :
PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMONG CREEK (STA.0+366.48 - STA.0+426.30) IN BARANGAY PAYATAS	DESIGNED BY :  ALVIN C. NAVARRO CIVIL ENGINEER	CHECKED BY :  ENGR. FREDWIN D. DE GUZMAN CIVIL ENGINEER	 ENGR. FREDWIN D. DE GUZMAN HEAD, PLANNING & DESIGN DIVISION	 ENGR. ROBERT L. BELTRAY CHIEF ENGINEER OF THE BUREAU	 HON. MA. JOSEFINA O. BELMONTE CITY MAYOR	APPROVAL STAMP	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border-bottom: 1px solid black; width: 100%; text-align: center;">G-02</div> <div style="width: 100%; text-align: center;">02 21</div> </div>
LOCATION : BSPV, PAYATAS, DISTRICT 3, DAVAO CITY	REVISIONS :						



# GENERAL NOTES

## A. GENERAL

1. ALL WORKING AND MATERIALS SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS OF THIS PROJECT. ANY ITEM OR MATERIAL NOT SPECIFIED IN THE TECHNICAL SPECIFICATIONS SHALL COMPLY WITH THE FOLLOWING NOTES AND RELATED CODE REQUIREMENTS FOR CONCRETE AND REINFORCEMENT DETAILS.
2. CONSTRUCTION DETAILS AND TYPICAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY ONLY AS DIRECTED BY THE STRUCTURAL ENGINEER.
3. THE CONTRACTOR SHALL SUBMIT ALL NECESSARY FABRICATION SHOP DRAWINGS INDICATING THE PLANT LAYOUT, SECTION PLANS, EMBEDDED TIE-BARS, TYPICAL CHAIRS AND OTHER APPROPRIATE FOR APPROVAL OF THE ENGINEER PRIOR TO START OF CONSTRUCTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE BRACING OF THE STRUCTURES FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
5. IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DIMENSIONS ON SLICES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

## B. DESIGN CRITERIA

### 1. DESIGN SPECIFICATIONS

- 1.1 NATIONAL STRUCTURAL CODE OF THE PHILIPPINES, VOL. 1: 1988, 2ND EDITION, 2001.
- 1.2 THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10, 10TH EDITION, 2010.
- 1.3 AASHTO HIGHWAY BRIDGE DESIGN GUIDELINES.
- 1.4 AMERICAN CONCRETE INSTITUTE (ACI) 308-10, 10TH EDITION, 2010.
- 1.5 DESIGN MANUAL ON DESIGN OF FLOOD CONTROL STRUCTURES.
- 1.7 DESIGN CODES AND STANDARDS.

### 2. HYDRAULIC

#### 2.1 DESIGN PARAMETERS FOR DESIGN FLOOD FLOODING

STATION	FLOODING CRITERIA			CATCHMENT AREA (HA)
	SPILLWAY	CHUTE	WALL	
STATION 0+00	10'	10'	10'	1.00
STATION 0+100	10'	10'	10'	1.00

## C. MATERIALS

### 1. CONCRETE AND REINFORCEMENT

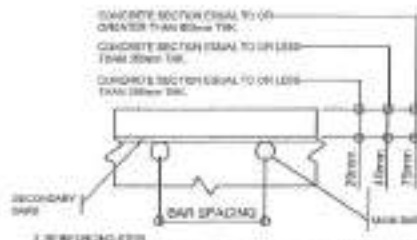
- 1.1 ALL CONCRETE SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH AT THE END OF 28 DAYS WITH COMPRESSIVE STRENGTH NOT TO BE REDUCED AND SLABS AS FOLLOWS:

LOCATION	COMPRESSIVE STRENGTH (MPa)	MAX. SIZE (mm)	MAX. SL. BAY
SLAB ON GROUND	20 MPa (2900 psi)	20 mm (3/4")	100 mm
FOUNDATION	20 MPa (2900 psi)	20 mm (3/4")	100 mm
COLUMN, PILE, WALL, ETC.	20 MPa (2900 psi)	20 mm (3/4")	100 mm
REINFORCING BARS	20 MPa (2900 psi)	20 mm (3/4")	100 mm

- 1.2 SUPPORTING OF CONCRETE SHALL NOT BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER AND ONLY FOR LIMITED CONDITIONS. VIBRATORS SHALL BE USED TO PREVENT SEGREGATION.

- 1.3 UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED, THE MAXIMUM MAXIMUM AGGREGATE SIZE IN CONCRETE SHALL BE AS FOLLOWS:

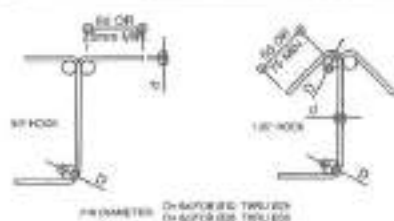
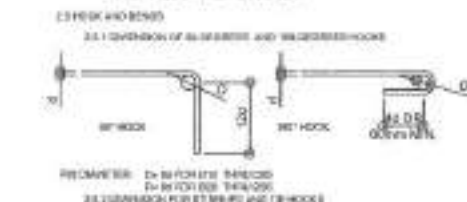
- 1.3.1 19 mm for concrete in walls, slabs, and footings.
- 1.3.2 19 mm for concrete in walls, slabs, and footings.
- 1.3.3 19 mm for ready-mixed concrete, precast concrete units, and all sizes less than 19 mm.
- 1.3.4 19 mm for ready-mixed concrete.



- 2.1.1 REINFORCING BARS SHALL CONFORM TO ASTM A615-10, TYPE 60, OR EQUIVALENT. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.2 REINFORCING BARS SHALL CONFORM TO ASTM A615-10, TYPE 60, OR EQUIVALENT. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.3 REINFORCING BARS SHALL CONFORM TO ASTM A615-10, TYPE 60, OR EQUIVALENT. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER. FOR BARS WITH DIAMETER 10 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.

BAR DIAMETER (mm)	BAR LENGTH (mm)	BAR DIAMETER (mm)	BAR LENGTH (mm)
12	300	12	300
16	300	16	300
20	300	20	300
25	300	25	300
32	300	32	300

- 2.1.1 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.2 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.3 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.4 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.5 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.



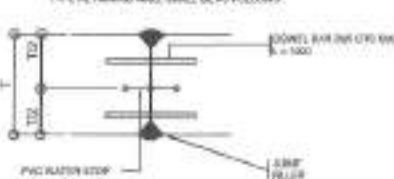
- 2.1.1 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.2 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.
- 2.1.3 FOR BARS WITH DIAMETER 12 mm OR GREATER, THE MAXIMUM SPACING SHALL BE 16d, WHERE d IS THE BARS DIAMETER.

### 2. CONCRETE MIX DESIGN

- 2.1 DESIGN OF CONCRETE MIX SHALL MEET THE MINIMUM DESIGN CONCRETE STRENGTH REQUIREMENTS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND IN THE DRAWINGS.
- 2.2 THE DESIGN OF CONCRETE MIX SHALL MEET THE MINIMUM DESIGN CONCRETE STRENGTH REQUIREMENTS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND IN THE DRAWINGS.
- 2.3 THE DESIGN OF CONCRETE MIX SHALL MEET THE MINIMUM DESIGN CONCRETE STRENGTH REQUIREMENTS AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND IN THE DRAWINGS.

### 3. CONSTRUCTION JOINT

- 3.1 THE POSITION AND FORM OF ANY CONSTRUCTION JOINT SHALL BE AS AGREED WITH THE ENGINEER.
- 3.2 THE INTERFERENCE BETWEEN THE FIRST AND SECOND POUR CONCRETE SHALL BE MINIMIZED WITH AN AMPLITUDE OF 0.4 mm MAXIMUM.
- 3.3 UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE INTERFERENCE BETWEEN THE FIRST AND SECOND POUR CONCRETE SHALL BE MINIMIZED WITH AN AMPLITUDE OF 0.4 mm MAXIMUM.



### 4. REINFORCING TENDON STRUCTURES

- 4.1 ALL REINFORCING TENDON STRUCTURES SHALL BE DESIGNED BY THE ENGINEER. THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE USED:
- 4.2 UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE USED:

- 4.3 UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE USED:
- 4.4 UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER, THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE USED:

TYPE OF STRUCTURE	MIN. THICKNESS	MIN. DRY DENSITY
FOUNDATION	150 mm	2400 kg/m³
WALL	150 mm	2400 kg/m³
COLUMN	150 mm	2400 kg/m³
REINFORCING BARS	150 mm	2400 kg/m³

## D. CIVIL WORKS

### 1. FILLING AND DRAINAGE

- 1.1 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 1.2 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 1.3 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.

BACKFILL	SOIL CLASSIFICATION	PROPERTIES
TYPE 1: LOW PLASTICITY (CL-ML)	TYPE 2: LOW PLASTICITY (CL-ML)	TYPE 3: LOW PLASTICITY (CL-ML)

### 2. CONSTRUCTION DETAILS

- 2.1 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 2.2 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 2.3 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.

### 3. DETAILS

REINFORCING TENDON	REINFORCING TENDON
TYPE 1: LOW PLASTICITY (CL-ML)	TYPE 2: LOW PLASTICITY (CL-ML)

- 3.1 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 3.2 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.
- 3.3 EXISTING FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS. WHERE EXISTING FILLING IS NOT SPECIFIED, THE FILLING SHALL BE AS SPECIFIED IN THE DRAWINGS.

## 1 GENERAL NOTES



Republic of the Philippines  
Department of Engineering  
University of the Philippines - Diliman  
Diliman, Quezon City 1101  
Phone: (02) 2654-4111  
Fax: (02) 2654-4112  
Email: de@up.edu.ph

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMONG CREEK (STA. 0+365.49 - STA. 0+420.00) IN DARANGAY PAYATAS**

LOCATION:  
ENR. PAYATAS DISTRICT 2, QUEZON CITY

DATE:  
DESIGNED BY:  
CHECKED BY:  
APPROVED BY:

REVISION NO.:

SUBMITTED BY:  
RECOMMENDED BY (PROV.):  
APPROVED BY:

ENGR. FREDERICKA DE GUZMAN  
HEAD, PLANNING DIVISION

RECOMMENDED BY (PROV.):  
APPROVED BY:

ENGR. ROBERT E. BELTRAN  
CHIEF, PLANNING DIVISION

APPROVED BY:

HON. MA. JOSEFINA G. BELMONTE  
CITY MGR.

