

# PHILIPPINE BIDDING DOCUMENTS



**Name of Project/Location : Rehabilitation /  
Major Improvement of Parian Pumping  
Station at Parian Creek, Villa Abesa, Bgry.  
Pinagbuhatan, Pasig City**

**Approved Budget for the Contract: P 46,449,346.02**

**Government of the Republic of the Philippines**

**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.



## *Section I. Invitation to Bid*

### **Invitation to Bid for Rehabilitation / Major Improvement of Parian Pumping Station at Parian Creek, Villa Abesa, Bgry. Pinagbuhatan, Pasig City.**

1. The **City Government of Pasig**, through the Annual or Supplemental Budget, as approved by the Sanggunian intends to apply the sum of **PHP 46,449,346.02** being the Approved Budget for the Contract (ABC) to payments under the contract for **Rehabilitation / Major Improvement of Parian Pumping Station at Parian Creek, Villa Abesa, Bgry. Pinagbuhatan, Pasig City.** Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.
2. The **City Government of Pasig** now invites bids for the above Procurement Project. Completion of the Works is required **240 calendar days**. Bidders should have completed a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
4. Interested bidders may obtain further information from City Government of Pasig and inspect the Bidding Documents at the address given below from 8:00 A.M. to 5:00 P.M. office hours.
5. A complete set of Bidding Documents may be acquired by interested bidders on **April 26, 2024** from given address and website/s below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of PHP25,000.00*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person.
6. The City Government of Pasig will hold a Pre-Bid Conference<sup>1</sup> on **May 3, 2024, 1:30 P.M.**, at **7<sup>th</sup> Floor Meeting Room, Pasig City Hall** which shall be open to prospective bidders.
7. **Bids must be duly received by the Procurement Management Office (BAC Secretariat Office) through manual submission at the office address as indicated below, on or before 9:30 A.M. of May 15, 2024. Late bids shall not be accepted.**
8. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 16**.
9. Bid opening shall be on **May 15, 2024 at 10:00 A.M.** at the given address below **7<sup>th</sup> Floor Meeting Room, Pasig City Hall**. Bids will be opened in the presence of the bidders’ representatives who choose to attend the activity.

10. **The address for submission of bids is at the Procurement Management Office (BAC Secretariat Office), 4<sup>th</sup> Floor Pasig City Hall Caruncho Avenue, San Nicolas Pasig City. The deadline for submission of bids is on or before 9:30 A.M. of May 15, 2024.**

Each Bidder shall submit **ONE (1) SEALED MOTHER ENVELOPE** containing:

**1. ORIGINAL (SEALED AND LABELED)**

1.1. Hard Copy Original Technical Components and

1.2. Hard Copy Original Financial Components and

1.3 One (1) **USB Flash Drive** containing scanned P.D.F. Documents of the Original Technical Components and Original Financial Components.

**2. COPY 1 (SEALED AND LABELED)**

2.1. One (1) **USB Flash Drive** or **CD** sealed and labeled as “**COPY 1**” containing scanned P.D.F Documents of Technical and Financial Components.

11. The **City Government of Pasig** 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.
12. For further information, please refer to:

**ATTY. BEA THERESE P. VILLANUEVA**  
*Officer in Charge, Procurement Management Office*  
**CITY GOVERNMENT OF PASIG**  
*Procurement Management Office, 4<sup>th</sup> Floor, Pasig City Hall,*  
*Caruncho Ave., San Nicolas Pasig City*  
*bidsandawards@pasigcity.gov.ph*  
*8643-1111 loc. 1461*

13. You may visit the following websites:  
For downloading of bidding documents  
*PS-Philgeps Website*  
*Pasig City Website*

**April 26, 2024**

**SGD.**  
**ATTY. JOSEPHINE C. LATI-BAGAOISAN**  
*BAC Chairperson*

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

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

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



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

### **1. Scope of Bid**

The Procuring Entity, **City Government of Pasig** invites Bids for the **Rehabilitation / Major Improvement of Parian Pumping Station at Parian Creek, Villa Abesa, Bgry. Pinagbuhatan, Pasig City**, with Project Identification Number **PB-05-15-2024-01**.

*[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 **CY 2024** in the amount of **PHP 46,449,346.02**.

2.2. The source of funding is:

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 Procuring Entity has prescribed that:
  - a. Subcontracting is not allowed.
- 7.2. 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 as indicated in paragraph 6 of the **IB**.

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

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

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

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section IX. Checklist of Technical and Financial Documents**.
- 10.2. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. For Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.
- 10.3. A valid special PCAB License in case of Joint Ventures, 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 shall be valid until **120 calendar days**. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

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

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

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

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

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

The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

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

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

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

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

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

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

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

## **INSTRUCTION TO BIDDERS**

PROJECT : Rehabilitation / Major Improvement of Parian Pumping Station  
at Parian Creek, Villa Abesa, Bgry. Pinagbuhatan, Pasig City

Date : April 26, 2024

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This shall form an integral part of the Bid Documents.

1. Bidders are requested to organize and submit their bids on the following requirements:

1. *Submit First (1<sup>st</sup>) Envelope containing one (1) hardcopy of the ORIGINAL Technical Component, including the Eligibility Requirements. 1<sup>st</sup> Envelope shall be sealed and labeled as "ORIGINAL TECHNICAL COMPONENT".*
2. *Submit Second (2<sup>nd</sup>) Envelope containing one (1) hard copy of the ORIGINAL Financial Component. 2<sup>nd</sup> Envelope shall be sealed and labeled as "ORIGINAL FINANCIAL COMPONENT".*
3. *Submit USB Flash Drive containing one (1) soft/scanned copy of the ORIGINAL Technical Component and Financial Component;*  
  
***Note:** The 1<sup>st</sup> Envelope, 2<sup>nd</sup> Envelope and the USB flash drive containing the soft/scanned copy of the original technical and financial components shall be enclosed in a single envelope, sealed and labeled as "ORIGINAL BID".*
4. *Submit USB Flash Drive containing one (1) soft/scanned copy of the Technical Component and Financial Component. USB flash drive shall be enclosed in a separate envelope, sealed and labeled as "COPY1".*
5. *The "ORIGINAL BID" and "COPY 1" envelopes shall be enclosed in a single MOTHER ENVELOPE sealed and properly labeled.*

*\*Sections of the bid shall be separated by dividers, proper tabs;*

*\***NO** scratch papers.*

All envelopes (1<sup>st</sup> Envelope, 2<sup>nd</sup> Envelope, Original Bid Envelope, Copy 1 Envelope and Mother Envelope) shall be labeled as follows:

- **Addressed to the procuring entity’s BAC Chairperson**
  - **Name of the project/contract to be bid**
  - **Name, address and contact details of the bidder including e-mail address**
  - **“DO NOT OPEN BEFORE <bid opening date and time>”**
- ✓ Unsealed or unmarked bid envelopes shall be rejected. However, bid envelopes that are not properly sealed and marked, as required in the bidding documents, shall be accepted, provided that the bidder or its duly authorized representative shall acknowledge such condition of the bid as submitted. The Procuring Entity shall not be responsible for misplaced Bidding Documents and premature opening.

**BIDDING DOCUMENTS AVAILABILITY AND FEE**

- Bidding Documents:
  - **April 26, 2024 to May 15, 2024 until 9:30 A.M.**
  - 8:00 am to 5:00 pm and upon payment of applicable fees for the Bidding Documents at the City Treasurer’s Office.
- Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.
- Standard rates for bidding documents

Approved Budget for the Contract	Maximum Cost of Bidding Documents
500,000 and below	P500.00
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

**INSTRUCTION TO BIDDERS ON PAYMENT OF BIDDING DOCUMENTS**

- Secure Order of Payment for the bidding documents at the Procurement Management Office, 4<sup>th</sup> Floor Pasig City Hall.



- Proceed to City Treasurer's Office, 1<sup>st</sup> Floor Pasig City Hall for the payment of bidding documents.
- Mode of payment: Cashier Manager's/Cashier's Check payable to City Government of Pasig
  - **Personal Check shall not be accepted.**
- Present the Official Receipt to the BAC Secretariat's Office for the release of the complete Set of bidding documents.

**REMINDERS:**

- The **deadline for the submission of bid is on May 15, 2024 at 9:30 AM at the Procurement Management Office, 4<sup>th</sup> Floor Pasig City Hall, Caruncho Ave., San Nicolas Pasig City.** The digital clock at the Procurement Management Office that is set to the Philippine Time (PhST) shall be used as reference in determining the time for the submission of bids, Hence participating bidders are advised to synchronize their timepiece with the said digital clock. **Late bids or those who submitted after 9:30 AM of May 15, 2024 shall not be accepted.**
- Bidders may submit their bid documents days ahead of the deadline for the submission in order to avoid late submission.
- **Bid opening shall be on May 15, 2024 at 10:00 AM at 7<sup>th</sup> Floor Meeting Room, Pasig City Hall, Caruncho Ave., San Nicolas Pasig City.** Bids will be opened in the presence of the bidders' representatives who choose to attend.
- All licenses, permits and other required clearances should be valid at the time of the submission of bids, Post-Qualification Evaluation and signing of the contract.

- *The BAC expects the bidders to exercise due diligence in going through the bid documents so that they can prepare their bids intelligently.*
- *The Bids and Awards Committee will still continue to implement social distancing and shall require only one (1) Representative per company.*
- All attendees will be subjected to thermal scan prior to entry of the venue and shall:
  1. Wear medical face mask and face shield at all times–**“No Mask No Entry”**
  2. Bring black ballpen
  3. Bring alcohol

**Please be reminded that all queries after the issuance of Bid Bulletin will not be entertained.**

**SGD.**

**ATTY. JOSEPHINE C. LATI-BAGAOISAN**

BAC Chairperson

## *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.

## *Section III. Bid Data Sheet*

### **Bid Data Sheet**

ITB Clause																					
5.2	<p>For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be:</p> <p><b><u>The Bidder must have an experience of having completed a Single Largest Completed Contract (SLCC) that is similar to this Project- Irrigation or Flood Control Works, equivalent to at least fifty percent (50%) of the ABC.</u></b></p>																				
7.1	Subcontracting is not allowed.																				
10.3	<p>The Bidder must have a valid Philippine Contractors Accreditation Board (PCAB) license and registration for Size Range – <b><u>Medium A- Irrigation or Flood Control</u></b></p> <p>License at least Category: <b><u>General Engineering- B</u></b></p>																				
10.4	<p>The key personnel must meet the required minimum years of experience set below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">KEY PERSONNEL</th> <th style="text-align: center;">QTY.</th> <th style="text-align: center;">GENERAL EXPERIENCE</th> <th style="text-align: center;">RELEVANT EXPERIENCE</th> </tr> </thead> <tbody> <tr> <td>Project Engineer (PE)</td> <td style="text-align: center;">1</td> <td>Licensed Civil Engineer</td> <td>With a minimum of 5 years in building construction projects handled as Project Engineer</td> </tr> <tr> <td>Electrical Engineer</td> <td style="text-align: center;">1</td> <td>Licensed Electrical Engineer</td> <td>With a minimum of 3 years as electrical engineer on building construction projects</td> </tr> <tr> <td>Safety Officer</td> <td style="text-align: center;">1</td> <td>At least 3 years experience</td> <td>With a minimum of 3 years in building construction projects handled as Safety Officer</td> </tr> <tr> <td>Foreman</td> <td style="text-align: center;">1</td> <td>At least 3 years experience</td> <td>With a minimum of 3 years in building construction projects</td> </tr> </tbody> </table> <p>The Bidder shall submit the corresponding bio-data of the above key personnel that includes description of his/her relevant experience. The bio-data shall include a statement of availability of the key personnel for the duration of the project, signed by the named key personnel. The key personnel can be a current or on-call employee, or a consultant of the company.</p>	KEY PERSONNEL	QTY.	GENERAL EXPERIENCE	RELEVANT EXPERIENCE	Project Engineer (PE)	1	Licensed Civil Engineer	With a minimum of 5 years in building construction projects handled as Project Engineer	Electrical Engineer	1	Licensed Electrical Engineer	With a minimum of 3 years as electrical engineer on building construction projects	Safety Officer	1	At least 3 years experience	With a minimum of 3 years in building construction projects handled as Safety Officer	Foreman	1	At least 3 years experience	With a minimum of 3 years in building construction projects
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10.5	<p>The minimum major equipment requirements are the following:</p> <table border="1" data-bbox="384 293 1401 450"> <thead> <tr> <th data-bbox="384 293 722 331"><u>Equipment</u></th> <th data-bbox="722 293 1061 331"><u>Capacity</u></th> <th data-bbox="1061 293 1401 331"><u>Number of Units</u></th> </tr> <tr> <th data-bbox="384 331 722 369"><b>EQUIPMENT</b></th> <th data-bbox="722 331 1061 369"><b>NUMBER OF UNITS</b></th> <th data-bbox="1061 331 1401 369"><b>CAPACITY</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="384 369 722 407">Elf Truck</td> <td data-bbox="722 369 1061 407">1</td> <td data-bbox="1061 369 1401 407">35.31 ft 3</td> </tr> <tr> <td data-bbox="384 407 722 445">Mini Excavator</td> <td data-bbox="722 407 1061 445">1</td> <td data-bbox="1061 407 1401 445">1T</td> </tr> <tr> <td data-bbox="384 445 722 483">Dump Truck</td> <td data-bbox="722 445 1061 483">1</td> <td data-bbox="1061 445 1401 483">12 yd 3</td> </tr> </tbody> </table>	<u>Equipment</u>	<u>Capacity</u>	<u>Number of Units</u>	<b>EQUIPMENT</b>	<b>NUMBER OF UNITS</b>	<b>CAPACITY</b>	Elf Truck	1	35.31 ft 3	Mini Excavator	1	1T	Dump Truck	1	12 yd 3
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Elf Truck	1	35.31 ft 3														
Mini Excavator	1	1T														
Dump Truck	1	12 yd 3														
12	No further instructions.															
15.1	<p>The bid security shall be in the form of a <i>Bid Securing Declaration</i> or any of the following forms and amounts:</p> <ol style="list-style-type: none"> <li>The amount of not less than <i>2% of ABC</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>The amount of not less than <i>5% of ABC</i> if bid security is in Surety Bond.</li> </ol>															
19.2	No further instructions.															
20	<p>The following licenses/s and permit/s shall be required:</p> <ol style="list-style-type: none"> <li>Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives of its equivalent document</li> <li>Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located.</li> <li>Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR)</li> <li>Valid PCAB License Category: <b><u>General Engineering- B</u></b> and Registration of at least <b><u>Medium A- Irrigation or Flood Control</u></b></li> <li>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.</li> <li>Latest income and business tax returns</li> <li>Valid licenses issued by the Professional Regulatory Commission (PRC);</li> </ol> <p>No other acceptable proof of registration is recognized.</p>															
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as construction schedule and PERT/CPM S-curve, manpower schedule, construction methods, equipment utilization schedule, construction safety and health program approved by the DOLE, and other acceptable tools of project scheduling.</p>															

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

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

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

Matters governing performance of the 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.

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

### **1. Scope of Contract**

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

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

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

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

### **3. Possession of Site**

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

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

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

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

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

## **5. Performance Security**

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

## **6. Site Investigation Reports**

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

## **7. Warranty**

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

## **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.

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

### **Special Conditions of Contract**

<b>GCC Clause</b>	
2	The <b>Intended Completion Date</b> is <u>240 calendar days</u> .
3.1	The <b>Procuring Entity</b> shall give possession of all parts of the Site to the Contractor upon the issuance of Notice to Proceed.
6	No further instructions.
7.2	<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: Fifteen (15) years.</i></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: Five (5) years.</i></p> <p><i>In case of other structures, such as Bailey and wooden bridges, shallow wells, spring developments, and other similar structures: Two (2) years.</i></p>
10	Dayworks are applicable at the rate shown in the Contractor's original Bid.
11.1	The Contractor shall submit the Program of Work showing the general methods, arrangements, order, and timing for all the activities in the Works to the Procuring Entity's Representative within ten (10) days of delivery of the Notice of Award.
11.2	The amount to be withheld for late submission of an updated Program of Work is one percent (1%).
13	Advance payment shall be made only upon the submission to and acceptance by the Procuring Entity. The amount of the advance payment is fifteen percent (15%) of the Contract price.
14	No further instructions.
15.1	If required, the Contractor will provide "as built" Drawings and/or operating and maintenance manuals within thirty (30) calendar days from the completion of the project.
15.2	The amount to be withheld for failing to produce "as built" drawings and/or operating and maintenance manuals by the date required is one percent (1%) of the final contract amount.

