



Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 9595349
Procuring Entity BAGUIO WATER DISTRICT - BAGUIO CITY
Title 1 lot Pipelaying works for the Proposed Installation of 8"Ø x 2,730M HDPE Mainline from Marcos Highway to Asin Road via Suello Road Project
Area of Delivery Benguet

| | | |
|---|------------------------------|---------------------|
| Solicitation Number: 03-JO-052 | Status | Pending |
| Trade Agreement: Implementing Rules and Regulations | | |
| Procurement Mode: Public Bidding | Associated Components | 4 |
| Classification: Goods - General Support Services | | |
| Category: General Engineering Services | Bid Supplements | 0 |
| Approved Budget for the Contract: PHP 31,709,572.67 | | |
| Delivery Period: 98 Day/s | Document Request List | 0 |
| Client Agency: | | |
| | Date Published | 23/03/2023 |
| Contact Person: Ma. Luisa C Tenedero BAC In-House Chairman BWD Compound, Utility Road Baguio City Benguet Philippines 2600 63-74-4424858 63-74-4424858 purchasing.bwd2014@gmail.com | Last Updated / Time | 22/03/2023 10:59 AM |
| | Closing Date / Time | 12/04/2023 13:30 PM |

Description

1 Lot Pipelaying works for the Proposed Installation of 8"Ø x 2,730M HDPE Mainline from Marcos Highway to Asin Road via Suello Road Project
Scope of Work:
- Supply and installation of materials, labor, and equipment for the complete installation of 8"Ø (225mm) x 2,730m HDPE pipeline through electrofusion method Please refer to the attached Terms of Reference (TOR) and Drawing Plans for specific details. Duration: 98 working days
Approved Budget Cost: ₱31,709,572.67 / lot

x x x x x

This is a two (2) envelope system:

Documents Comprising the Bid

The first envelope (Technical Proposal) shall contain the following:

I. CLASS "A" DOCUMENTS

A. LEGAL DOCUMENTS

1. Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives.
 2. Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas.
- In cases of recently expired Mayor's/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit: Provided, That the renewed permit shall be

1. Fusumatic EF machine,
 2. clamping and re-rounder,
 3. manual and rotational scrapers,
 4. marking,
 5. pipe cutter and chamfering tools and
 6. other tools needed for accomplishing the project.
7. Proof of payment of bidding documents in the amount of ₱25,000.00
 8. For the supply / materials
 - a) Brochure/s (Original) of materials
 - b) Certificate of Authorized Distributorship / Dealership issued by the Principal Supplier to the participating bidder (with red ribbon) if none has been submitted to the BWD-BAC in its Accreditation;
- For bidders who have foreign principal suppliers, the BWD-BAC shall accept an Apostilled Certificate of Authorized

Distributorship / Dealership issued by a competent authority of the host government in lieu of the Certificate of Authorized Distributorship / Dealership (with red ribbon), except for non-contracting countries to the Apostille Convention, which still require the red ribbon requirement.

- For locally produced / manufactured products, only a certificate of Authorized Distributorship / Dealership w/o red ribbon is required if applicable.

c) ISO Certificate issued to the principal supplier / participating bidder for the offered material (if none has been submitted to the BAC in its Accreditation);

d) International Certificate of Warranty.

9. Statement of Compliance to all provisions of the Terms of Reference (manner of implementation, qualification, requirements of suppliers / installers, technical specifications)

C. FINANCIAL DOCUMENTS

1. Audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities stamped "received" by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions, for the preceding calendar year, which should not be earlier than two (2) years from bid submission.

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

CLASS "B" DOCUMENT

If applicable, the joint venture bidders shall submit a Joint Venture Agreement in accordance with RA 4566 and its IRR. Each partner of the joint venture shall submit his or her respective PHILGEPS Certificates of Registration in accordance with Section 8.5.2 of the IRR of RA 9184. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance: Provided, that the partner responsible to submit the NFCC shall likewise submit the Statement of all its ongoing contracts and Audited Financial Statements.

The second envelope (Financial Proposal) shall contain the following:

- a) Bid Form, which includes bid prices and bill of quantities
- b) Detailed estimates including a summary sheet indicating the unit prices of construction materials, labor rates and equipment rentals used in coming up with the Bid
- c) Cash flow by the quarter and payments schedule

All Financial Proposals that exceed the ABC shall be rejected.

Pre-bid conference:

9:30am via Zoom Application

Meeting ID: 452 718 8447

Password: 9Buvqr

Pre-bid Conference

| Date | Time | Venue |
|------------|------------|---|
| 31/03/2023 | 9:30:00 AM | Pre-bid conference: March 31, 2023 9:30am via Zoom Application Meeting ID: 452 718 8447 Password: 9Buvqr |

Created by Ma. Luisa C Tenedero

Date Created 22/03/2023

The PhilGEPS team is not responsible for any typographical errors or misinformation presented in the system. PhilGEPS only displays information provided for by its clients, and any queries regarding the postings should be directed to the contact person/s of the concerned party.

submitted as a post-qualification requirement in accordance with Section 34.2 of the IRR of RA 9184.
3. Tax clearance per Executive Order No.398, series of 2005, as finally reviewed and approved by BIR.