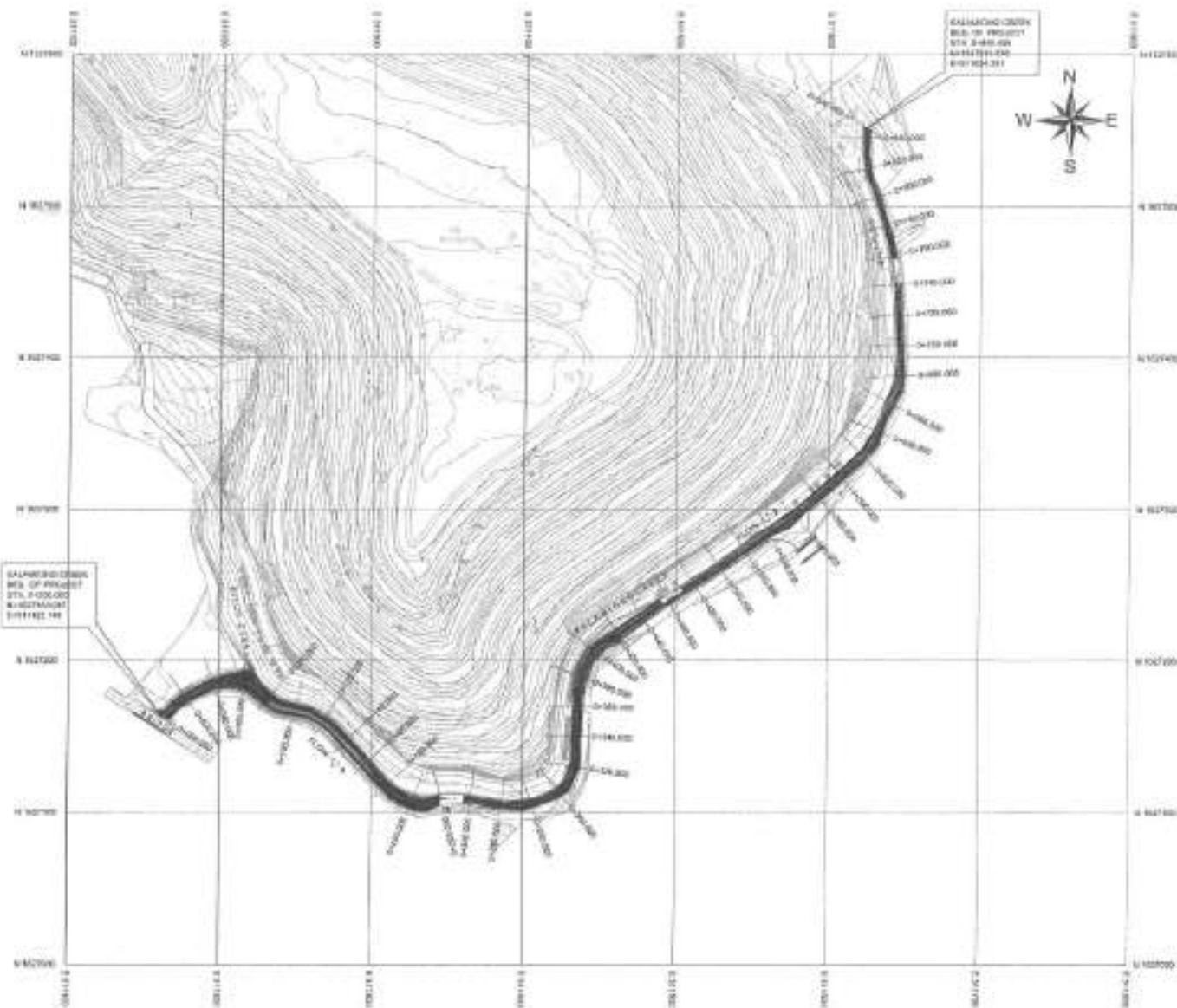
REMARKS:

GENERAL NOTES

REMARKS:

REMARKS:

G-03  
03/21



LEGEND:	
	WATER FLOW
	NORTH ARROW
	PILE WALL
	TREE
	CENTER LINE OF ROAD
	CONTOUR WITH ELEVATION

1

# **KALAMIONG CREEK TOPOGRAPHIC MAP** (STA. 0+000.000 TO STA. 0+846.455)

SCALE: 1:2000N.



Republic of the Philippines  
Department of Engineering  
1000 EDSA, Alabang, Muntinlupa City  
Telephone: 411-990-0000  
E-mail: de@de.doe.gov.ph

PROJECT TITLE:

**PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMIONG CREEK (STA. 0+386.45 -  
STA. 0+420.08) IN BARAMDAY PAYATAS**

LOCATION:

BROY PAYATAS, DISTRICT 1, QUEZON CITY

DATE:

DESIGNED BY:

APPROVED BY:

CHECKED BY:

REVIEWED BY:

DATE:

DESIGNED BY:

APPROVED BY:

CHECKED BY:

REVIEWED BY:

DATE:

SUBMITTED BY:

APPROVED BY:

CHECKED BY:

REVIEWED BY:

DATE:

DESIGNED BY:

APPROVED BY:

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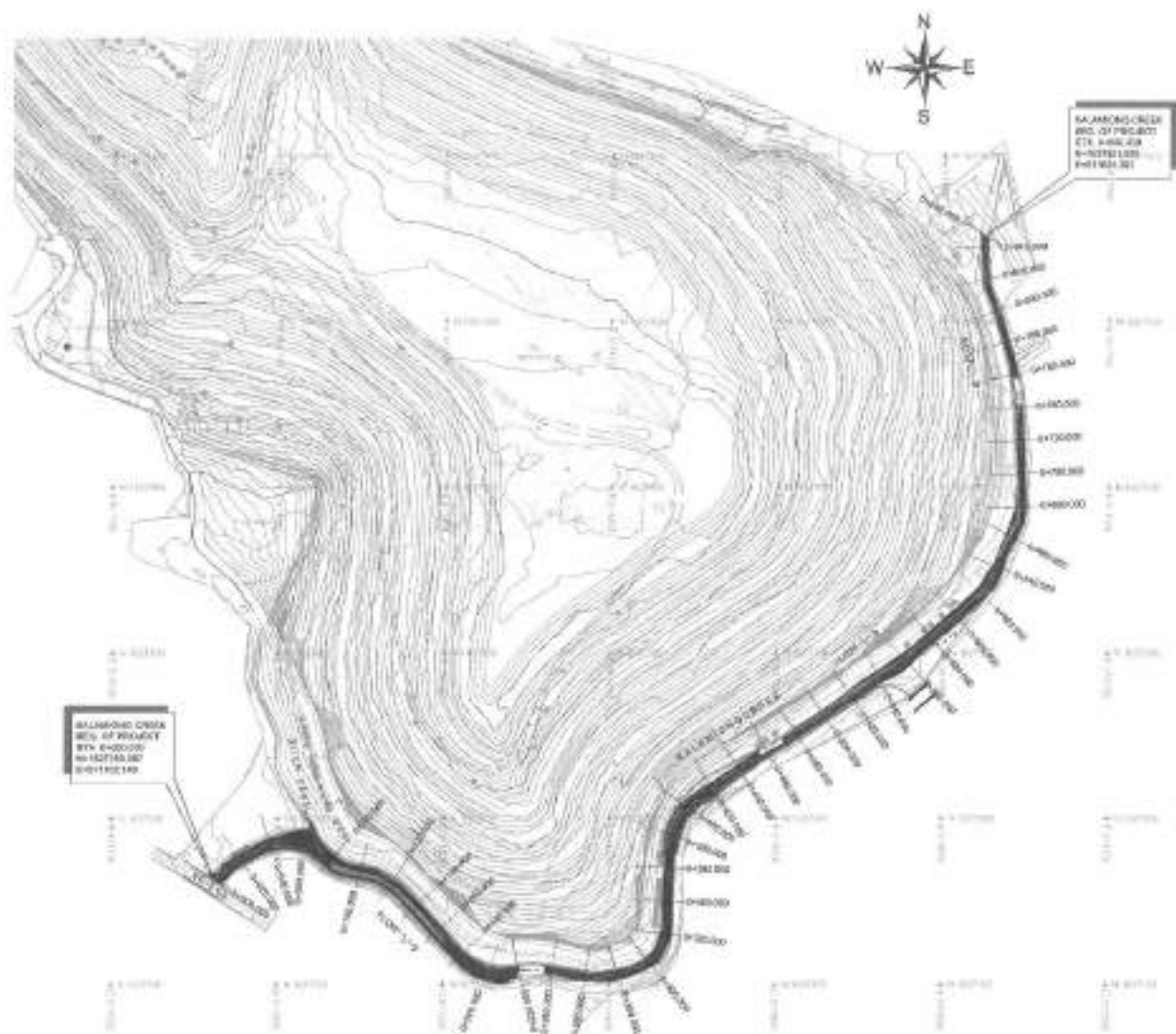


LEGEND:	
	WATER FLOW
	NORTH ARROW
	PILE WALL
	PILE
	CENTER LINE OF ROAD
	CONTOUR WITH ELEVATION

**1 KALAMIONG CREEK GENERAL PROJECT LAYOUT**  
(STA.0+000.000 TO STA.0+846.459)

SCALE: 1:2000M

 <div>Republic of the Philippines Department of Engineering Office of the City Engineer Marikina City Telephone: +63 2 808 5882 E-mail: office_engr@marikina.gov.ph</div>	PROJECT TITLE:		DATE:		SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
	PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA.0+366.49 - STA.0+420.66) IN BARANGAY PAYATAS		DESIGNED BY: ALFONSO G. GARCIA CIVIL ENGINEER						
	LOCATION: BAR. PAYATAS, DISTRICT 8, DUCON CITY		CHECKED BY: [Signature] CIVIL ENGINEER						
			SUBMITTED BY: [Signature] ENGR. FREDERICK D. DE GUZMAN HEAD, PLANNING & DESIGN DIVISION		[Signature] ENGR. ROBERT L. DELTRAN C.E. DEPARTMENT OF ENGINEERING		[Signature] HON. MA. JOSEFINA G. BELMONTE CITY MAOR		<div>G-05 05 21</div>



1

# **KALAMIONG CREEK GENERAL LAYOUT PLAN** (STA. 0+000.00 TO STA. 0+846.459)

SCALE: 1:3000M



Republic of the Philippines  
 Department of Engineering  
 Bureau of Engineering, City of Manila  
 Division Office - District 3, Quezon City  
 Project: Kalamiong Creek  
 Date: 06/21/2018