## *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.

## ***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.]*

## *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.

## ***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.

**Republic of the Philippines**  
**BIDS AND AWARDS COMMITTEE**  
**City Government of Pasig**

Name of Bidder : \_\_\_\_\_  
Name of Contract : \_\_\_\_\_  
Approved Budget Contract : \_\_\_\_\_  
Bidding Date : \_\_\_\_\_

(Note: Checklist is to be filled up by the BAC only)

**I. TECHNICAL COMPONENT ENVELOPE FOR THE PROCUREMENT OF INFRASTRUCTURE PROJECTS**

***Class "A" Documents***

Legal Documents

- (a) Valid PhilGEPS Certificate of Platinum Registration and Membership with additional caveat in accordance with Section 8.5.2 of the 2016 Revised IRR of RA 9184 amended through GPPB Resolution No. 15-2021, provided that all of Class "A" eligibility documents submitted to PhilGEPS are maintained and updated;

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided under the rules (Contractors under Small A and Small B categories without similar experience on the contract to be bid may be allowed to bid if the cost of such contract is not more than the Allowable Range of Contract Cost (ARCC) of their registration based on the guidelines as prescribed by the PCAB.); **and**
- (d) Special PCAB License in case of Joint Ventures; **and** registration for the type and cost of the contract to be bid; **and**
- (e) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- (f) Project Requirements, which shall include the following:
- a. Organizational chart for the contract to be bid; **and**
- 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; **and**
- c. Duly signed Manpower Schedule; **and**
- d. List of contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership or certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be; **and**
- e. Equipment utilization schedule; **and**
- f. Duly signed Construction Schedule (PERT/CPM) and S-curve; **and**
- g. Duly signed Construction Method in narrative form; **and**
- h. Construction Safety and Health Program; **and**
- (g) Original duly signed Omnibus Sworn Statement (OSS);

**and** if applicable, Original Notarized Secretary’s Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (h) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC).

**Class “B” Documents**

- (i) 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.

**NOTE:** Any missing document/s on the above mentioned checklist is a ground for outright disqualification/ rejection of the bid.

**REMARKS:**  **PASSED**  **FAILED**

**ACKNOWLEDGMENT:** (Please see above “note” Do not fill up/sign if documents are marked passed)  
 This is to acknowledge receipt of the first and second envelopes which is being returned because of disqualification due to deficiencies and non-compliance with checklist therein.

\_\_\_\_\_  
 Signature over printed name/Representative of Bidder

\_\_\_\_\_  
 Date Received

CHECKED AND VERIFIED BY:

SIGNATURE:

**ATTY. JOSEPHINE C. LATI-BAGAOISAN**  
 Chairperson

\_\_\_\_\_

**ATTY. DIEGO LUIS S. SANTIAGO**  
 Vice Chairperson

\_\_\_\_\_

**DR. EMMA MEJIA-SANCHEZ**  
 Member

\_\_\_\_\_

**DR. STUART G. SANTOS**  
 Member

\_\_\_\_\_

**DR. JEANNA V. PLES**  
 Member

\_\_\_\_\_

**AR. LEA V. OLIVAR**  
 Member

\_\_\_\_\_

**ENGR. JOHNNY L. CALATA**  
 Member

\_\_\_\_\_

**ATTY. KATHLEEN MAE M. VILLAMIN**  
Alternate Member \_\_\_\_\_

**MR. JOSE REY Q. ESPINA**  
Alternate Member \_\_\_\_\_

**ATTY. BERNICE C. MENDOZA**  
Alternate Member \_\_\_\_\_

**ATTY. RAUL. G. CORALDE**  
Alternate Member \_\_\_\_\_

**ATTY. JOHNSON L. VILLARUEL**  
Alternate Member \_\_\_\_\_

Attested by:

**ATTY. BEA THERESE P. VILLANUEVA**  
Officer in Charge, Procurement Management Office

**Republic of the Philippines  
BIDS AND AWARDS COMMITTEE  
City Government of Pasig**

Name of Bidder : \_\_\_\_\_  
 Name of Contract : \_\_\_\_\_  
 Approved Budget Contract: \_\_\_\_\_  
 Bidding Date : \_\_\_\_\_

(Note: Checklist is to be filled up by the BAC only)

**II. FINANCIAL COMPONENT ENVELOPE FOR THE PROCUREMENT OF INFRASTRUCTURE PROJECTS**

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

Other documentary requirements under RA No. 9184

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

(l) 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**

(m) Cash Flow by Quarter.

**NOTE:**

Any missing document/s on the above-mentioned checklist is a ground for outright disqualification/ rejection of the bid.

**REMARKS:**  PASSED  FAILED

**ACKNOWLEDGMENT:** (Please see above "note" Do not fill up/sign if documents are marked passed)

This is to acknowledge receipt of the first and second envelopes which is being returned because of disqualification due to deficiencies and non-compliance with checklist therein.

\_\_\_\_\_  
Signature over printed name/Representative of Bidder

\_\_\_\_\_  
Date Received

CHECKED AND VERIFIED BY:

SIGNATURE:

**ATTY. JOSEPHINE C. LATI-BAGAOISAN**  
Chairperson

\_\_\_\_\_

**ATTY. DIEGO LUIS S. SANTIAGO**  
Vice Chairperson

\_\_\_\_\_

**DR. EMMA MEJIA-SANCHEZ**  
Member

\_\_\_\_\_

**DR. STUART G. SANTOS**  
Member

\_\_\_\_\_

**DR. JEANNA V. PLES**  
Member

\_\_\_\_\_

- AR. LEA V. OLIVAR**  
Member \_\_\_\_\_
- ENGR. JOHNNY L. CALATA**  
Member \_\_\_\_\_
- ATTY. KATHLEEN MAE M. VILLAMIN**  
Alternate Member \_\_\_\_\_
- MR. JOSE REY Q. ESPINA**  
Alternate Member \_\_\_\_\_
- ATTY. BERNICE C. MENDOZA**  
Alternate Member \_\_\_\_\_
- ATTY. RAUL. G. CORALDE**  
Alternate Member \_\_\_\_\_
- ATTY. JOHNSON L. VILLARUEL**  
Alternate Member \_\_\_\_\_

Attested by:

**ATTY. BEA THERESE P. VILLANUEVA**  
Officer in Charge, Procurement Management Office

**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.**

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]*

## **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 there of 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 here unto 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]*

**Statement of All Ongoing Government and Private Contracts Including Contracts Awarded But Not Yet Started, If Any, Whether Similar or Not in Nature and Complexity to the Contract to be Bid**

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

Business Address: \_\_\_\_\_

Name of the Contract and Project Location	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Amount of Contract and Value of Outstanding Contract	a. Date of Contract b. Duration of the Contract c. Estimated Date of Completion	Bidder's Role		% of Accomplishment (based on latest % accomplishment report with a cut-off date of not earlier than October 2023)	
					Description	%	Planned	Actual
<b>Ongoing</b>								
<b>Contracts Awarded But Not Yet Started</b>								

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_

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

## Statement of Single Largest Completed Contract (SLCC)

**(Similar to the contract to be bid,  
the value of which must be at least fifty percent (50%) of the ABC)**

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

Business Address: \_\_\_\_\_

Name of the Contract	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Amount of Contract	a. Date of Contract b. Duration of the Contract c. Date Completed	Bidder's Role		Total Contract Value at Completion
					Description	%	

Note: Attach a copy of the: 1) Notice of Award, Notice to Proceed, and/or official receipt(s); and 2) Certificate of Final Acceptance/Certificate of Satisfactory Completion. All the SLCC required documents should be issued by the client for the specified SLCC.

Submitted by : \_\_\_\_\_  
(Printed Name & Signature)

Designation : \_\_\_\_\_

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

## NFCC COMPUTATION FOR ELIGIBILITY CHECK

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

	Year 20_____
1.Total Assets	
2.Current Assets	
3.Total Liabilities	
4.Current Liabilities	
5.Net Worth(1-3)	
6.Net Working Capital (2-4)	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

**NFCC=[(Current assets minus current liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.**

The values of the domestic bidder's current assets and current liabilities shall be based on the latest Audited Financial Statements (AFS) submitted to the BIR.

NFCC=P\_\_\_\_\_

Submitted by:

\_\_\_\_\_

Name of Supplier/ Distributor/ Manufacturer:

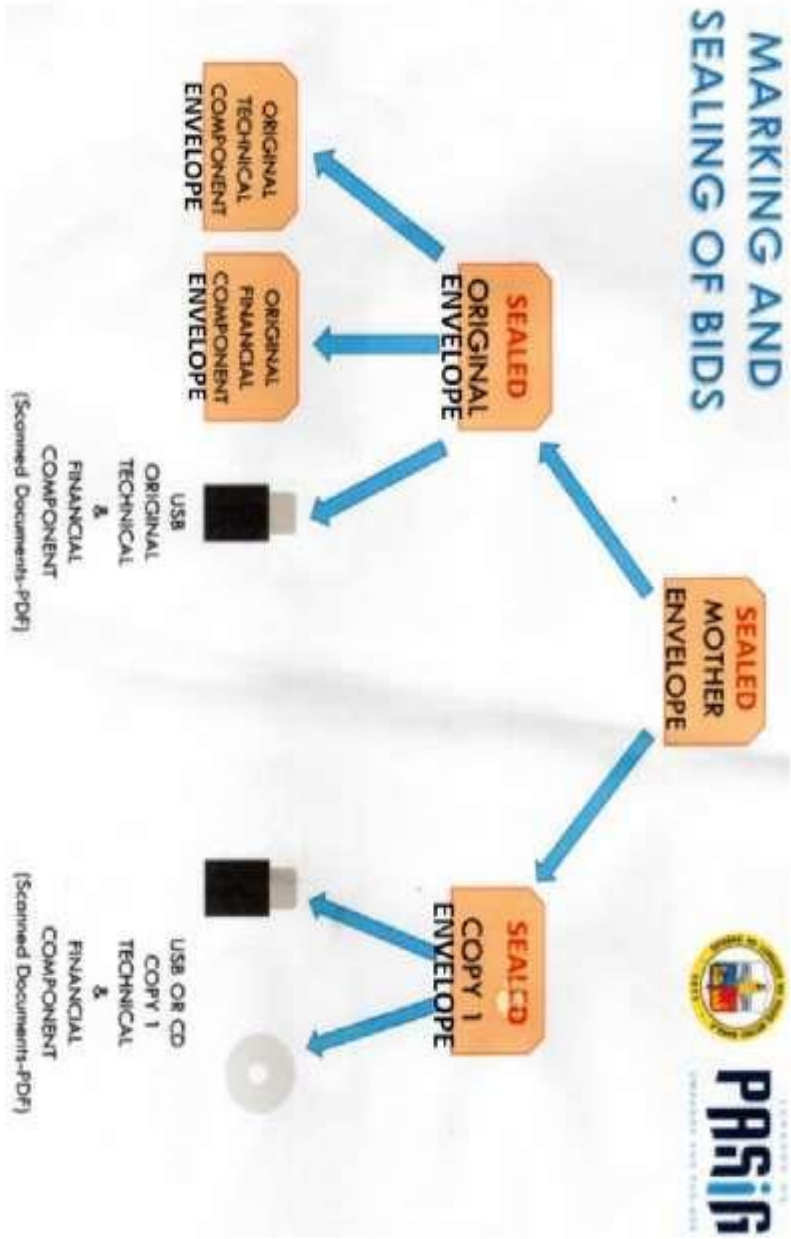
\_\_\_\_\_

Signature of Authorized Representative:

\_\_\_\_\_

Date:

# MARKING AND SEALING OF BIDS





Form No. : \_\_\_\_\_  
Date : \_\_\_\_\_  
Page No. : 1 OF 3

NAME OF PROJECT : REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION  
LOCATION : PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY  
Source of Funds : 20% CDF Calendar Days to Complete : 240 CD  
Issued Obligated Author : \_\_\_\_\_ Desirable Starting Date : \_\_\_\_\_

MINIMUM EQUIPMENT REQUIREMENT				TECHNICAL PERSONNEL REQUIRED			
DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.
ELF TRUCK	1	DUMP TRUCK	1	CIVIL ENGINEER	1	ELEC. ENGINEER	1
MINI EXCAVATOR	1			FOREMAN	1	SAFETY OFFICER	1

ESTIMATED COST OF PROPOSED WORK:

ITEM NO.	DESCRIPTION	% Wt.	QUANTITY	UNIT	UNIT COST	AMOUNT
1.0	<b>MOBLIZATION</b>	0.98%	1.00	lot		
2.0	<b>PRELIMINARIES</b>					
	- Occupational Safety and Health Program		8.00	mos.		
	- Bunkhouse / Temporary Facilities		30.00	sq. m.		
	- Temporary Barricade		20.00	li. m.		
	- Dewatering		24.00	cu. m.		
	- Dismantling and Hauling of Existing Pumping Station		541.00	sq. m.		
	- Soil Testing		2.00	holes		
		2.49%				
3.0	<b>EARTHWORKS</b>					
	- Concrete Breaking and Disposal		127.00	sq. m.		
	- Hauling of Debris		103.00	cu. m.		
	- Sheet piling / shoring protection (rental)		60.00	pcs.		
	- Gravel Bedding		12.00	cu. m.		
	- Disposal of Excavated Materials/Unsuited Materials		8.00	cu. m.		
	- Excavation		304.00	cu. m.		
		0.98%				
4.0	<b>STRUCTURAL WORKS</b>					
	- Reinforcing Steel Bars, Grade 60 (10mm dia., 12mm dia., 16mm dia., 20mm dia.)		18,303.00	kgs.		
	- #16 G.I Tie Wire		8.00	rolls		
	- Oxy-acetylene / Cutting Outfit		1.00	set		
	- Ready Mix Concrete (4000 psi - 14 days)		137.00	cu. m.		
	- Rental of Pumpcrete		4.00	sets		
	- Columns / Footings / FTB		93.00	sq. m.		
	- Beam / Gutter / Stairs		53.00	sq. m.		
	- Scaffolds		34.00	sq. m.		
	- Labor		90.00	sq. m.		
	- Falsework / Rental of H-frame and Shoring		54.00	sq. m.		
	- Labor and Equipment		54.00	sq. m.		
	- Stripping of Forms		180.00	sq. m.		
	- Flat Bar 1-1/2" x 1/4"		30.00	pcs.		
	- Stainless Steel Flat Bar 1-1/2"x-1/4"		30.00	pcs.		
	- Stainless Steel Flat Bar 1"x1/4"		14.00	pcs.		
	- G.I. Pipe - Round Bar 1-1/2"x1/4"		14.00	pcs.		
	- G.I. Pipe - Round Bar 1"x1/4"		11.00	pcs.		
	- Angle Bar 2" x 2" x 1/4"		8.00	pcs.		
	- Stainless Steel Angle Bar 2" x 2" x 1/4"		11.00	pcs.		
	- Stainless Steel Angle Bar 1-1/2" x 1-1/2" x 1/4"		8.00	pcs.		
	- Stainless Angle Bar 1" x 1" x 1/4"		8.00	pcs.		
	- Assorted CW Nails		6.00	kgs.		
	- Welding Rod for Stainless Steel (3/32)		3.00	box		
	- (5.5 mm) Mesh #4 x 2" x 2'x 6' x 20'		3.00	pcs.		
		7.10%				
5.0	<b>PLUMBING FIXTURES AND TOILET ACCESSORIES</b>					
	<i>(Use PVC Pipes and Fittings of S-1000, SDR 35, ASTM D2729 and IOS 3633)</i>					
	- PVC Pipe 4" x 3m		2.00	pcs.		
	- PVC Pipe 2" x 3m		2.00	pcs.		
	- PVC Wye 4" x 4"		1.00	pcs.		
	- PVC Wye Reducer 4" x 2"		1.00	pcs.		
	- PVC Elbow 4" x 90 degrees		4.00	pcs.		
	- PVC Elbow 4" x 45 degrees		4.00	pcs.		
	- PVC Elbow 2" x 90 degrees		2.00	pcs.		
	- PVC Elbow 2" x 45 degrees		2.00	pcs.		
	- PVC Tee 4" x 2"		1.00	pcs.		
	- PVC Tee 4"		2.00	pcs.		
	- PVC Tee 2"		2.00	pcs.		
	- PVC P-Trap 2"		1.00	pcs.		
	- PVC Clean-Out 4"		1.00	pcs.		
	- Solvent 400cc		1.00	can		
	- Water Closet		1.00	unit		
	- Floor Drain		1.00	unit		
	- Portable Septic Tank - PVC (1 cu. M.)		1.00	unit		
		0.05%				



NAME OF PROJECT : REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION  
LOCATION : PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY

ESTIMATED COST OF PROPOSED WORK:

ITEM NO.	DESCRIPTION	% Wt.	QUANTITY	UNIT	UNIT COST	AMOUNT
<b>6.0</b>	<b>MASONRY / ARCHITECTURAL WORKS</b>					
	- 6" CHB Wall with reinforcement		288.00	sq. m.		
	- Plastering Works		576.00	sq. m.		
	- Painting Works		576.00	sq. m.		
	- Louver Blocks		10.00	sq. m.		
	- Water Proofing		113.00	sq. m.		
	- Aluminum Shutter Doors (2.1m x 2m)		2.00	pcs.		
	- Spiral Steel Ladder (h=3.0m)		1.00	pcs.		
	- Metal Door Standard		2.00	set		
	- PVC Door Standard		2.00	pcs.		
	- Hinges		12.00	pcs.		
	- Door Knob		4.00	pcs.		
	- Steel Casement Window w/ Built-in Grills		93.00	sq. ft.		
		1.81%				
<b>7.0</b>	<b>FLOODGATE/BARSCREEN</b>					
	- Steel Sluice Gate (1.2 x 3m) w/raising stem	0.70%	2.00	unit		
<b>8.0</b>	<b>ELECTRICAL FIXTURES</b>					
	- LED Bulb w/ Receptacle, 9 watts, 25k Burning Hrs, 110-240V		1.00	pcs.		
	- 1 x 9 Watts LED Tube in Dust-proof Polycarbonate Enclosure		8.00	pcs.		
	- Emergency Light, Twin Head LED bulb, 230 volts, 20-30 hrs		4.00	pcs.		
	- Orbit Fan, 16" dia. Standards, 220v		3.00	pcs.		
	- Duplex Universal Outlet Wide Series w/ Ground, 16 amps rating, 2		4.00	pcs.		
	- Simplex Universal Outlet Wide Series w/Ground 16 amps rating, 2		4.00	pcs.		
	- One Gang Switch, Wide Type, 16 amps rating w/ cover plate		1.00	pcs.		
	- Industrial Heavy-duty 24" Exhaust Fan		1.00	pcs.		
	- 200W Solar-powered Flood Light w/ Solar Panel		4.00	pcs.		
	- Two Gang Switch, Wide Type, 16 amps rating w/ cover plate		1.00	pcs.		
		0.26%				
<b>9.0</b>	<b>ELECTRICAL WIRES AND CONDUITS</b>					
	- 2.0 mm <sup>2</sup> THHN		150.00	li. m.		
	- 3.5 mm <sup>2</sup> THHN		223.00	li. m.		
	- 8.0 mm <sup>2</sup> THHN		30.00	li. m.		
	- 20 mm dia. PVC, sch. 40		30.00	pcs.		
	- 32 mm dia. PVC, sch. 40		1.00	pcs.		
	- 32 mm dia. RSC x 10 ft.		1.00	pcs.		
	- Junction Box, deep type, G.I. Gauge #16		11.00	pcs.		
	- Utility Box, deep type, G.I. Gauge #16		16.00	pcs.		
	- Threaded Entrance Cap, 32 mm dia.		1.00	pcs.		
	- PVC Solvent 1 liter		1.00	cans		
	- G.I. Wires #16		1.00	kgs.		
	- Electrical Tape, big		1.00	rolls		
		0.07%				
<b>10.0</b>	<b>PANELBOARD AND CIRCUIT BRAKER</b>					
	<b>PANELBOARD: LPPA</b>					
	- MAIN: 40 AT/ 2 POLE MCCB 25kAic					
	- BRANCHES: 4-20 AT/ 2 POLE MCCB COMMON TRIP, 10kAic in NEMA 1 Enclosure, Bolt-On Type, w/ grounding		1.00	sets		
	- 40 AT, 2 POLE ECB in NEMA 4X Enclosure, Bolt-On Type with grounding Terminal blocks, G.I. Gauge #16		1.00	sets		
		0.05%				
<b>11.0</b>	<b>BACK UP PUMP</b>					
	<i>SUPPLY and DELIVERY of the following:</i>					
	<b>a.) Dewatering Pump</b>					
	Model: WEDA D50N c/w 20 mtrs cable, 4in. NPT discharge connection, Power: 6.3KW (8.5HP) , Motor: 460V x 3Ph x 60Hz		1.00	unit		
	<b>b.) Flexible Lay Flat Hose</b>					
	Model: PL HNF102XBA Diameter (ID), 4in (102mm) Working pressure: 1500KPA Busting pressure: 3000KPA		20.00	unit		
		1.82%				



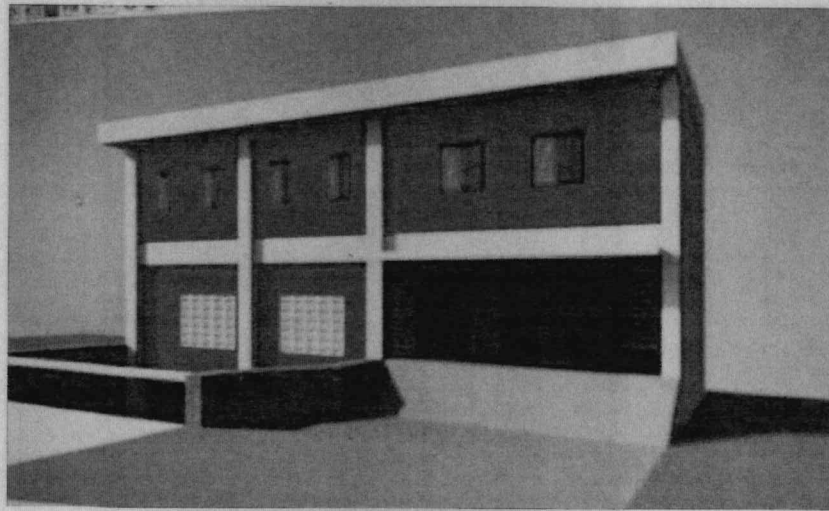


NAME OF PROJECT : REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION  
 LOCATION : PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY

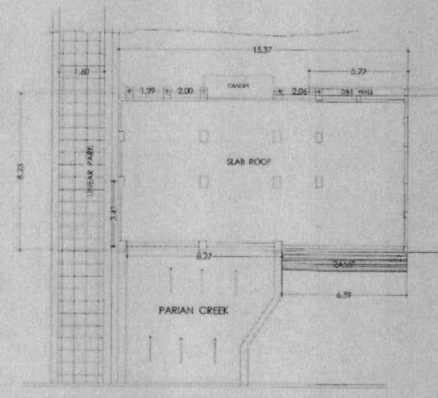
ESTIMATED COST OF PROPOSED WORK:

ITEM NO.	DESCRIPTION	% Wt.	QUANTITY	UNIT	UNIT COST	AMOUNT
12.0	<b>PUMPS / GENERATOR SET / ACCESSORIES</b>					
	<b>a.) AXIAL Flow Submersible Pump</b> Model: PL 7061/605 3~ 885N4 Size: 1000mm dia. Design Discharge : 1.10 cu.mtr./sec. (cms) Total Head: 4.56 mtrs. Motor Output : 82KW (110HP) Electrical: 3Ph x 460V x 60Hz Material: CI Casing, SUS304 Shaft, Impeller Aluminum Bronze With N-Technology (Non-Clogged reverse rotation), with class H temperature rise at motor windings.			units	2.0	
	<b>b.) Lower Column and Discharge Type Assembly</b> Column Assembly: 1000mm dia. spiral weld, 9mm. thick, 6.0m length Discharge Pipe: 600m dia. Spiral weld, 9mm. thick, 1.5m height With accessories, includes painting works using Tar epoxy paint, base plate and sole plate, ring flanges and expansion joints with bolts, stud bolts, nut and washer of different sizes.			sets	2.0	
	<b>c.) Standby Generator : WTA - C450</b> Rated capacity : 450KVA (Standby Rating) Engine : Cummins (NTA855 - G3) Alternator : Stamford (HCl444E) Controller : Deepsea (DSE 6020) 3Ph x 460V x 60Hz, 1800RPM, mounted on common skid with vibration isolator, silent type, industrial muffler, and built-in fuel tank.			pcs.	1.0	
	<b>d.) Motor Controller (Main Pump)</b> 2 x 82kw (110HP) 3Ph x 460v x 60 Hz Method of starting : Soft start Complete with primary circuit breaker, magnetic contactor, relays, indicator lights, HMI for monitoring, voltage, current, frequency, power, all wired in 2mm thick metal sheet with light Gray powdered coating, all wired in NEMA-3 free standing metal enclosure.			lot	1.0	
	<b>e.) Consumables</b> Such as wires & cables, cable trays, terminal lugs, etc., including installation, testing and commissioning of electromechanical equipments.			sets	1.0	
		83.68%				

100%



PERSPECTIVE



ROAD BRIDGE

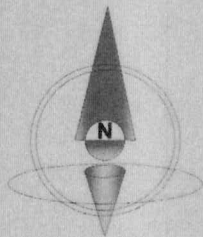
SITE DEVELOPMENT PLAN

SCALE: 1:200N

SITE



VICINITY MAP



REPUBLIC OF THE PHILIPPINES  
CITY OF PASIG  
OFFICE OF THE MAYOR  
**ENGINEERING DEPARTMENT**

VERTICAL SECTION

PROJECT TITLE:  
**REHABILITATION / MAJOR IMPROVEMENT  
OF PARIAN PUMPING STATION**

LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY

PREPARED BY:  
*Sean Lawrence Malinao*  
Engr. SEAN LAWRENCE MALINAO  
Project Engineer

VERIFIED BY:  
*Juan Roosevelt F. Perez*  
Engr. JUAN ROOSELTO F. PEREZ

CHECKED BY:  
*Israel V. Raneses*  
Engr. ISRAEL V. RANESES  
Chief Vertical Projects

RECOMMENDING APPROVAL:  
*Lawrence B. Prudencio*  
Engr. LAWRENCE B. PRUDENCIO  
Chief Planning, Programs, and Construction Division

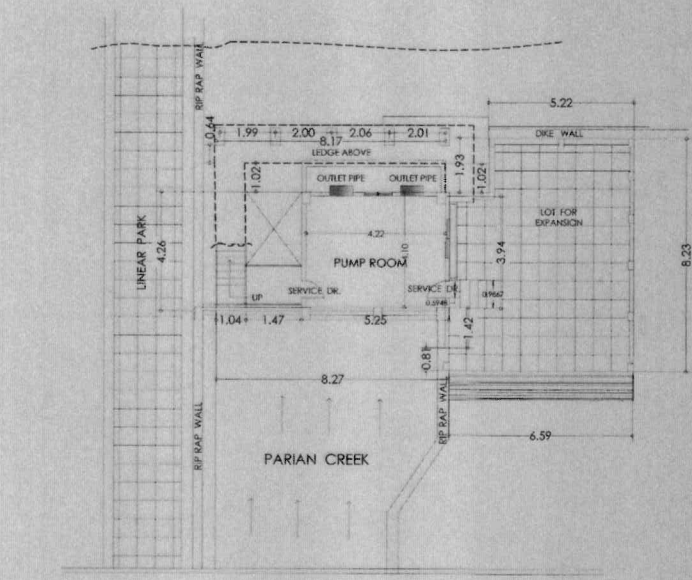
APPROVED BY:  
*Artaxerxes V. Geronimo*  
Engr. ARTAXERXES V. GERONIMO  
OIC, Engineering Department

APPROVED BY:  
*Victor M. Regis N. Sotto*  
VICTOR M. REGIS N. SOTTO  
City Mayor

SHEET CONTENT:

SHEET NO.

1  
10

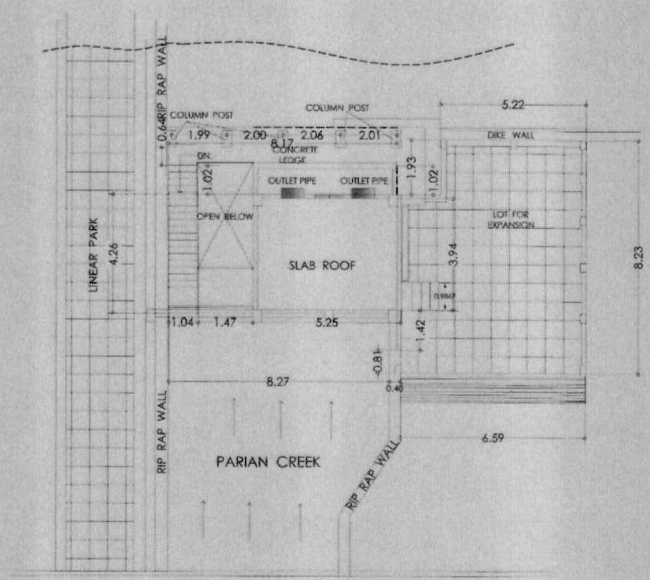


ROAD BRIDGE

6.00 M.

PARIAN CREEK

GROUND FLOOR PLAN



ROAD BRIDGE

6.00 M.

PARIAN CREEK

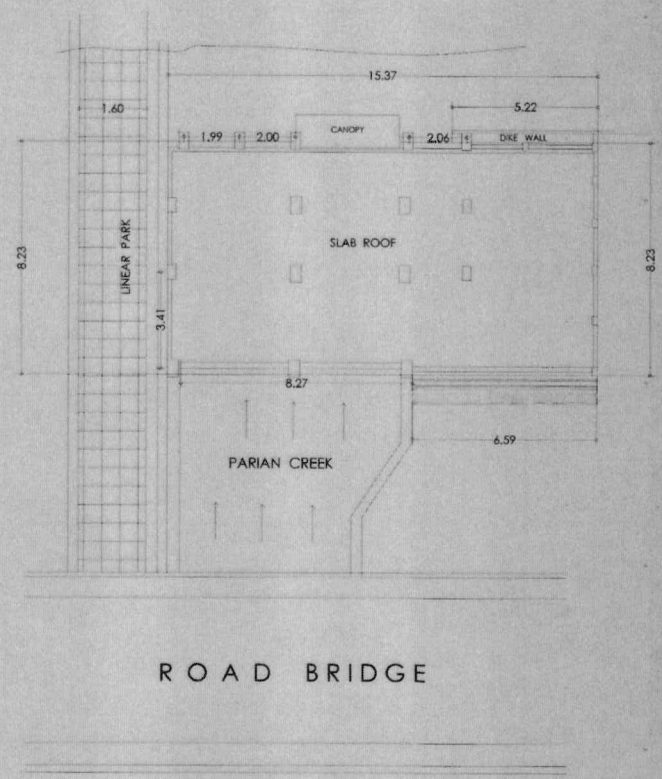
DECK FLOOR PLAN

EXISTING STRUCTURE

 REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b>	PREPARED BY:  Engr. SEAN LAWRENCE MALINAO Project in Charge	CHECKED BY:  Engr. ISRAEL V. RAÑESES Chief Vertical Projects	RECOMMENDING APPROVAL:  Engr. LAWRENCE B. PRUDENCIO Chief, Planning, Programming, & Construction Division	APPROVED BY:  Engr. ARTAXERXES V. GERONIMO OIC, Engineering Department	SHEET CONTENT:  VICTOR M. REGIS N. SOTTO City Mayor	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <span style="margin: 0 5px;">2</span> <span style="margin: 0 5px;">10</span> </div>
	LOCATION: PARIAN CREEK, VILLA ABESA, BIRGY, PINAGBUHATAN, PASIG CITY	VERIFIED BY:  Engr. JUAN PEREZ					



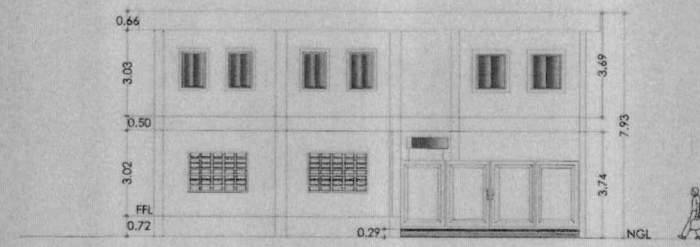




ROAD BRIDGE

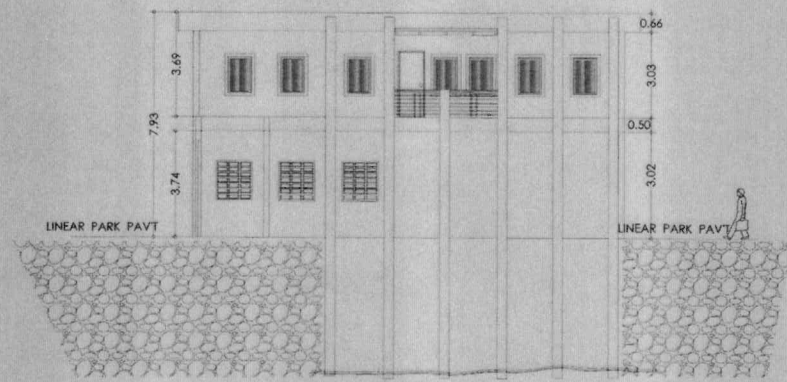
DECK PLAN

SCALE: 1:100 M.




FRONT ELEVATION

SCALE: 1:100 M.