B. TECHNICAL DOCUMENTS

1. PhilGEPS Certificate of Registration and membership in accordance with Section 8.5.2 of the IRR of RA 9184, except for foreign bidders participating in the procurement by a Philippines Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of this IRR: Provided, that the winning bidder shall register with the PhilGEPS in accordance with Section 37.1.4 of the IRR of RA 9184.
2. 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 within the relevant period as provided in the Bidding Documents. The statement shall include, for each contract, the following:
 - a. name of the contract
 - b. date of the contract
 - c. contract duration
 - d. owner's name and address
 - e. nature of work
 - f. contractor's role (whether sole contractor or partner in a JV) and percentage of participation
 - g. total contract value at award
 - h. date of completion or estimated completion time
 - i. total contract value at completion, if applicable;
 - j. Percentages of planned and actual accomplishments, if applicable;
 - k. value of outstanding works, if applicable;
 - l. the statement shall be supported by the notices of award and/or notices to proceed issued by the owners; and
 - m. the statement shall be supported by the Constructors Performance Evaluation System (CPES) rating sheets, and/or certificates of completion and owner's acceptance, if applicable;
3. An SLCC that is similar to the contract to be bid, and whose value, adjusted to current prices using the Philippine Statistics Authority (PSA) consumer price indices, must be at least fifty percent (50%) of the ABC. Provided, however, that 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. The SLCC shall be supported by an Owner's Certificate of Final Acceptance issued by the project owner other than the contractor or a final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES). In case of contracts with the private sector, an equivalent document shall be submitted.
4. Bid security in any of the following:

Form of Bid Security Amount of Bid Security (Not less than the required percentage of the ABC)

Cash or cashier's/manager's 2% check, issued by a Universal or Commercial bank

Bank draft/guarantee or 2% irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.

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

OR Bid Securing Declaration, which states, among others, that the bidder, shall enter into a Contract with the procuring entity and furnish the required performance security within ten (10) calendar days, or less, as indicated in the bidding documents, from the receipt of the Notice of Award, and committing to pay the corresponding fine and be suspended for a period of time from being disqualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as required in the guidelines issued by the Government Procurement Policy Board (GPPB).

5. Omnibus sworn statement in accordance with Section 25.3 of the IRR of RA 9184 which shall be executed by the prospective bidder or its duly authorized representative

6. Project Requirements:

- a) Organizational chart for the contract to be bid;
- b) List of contractor's personnel (viz: Project Manager, Project Engineers, Safety Officers, Materials Engineers, and Foremen, etc.), to be assigned to the contract to be bid, with their complete qualifications and experience data; and
- c) List of contractor's 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. The contractor shall have the following equipment:



BAGUIO WATER DISTRICT
BWD Compound, Utility Road, Baguio City 2600

REQUEST FOR BIDS/QUOTATION (RQ)

| | |
|---------------|-------------------|
| Document No. | ADM-PUR-F003 |
| Revision Date | February 15, 2020 |
| Revision No. | 01 |

To: _____
(Name of Supplier)

Contact Person: _____

Address: _____

Contact no.: _____

RQ No.: **03 – JO – 052**

PR / JO No.: **JO – 052**

Date of RQ: **March 17, 2023**

Purpose of RQ:
Proposed installation of 8"Ø x 2,730M
HDPE Mainline from Marcos Highway to
Asin Road via Suello Road (pipelaying
works)

**NOTE: DATA REQUIRED MUST BE FILLED UP COMPLETELY. FAILURE TO INDICATE THE
PRICE VALIDITY, TERMS, WARRANTY PERIOD AND DELIVERY PERIOD
SHALL MEAN OUTRIGHT DISQUALIFICATION OF BIDS**

| | Qty. | Description | U-Price | Total |
|---|--------------|---|---------|-------|
| VALIDITY DATE: _____ day (30 days minimum) | 1 lot | Pipelaying works for the Proposed Installation of 8"Ø x 2,730M HDPE Mainline from Marcos Highway to Asin Road via Suello Road Project | | |
| DELIVERY : _____ working days _____ calendar days _____ FOB warehouse | | Scope of Work: - Supply and installation of materials, labor, and equipment for the complete installation of 8"Ø (225mm) x 2,730m HDPE pipeline through electrofusion method | | |
| WARRANTY _____ calendar days upon acceptance. | | Please refer to the attached Terms of Reference (TOR) and Drawing Plans for specific details. | | |
| TERMS: | | Duration: 98 working days | | |
| | | Approved Budget Cost: ₱31,709,572.67 / lot | | |
| | | X X X X X | | |
| | | This is a two (2) envelope system: | | |
| | | Documents Comprising the Bid | | |
| | | The first envelope (Technical Proposal) shall contain the following: | | |
| | | I. CLASS "A" DOCUMENTS | | |
| | | A. LEGAL DOCUMENTS | | |
| | | 1. Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives. | | |
| | | 2. Mayor's/Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas. | | |
| | | • In cases of recently expired Mayor's/Business | | |