**PROJECT TITLE:**  
**PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+365.45 - STA. 0+420.00) IN BARANGAY PAYATAS**

**LOCATION:**  
 BRGY. PAYATAS, DISTRICT 3, QUEZON CITY

**DATE:**  
 DESIGNED BY: *[Signature]*  
 CHECKED BY: *[Signature]*  
 REVIEWED BY: *[Signature]*

**DESIGNED BY:**  
 ENGR. FREDERICK L. DE GUZMAN  
 HEAD, PLANNING DESIGN DIVISION

**DESIGNED BY:**  
 ENGR. ROBERT L. DE GUZMAN  
 DIVISION CHIEF OF ENGINEERING

**DESIGNED BY:**  
 HON. MA. JOSEFINA G. BELMONTE  
 CITY ENGINEER

**PROJECT CONTENT:**  
 KALAMIONG CREEK GENERAL LAYOUT PLAN (STA. 0+000.00 TO STA. 0+846.459) - LEGEND & SYMBOLS

**SHEET NO.:**  
 G-06  
 06/21



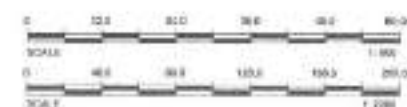
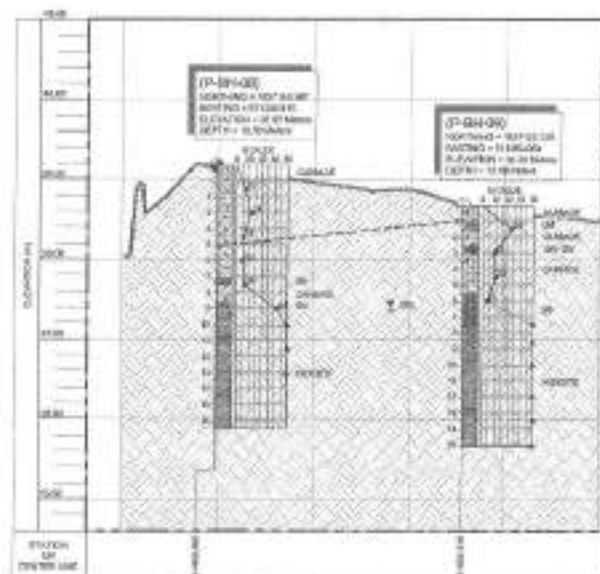
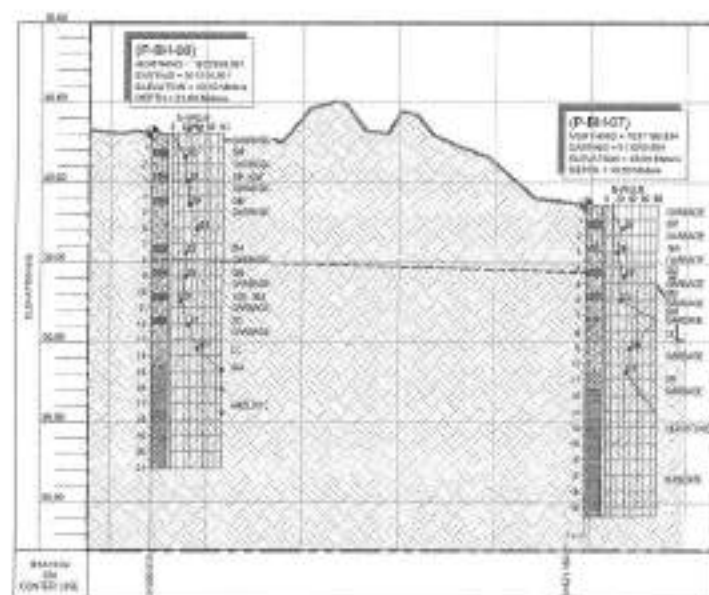




1 KALAMIONG CREEK BOREHOLE LOCATION PLAN  
(STA. 0+100.000 TO STA. 0+200.000)

SCALE 1:2000M

3 KEY PLAN



2 KALAMIONG CREEK IDEALIZED SOIL PROFILE  
(STA. 0+100.000 TO STA. 0+200.000)

SCALE: V:1:200M, H:1:500M

4 LEGEND & SYMBOLS



Republic of the Philippines  
Department of Engineering  
University of the Philippines  
Office of the Dean  
Department of Engineering  
University of the Philippines  
Diliman, Quezon City 1101  
Telephone: (092) 875-8888  
Fax: (092) 875-8888

PROJECT TITLE:  
**PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMIONG CREEK (STA. 0+386.49 -  
STA. 0+428.00) IN BARANGAY PAYATAS**

LOCATION:  
BNDY. PAYATAS, DISTRICT 11, QUEZON CITY

DATE:  
DESIGNED BY:  
CHECKED BY:  
REVIEWED BY:

DESIGNED BY:  
CHECKED BY:  
REVIEWED BY:

SUBMITTED BY:  
RECOMMENDING AGENCY:  
APPROVED BY:

RECOMMENDING AGENCY:  
APPROVED BY:

APPROVED BY:  
HON. MA. JOSEFINA G. BELMONTES  
CITY MAYOR

PROJECT CONTROL:  
KALAMIONG CREEK  
BORED PILES LOCATION PLAN  
(STA. 0+100.000 TO STA.  
0+200.000)  
KALAMIONG CREEK  
BORED PILES PROFILE  
(STA. 0+100.000 TO STA.  
0+200.000)  
KEY PLAN  
LAWRENCE S. BARRERA

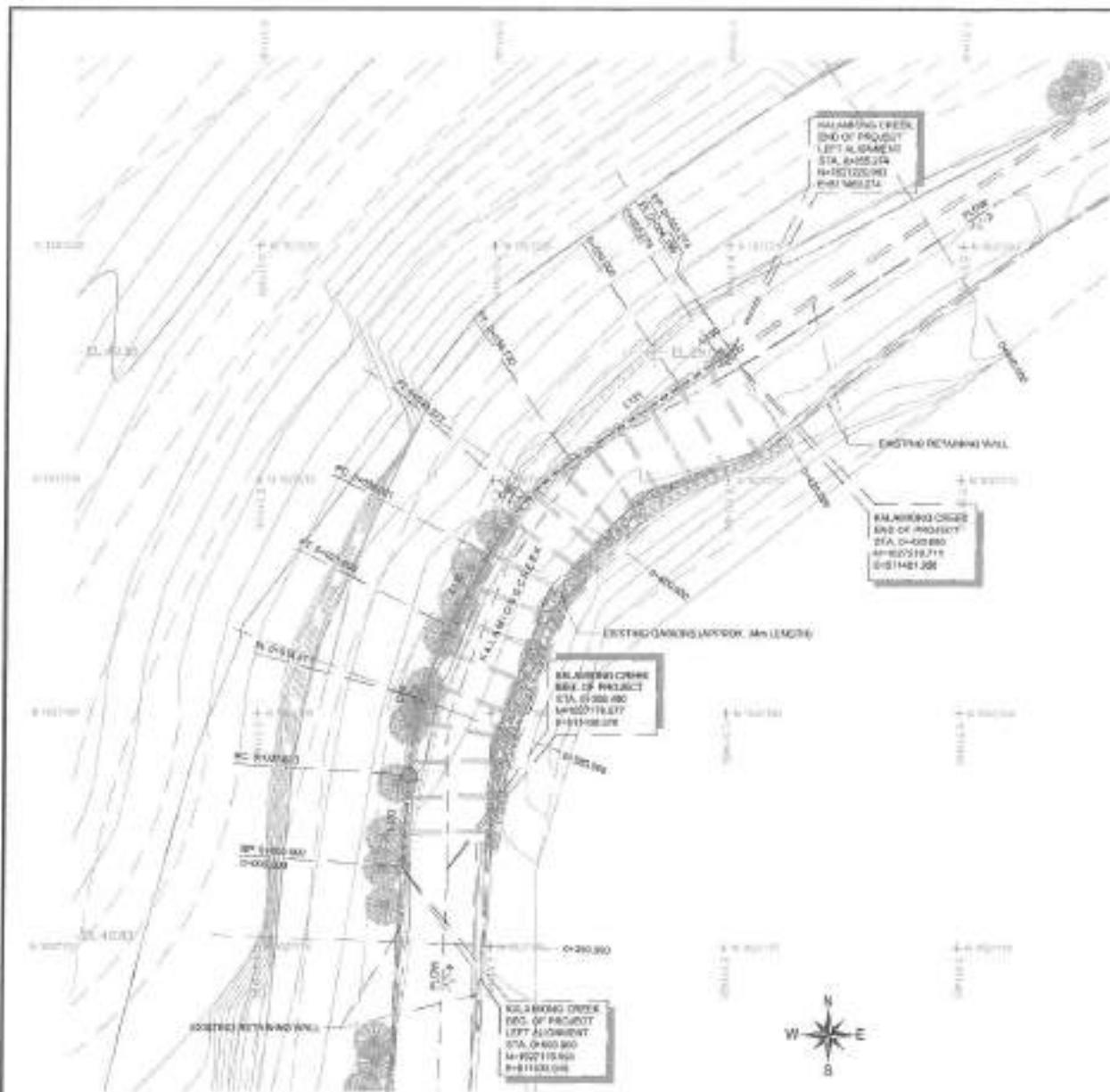
DATE:  
DRAWN BY:  
CHECKED BY:  
REVIEWED BY:

CW-01  
08 21









#### 4 KEY PLAN

##### LEGEND:

	WATER FLOW
	NORTH ARROW
	PILE WALL
	TREE
	CENTER LINE OF RIVER
	CONTOUR WITH ELEVATION
	LEFT BANK ALIGNMENT

#### 3 LEGEND & SYMBOLS

##### LINE ELEMENTS

LINE #	COURSE START	COURSE END	START NORTHING	START EASTING	END NORTHING	END EASTING	LENGTH	SOUTH AZIMUTH
CM	0+366.49	0+378.73	102700.812	81438.685	102721.504	81446.882	85.711	221°09'34"
CM	0+378.73	0+391.00	102704.726	81433.046	102717.304	81446.882	85.168	190°18'30"
LC	0+391.00	0+408.74	102722.301	81439.395	102730.403	81446.882	81.145	205°30'40"
LC	0+408.74	0+420.00	102721.504	81440.802	102720.361	81446.882	80.407	207°37'07"
LC	0+420.00	0+437.81	102717.301	81438.802	102720.361	81446.882	7.819	207°37'07"
LC	0+437.81	0+457.81	102716.804	81432.545	102714.720	81433.046	7.812	107°40'57"