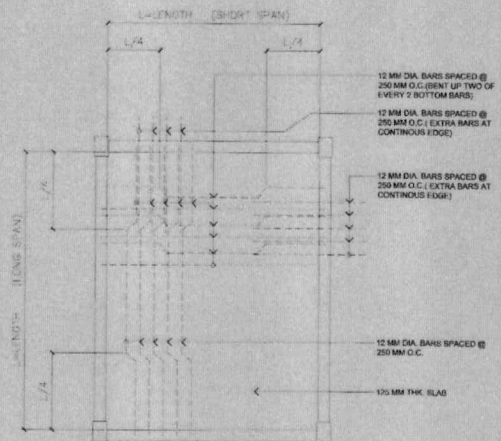


REAR ELEVATION

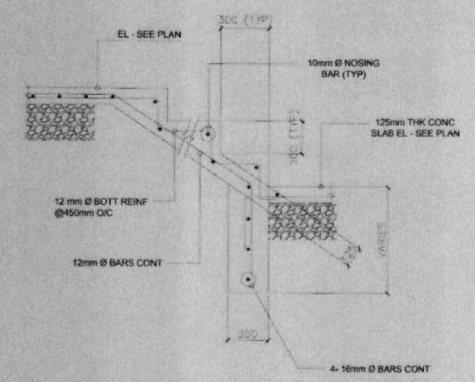
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 REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b>	PREPARED BY: Engr. <b>SEAN LAWRENCE MALINAO</b> <i>Project in Charge</i>	CHECKED BY: Engr. <b>JUAN ROBLEDO PEREZ</b>	RECOMMENDING APPROVAL: Engr. <b>LAWRENCE PRUDENCIO</b> <i>Chief, Planning, Engineering &amp; Construction Division</i>	APPROVED BY: Engr. <b>ARTAXERXES V. GERONIMO</b> <i>Chf., Engineering Department</i>	SHEET CONTENT: VICTOR MA. REGIS N. SOTTO <i>City Mayor</i>	SHEET NO.: <b>4</b> <b>10</b>
	LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY	VERTICAL SECTION: Engr. <b>ISRAEL RAÑESES</b> <i>Chief, Vertical Projects</i>	Engr. <b>LAWRENCE PRUDENCIO</b> <i>Chief, Planning, Engineering &amp; Construction Division</i>	Engr. <b>ARTAXERXES V. GERONIMO</b> <i>Chf., Engineering Department</i>	VICTOR MA. REGIS N. SOTTO <i>City Mayor</i>		

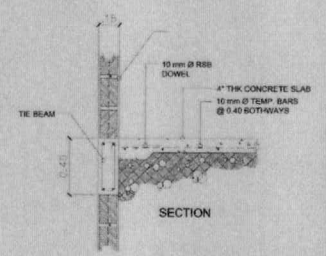




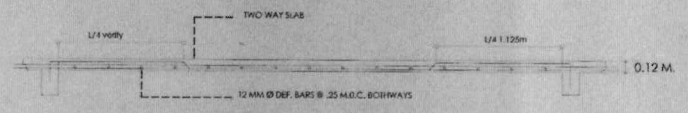
2 - WAY SLAB DETAIL (S-1)  
SCALE: N.T.S.



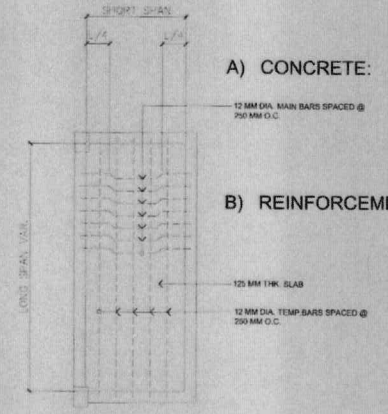
TYPICAL STAIR DETAIL  
SCALE: N.T.S.



GRADE TO SLAB DETAIL  
SCALE: N.T.S.

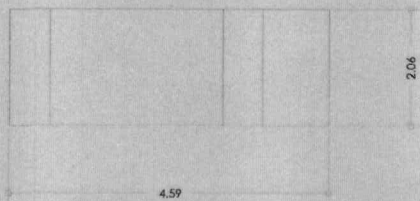


TYPICAL SLAB DETAILS  
SCALE: 1:25 N.

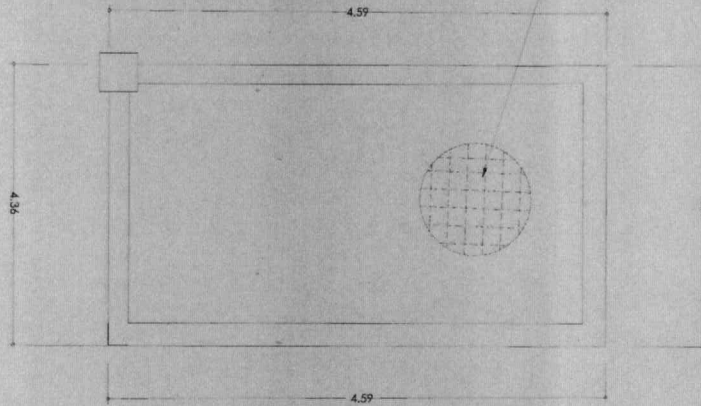


SLAB DETAIL HALLWAY BALCONY (S-2)  
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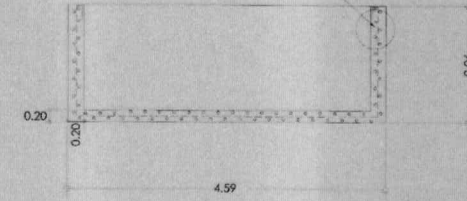
<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION</p>	<p>PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b></p>	<p>PREPARED BY: Engr. <b>SEAN LAWRENCE MALINAO</b> <i>Project in Charge</i></p>	<p>CHECKED BY: Engr. <b>ISRAEL RAÑESES</b> <i>Chief of Projects</i></p>	<p>RECOMMENDING APPROVAL: Engr. <b>LAWRENCE B. PRUDENCIO</b> <i>Chief, Planning, Engineering &amp; Construction Division</i></p>	<p>APPROVED BY: Engr. <b>ARTAXERXES V. GERONIMO</b> <i>C.E.C., Engineering Department</i></p>	<p>SHEET CONTENT: Engr. <b>VICTOR M. REGIS N. SOTTO</b> <i>City Mayor</i></p>	<p>SHEET NO: <b>5</b> <b>10</b></p>
	<p>LOCATION: PARIAN CREEK, VILLA ARESA, BRGY. PINAGBUHATAN, PASIG CITY</p>	<p>VERTICAL SECTION: Engr. <b>JUAN ROSELLO T. PEREZ</b></p>	<p>Engr. <b>ARTAXERXES V. GERONIMO</b> <i>C.E.C., Engineering Department</i></p>	<p>Engr. <b>VICTOR M. REGIS N. SOTTO</b> <i>City Mayor</i></p>			



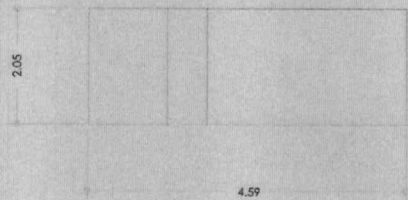
LEFT SIDE ELEVATION  
SCALE: 1:50 M.



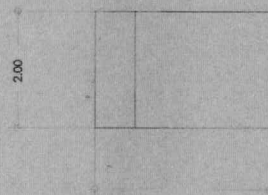
SUMP PIT DETAIL  
SCALE: N.T.S.



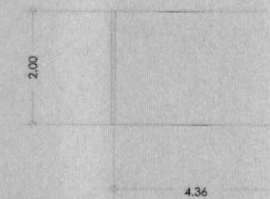
LEFT SIDE SECTION  
SCALE: 1:50 M.



RIGHT SIDE ELEVATION  
SCALE: 1:50 M.



FRONT ELEVATION  
SCALE: 1:50 M.

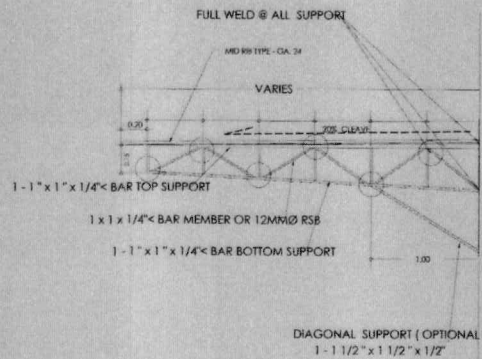


REAR ELEVATION  
SCALE: 1:50 M.

SUMP PIT DETAILS

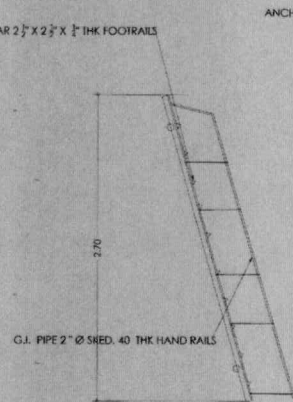
<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION</p>	<p>PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b></p>	<p>PREPARED BY: Engr. <b>SEAN LAWRENCE MALINAO</b> <i>Project in Charge</i></p>	<p>CHECKED BY: <i>[Signature]</i></p>	<p>RECOMMENDING APPROVAL: Engr. <b>LAWRENCE B. PRUDENCIO</b> Chief Planning, Projects, &amp; Construction Division</p>	<p>APPROVED BY: Engr. <b>ARTAXERXES V. GERONIMO</b> CIV. Engineering Department</p>	<p>SHEET CONTENT:</p>	<p>SHEET NO: <b>6</b> <b>10</b></p>
	<p>LOCATION: PARIAN CREEK, VILLA ARESA, BRIG. PINAGBUHATAN, PASIG CITY</p>	<p>VERIFIED BY: Engr. <b>JUAN ROSELIO J. PEREZ</b></p>	<p>VERTICAL SECTION: Engr. <b>ISRAEL V. RAÑESES</b> CIV. Municipal Projects</p>	<p>APPROVED BY: Engr. <b>VICTOR MA. REGIS M. SOTTO</b> City Mayor</p>			



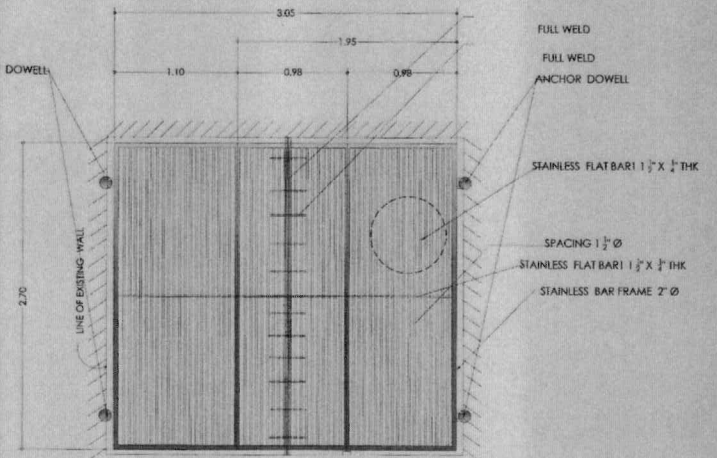


INSTALLATION OF CANOPY W/ STEEL TRUSSES

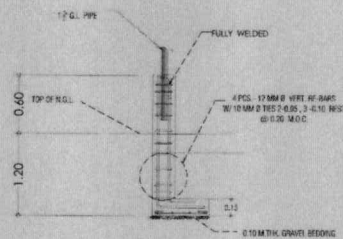
STL. < BAR 2 1/2" X 2 1/2" X 1/4" THK FOOTRAILS



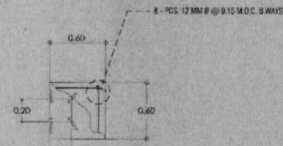
SECTION OF TRASH RACK



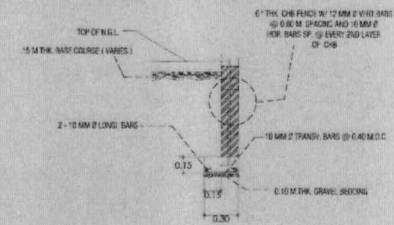
DETAILS OF TRASH RACK



DETAILS OF COLUMN



PLAN



SECTION OF WALLFOOTING



REPUBLIC OF THE PHILIPPINES  
CITY OF PASIG  
OFFICE OF THE MAYOR  
**ENGINEERING DEPARTMENT**  
VERTICAL SECTION

PROJECT TITLE:  
**REHABILITATION / MAJOR IMPROVEMENT  
OF PARIAN PUMPING STATION**  
LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PINAGRUHATAN, PASIG CITY

PREPARED BY:  
*[Signature]*  
Engr. SEAN LAWRENCE MALINAO  
Project in Charge  
VERIFIED BY:  
*[Signature]*  
Engr. JUAN ROSELLO V. PEREZ

CHECKED BY:  
*[Signature]*  
VERTICAL SECTION  
Engr. JUAN V. RAÑESES  
Chief, Local Projects

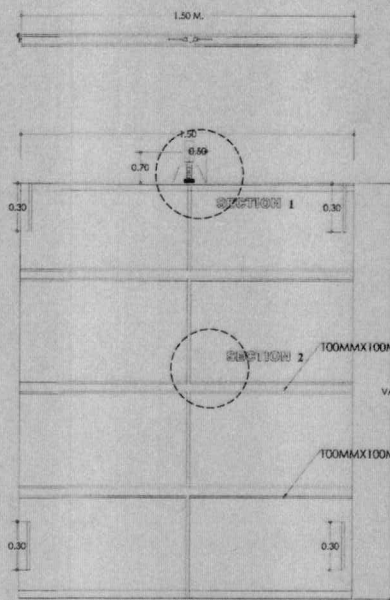
RECOMMENDING APPROVAL:  
*[Signature]*  
Engr. ANTONIO S. PRUDENCIO  
Chief, Planning, Engineering & Construction Division

APPROVED BY:  
*[Signature]*  
Engr. ARTAXERXES V. GERONIMO  
OIC, Engineering Department

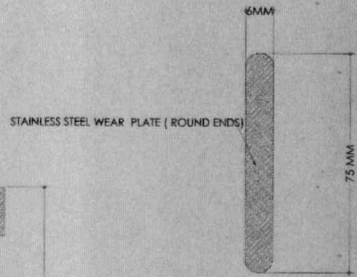
SHEET CONTENT:  
APPROVED BY:  
*[Signature]*  
VICTOR MA. REGIS N. SOTTO  
City Mayor

SHEET NO.:  
**7**  
**10**

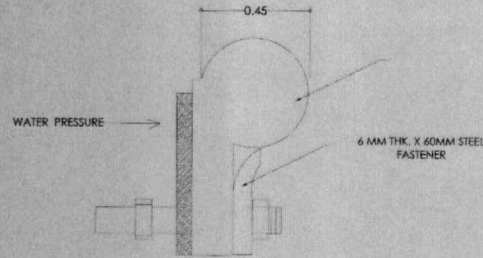




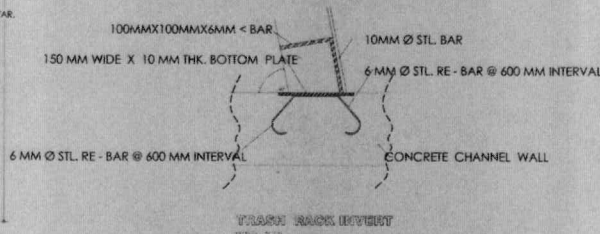
**FLOOD GATE DETAILS**  
SCALE: N.T.S.



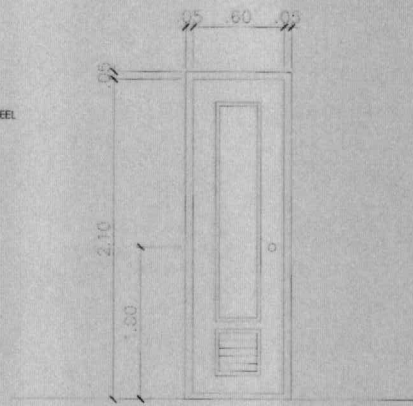
**WEAR PLATE DETAILS**  
SCALE: N.T.S.



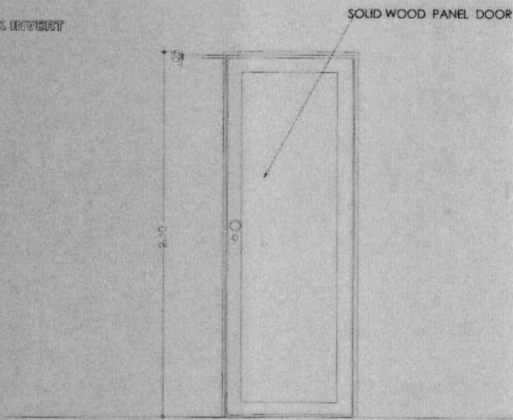
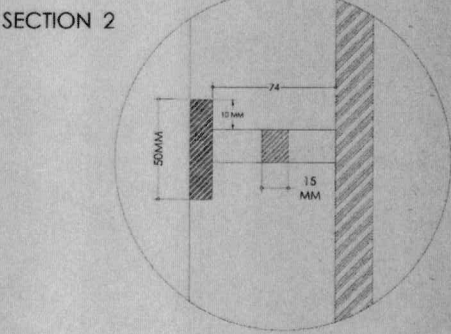
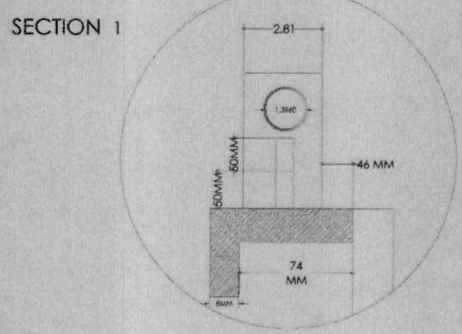
**RUBBER SEAL DETAILS**  
SCALE: N.T.S.



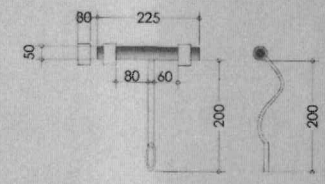
**TRASH RACK INVERT**  
SCALE: N.T.S.