#### 1 KALAMIONG CREEK LINE AND CURVE ELEMENTS LAYOUT - LEFTBANK (STA. 0+366.49 TO STA. 0+420.00)

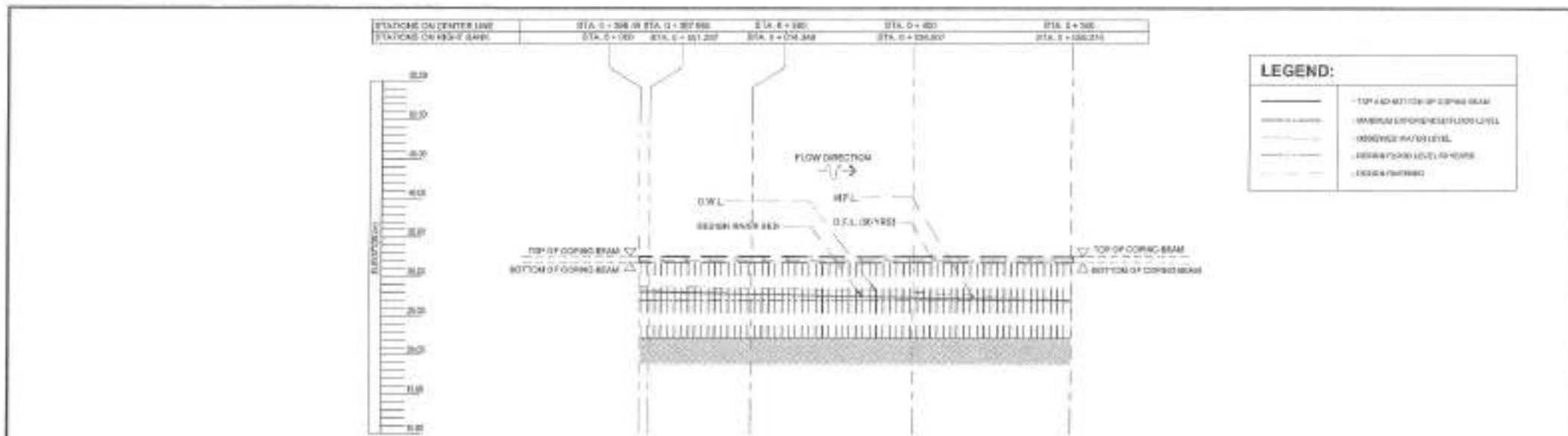
SCALE: 1:300M

#### 2 TABLE OF LINE ELEMENTS

<p>Office of the City Engineer DEPARTMENT OF ENGINEERING City of Marikina Bldg. 100, 100th St. Marikina City Tel. (02) 812-0000</p>	PROJECT TITLE:	DATE:	SUBMITTED BY:	RECOMMENDED APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.
	<b>PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+366.49 - STA. 0+420.00) IN BARANGAY PAYATAS</b>	DESIGNED BY: CHECKED BY: CIVIL ENGINEER	SUBMITTED BY: ENGR. FREDWINDA DE GUZMAN BSA, PLANNING & DESIGN DIVISION	RECOMMENDED APPROVAL: ENGR. ROBERT L. BELTRAN CHIEF, DEPARTMENT OF ENGINEERING	APPROVED BY: HON. MA. JOSEFINA G. BELMONTTE CITY MAYOR	KALAMIONG CREEK LINE AND CURVE ELEMENTS LAYOUT - LEFTBANK (STA. 0+366.49 TO STA. 0+420.00) TABLE OF LINE ELEMENTS (LEGEND & SYMBOLS KEY PLAN)	<b>CW-04</b> <b>11 21</b>

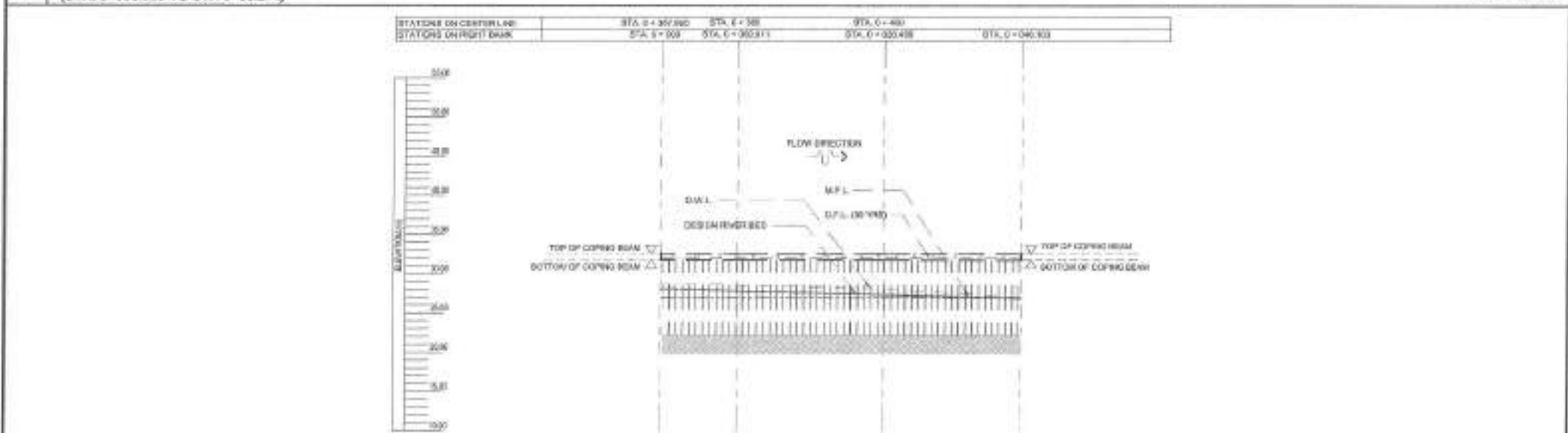






2 KALAMIONG CREEK LONGITUDINAL SECTIONS - LEFT ALIGNMENT  
(STA. 0+000.000 TO STA 0+55.274)

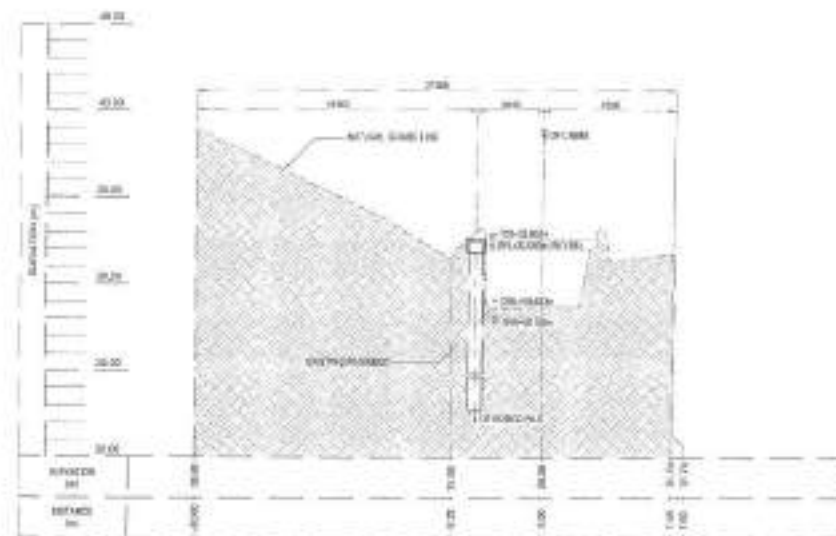
SCALE: 1:500M



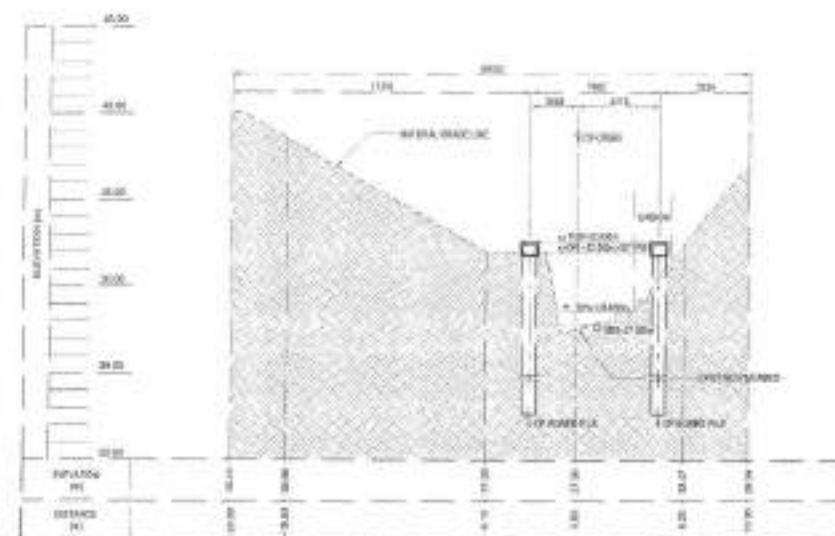
1 KALAMIONG CREEK LONGITUDINAL SECTIONS - RIGHT ALIGNMENT  
(STA. 0+000.000 TO STA 0+045.103)

SCALE: 1:500M

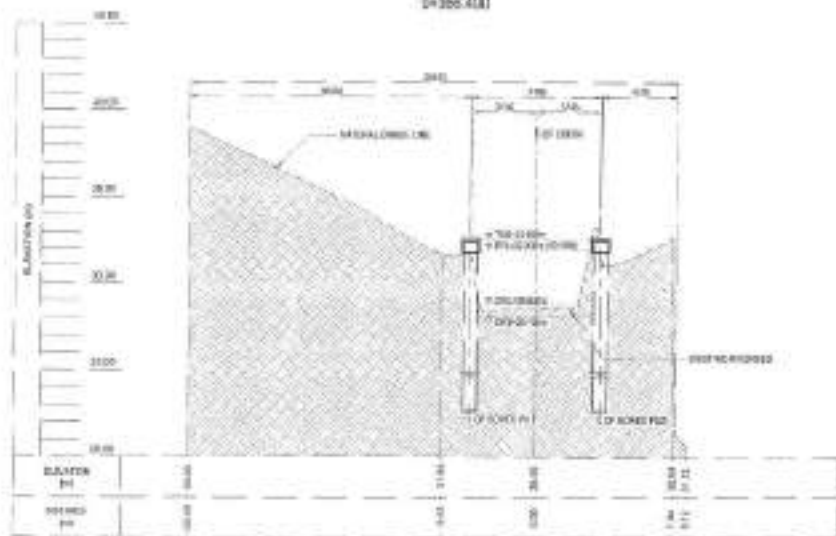
<p>Department of Engineering Office of the Engineer Kalamiong Creek, District 6, Quezon City</p>	PROJECT TITLE:	DATE:	SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENT:	SHEET NO.	
	PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+356.45 - STA. 0+425.90) IN BARANGAY PAYATAS	DESIGNED BY: ALJONABE RAMON CIVIL ENGINEER	CHECKED BY: [Signature] CHECKED BY:	ENGR. FREDERICK D. DE GUZMAN CIVIL ENGINEER	ENGR. ROBERT J. BELTRAN CIVIL ENGINEER	HON. MA. JOSEFINA G. BELMONTE (CITY MAYOR)	KALAMIONG CREEK LONGITUDINAL SECTIONS - RIGHT ALIGNMENT (STA. 0+356.45 TO STA. 0+425.90) BARANGAY PAYATAS, DISTRICT 6, QUEZON CITY	CW-07 14 21
	LOCATION: BARANGAY PAYATAS, DISTRICT 6, QUEZON CITY	REVISION NO.:						



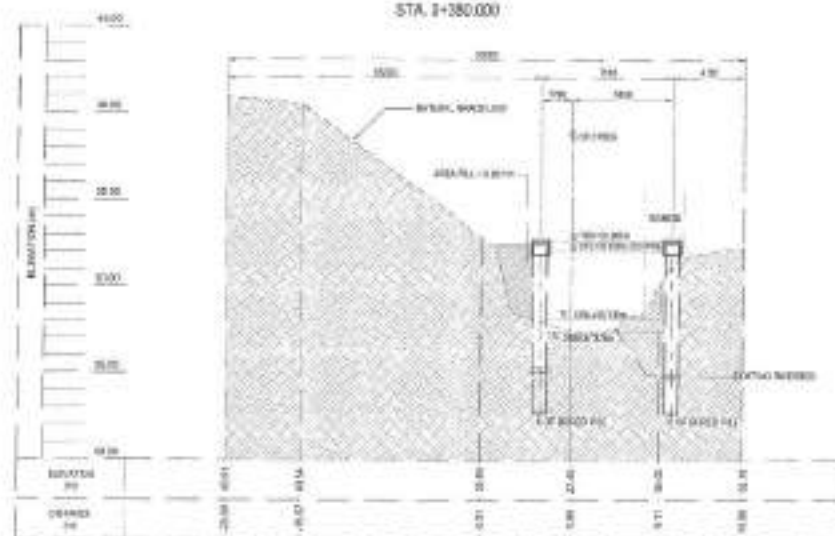
STA. 0+366.400



STA. 0+380.000



STA. 0+367.950



STA. 0+400.000

1

# **KALAMIONG CREEK CROSS SECTIONS** (STA. 0+366.400 - STA. 0+400.000)

SCALE: 1:300M



Republic of the Philippines  
Department of Engineering  
Engineering Division  
Office of the Director  
Room 1001, 10th Floor  
City Hall Building  
Cebu City, 6000 Cebu  
Tel. (032) 255-1000  
Fax (032) 255-1001

PROJECT TITLE:

**PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMIONG CREEK (STA. 0+366.40 -  
STA. 0+400.00) IN BARANGAY PAYATAS**

LOCATION:

BRGY. PAYATAS, DISTRICT 1, QUEZON CITY

DATE:

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

REVISION NO.:

SUBMITTED BY:

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

REVISION NO.:

RECOMMENDATION APPROVAL:

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

REVISION NO.:

APPROVED BY:

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

REVISION NO.:

SHEET CONTENT:

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

REVISION NO.:

SHEET NO.

DESIGNED BY:

APPROVED AND  
CHECKED BY:

DATE:

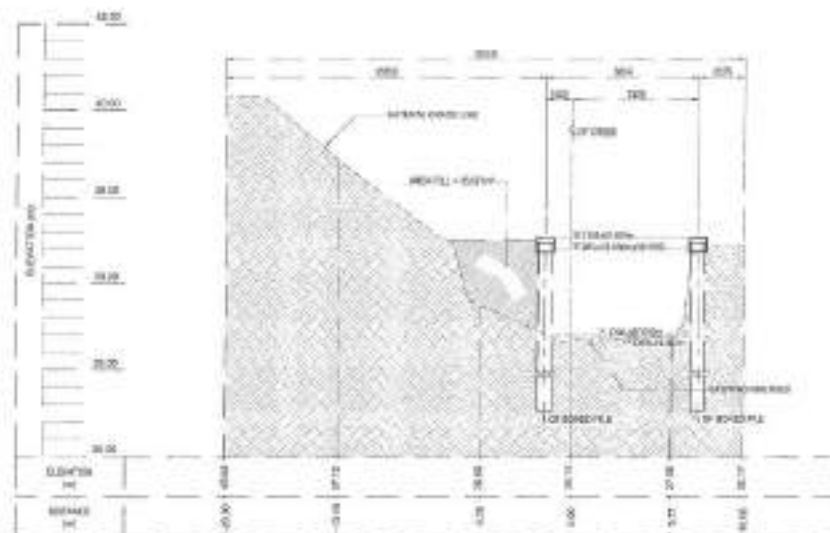
REVISION NO.:

ENGR. FREDERICK DE GUZMAN  
HEAD OF PROJECT DESIGN DIVISION

ENGR. ROBERT C. BELTRAN  
SIC. OF BARANGAY KALAMIONG

HON. MA. JOSEFINA G. BELMONTE  
CITY MAJOR

CW-08  
15 21



STA. 0+420.000

1

# **KALAMIONG CREEK CROSS SECTION** (STA. 0+420.000)

SCALE: 1:500M



Republic of the Philippines  
Department of Engineering  
The Office of the City Engineer  
Barangay Payatas, District 2, Quezon City  
Phone: (02) 8174-1234  
Email: payatas@deped.gov.ph

PROJECT TITLE:

**PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMIONG CREEK (STA. 0+386.45 -  
STA. 0+429.08) IN BARANGAY PAYATAS**

LOCATION:

**BAR. PAYATAS, DISTRICT 2, QUEZON CITY**

DATE:

DESIGNED BY:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

DESIGNED BY:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

RECOMMENDING OFFICER:

APPROVED BY:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

APPROVED BY:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

SHEET CONTENT:

SHEET NO.:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

SHEET NO.:

CHECKED BY:

APPROVED BY:

CIVIL ENGINEER

REVISION NO.:

CW-09

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ENGR. FREDERICKA D. DE GUZMAN  
NCE, PLANNING & DESIGN DIVISION

ENGR. ROBERT L. BELTRAN  
D.C. DEPARTMENT OF ENGINEERING

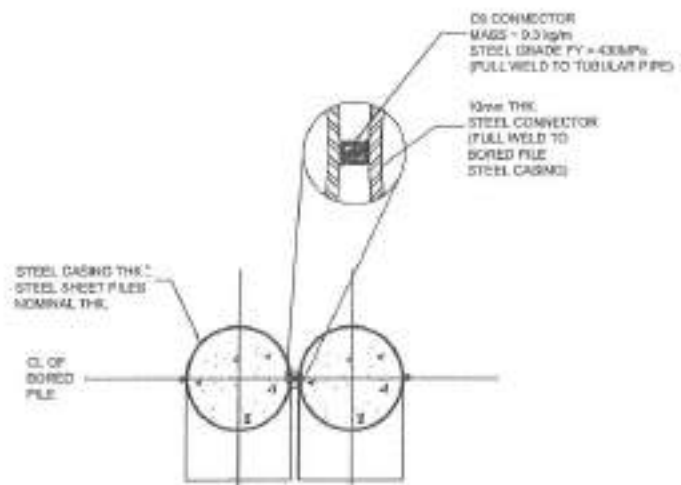
RON. MA. JOSEFINA G. BELMONTE  
CITY ENGINEER





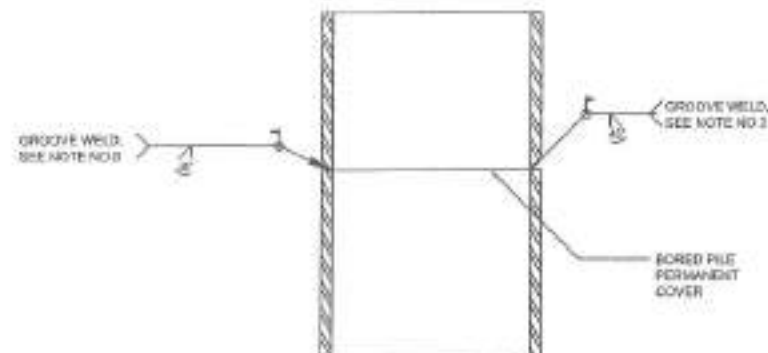






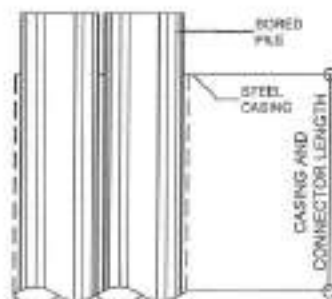
1 PLAN  
(CONNECTION DETAILS)

SCALE: 1:20M



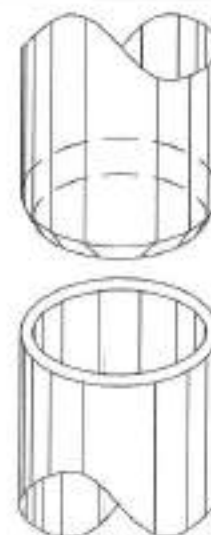
3 SECTION  
(CONNECTION DETAILS)

SCALE: NTS



2 ELEVATION  
(CONNECTION DETAILS)

SCALE: 1:40M



NOTE:

1. ALL HEIGHT OF STEEL CONNECTOR IS MEASURED FROM EXISTING THE EXISTING RIVERSIDE UP TO TOP ELEVATION OF STEEL SHEET PILE OR TO BE VERIFIED DURING CONSTRUCTION.
2. ALL SURFACES TO BE WELDED SHOULD BE FREE OF PAINT, SLAG, LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS.
3. GROOVE WELD SHALL EXTEND THE FULL LENGTH/DIAMETER OF THE BORED PILE CASING.