**PVC DOOR (C.R.)**

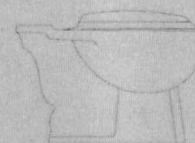
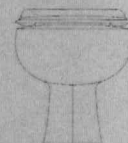
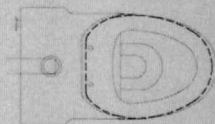


**ENTRANCE DOOR & SERVICE DOORS**



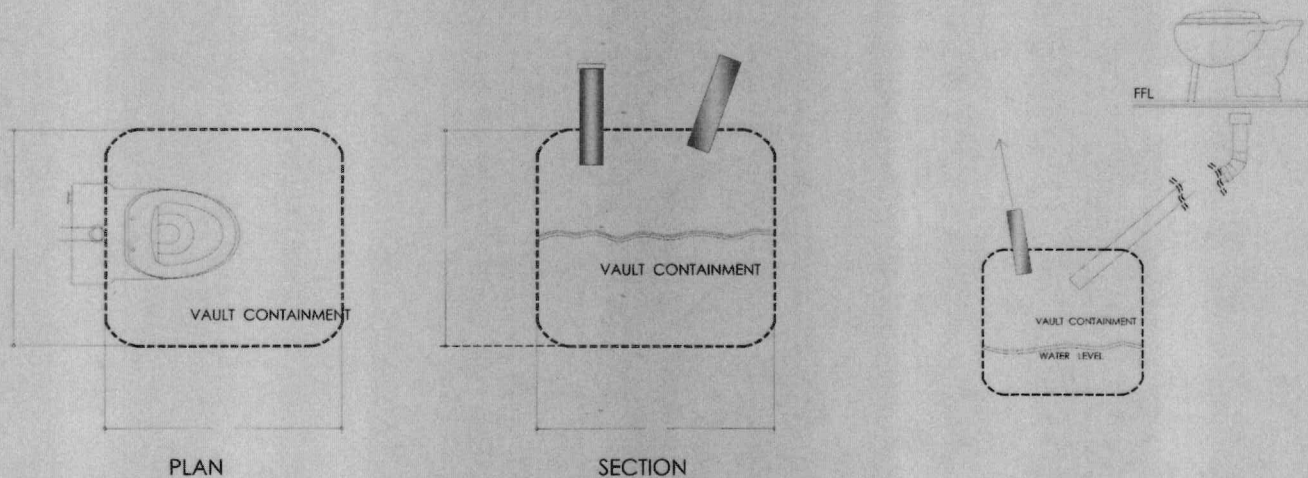
**DOOR LOCK ( LATCH TYPE )**

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION</p>	<p>PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b></p>	<p>PREPARED BY: Engr. SEAN LAWRENCE MALINAO Project in Charge</p>	<p>CHECKED BY: Engr. ISIDORO RANESES Projects</p>	<p>RECOMMENDING APPROVAL: Engr. SHUREN E. PRUDENCIO Chief, Planning, &amp; Construction Division</p>	<p>APPROVED BY: Engr. ARTAXERXES V. GERONIMO OIC, Engineering Department</p>	<p>SHEET CONTENT:</p>	<p>SHEET NO.: 8 10</p>
	<p>LOCATION: PARIAN CREEK, VILLA ARESA, BRGY. PINAGRUHATAN, PASIG CITY</p>	<p>VERIFIED BY: Engr. JUAN ROSELINO X. PEREZ</p>	<p>VERTICAL SECTION: Engr. ISIDORO RANESES Projects</p>	<p>APPROVED BY: VICTOR MA. REGIS N. SOTTO City Mayor</p>			



TOILET BOWL DETAILS W/ PORTABLE SEPTIC VAULT

SCALE: N.T.S.



REPUBLIC OF THE PHILIPPINES  
CITY OF PASIG  
OFFICE OF THE MAYOR  
**ENGINEERING DEPARTMENT**  
VERTICAL SECTION

PROJECT TITLE:  
**REHABILITATION / MAJOR IMPROVEMENT  
OF PARIAN PUMPING STATION**

PREPARED BY:  
Engr. **BEAN LAWRENCE MALINAO**  
Project in Charge

VERIFIED BY:  
Engr. **JUAN ROBERTO PEREZ**

LOCATION: PARIAN CREEK, VILLA ABESA, BNGY. PUNAGBIRHATAN, PASIG CITY

CHECKED BY:  
Engr. **JOSE V. RAÑESES**  
Chief, Vertical Projects

RECOMMENDING APPROVAL:  
Engr. **LAWRENCE B. PRUDENCIO**  
Chief, Planning, Programming & Construction Division

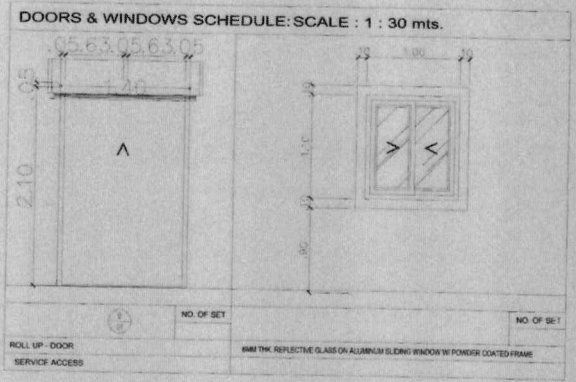
Engr. **ARTAXERXES V. GERONIMO**  
OIC, Engineering Department

APPROVED BY:  
**VICTOR MA. REGIS N. SOTTO**  
City Mayor

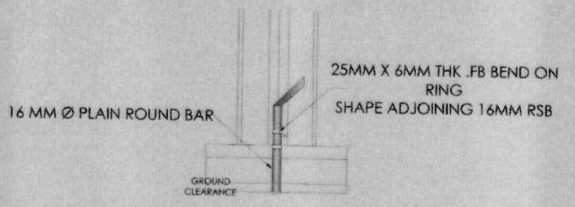
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SHEET NO:  
**9**  
**10**

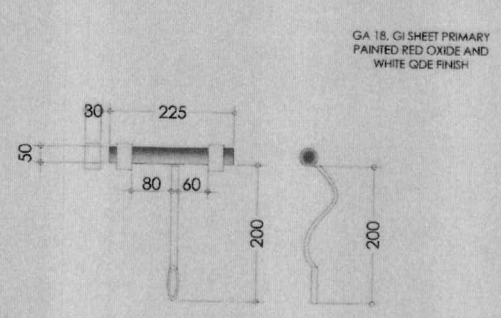




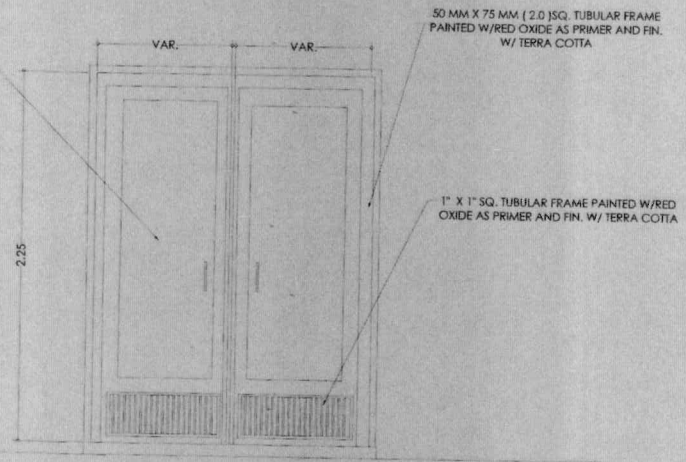
ROLL - UP DOOR



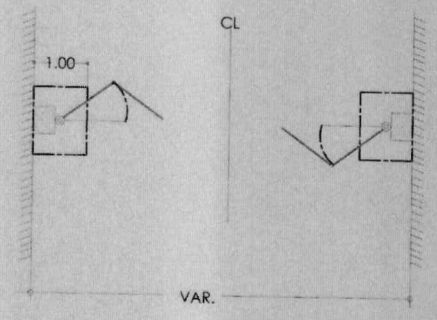
GATE LOCK ( BOTTOM )



GATE CLOSER ( LATCH TYPE )

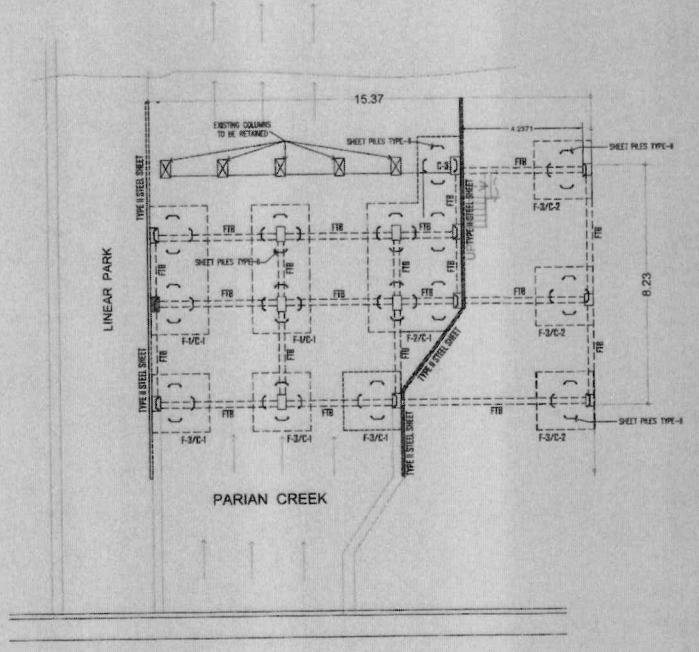
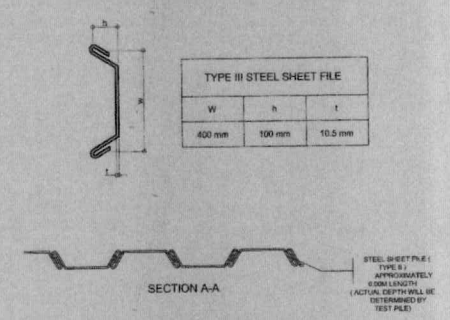
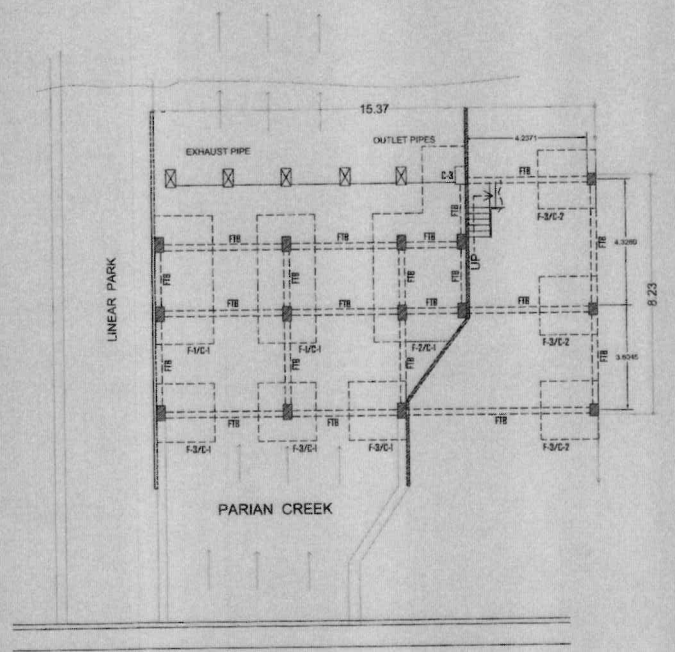


GATE DETAILS



PLAN OF GATE  
SCALE: HTS

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION</p>	<p>PROJECT TITLE: REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</p>	<p>PREPARED BY: Engr. SEAN LAWRENCE MALINAO Project in Charge</p>	<p>CHECKED BY:</p>	<p>RECOMMENDING APPROVAL:</p>	<p>APPROVED BY:</p>	<p>SHEET CONTENT:</p>	<p>SHEET NO.:</p>
	<p>LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY</p>	<p>VERIFIED BY: Engr. JUAN ROGELIO J. PEREZ</p>	<p>VERTICAL SECTION: Engr. JAMES V. RAÑESES Chief, Vertical Projects</p>	<p>Engr. DARWIN B. PRUDENCIO Chief, Planning, Engineering, &amp; Construction Division</p>	<p>Engr. ARTAXERKES V. GERONIMO OIC, Engineering Department</p>	<p>VICTOR M. REGIS N. SOTTO City Mayor</p>	<p>10 10</p>



ROAD BRIDGE 6.00 M.

ROAD BRIDGE 6.00 M.

### FOUNDATION PLAN

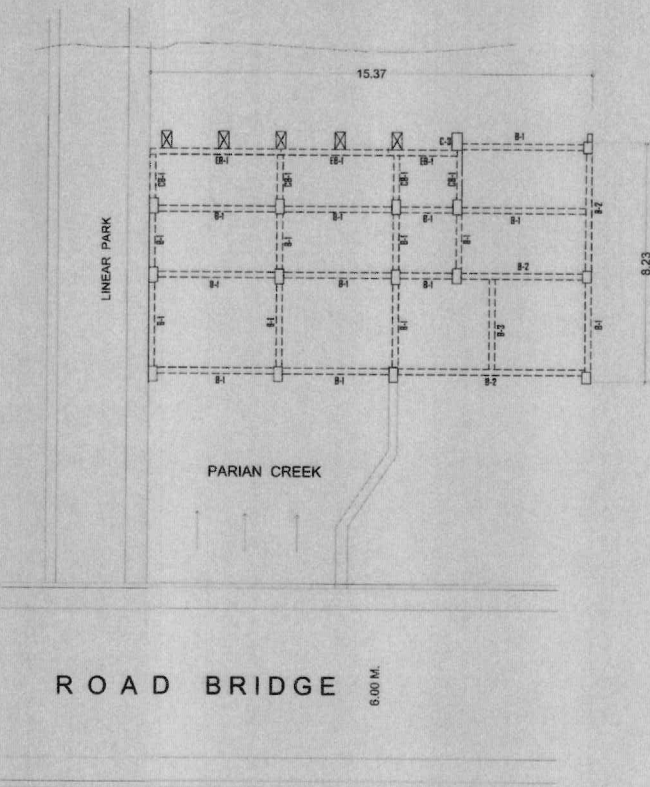
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### SHEET PILE LAY-OUT PLAN

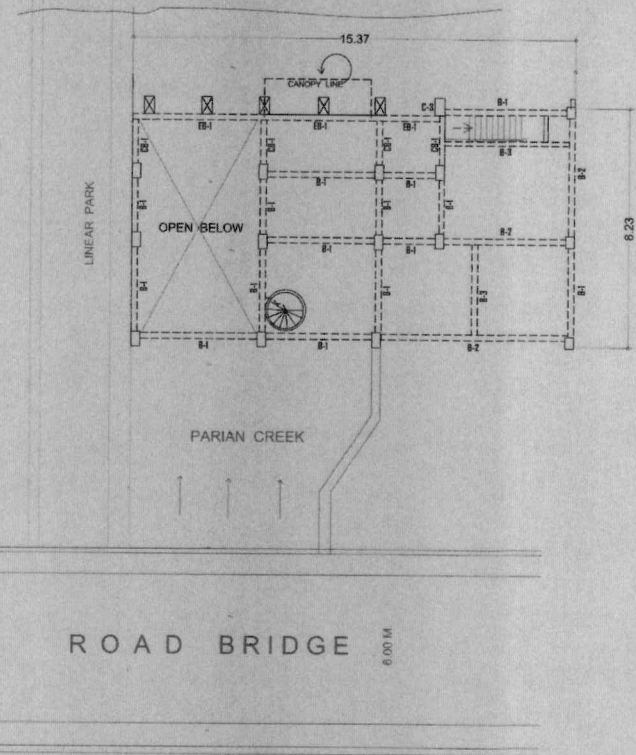
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	REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b>	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b>	STRUCTURAL:  Engr. NOEL S.D. BADONG <small>Engr. Structural Section</small>	VERTICAL SECTION:  Engr. JUAN ROGELIO L. PEREZ <small>Engr. Project Section</small>	REVIEWED BY:  Engr. LAWRENCE B. PRUDENCIO <small>Chief, Planning, Training, &amp; Construction Division</small>	RECOMMENDING APPROVAL:  Engr. ARTAXERXES V. GERONIMO <small>CEC, Engineering Department</small>	APPROVED BY:  VICTOR M. REGIS N. SOTTO <small>City Mayor</small>	SHEET CONTENT: FOUNDATION PLAN SHEET PILE LAY-OUT	SHEET NO.: <b>S-1</b> <b>15</b>
	VERTICAL SECTION LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PISAGBUHATAN, PASIG CITY	DESIGNED BY:  Engr. SINFOROSA B. DOMINGO <small>Engr. IV</small>	PROJECT IN-CHARGE:  Engr. SEAN LAWRENCE MALINAO	Engr. RAFAEL V. RAÑESAS <small>Chief, Project Section</small>	Engr. LAWRENCE B. PRUDENCIO <small>Chief, Planning, Training, &amp; Construction Division</small>	Engr. ARTAXERXES V. GERONIMO <small>CEC, Engineering Department</small>	VICTOR M. REGIS N. SOTTO <small>City Mayor</small>		

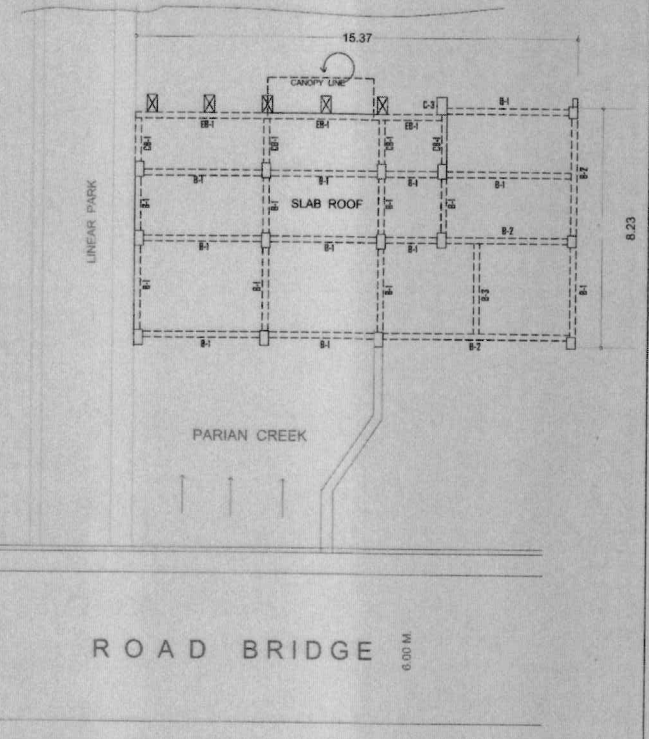





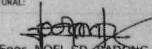

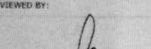





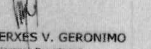
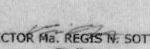
**GROUND FRAMING PLAN**  
SCALE: 1: 100 M.

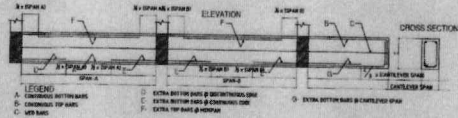


**SECOND FLOOR FRAMING PLAN**  
SCALE: 1: 100 M.



**DECK PLAN**  
SCALE: 1: 100 M.

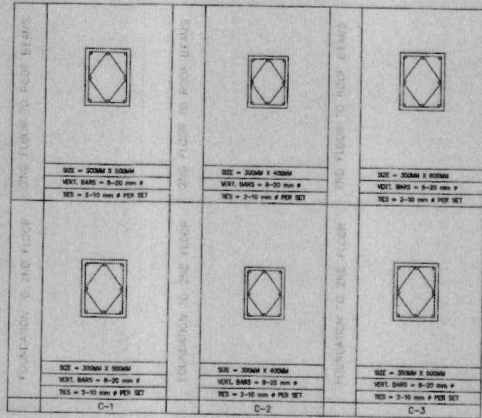
 REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT          OF PARIAN PUMPING STATION</b>	STRUCTURAL:  <b>Engr. NOEL S. BADDONG</b> <small>Engr. IV Structural Section</small>	VERTICAL SECTION:  <b>Engr. ISABEL V. RAÑESES</b> <small>Vertical Project Engineer</small>	REVIEWED BY:  <b>Engr. JUAN ROGELIO PEREZ</b> <small>Chief Planning/Procurement &amp; Construction Division</small>	RECOMMENDING APPROVAL:  <b>Engr. ARTAXERXES V. GERÓNIMO</b> <small>CIC, Engineering Department</small>	APPROVED BY:  <b>VICTOR M. REGIS N. SOTTO</b> <small>City Mayor</small>	SHEET CONTENT: 	SHEET NO: <b>S-2          2   5</b>
	LOCATION: PARIAN CREEK, VILLA ARESA, BRGY. PINAGBUHATAN, PASIG CITY DESIGNED BY:  <b>Engr. SINFOROSA B. DOMINGO</b> <small>Engr. IV</small>	PROJECT IN CHARGE:  <b>Engr. SEAN LAWRENCE MALINAO</b>	REVIEWED BY:  <b>Engr. LAWRENCE B. PRUDENCIO</b>	RECOMMENDING APPROVAL:  <b>Engr. ARTAXERXES V. GERÓNIMO</b>	APPROVED BY:  <b>VICTOR M. REGIS N. SOTTO</b>			



TYPICAL DETAIL OF FOOTING TIE BEAM  
NOT TO SCALE

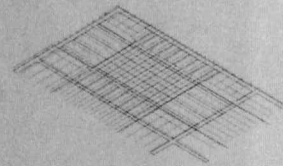
SCHEDULE OF FOOTING									
MARK	DIMENSION (mm.)		TOP BARS		BOTTOM BARS		DEPTH OF EMBEDMENT (M) FROM INCL. (VERIFY)	REMARKS	
	L	W	ALONG 'L'	ALONG 'W'	ALONG 'L'	ALONG 'W'			
F-1	4400	2000	400	10-#16	#16 AT 200 OC	10-#16	#16 AT 200 OC	2.5M	COMBINED FOOTING
F-2	VERITY	3250	400	#16 AT 200 OC	#16 AT 200 OC	#16 AT 200 OC	#16 AT 200 OC	2.5M	COMBINED FOOTING
F-3	2000	2000	400	10-#16	10-#16	10-#16	10-#16	2.5M	ISOLATED FOOTING

- NOTES:
- NO FOOTING SHOULD REST ON BROWN/RED MATERIALS.
  - IN CASE THE SOIL CONDITION AT THE FOUNDATION LEVEL OF THE FOOTING CAN'T BE ASCERTAINED, THE CONSTRUCTOR MUST CONSULT A SOIL EXPERT OR A GEOTECHNICAL ENGINEER AND EXPLORE THE SURFACE CONDITION.
  - FOUNDATION LEVEL OF FOOTINGS LOCATED AT THE UPTOWN AREA AFTER APPROVAL BY THE STRUCTURAL ENGINEER, MAY BE ADJUSTED TO ACCOMMODATE THE BIRTH REQUIREMENTS OF THE CLIENT.



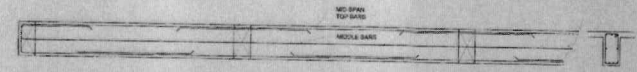
- NOTES:
- USE 12MM REB 10 NO. 7000, REST @ 150 TO CENTER LINE OF COLUMNS.
  - NO PILES SHALL BE EMBEDDED ABOVE ANY COLUMN.
  - ALL PLANNED COLUMNS MUST BE SUPPORTED BY BEAMS OR GIRDERS.

SLAB REINFORCEMENT DETAIL



MARK	THICKNESS (mm)	REINFORCEMENT				REMARKS
		PARALLEL TO SHORT SPAN		PARALLEL TO LONG SPAN		
		TOP BARS @ SUPPORT	BOTTOM BARS @ MIDSPAN	TOP BARS @ SUPPORT	BOTTOM BARS @ MIDSPAN	
S-1	125	12mm@ @150mm O.C.	12mm@ @150mm O.C.	12mm@ @150mm O.C.	12mm@ @150mm O.C.	TWO-WAY
S-2	125	12mm@ @150mm O.C.	12mm@ @150mm O.C.	12mm@ @150mm O.C.	12mm@ @150mm O.C.	ONE-WAY

NOTE:  
1. 12MM AND SMALLER BARS, Fy = 275 MPa (40,000 PSI)



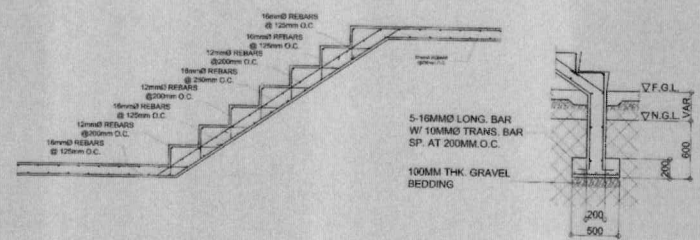
BEAM REINFORCEMENT DETAIL

MARK	LENGTH (m)	REINFORCEMENTS				DIMENSION B x D (mm)	TIE/BENCH MARKS	STRIPUP SCHEDULE	REMARKS
		LEFT SUPPORT	MID-SPAN	RIGHT SUPPORT					
		TOP (mm)	BOTTOM (mm)	TOP (mm)	BOTTOM (mm)				
*NOTED TO BE REINFORCED IN SLAB									
FTB	VARIES	4-16mm@	4-16mm@	4-16mm@	4-16mm@	200 x 400		2-12mm@	
SECOND FLOOR FLOOR LEVEL BEAMS & ROOF BEAMS									
B-1	VARIES	2-16mm@	2-16mm@	2-16mm@	2-16mm@	200 x 400		2-12mm@	
B-2	VARIES	4-16mm@	4-16mm@	4-16mm@	4-16mm@	200 x 400		2-12mm@	
B-3	VARIES	2-16mm@	2-16mm@	2-16mm@	2-16mm@	200 x 400		2-12mm@	
CB-1	VARIES	4-16mm@	2-16mm@	4-16mm@	2-16mm@	200 x 400		2-12mm@	
CB-2	VARIES	2-16mm@	2-16mm@	2-16mm@	2-16mm@	200 x 400		2-12mm@	

STANDARD BY:  
1. 12MM AND SMALLER BARS, Fy = 275 MPa (40,000 PSI)  
2. 16MM AND LARGER BARS, Fy = 415 MPa (60,000 PSI)

SCHEDULE OF BEAM REINFORCEMENT

STAIR REINFORCEMENT DETAIL



DETAIL OF STAIR FOOTING  
SCALE: 1:30 MTS.

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG OFFICE OF THE MAYOR <b>ENGINEERING DEPARTMENT</b> VERTICAL SECTION</p>	<p>PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</b></p>	<p>STRUCTURAL: <i>[Signature]</i> Engr. NOEL S.D. BADONG Engr. IN-STRUCTURE SECTION</p>	<p>VERTICAL SECTION: <i>[Signature]</i> Engr. SR. B. V. RAÑESES PROJECT SECTION</p>	<p>DESIGNED BY: <i>[Signature]</i> Engr. JUAN ROBERTO PEREZ Engr. SEAN LAWRENCE MALINAO</p>	<p>REVIEWED BY: <i>[Signature]</i> Engr. LAWRENCE B. PRUDENCIO Engr. ARTAXERXES V. GERONIMO Engr. VICTOR M.S. REGIS N. SOTTO City Mayor</p>	<p>APPROVED BY: <i>[Signature]</i> Engr. ARTAXERXES V. GERONIMO City Mayor</p>	<p>SHEET CONTENT: REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION</p>	<p>SHEET NO.: <b>S-3</b> 3/5</p>
	<p>LOCATION: PARIAN CREEK, VILLA ABESA, BRGY. PINAGULNATAN, PASIG CITY</p>							









**GENERAL NOTES:**

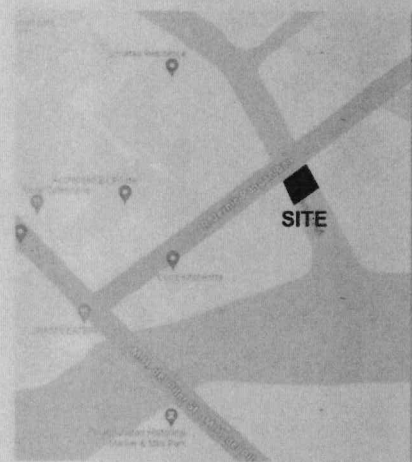
- ALL ELECTRICAL WORKS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITIES AND THE REQUIREMENTS OF THE LOCAL POWER UTILITY.
- WHICHEVER IS APPLICABLE BASED ON THE PLANS AND COMPUTATIONS, THE TYPE OF ELECTRICAL SERVICE TO BE SUPPLIED SHALL BE:
  - SINGLE PHASE, 3-WIRE, 230V, 60Hz OR
  - THREE PHASE, 4-WIRE, 230V, 60Hz
- IF THE ELECTRICAL SERVICE TO BE USED IS THREE PHASE, 4-WIRE, 230V, 60Hz, WIRE COLOR CODING ARE AS FOLLOWS:
  - PHASE CONDUCTORS - R (RED), Y (YELLOW), AND B (BLUE) FOR LINES 1, 2, AND 3, RESPECTIVELY.
  - NEUTRAL CONDUCTORS - WHITE OR GRAY.
  - GROUND CONDUCTOR - GREEN
- THE TYPE OF WIRING SHALL BE DONE IN POLYVINYL CHLORIDE (PVC) PIPE FOR BRANCH CIRCUITS AND RIGID STEEL CONDUIT (RSC) FOR MAIN SERVICE ENTRANCE.
- NO BRANCH CIRCUIT WIRING IN LIGHTING AND POWER SHALL HAVE A LOAD MORE THAN 80% OF ITS RATING.
- LIGHT CONTROL SWITCHES SHALL BE RATED 15A, 230V ONLY.
- MOUNTING HEIGHTS SHALL BE AS FOLLOWS:
  - LIGHT CONTROL SWITCHES - 1.40M ABOVE FLOOR FINISHED
  - CONVENIENCE OUTLETS - 0.30M ABOVE FLOOR FINISHED
  - SPECIAL PURPOSE OUTLETS - AS REQUIRED BY THE EQUIPMENT
  - PANEL BOARD - 1.40M ABOVE FLOOR FINISHED
- THE MINIMUM SIZE OF WIRE AND CONDUIT SHALL BE 3.5mm<sup>2</sup> THHN AND 20mm<sup>Ø</sup> CONDUIT, RESPECTIVELY.
- BRAND OF WIRES AND CONDUITS MUST BE APPROVED BY THE PROJECT-IN-CHARGE/ELECTRICAL ENGINEER.
- METHODS OF WIRING SHALL BE DONE IN THE FOLLOWING MANNER:
  - INTERMEDIATE METALLIC CONDUIT (IMC) - FOR EXPOSED POWER SERVICE ENTRANCE AND THOSE SPECIFIED ON THE PLAN, IF ANY.
  - POLYVINYL CHLORIDE (PVC) PIPE - FOR EMBEDDED POWER SERVICE ENTRANCE, BRANCH CIRCUIT RUN FOR LIGHTING AND CONVENIENCE OUTLETS AND AUXILIARY SYSTEM, UNLESS OTHERWISE INDICATED ON THE PLAN.
  - ELECTRICAL METALLIC TUBING (EMT) - FOR INSTALLATION LAYOUT INSIDE DROP CEILING, EXPOSED AND DOUBLE WALL PARTITION, UNLESS OTHERWISE INDICATED ON THE PLAN.
  - FLEXIBLE METALLIC CONDUIT (FMC) - FOR CONNECTION BETWEEN JUNCTION BOX INSIDE TO LIGHTING OUTLETS OR FIXTURES AT DROP CEILING.
  - RIGID STEEL CONDUIT (RSC) - FOR SERVICE ENTRANCE.
- UNLESS OTHERWISE SPECIFIED, PULL BOXES OR JUNCTION BOXES SHALL BE PROVIDED WHENEVER REQUIRED AND NECESSARY, ALTHOUGH SUCH BOXES ARE NOT INCLUDED ON THE PLAN.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
- ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT SHALL BE EFFECTIVELY GROUNDING, CONNECTION TO GROUND ROD SHALL BE EXPOSED READILY ACCESSIBLE FOR INSPECTION.
- CONTRACTOR TO CONDUCT EARTH GROUND TEST, WIRE INSULATION TEST, AND LOAD TEST SHALL BE CONDUCTED UPON COMPLETION OF WORKS.
- IN CASE OF ANY DISCREPANCY BETWEEN THE PLANS AND SITE CONDITION, SPECIFICATION AND REVISIONS/CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY AND CONSULT TO THE PROJECT-IN-CHARGE/ELECTRICAL ENGINEER.
- CONTRACTOR SHALL SUBMIT SAMPLE OF MATERIALS, EQUIPMENT, AND SHOP DRAWINGS FOR APPROVAL OF THE PROJECT-IN-CHARGE/ELECTRICAL ENGINEER BEFORE INSTALLATION.
- ELECTRICAL PLANS/DRAWINGS ARE DIAGRAMMATIC LAYOUT ONLY. ANY MATERIALS AND FITTINGS NOT SHOWN ON THE PLANS/DRAWINGS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR'S SCOPE OF WORKS.
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER (REE) OR REGISTERED MASTER ELECTRICIAN (RME).