DESIGN CRITERIA:  
WELDING (SMWV PROCESS)  
CAPACITY OF WELDING =  $0.7071 + 0.3P_u$   
ALLOWABLE SHEARING STRESS =  $0.38F_u$   
WELD STEEL ELECTRODE, LOW HYDROGEN  
AWS A5.1: E7015  
TENSILE STRENGTH = 585 MPa  
YIELDING STRENGTH = 435 MPa  
 $F_u = 75$  kpsi per inch

4 ISOMETRIC VIEW  
(BORED PILE STEEL CASING WELDED CONNECTION)

SCALE: NTS



Republic of the Philippines  
Department of Engineering  
1001 10th Avenue, 10th Floor, 10th Avenue, 10th Avenue  
1001 10th Avenue, 10th Floor, 10th Avenue, 10th Avenue  
1001 10th Avenue, 10th Floor, 10th Avenue, 10th Avenue

PROJECT TITLE:

PROPOSED CONSTRUCTION OF SLOPE  
PROTECTION (BORED PILES) ALONG  
KALAMONG CREEK (STA. 0+350.45 -  
STA. 0+420.00) IN BARANGAY PAYATAS

LOCATION:  
BARANGAY PAYATAS, DISTRICT 8, QUEZON CITY

DATE:

DESIGNED BY:

ALONSO M. MORA

CIVIL ENGINEER

REGISTERED

PROFESSIONAL

ENGINEER

REGISTERED

PROFESSIONAL

ENGINEER

REGISTERED

PROFESSIONAL

ENGINEER

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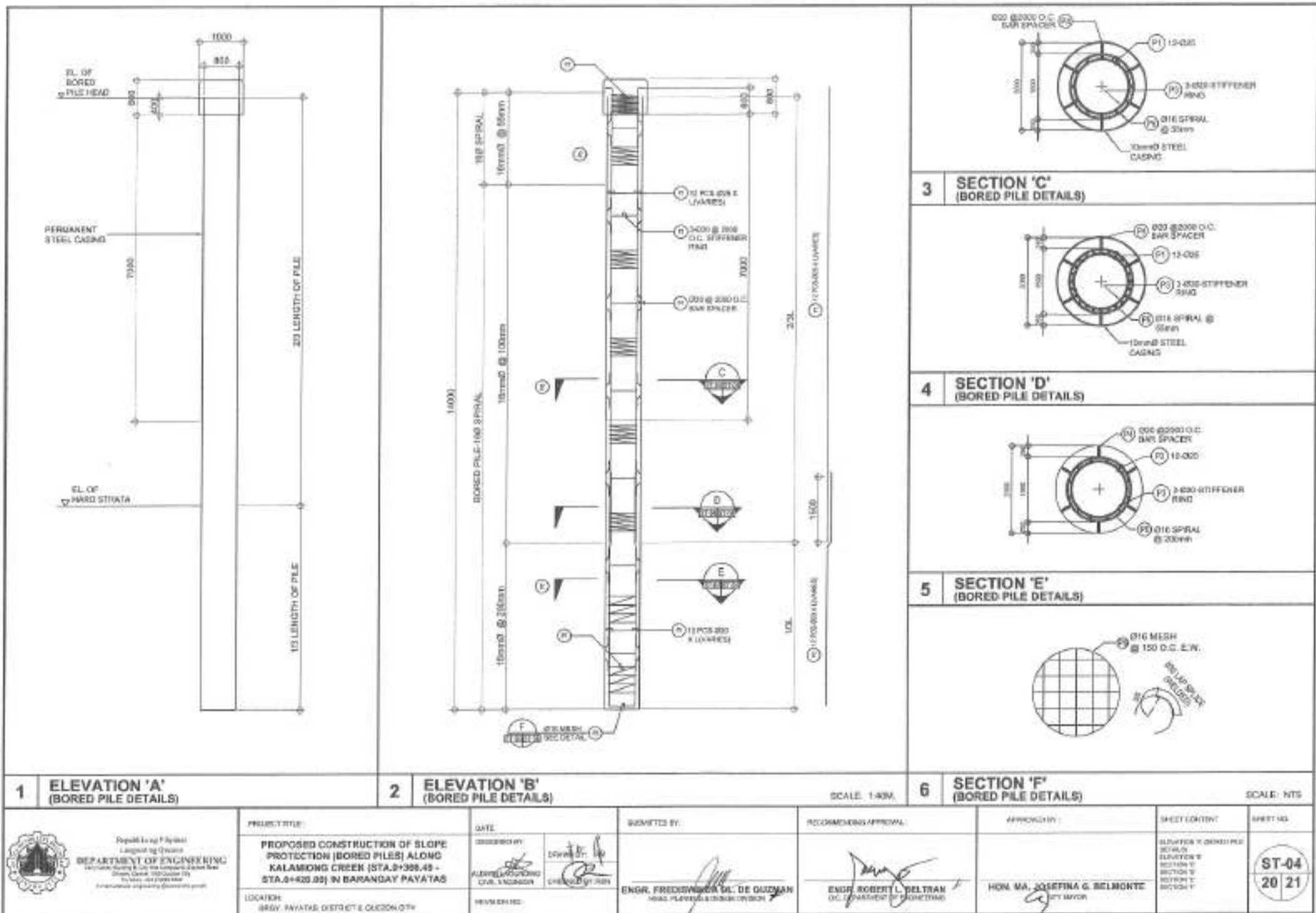
REGISTERED

PROFESSIONAL

ENGINEER

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PROFESSIONAL



## NOTES:

## A. GENERAL:

INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

## B. MATERIALS:

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE @ 28 DAYS SHALL BE,  $f'_c = 28 \text{ MPa}$

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (ASTM A615), DEFORMED BARS, WITH MINIMUM YIELD STRENGTH OF

FOR 12mm AND SMALLER,  $f_y = 276 \text{ MPa}$  (40,000 psi)  
FOR 16mm AND LARGER,  $f_y = 414 \text{ MPa}$  (60,000 psi)

## C. SPICING:

1. SPICING OF MAIN BARS SHALL BE STAGGERED ALTERNATELY BETWEEN ADJACENT BARS SO AS NOT TO OCCUR AT THE SAME HORIZONTAL PLANE IN ACCORDANCE TO ASTM A615, 4.6.6.2.2.

2. SPICES IN SPIRAL REINFORCEMENT SHALL BE LAP SPICES OF 50mm DIAMETER. IN THIS CASE, LAP SPICES FOR 600 SPIRAL SHALL BE 1000mm WHILE 600mm SHALL BE ADOPTED FOR 810 SPIRAL.

3. ANCHORAGE OF SPIRAL REINFORCEMENT SHALL BE PROVIDED BY 1 X2 EXTRA TURNS OF SPIRAL BAR AT EACH END OF SPIRAL UNIT.

PILE DIAMETER (mm)	PILE LENGTH (m)	ALLOWABLE BEARING CAPACITY (kN)
300	14.000	-

## D. CAST-IN-PLACE (CIP) CONCRETE PILE:

1. THE CONSTRUCTION OF CIP PILES SHALL FOLLOW THE REQUIREMENTS OF SPECIFICATIONS FOR CAST-IN-PLACE PILES OR DRILLED SHAFTS.

2. THE ESTIMATED LENGTH OF PILES HAVE BEEN DETERMINED FROM BORING DATA AND DESIGN CALCULATIONS. THE ACTUAL LENGTHS OF PILES SHALL BE BASED ON THE SOIL CONDITIONS ENCOUNTERED DURING BORING WHICH WILL YIELD THE REQUIRED BEARING CAPACITY. THE ALLOWABLE BEARING CAPACITIES OF BORED PILES AT NORMAL CONDITION SHALL BE AS SHOWN BELOW:

BOTTOM OF PILES SHALL BE EMBEDDED AT LEAST THREE PILE DIAMETER DEPTH INTO HARD STRATA WITH AN R-VALUE OF AT LEAST 40 CAPABLE OF DEVELOPING THE REQUIRED ULTIMATE BEARING CAPACITY. IF THE ABOVE CONDITION CANNOT BE MET DURING CONSTRUCTION, THE DESIGNER SHALL BE NOTIFIED FOR ADJUSTMENT OF PILE LENGTH IF NECESSARY.

LOW STRAIN PILE INTEGRITY TESTING SHALL BE CONDUCTED ON 10% OF THE TOTAL NUMBERS OF BORED PILES TO VERIFY/CHECK THE CONCRETE HOMOGENEITY AND TO LOCATE/EVALUATE ANY IRREGULARITY IN THE COMPLETED BORED PILES.

HIGH STRAIN DYNAMIC TEST USING PILE DRIVING ANALYSIS (PDA) SHALL BE CONDUCTED ON 10% OF THE TOTAL NUMBERS OF BORED PILES TO DETERMINE/CHECK THE ACTUAL BEARING CAPACITY OF THE COMPLETED BORED PILES PRIOR TO CONSTRUCTION OF SIMILAR PILES. THE TESTS SHALL BE WITNESSED BY REPRESENTATIVES FROM THE IMPLEMENTING OFFICE, CONSULTANT, CONTRACTOR AND ACO. THE RESULTS SHALL BE SUBMITTED SUBJECT TO APPROVAL BY THE DESIGNER PRIOR TO CONSTRUCTION OF PILE CAP AND SUPERSTRUCTURE.

HIGH STRAIN DYNAMIC TEST SHALL BE DONE SUCH THAT THE REQUIRED ULTIMATE BEARING CAPACITY IS MOBILIZED AND/OR THE MAXIMUM PERMANENT PILE SET OF 0.120 IS REACHED. HAMMER WEIGHT OF ABOUT 1.5 TO 2.0% OF THE REQUIRED ULTIMATE BEARING CAPACITY OF BORED PILES SHALL BE USED AND DROPPED FROM A GRADUAL HEIGHT INCREASE. COMPLETE PILE TESTS RESULTS INCLUDING TABULATED RESULT OF ALL BLOW, CAPMAP ANALYSIS AND RECOMMENDATIONS SHALL BE SUBMITTED BY THE PILE TEST CONTRACTOR.

3. AN ON-SITE SUBSURFACE INVESTIGATION SHALL ALSO BE UNDERTAKEN DURING CONSTRUCTION FOR CONFIRMATION/VERIFICATION OF SOIL DATA USED IN THE DESIGN.

4. DRILLED SHAFT SHALL BE CONSTRUCTED IN STABLE EASY SLOWING SOIL WITHOUT EXHAUSTING GROUND WATER. THE HOLE SHALL BE INSPECTED FOR STRAIGHTNESS AND SHALL BE CUSHED OF ALL LOOSE MATERIALS THAT HAVE ACCUMULATED AT THE BOTTOM AFTER DRILLING OPERATIONS. IF BORED PILE CAN NOT BE CONSTRUCTED IN DRY CONDITION, COMBINATION OF TEMPORARY CASING OR WET METHOD USING BENTONITE MAY BE USED.

5. CURING OF BORED PILE SHALL BE BY TREME METHOD. IN CASE OF DRY CONDITION, THE UPPER 3 METERS OF THE CONCRETE SHALL BE CONSOLIDATED BY VIBRATOR.

6. DETAILED METHODology AND PROCEDURE FOR THE BORED PILE CONSTRUCTION SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER AT LEAST ONE WEEK BEFORE START OF BORED PILING WORKS.

## 1 GENERAL NOTES

BAR BENDING DIAGRAM		PILE DIAMETER (mm) = 300		PILE LENGTH, L (mm) 10000		BAR DIMENSIONS (mm)		LENGTH EACH BAR (mm)		TOTAL BAR LENGTH (m)		UNIT WEIGHT (kg/m)		TOTAL WEIGHT (kg)		CONCRETE (m³)	
BAR MARK	DA (mm)	QUANTITY	SPACING (mm)	BAR BENDING SHAPE	NO. OF SETS	a	b	c									
P1	25	12	AS SHOWN	A	1	13400	130		16500	121.60	3.853		467.730	6.040			
P2	20	12	AS SHOWN	B	1	5300			5300	61.80	2.485		198.540				
P3	20	21	AS SHOWN	E	1	3800			3800	84.06	2.485		167.160				
P4	20	42	AS SHOWN	D	1	280	250	300	630	28.56	2.485		70.438				
P5	16	41	68	C	1	3000			3000	120.81	1.578		167.130				
P6	16	33	101	C	1	3400			3400	288.30	1.578		451.800				
P7	16	39	208	C	1	3500			3500	70.03	1.578		110.468				
P8	16	10	AS SHOWN	B	1	130			730	7.50	1.578		11.848				
SUB-TOTAL GRADE 60 FOR 1 PILE														1644.58			
TOTAL GRADE 60 FOR 138 PILE														188.177.80			

## 2 SCHEDULE OF PILE

 <p>Report to: Mr. P. Alarcon Engineer in Charge DEPARTMENT OF ENGINEERING UNIVERSITY OF THE PHILIPPINES - DILIMAN Alarcon, Cesar E. (1980-08-01) Email: alarcon.cesar@up.edu.ph</p>	PROJECT TITLE:	DATE:	SUBMITTED BY:	RECOMMENDING OFFICIAL:	APPROVED BY:	SHEET CONTENT	SHEET NO.
	PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMONG CREEK (STA. 0+386.48 - STA. 0+420.00) IN BARANGAY PAYATAS	DESIGNED BY: ALAN C. COLLADO CIVIL ENGINEER	CHIEF ENGINEER: ENGR. FREDSWIN DE GUZMAN HEAD PLANNING & DESIGN DIVISION	ENGR. ROBERTA BELTRAN CHIEF PLANNING & DESIGN DIVISION	MR. MA. JOSEFINA G. BELMONTE CHIEF PLANNING & DESIGN DIVISION	REVISIONS: REVISION 1: 21/21	ST-05 21/21

## ***Section VIII. Bill of Quantities***

### **Notes on the Bill of Quantities**

#### **Objectives**

The objectives of the Bill of Quantities are:

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

In order to attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

#### **Daywork Schedule**

A Daywork Schedule should be included only if the probability of unforeseen work, outside the items included in the Bill of Quantities, is high. To facilitate checking by the Entity of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise the following:

- a. A list of the various classes of labor, materials, and Constructional Plant for which basic daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a daywork basis.
- b. Nominal quantities for each item of Daywork, to be priced by each Bidder at Daywork rates as Bid. The rate to be entered by the Bidder against each basic Daywork item should include the Contractor's profit, overheads, supervision, and other charges.

#### **Provisional Sums**

A general provision for physical contingencies (quantity overruns) may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises. Where such provisional sums or contingency allowances are used, the SCC should state the manner in which they will be used, and under whose authority (usually the Procuring Entity's Representative's).

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by other contractors should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized contractors. To provide an element of competition among the Bidders in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime Contractor for the use and convenience of the specialist contractors, each related provisional sum should be followed by an item in the Bill of Quantities inviting the Bidder to quote a sum for such amenities, facilities, attendance, etc.

### **Signature Box**

A signature box shall be added at the bottom of each page of the Bill of Quantities where the authorized representative of the Bidder shall affix his signature. Failure of the authorized representative to sign each and every page of the Bill of Quantities shall be a cause for rejection of his bid.

These Notes for Preparing a Bill of Quantities are intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They should not be included in the final documents.

**PROJECT TITLE :** PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+366.49 - STA. 0+420)

**LOCATION :** BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY

**PROJECT NO. :** 23 - 00167

**DURATION :** Three Hundred (300) Calendar Days

***BREAKDOWN OF COST***

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
			%	VALUE			
PART I	OFFICES AND LABORATORY FOR THE ENGINEER						
PART II	OTHER GENERAL REQUIREMENTS						
PART III	RETAINING WALL						
PART A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS						
PART B	EMBANKMENT						
PART C	PILING						
PART D	METAL STRUCTURES						
PART E	COPING BEAM						
PART F	PRE-FABRICATED CONCRETE BEAM STRUT						
	<b>TOTAL OF PART III</b>						
PART IV	TEMPORARY ACCESS ROAD (L=50m) WITH ACCESS RAMP						
PART A	REMOVAL OF STRUCTURES AND OBSTRUCTIONS						
PART B	EMBANKMENT						
PART C	SUBBASE AND BASE COURSE						
PART D	PIPE CULVERTS AND STORM DRAIN						
	<b>TOTAL OF PART IV</b>						

ITEM NO.	DESCRIPTION	ESTIMATED DIRECT COST	TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST
			%	VALUE			
PART V	STAGING AREA (6m W x 20m L)						
PART A	SUBGRADE PREPARATION						
PART B	REMOVAL OF STRUCTURES AND OBSTRUCTIONS						
	<b>TOTAL OF PART V</b>						
<b>TOTAL</b>							

**TOTAL COST ₱**\_\_\_\_\_

**LUMP SUM BID IN WORDS :** \_\_\_\_\_

Contractor : \_\_\_\_\_

**BILL OF QUANTITIES**  
(Flood Control Construction/Rehabilitation Project)

**PROJECT TITLE :** PROPOSED CONSTRUCTION OF SLOPE PROTECTION (BORED PILES) ALONG KALAMIONG CREEK (STA. 0+366.49 - STA. 0+420)  
**LOCATION :** BARANGAY PAYATAS, DISTRICT 2, QUEZON CITY  
**PROJECT NO. :** 23 - 00167  
**DURATION :** Three Hundred (300) Calendar Days

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
<b>PART I</b>	<b>OFFICES AND LABORATORY FOR THE ENGINEER</b>											
A.1.1 (16)	Operation & Maintenance of Field Office for the Engineer	10	month									
	<b>TOTAL OF PART I</b>											
<b>PART II</b>	<b>OTHER GENERAL REQUIREMENTS</b>											
B.5	Project Billboard/Signboard	1	ea									
B.7(1)	Occupational Safety and Health Program	10	month									
B.9	Mobilization / Demobilization	1	I.s.									
	<b>TOTAL OF PART II</b>											
<b>PART III</b>	<b>RETAINING WALL</b>											
<b>PART A</b>	<b>REMOVAL OF STRUCTURES AND OBSTRUCTIONS</b>											
101 (6)	Removal of Structures and Obstructions, Concrete	187	cu.m.									
	<b>TOTAL OF PART A</b>											
<b>PART B</b>	<b>EMBANKMENT</b>											
104 (1) a	Embankment from Borrow, Common Soil	259	cu.m.									
	<b>TOTAL OF PART B</b>											
<b>PART C</b>	<b>PILING</b>											
1052 (17) a	Concrete Piles cast in Drilled Holes, 0.80 Ø	1,610	I.m.									
1052 (23) a1	Permanent Casing, 0.80 Ø, 10mm thick	805	I.m.									
1052 (23) a1a	Temporary Casing, 0.80 Ø, 10mm thick	805	I.m.									
1052 (26) b	Pile Integrity Testing, Low Strain	11	each									
1052 (27)	High Strain Dynamic Testing (P.D.A.)	11	each									
	<b>TOTAL OF PART C</b>											



ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
<b>PART D</b>	<b>METAL STRUCTURES</b>											
1047 (1)	Structural Steel, C9 Connector	1,610	l.m.									
	<b>TOTAL OF PART D</b>											
<b>PART E</b>	<b>COPING BEAM</b>											
900 (8)	Structural Concrete, Class A, 27.58Mpa, 28days	82	cu.m.									
902 (1) a	Reinforcing Steel, Grade 40	2,424	kgs									
902 (1) b	Reinforcing Steel, Grade 60	7,196	kgs									
	<b>TOTAL OF PART E</b>											
<b>PART F</b>	<b>PRE-FABRICATED CONCRETE BEAM STRUT</b>											
900 (8)	Structural Concrete, Class A, 27.58Mpa, 28days	25	cu.m.									
902 (1) a	Reinforcing Steel, Grade 40	1,158	kgs									
902 (1) b	Reinforcing Steel, Grade 60	2,829	kgs									
	Lifting & Installation of Pre-Fabricated Concrete Beam Strut	17	pcs									
	<b>TOTAL OF PART F</b>											
	<b>TOTAL OF PART III</b>											
<b>PART IV</b>	<b>TEMPORARY ACCESS ROAD (L=50m) WITH</b>											
<b>PART A</b>	<b>REMOVAL OF STRUCTURES AND OBSTRUCTIONS</b>											
	Removal of Structures and Obstructions, Temporary Embankment	989	cu.m.									
101 (4) a4	Removal of Structures and Obstructions, Temporary RCPC 1070mmØ	32	l.m.									
	<b>TOTAL OF PART A</b>											
<b>PART B</b>	<b>EMBANKMENT</b>											
104 (1) a	Embankment from Borrow, Common Soil	943	cu.m.									
	<b>TOTAL OF PART B</b>											
<b>PART C</b>	<b>SUBBASE AND BASE COURSE</b>											
201 (1)	Aggregate Base Course	46	cu.m.									
	<b>TOTAL OF PART C</b>											
<b>PART D</b>	<b>PIPE CULVERTS AND STORM DRAIN</b>											
500 (1) a4	Pipe Culverts, RCPC Class II, 1070mmØ	32	l.m.									
	<b>TOTAL OF PART D</b>											
	<b>TOTAL OF PART IV</b>											