LOAD SCHEDULE : <b>PB</b>											
CKT NO.	DESCRIPTION			VA	VOLT	AMPS	CB RATING			TRADE SIZE	
	LG	CO	OTHERS				AT	AF	POLE	WIRE	CONDUIT
1	9		4 - Emergency Light	1500	230	6.5	20	50	2	2 - 3.5mm <sup>2</sup> THHN + 1 - 2.0mm <sup>2</sup> THHN	20mm <sup>Ø</sup> PVC
2		4		720	230	3.1	20	50	2	2 - 3.5mm <sup>2</sup> THHN + 1 - 2.0mm <sup>2</sup> THHN	20mm <sup>Ø</sup> PVC
3			3 - Orbit Fan 1 - Exhaust Fan	1100	230	4.8	20	50	2	2 - 3.5mm <sup>2</sup> THHN + 1 - 2.0mm <sup>2</sup> THHN	20mm <sup>Ø</sup> PVC
4			Spare		230		20	50	2	2 - 3.5mm <sup>2</sup> THHN + 1 - 2.0mm <sup>2</sup> THHN	20mm <sup>Ø</sup> PVC
TOTAL				3,320	230	14.4					

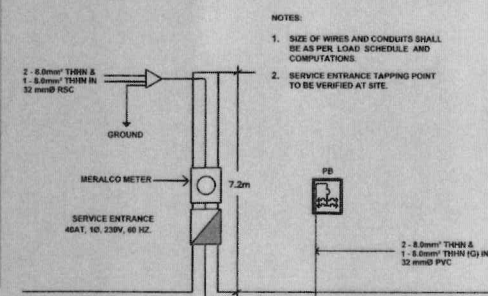
**COMPUTATION OF LOAD:**  
I<sub>T</sub> = 14.43 AMPS

**MAIN FEEDER WIRE:**  
USE:  
2 - 8.0mm<sup>2</sup> THHN  
1 - 8.0mm<sup>2</sup> THHN  
IN: 32 mm<sup>Ø</sup> RSC

**LOAD SCHEDULE**  
SCALE: NTS



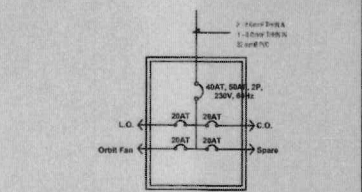
**SITE DEVELOPMENT PLAN**  
SCALE: NTS



**POWER RISER DIAGRAM**  
SCALE: NTS

- LED BULB
- DUPLEX POWER OUTLET
- ONE GANG SWITCH
- TWO GANG SWITCH
- SOLAR-POWERED FLOOD LIGHT
- ORBIT FAN
- PANELBOARD
- INDUSTRIAL EXHAUST FAN
- 1 X 9W LED TUBE
- EMERGENCY LIGHT

**LEGEND/SYMBOL**  
SCALE: NTS



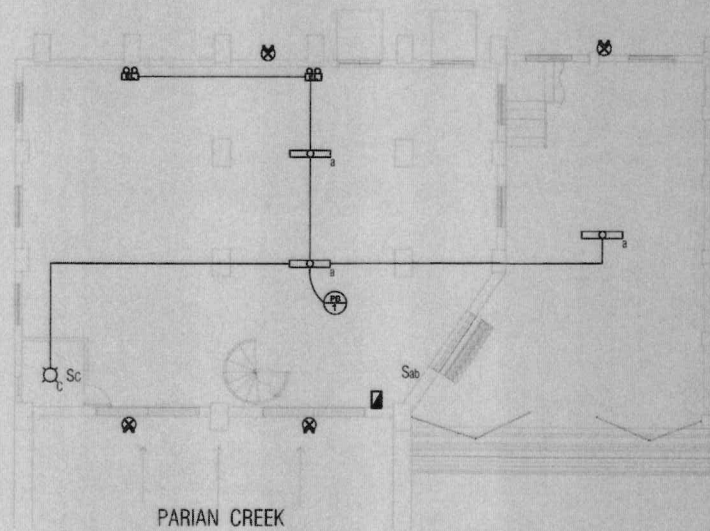
**PANEL BOARD DETAILS**  
SCALE: NTS

**GENERAL NOTES & SPECIFICATIONS**  
SCALE: NTS

	REPUBLIC OF THE PHILIPPINES CITY OF PASIG  <b>OFFICE OF THE MAYOR</b>  <b>CITY ENGINEERING OFFICE</b>	PROJECT TITLE:  <b>REHABILITATION / MAJOR IMPROVEMENT OF PUMPING STATION</b>  Brgy. Pinagbuhatan, Pasig City	ELECTRICAL: PREPARED BY: Engr. ALVIN C. DROLFO PROJECT IN-CHARGE CHECKED BY: Engr. MARK JOSEPH L. CALILUNG C.E. ELECTRICAL, MECHANICAL & CONST. DIVISION	REVIEWED BY: Engr. LAWRENCE B. PRUDENCIO CHIEF, PLANNING, MECHANICAL & CONST. DIVISION	RECOMMENDING APPROVAL: Engr. ARTAXERXES V. GERONIMO C.E. CITY ENGINEERING OFFICE	APPROVED BY: VICTOR MA REGIS N. SOTTO CITY MAYOR	SHEET CONTENT: General Notes & Specs Legend/Symbols Power Riser Diagram Panel Board Details Site Development Plan Load Schedule	SHEET NO. 
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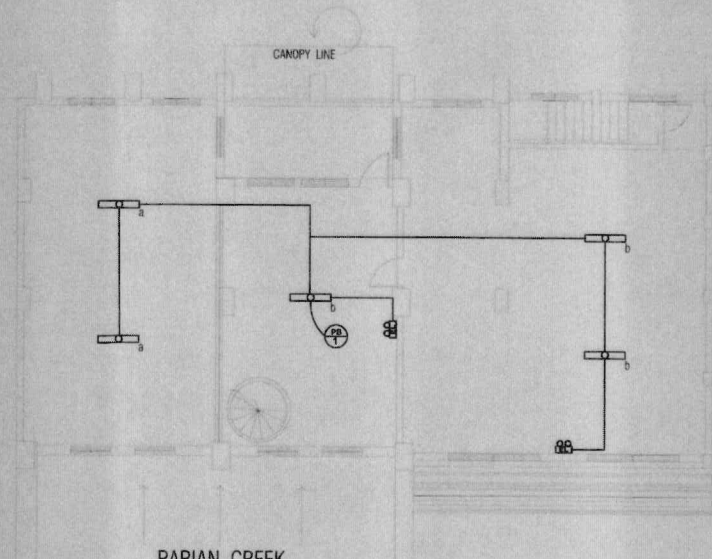
**IMPORTANT NOTES:**

- NO ALTERATION IN PLANS & SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR CONTRADICTS TO THE STRUCTURAL DESIGN BEING SUBMITTED, THE FINAL DECISION OF THE STRUCTURAL ENGINEER MUST BE IMPLEMENTED.
- IN CASE OF DISCREPANCY IN THE PLANS OR DRAWINGS, THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ANY ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.
- ANY VIOLATION OF THIS RESTRICTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- PROJECT DESIGNER / ARCHITECTOR MUST OVERSEE THE PROJECT AT ALL TIMES & REPORT TO THE DESIGNER OF WORK CONFORMING ACTIVITIES.
- CONTRACTOR SHOULD PROVIDE ARCHITECT & ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.



**LIGHTING LAYOUT GROUND FLOOR**

SCALE 1:100 MTS.

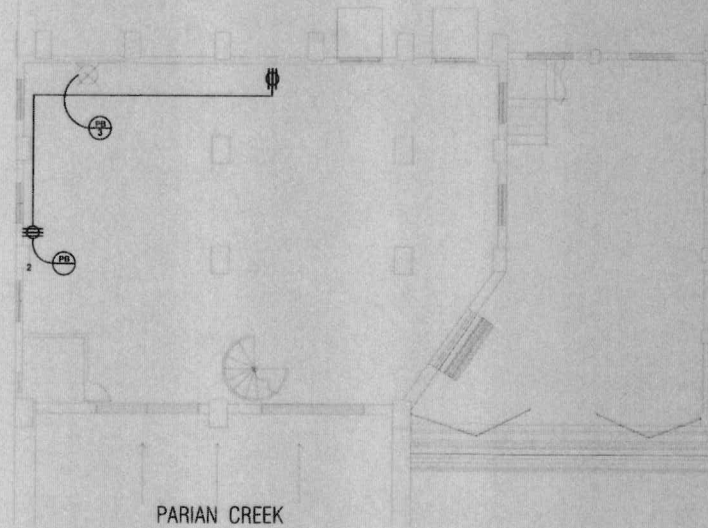


**LIGHTING LAYOUT SECOND FLOOR**

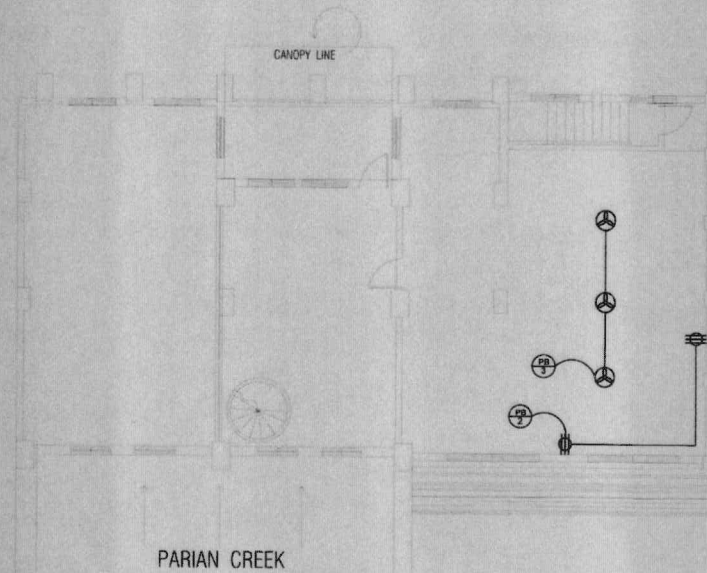
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	REPUBLIC OF THE PHILIPPINES CITY OF PASIG  <b>OFFICE OF THE MAYOR</b> <b>CITY ENGINEERING OFFICE</b>	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PUMPING STATION</b>  Brgy. Pinagbuhatan, Pasig City	ELECTRICAL: PREPARED BY: Engr. ALVIN G. ROLFO PROJECT ENGINEER  CHECKED BY: Engr. MARK JOSEPH L. CALLUNG CHIEF, ELECTRICAL INFRASTRUCTURE SECTION	REVIEWED BY: Engr. LAWRENCE B. PRUDENCIO CHIEF, PLUMBING & CONVEY. DIVISION	RECOMMENDING APPROVAL: Engr. ARTAXERXES V. GERONIMO CITY ENGINEERING OFFICE	APPROVED BY: VICTOR MA. REGIS N. SOTTO CITY MAYOR	SHEET CONTENT: Ground Floor Lighting Layout Second Floor Lighting Layout	SHEET NO.: 
	<b>IMPORTANT NOTES:</b>							
	1. NO ALTERATION IN PLANS & SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.	2. IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR CONTRADICTS TO THE STRUCTURAL DESIGN BEING GIVEN BY PLANS, THE METHOD OF THE STRUCTURAL ENGINEER MUST BE IMPLEMENTED.	3. IN CASE OF DISCREPANCY IN THE FORM OR DRAWING, THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ANY ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.	4. ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.	5. PROJECT ENGINEER, ARCHITECTOR MUST OVERSEE THE PROJECT AT ALL TIMES & REPORT TO THE DESIGNER OF NON-COMPLYING ACTIVITIES.	6. CONTRACTOR SHOULD PROVIDE ARCHITECT & ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.		



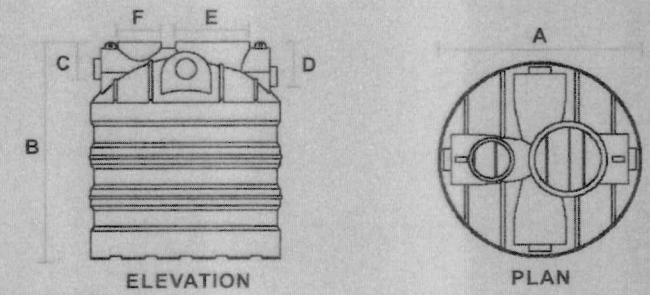
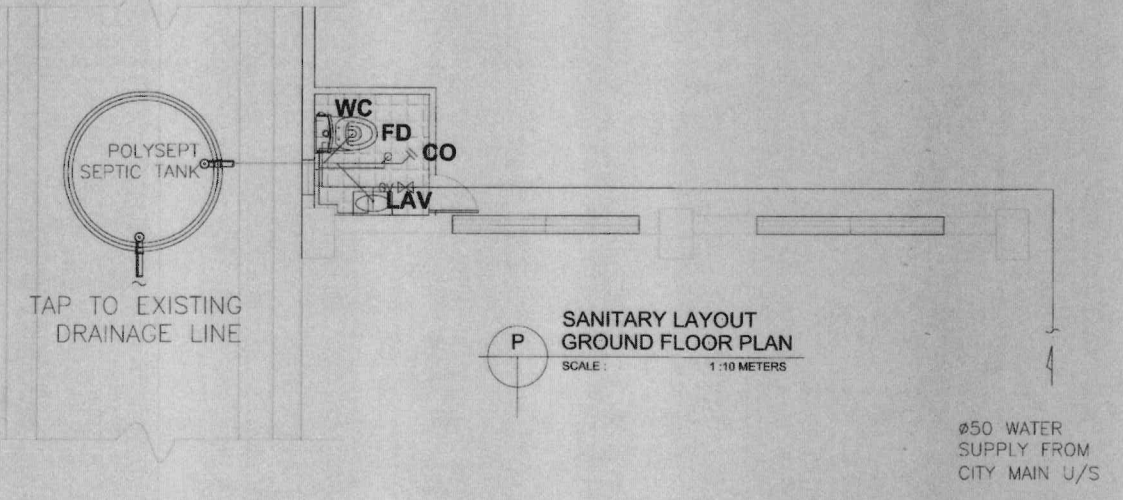
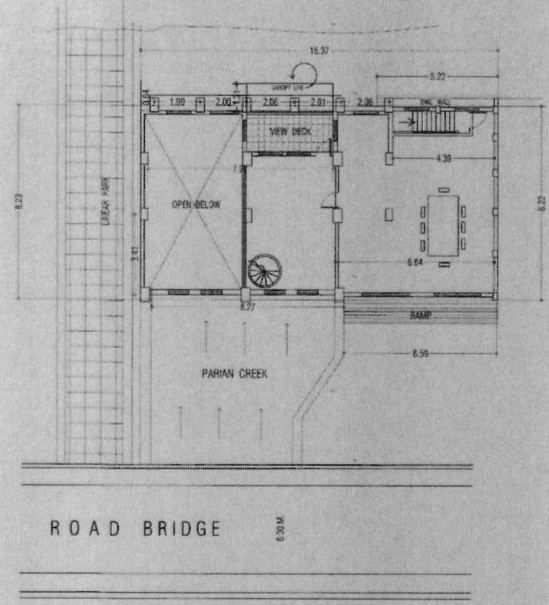
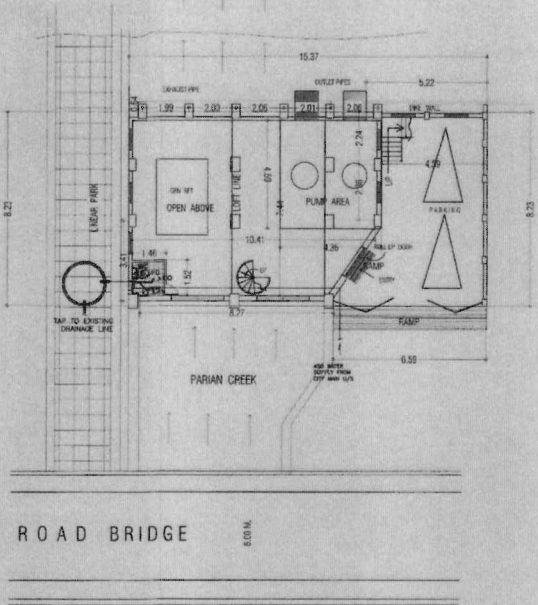


**POWER LAYOUT GROUND FLOOR**  
SCALE 1:100 MTS.



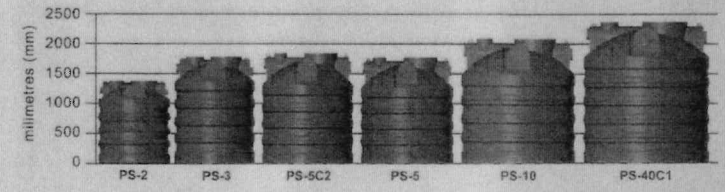
**POWER LAYOUT SECOND FLOOR**  
SCALE 1:100 MTS.

	REPUBLIC OF THE PHILIPPINES CITY OF PASIG  <b>OFFICE OF THE MAYOR</b> <b>CITY ENGINEERING OFFICE</b>	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PUMPING STATION</b>  Brgy. Pinagbahayan, Pasig City	ELECTRICAL: PREPARED BY: Engr. <b>ROLFO</b> PROJECT ENGINEER CHECKED BY: Engr. <b>MARY JOSEPH L. CALLING</b> OR. ELECTRICAL INFRASTRUCTURE SECTION	REVIEWED BY: Engr. <b>LAWRENCE B. PRUDENCIO</b> CHIEF, PLANNING, PROGRAMMING & CONST. DIVISION	RECOMMENDING APPROVAL: Engr. <b>ARTAXERXES V. GERONIMO</b> C.E. CITY ENGINEERING OFFICE	APPROVED BY: VICTOR MA REGIS N. SOTTO CITY MAYOR	SHEET CONTENT: Ground Floor Power Layout Second Floor Power Layout	SHEET NO.: 	
	<b>IMPORTANT NOTES:</b>								
	1. NO ALTERATION IN PLANS & SPECIFICATION SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.	2. IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR CONTRADICTS TO THE STRUCTURAL DESIGN BEING ISSUED BY THE CHIEF ENGINEER OF THE STRUCTURAL ENGINEER MUST BE IMPLEMENTED.	3. IN CASE OF DISCREPANCY IN THE FIGURE OR DRAWING THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE ANY ADJUSTMENT SHALL BE MADE BY THE CONTRACTOR.	4. ANY VIOLATION OF THIS INSTRUCTION SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.	5. PROJECT ENGINEER, INSPECTOR MUST OBSERVE THE PROJECT AT ALL TIMES & REPORT TO THE CHIEF OF BUREAU CONCERNING ACTIVITIES.	6. CONTRACTOR SHOULD PROVIDE ARCHITECT & ENGINEER WHO WILL BE RESPONSIBLE FOR THE PROJECT.			