ITEM CODE	DESCRIPTION	QUANTITY	UNIT	ESTIMATED DIRECT COST	MARK-UP IN %		TOTAL MARK-UP		VAT	TOTAL INDIRECT COST	TOTAL COST	UNIT COST
					OCM	PROFIT	%	VALUE				
PART V	STAGING AREA (6m W x 20m L)											
PART A	SUBGRADE PREPARATION											
105 (1) a	Subgrade Preparation, Common Material	120	sq.m.									
804 (4) a	Gravel Bedding	24	cu.m.									
	TOTAL OF PART A											
PART B	REMOVAL OF STRUCTURES AND OBSTRUCTIONS											
	Removal of Structures and Obstructions, Gravel	24	cu.m.									
	TOTAL OF PART B											
	TOTAL OF PART V											
	GRAND TOTAL											

## ***Section IX. Checklist of Technical and Financial Documents***

### **Notes on the Checklist of Technical and Financial Documents**

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**and**
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document;  
**and**
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- ☐ (e) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

#### Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*please see attached prescribed forms required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules with an attached Notice of Award, Notice to Proceed, Contract and Certificate of Acceptance (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**
- ☐ (h) Philippine Contractors Accreditation Board (PCAB) License;  
**or**  
Special PCAB License in case of Joint Ventures;  
**and** registration for the type and cost of the contract to be bid; **and**
- ☐ (i) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (j) Project Requirements, which shall include the following:
  - ☐ a. Organizational chart for the contract to be bid;
  - ☐ b. List of contractor’s key personnel (*e.g.*, Project Manager, Project Engineers, Materials Engineers, and Foremen), to be assigned to the contract to be bid, with their complete qualification and experience data (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*);
  - ☐ c. List of contractor’s major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment

lessor/vendor for the duration of the project, as the case may be (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*); **and**

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

Additional Technical Requirements:

- ☐ • Certificate of Site Inspection or Affidavit of Site Inspection as part of Omnibus Sworn Statement
- ☐ • Affidavit of Undertaking for Key Personnel and Equipment (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*)
- ☐ • Equipment Utilization Schedule
- ☐ • Manpower Schedule
- ☐ • Construction Schedule and S-Curve
- ☐ • PERT-CMP
- ☐ • Construction Methods

Financial Documents

- ☐ (l) The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (m) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) (*please see attached prescribed form required by the QC – BAC for Infrastructure and Consultancy*).

***Class "B" Documents***

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

**II. FINANCIAL COMPONENT ENVELOPE**

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

Other documentary requirements under RA No. 9184

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

**Bid Form for the Procurement of Infrastructure Projects**  
*[shall be submitted with the Bid]*

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**BID FORM**

Date : \_\_\_\_\_  
Project Identification No. : \_\_\_\_\_

To: *[name and address of Procuring Entity]*

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

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

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<sup>1</sup> currently based on GPPB Resolution No. 09-2020

- k. We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the [Name of Project] of the [Name of the Procuring Entity].
- l. We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

## **Bid Securing Declaration Form**

*[shall be submitted with the Bid if bidder opts to provide this form of bid security]*

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REPUBLIC OF THE PHILIPPINES)

CITY OF \_\_\_\_\_) S.S.

### **BID SECURING DECLARATION** **Project Identification No.: *[Insert number]***

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

I/We, the undersigned, declare that:

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

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

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*

Affiant

**[Jurat]**

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



**Omnibus Sworn Statement (Revised)**  
*[shall be submitted with the Bid]*

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REPUBLIC OF THE PHILIPPINES )  
CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.

**AFFIDAVIT**

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

1. *[Select one, delete the other:]*

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

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

2. *[Select one, delete the other:]*

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

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

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

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

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

6. *[Select one, delete the rest:]*

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

*[If a partnership or cooperative:]* None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project

Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

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

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

**IN WITNESS WHEREOF**, I have hereunto set my hand this \_\_\_ day of \_\_\_\_\_ 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]*

*[Insert signatory's legal capacity]*  
Affiant

**[Jurat]**

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

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

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

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### CONTRACT AGREEMENT

THIS AGREEMENT, made this *[insert date]* day of *[insert month]*, *[insert year]* between *[name and address of PROCURING ENTITY]* (hereinafter called the "Entity") and *[name and address of Contractor]* (hereinafter called the "Contractor").

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

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - a. Philippine Bidding Documents (PBDs);
    - i. Drawings/Plans;
    - ii. Specifications;
    - iii. Bill of Quantities;
    - iv. General and Special Conditions of Contract;
    - v. Supplemental or Bid Bulletins, if any;
  - b. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;  
  
Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  - c. Performance Security;
  - d. Notice of Award of Contract and the Bidder's conforme thereto; and
  - e. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

*[Insert Name and Signature] [Insert Name and Signature]*

*[Insert Signatory's Legal Capacity] [Insert Signatory's Legal Capacity]*

*for: for:*

*[Insert Procuring Entity] [Insert Name of Supplier]*

**Acknowledgment**

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

LIST OF ALL ON-GOING GOVERNMENT AND PRIVATE CONTRACTS

NAME OF CONTRACTOR: \_\_\_\_\_

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE	PERCENTAGE		VALUE OF OUTSTANDING WORKS (IN PHP)
									ACTUAL ACCOMPLISHMENT	PLANNED ACCOMPLISHMENT	

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page \_\_\_\_\_ of \_\_\_\_\_



SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID

NAME OF CONTRACTOR: \_\_\_\_\_

PROJECT TITLE: \_\_\_\_\_

PROJECT TITLE (Name of the Contract) & EXACT PROJECT LOCATION	DATE OF CONTRACT	CONTRACT DURATION	PROJECT OWNER & POSTAL ADDRESS	NATURE OF WORK	CONTRACTOR'S ROLE (SOLE CONTRACTOR, SUBCONTRACTOR, PARTNER IN A JV) and PERCENTAGE OF PARTICIPATION	TOTAL CONTRACT VALUE AT AWARD	DATE OF COMPLETION or ESTIMATED COMPLETION TIME	TOTAL CONTRACT VALUE AT COMPLETION IF APPLICABLE

PHOTOCOPY ADDITIONAL FORMS, IF NECESSARY

Page \_\_\_\_\_ of \_\_\_\_\_

**LIST OF MAJOR EQUIPMENT TO BE USED FOR THE PROJECT**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

TYPE	DESCRIPTION / CAPACITY	SERIAL NO.	YEAR ACQUIRED	PRESENT LOCATION (SPECIFIC ADDRESS)	STATUS OF AVAILABILITY (OWNED/LEASED)



**A. LIST OF KEY CONSTRUCTION PERSONNEL TO BE ASSIGNED TO THE PROJECT**

**NAME OF CONTRACTOR:** \_\_\_\_\_

**PROJECT TITLE:** \_\_\_\_\_

NAME	POSITION	AGE	EDUCATIONAL ATTAINMENT	TYPE OF CONSTRUCTION EXPERIENCE	NO.OF YEARS WITH THE CONTRACTOR	PROFESSION	PRC NO.

## COMPUTATION OF NET FINANCIAL CONTRACTING CAPACITY (NFCC)

NAME OF BIDDER: \_\_\_\_\_

CURRENT ASSETS*		PHP	_____
(LESS) CURRENT LIABILITIES*	(LESS)	PHP	_____
NETWORTH		PHP	_____
NETWORTH x 15	x 15	PHP	_____
(LESS) VALUE OF ALL OUTSTANDING ON-GOING CONTRACTS**	(LESS)	PHP	_____
(LESS) VALUE OF ALL AWARDED BUT NOT YET STARTED CONTRACTS AS OF DATE**	(LESS)	PHP	_____
<b>NET FINANCIAL CONTRACTING CAPACITY</b>		PHP	_____

NOTES:      \* CURRENT ASSETS AND LIABILITIES BASED ON AUDITED FINANCIAL STATEMENT FOR THE PRECEDING CALENDAR YEAR SUBMITTED TO B.I.R.

             \*\* BASED ON LIST OF ON-GOING AND AWRDED BUT NOT VEY STARTED CONTRACTS SUBMITTED

REPUBLIC OF THE PHILIPPINES)

\_\_\_\_\_ ) S.S.

### AFFIDAVIT OF UNDERTAKING

I, \_\_\_\_\_ of legal age, Filipino, \_\_\_\_\_ **[OFFICER OR REPRESENTATIVE]**

with office address at \_\_\_\_\_ after having been duly sworn to in accordance with law, hereby voluntary depose and state:

That I am duly authorized representative of the **[Name of Bidder]** to execute this undertaking as evidenced by Secretary's Certificate and Board Resolution.

That **[Name of Bidder]** bidding for the (Name of Project)

That relative to the aforementioned Project, the **[Name of Bidder]** hereby undertake that the equipment to be use and the key personnel to be assign shall exclusively be used and will only perform to the said project until its completion.

That I am executing this affidavit to attest to the truth of the foregoing and in compliance with the submission of the technical requirements for the public bidding of the said project.

IN WITNESS HEREOF, I have hereunto signed my name below this \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_.

AFFIANT FURTHER SAYETH NAUGHT.

\_\_\_\_\_  
Affiant

SUBSCRIBED AND SWORN TO BEFORE ME this \_\_\_\_\_ day of \_\_\_\_\_  
in \_\_\_\_\_

affiant exhibiting to me his/her \_\_\_\_\_ issued at \_\_\_\_\_  
on \_\_\_\_\_.

Doc. No. ;  
Page No. ;  
Book No. ;  
Series of 2020

\_\_\_\_\_  
Notary Public