MODEL	PS-2	PS-3	PS-5C2	PS-5	PS-10	PS-40C1
POPULATION EQUIVALENT (All Waste)						
1. Household *	6	11	13.5	17	29	34
2. Office / Factories/ Schools **	24	44	54	68	116	136
EFFECTIVE VOLUME litres	1200	2000	2700	3400	5800	6800
INLET/OUTLET DIAMETER mm	100	100	100	100	100	100/150
DETENTION TIME hours	>24	>24	>24	>25	>25	>24
<b>DIMENSIONS</b>						
A mm diameter	1300	1420	1625	1850	2150	2270
B mm	1400	1810	1740	1730	2020	2190
C mm	250	260	220	220	210	200
D mm	330	310	270	270	270	260
E mm	510dia	510dia	530dia	530dia	530X630	530X694
F mm	310dia	310dia	310dia	310dia	310dia	310dia

\* Based on design flow of 200 litres / person / day  
 \*\* Based on design flow of 50 litres / person / day



	REPUBLIC OF THE PHILIPPINES CITY OF PASIG  OFFICE OF THE MAYOR <b>CITY ENGINEERING OFFICE</b>	PROJECT TITLE: <b>REHABILITATION / MAJOR IMPROVEMENT OF PUMPING STATION</b>	PLUMBSING: ALLAN A. MARTIN, RMP PROJECT IN-CHARGE VINCENT V. VILLAMOR, RMP PROJECT INSPECTOR	CHECKED & REVIEWED BY:  <b>ENGR. LAWRENCE B. PRUDENCIO</b> CHIEF OF PLANNING, PROGRAMMING AND CONSTRUCTION DIVISION	RECOMMENDING APPROVAL:  <b>ENGR. ARTAXERXES V. GERONIMO</b> O.I.C. - CITY ENGINEERING OFFICE	APPROVED BY:  <b>VICTOR M. REGIS N. SOTTO</b> CITY MAYOR	SHEET CONTENT: SHEET NO. SANITARY LAYOUT GROUND FLOOR PLAN 
	LOCATION: <b>PARIAN CREEK, VILLA ABEZA, BERRY PHOENIXHATAN PASIG CITY</b>	3. IN CASE OF DISCREPANCY THE FIGURE OR DRAWING THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE 4. THE EXPENSE OF THE CONTRACTOR.		5. PROJECT IN-CHARGE / INSPECTOR MUST OVERSEE THE PROJECT AT ALL TIMES & REPORT TO THE DESIGNER OF NONE CONFORMING ACTIVITIES		CONFORME & ACCEPTED BY: CONTRACTOR	

IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR CONTRADICT TO THE STRUCTURAL DESIGN BEING DRAWN IN PLANS, THE FINAL DECISION OF THE STRUCTURAL ENGINEER MUST BE IMPLEMENTED.



**GENERAL NOTES:**

- ALL WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND TO THE REQUIREMENTS OF THE PHILIPPINE PLUMBING CODE.
- ALL INSTALLATION THEREIN SHALL BE DONE TO THE BEST PRACTICE OF THE PROFESSION SUPERVISED BY A LICENSED MASTER PLUMBER AND LICENSED ENGINEER DURING CONSTRUCTION.
- COORDINATE THE DRAWING WITH OTHER RELATED DRAWINGS AND SPECIFICATIONS. THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
- ALL PIPES SHALL BE INSTALLED AS INDICATED ON PLANS. ANY RELOCATIONS REQUIRED FOR PROPER EXECUTION OF OTHER TRADE SHALL BE WITH PRIOR APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE, FITTING, VALVE AND APPLIANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED, IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE PLUMBING TRADE AND TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- PIPING SHALL BE PROPERLY GRADED OR FITCHED TO ENSURE EASY DRAINAGE. THE MINIMUM SLOPES SHALL BE AS FOLLOWS:
  - SANITARY AND STORM DRAINAGE PIPES: FOR 80mm AND SMALLER - 1:50  
FOR 100mm AND LARGER - 1:100
- EXACT LOCATION OF EXISTING UTILITIES (WATERLINES, SEWER LINES, MANHOLES, AND STORM DRAINAGE LINES) SHALL BE VERIFIED BY THE CONTRACTOR AT JOBSITE.
- CONTRACTOR TO CONDUCT WATER SAMPLING ANALYSIS PRIOR TO PREPARATION OF SHOP DRAWINGS OF WATER TREATMENT (IF REQUIRED) FOR APPROVAL BY OWNER'S AUTHORIZED REPRESENTATIVE.
- THE PROPOSED UTILITIES SHALL BE MADE TO CONFORM TO THE ACTUAL LOCATION, TAPPING POINT, DEPTH AND INVERT LEVELS OF ALL EXISTING PIPES AND STRUCTURES AS VERIFIED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL GOVERNMENT / LOCAL CONSTRUCTION AND OPERATION PERMITS AND OTHER PERMITS REQUIRED BY ANY REGULATORY AGENCY.
- EXTENSOR UNDERGROUND DISCHARGE PIPES SHALL BE CENTRIFUGALLY CAST IRON PIPE & FITTINGS
- ALL WORKS SHALL BE DONE WITH UTMOST CARE AND HIGHEST LEVEL OF QUALITY AND SAFETY, WITH NO ADVERSE DISRUPTION TO EXISTING UTILITIES AND / OR OPERATION.
- ANY EXISTING UTILITIES EQUIPMENT, PIPINGS OR PAVED AREAS AFFECTED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION AND BE PROPERLY SCHEDULED PRIOR TO ACTUAL WORK AND WITH THE APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- ALL PIPES PENETRATING THRU WALLS, CEILING, FLOORS SHALL BE ACOUSTICALLY SEALED WITH STC FIRE RATED MATERIALS.
- ALL PIPES, FITTINGS, PUDDLE FLANGES, AND LADDER RUNGS INSTALLED INSIDE THE DOMESTIC WATER TANKS, SHALL BE STAINLESS STEEL.
- POLYPROPYLENE-RANDOM AND OTHER PLASTIC PIPE AND FITTINGS SHALL CONFORM TO THE DIMENSIONAL REQUIREMENTS OF SCHEDULE 40 IRON PIPE SIZE. SEE TABLE OF COLD AND HOT WATER LINES EQUIVALENT PIPE DIAMETER AND MAXIMUM SPACING OF PIPE SUPPORT.
- COLD AND HOT WATER LINES SHALL BE POLYPROPYLENE-RANDOM (PPR) PIPES OF DIFFERENT COLORS.
- CONDENSATE DRAIN PIPES SHALL BE INSULATED WITH FLEXIBLE CLOSED CELL ELASTOMERIC RUBBER WITH THICKNESS AS SPECIFIED BELOW.

PIPE SIZE (mm)	CONDENSATE DRAIN LINE THICKNESS OF INSULATION (mm)
25 AND SMALLER	20
32 TO 50	25
65 TO 200	32

MAX. SPACING OF PIPE SUPPORT		
PIPE DIAMETER (mm)	POLYVINYL CHLORIDE (PVC) PIPE (m)	HURBLESS CAST IRON PIPE (m)
63	0.75	-
90	1.00	1.50
110	1.00	1.50
160	1.25	1.50
200	1.25	1.50
250	1.50	1.50
300	1.50	1.50
375	1.75	1.50

COLD AND HOT WATER LINES		
EQUIVALENT PIPE DIAMETER		
NOMINAL PIPE DIAMETER (mm)	POLYPROPYLENE-RANDOM (PPR) PIPE (mm)	HIGH DENSITY POLYETHYLENE (HDPE) PIPE-PE 100PPH (mm)
15	25	-
20	32	-
25	40	-
32	50	-
40	63	-
50	75	-
65	90	-
75	110	-
100	-	125
150	-	180
200	-	225
250	-	280
300	-	355

MAX. SPACING OF PIPE SUPPORT		
PIPE DIAMETER (mm)	POLYPROPYLENE-RANDOM (PPR) PIPE (m)	HIGH DENSITY POLYETHYLENE (HDPE) PIPE (m)
25	0.75	-
32	0.75	-
40	0.75	-
50	1.00	-
63	1.00	-
75	1.00	-
90	1.25	-
110	1.25	-
125	-	1.50
180	-	1.50
225	-	1.50
280	-	1.75
355	-	1.75

SANITARY DRAINAGE AND VENT LINES		
EQUIVALENT PIPE DIAMETER		
NOMINAL PIPE DIAMETER (mm)	SOIL AND VENT PIPING POLYVINYL CHLORIDE (PVC) PIPE-SERIES 1000 (mm)	SOIL AND WASTE STACK HURBLESS CAST IRON PIPE ASTM A888 (mm)
50	63	-
75	90	75
100	110	100
150	160	150
200	200	200
250	250	250
300	-	300
375	-	375

ABBREVIATIONS	
BP	BOOSTER PUMP
CAP	CAPACITY
CWL	COLD WATER LINE
CWR	COLD WATER RISER
CJM	CUBIC METER
CV	CHECK VALVE
DN, #	DIAMETER
DN	DOWN
DS	DOWNSPOUT
F/A	FROM ABOVE
F/B	FROM BELOW
FC	FLEXIBLE CONNECTOR
FCD	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FV	FLOAT VALVE
GPM	GALLONS PER MINUTE
RD	ROOF DRAIN
SP	SOIL PIPE
SS	SOIL STACK
T/B	TO BELOW
GT	GREASE TRAP
GV	GATE VALVE
H/L	HIGH LEVEL
HP	HORSE POWER
KS	KITCHEN SINK
KW	KILOWATT
LAV	LABATORY
LPS	LITERS PER SECOND
M	METER
M/L	MO LEVEL
MM	MILLIMETER
MIN	MINIMUM
TDH	TOTAL DYNAMIC HEAD
TYP	TYPICAL
U/S	UNDER SLAB
UR	URINAL
VP	VENT PIPE
VS	VENT STACK
VR	VENT THRU ROOF
WC	WATER CLOSET
WS	WYE STRAINER
M	WATER METER

LEGENDS AND SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER LINE		BALANCING VALVE
	HOT WATER LINE		FLOAT VALVE
	HOT WATER RETURN		FLOAT VALVE (SCHEMATIC)
	SOIL PIPE		CAPPED-OFF
	VENT PIPE		WATER HAMMER ARRESTER
	STORM DRAINAGE PIPE		BACK FLOW PREVENTER
	CONDENSATE DRAINAGE PIPE		LOCAL CONTROL PANEL
	DISCHARGE PIPE		WATER HEATER
	CHEMICAL WASTE PIPE		SEWER MANHOLE
	CHEMICAL VENT PIPE		DRAINAGE MANHOLE
	RADIO ACTIVE VENT PIPE		FLOOR DRAIN OR ROOF DRAIN
	RADIO ACTIVE WASTE PIPE		SCUPPER DRAIN
	CONTINUOUS PIPE		FLOOR CLEANOUT
	PERFORATED PIPE		CEILING CLEANOUT / CLEANOUT
	PIPE SLEEVE		CATCHBASIN
	CHECK VALVE		AREA DRAIN
	WATER METER ASSEMBLY		FRENCH DRAIN
	WATER METER		ROOF DRAIN
	WYE STRAINER		RAIN WATER OUTLET (SCHEMATIC)
	FLEXIBLE PIPE CONNECTION		SPLASH
	PUMP		KITCHEN SINK
	TAP (LOOKABLE)		WATER CLOSET (FLUSH VALVE)
	TAP / HOSE REEL (PLAN)		LAB
	HOSE REEL (SCHEMATIC)		UR
	VALVE IN RISER		SSK
	GATE VALVE		SLOP SINK
			STUB-OUT

<p>REPUBLIC OF THE PHILIPPINES CITY OF PASIG</p> <p>OFFICE OF THE MAYOR CITY ENGINEERING OFFICE</p>	<p>PROJECT TITLE:</p> <p><b>REHABILITATION / MAJOR IMPROVEMENT OF PUMPING STATION</b></p> <p>LOCATION: <b>PARIAN CREEK, VILLA ABESA, BRGY. PIMAHORHATAN PASIG CITY</b></p>	<p>PLUMBING:</p> <p>ALLAN A. MARTIN, RMP PROJECT IN CHARGE</p> <p>VINCENT V. VILLAMOR, RMP PROJECT INSPECTOR</p>	<p>CHECKED &amp; REVIEWED BY:</p> <p>ENGR. LAWRENCE B. PRUDENCIO CHIEF OF PLANNING, PROGRAMMING AND CONSTRUCTION DIVISION</p>	<p>RECOMMENDING APPROVAL:</p> <p>ENGR. ARTAXERXES V. GERONIMO O.I.C. - CITY ENGINEERING OFFICE</p>	<p>APPROVED BY:</p> <p>VICTORIA M. REGIS N. SOTTO CITY MAYOR</p>	<p>SHEET CONTENT: SHEET NO.</p> <p>GENERAL NOTES, LEGENDS AND SYMBOLS, SANITARY DRAINAGE AND VENT LINES, ABBREVIATIONS, COLD AND HOT WATER LINES</p> <p>2</p>
	<p>IF IN ANY CASE THE CONSTRUCTION METHOD USED BY THE CONTRACTOR CONTRADICT TO THE STRUCTURAL DESIGN BEING DRAWN IN PLANS, THE FINAL DECISION OF THE STRUCTURAL ENGINEER MUST BE IMPLEMENTED.</p> <p>3. IN CASE OF DISCREPANCY THE FIGURE OR DRAWING, THE MATTER SHALL BE SUBMITTED IMMEDIATELY TO THE ARCHITECT BEFORE THE EXPENSE OF THE CONTRACTOR.</p> <p>5. PROJECT IN CHARGE / INSPECTOR MUST OVERSEE THE PROJECT AT ALL TIMES &amp; REPORT TO THE DESIGNER OF NONE CONFORMING ACTIVITIES.</p> <p>CONFORME &amp; ACCEPTED BY: _____ CONTRACTOR</p>					

## BID FORM

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

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

To: **THE CHAIRMAN  
BIDS AND AWARDS COMMITTEE  
PASIG CITY**

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin 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: **REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION AT PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY;**

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: \_\_\_\_\_  
\_\_\_\_\_ (P \_\_\_\_\_)

d. The discounts offered and the methodology for their application are: \_\_\_\_\_;

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 \_\_\_\_\_  
\_\_\_\_\_ (P \_\_\_\_\_) percent of the Contract Price for the due performance of the Contract, or a Performance Securing Declaration in lieu of the allowable forms of Performance Security, subject to the terms and conditions of issued GPPB guidelines<sup>12</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.

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 **REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION AT PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY** of the **Bids and Awards Committee (B.A.C.) Pasig City**

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: \_\_\_\_\_

**SUBJECT** : **BILL OF QUANTITIES / COST ESTIMATE**

**NAME OF PROJECT** : **REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION**

**LOCATION** : **PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE ( P )	AMOUNT ( P )
1.0	Mobilization _____ (Pesos _____ _____ )	1.00	lot		
2.0	Preliminaries _____ (Pesos _____ _____ )	1.00	l.s		
3.0	Earthworks _____ (Pesos _____ _____ )	1.00	l.s		
4.0	Structural Works _____ (Pesos _____ _____ )	1.00	l.s		
5.0	Pumping Fixtures and Toilet Accessories _____ (Pesos _____ _____ )	1.00	l.s		
6.0	Masonry / Architectural Works _____ (Pesos _____ _____ )	1.00	l.s		
7.0	Floodgate / Barscreen _____ (Pesos _____ _____ )	2.00	units		
	<b>Total Amount in Words:</b> _____ _____				
	<b>GRAND TOTAL</b>				

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**(Name & Address of Bidder)**

\_\_\_\_\_  
**(Signature)**  
\_\_\_\_\_  
**(Name, Designation of Authorized Signing Official)**



**SUBJECT** : **BILL OF QUANTITIES / COST ESTIMATE**

**NAME OF PROJECT** : REHABILITATION / MAJOR IMPROVEMENT OF PARIAN PUMPING STATION

**LOCATION** : PARIAN CREEK, VILLA ABESA, BRGY. PINAGBUHATAN, PASIG CITY

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE ( P )	AMOUNT ( P )
8.0	Electrical Fixtures _____ (Pesos _____ _____ )	1.00	l.s		
9.0	Electrical Wires and Conduits _____ (Pesos _____ _____ )	1.00	l.s		
10.0	Panel Board and Circuit Breaker _____ (Pesos _____ _____ )	1.00	l.s		
11.0	Back Up Pump _____ (Pesos _____ _____ )	1.00	l.s		
12.0	Pumps / Generator Set / Accessories _____ (Pesos _____ _____ )	1.00	l.s		
	<b>Total Amount in Words:</b> _____ _____				
	<b>GRAND TOTAL</b>				

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
(Name & Address of Bidder)

\_\_\_\_\_  
(Signature)  
\_\_\_\_\_  
(Name, Designation of Authorized Signing Official)