BAGUIO WATER DISTRICT
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| | |
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REQUEST FOR BIDS/QUOTATION (RQ)

permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit:
Provided, That the renewed permit shall be submitted as a post-qualification requirement in accordance with Section 34.2 of the IRR of RA 9184.

3. Tax clearance per Executive Order No.398, series of 2005, as finally reviewed and approved by BIR.

B. TECHNICAL DOCUMENTS

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- a. name of the contract
- b. date of the contract
- c. contract duration
- d. owner's name and address
- e. nature of work
- f. contractor's role (whether sole contractor or partner in a JV) and percentage of participation
- g. total contract value at award
- h. date of completion or estimated completion time
- i. total contract value at completion, if applicable;
- j. Percentages of planned and actual accomplishments, if applicable;
- k. value of outstanding works, if applicable;
- l. the statement shall be supported by the notices of award and/or notices to proceed issued by the owners; and
- m. the statement shall be supported by the Constructors Performance Evaluation System (CPES) rating sheets, and/or certificates of completion and owner's acceptance, if applicable;

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BAGUIO WATER DISTRICT
BWD Compound, Utility Road, Baguio City 2600

REQUEST FOR BIDS/QUOTATION (RQ)




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|---------------|-------------------|
| Document No. | ADM-PUR-F003 |
| Revision Date | February 15, 2020 |
| Revision No. | 01 |

based on the guidelines as prescribed by the PCAB.

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

4. Bid security in any of the following:

| Form of Bid Security | Amount of Bid Security (Not less than the required percentage of the ABC) |
|--|--|
| Cash or cashier's/manager's check, issued by a Universal or Commercial bank | 2% |
| Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. | 2% |
| Surety bond callable upon demand issued by a surety or insurance company duly certified by the insurance company duly certified by the Insurance Commission as authorized to issue such security. | 5% |
| OR Bid Securing Declaration, which states, among others, that the bidder, shall enter into a Contract with the procuring entity and furnish the required performance security within ten (10) calendar days, or less, as indicated in the bidding documents, from the receipt of the Notice of Award, and committing to pay the corresponding fine and be suspended for a period of time from being disqualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as required in the guidelines issued by the Government Procurement Policy Board (GPPB). | |

| | | | |
|--|--|---|---|
|    | <p align="center">BAGUIO WATER DISTRICT BWD Compound, Utility Road, Baguio City 2600</p> <p align="center">REQUEST FOR BIDS/QUOTATION (RQ)</p> | Document No. Revision Date Revision No. | ADM-PUR-F003 February 15, 2020 01 |
|--|--|---|---|




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7. Proof of payment of bidding documents in the amount of ₱25,000.00

8. For the supply / materials
- a) Brochure/s (Original) of materials
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| | | | | |
|--|---|--|---------------|-------------------|
|    | BAGUIO WATER DISTRICT BWD Compound, Utility Road, Baguio City 2600 | | Document No. | ADM-PUR-F003 |
| | REQUEST FOR BIDS/QUOTATION (RQ) | | Revision Date | February 15, 2020 |
| | | | Revision No. | 01 |

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All Financial Proposals that exceed the ABC shall be rejected.

Pre-bid conference: **31 MAR 2023**
 9:30am via Zoom Application
 Meeting ID: 452 718 8447
 Password: 9Buvqr

By: Supplier or Authorized Representative: _____ (sign over printed name)

12 APR 2023

Deadline of submission of bids: _____ Opening of bids: **1:30 pm**

Prepared by: M. Lamangan
 PURCHASING

Noted by: ATTY. MA. LUISA C. TENEDERO
 BAC IN-HOUSE

ENGR. REYNALDO C. JAYCO
 BAC-TECHNICAL

**BWD RESERVES THE RIGHT TO REJECT BIDS &/OR DECLARE A FAILURE OF BIDDING
 PURSUANT TO THE PERTINENT PROVISIONS OF RA 9184**

Telefax No. (074) 442-4858 (Purchasing) / 444-7246



BAGUIO WATER DISTRICT

"Serving Mankind is Serving God"

SUBJECT: **TERMS OF REFERENCE**
PROJECT: PROPOSED INSTALLATION OF 8"Ø X 2,730M HDPE MAINLINE FROM
MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD
(PIPELAYING WORKS)
LOCATION: SUELLO ROAD, BAGUIO CITY

I. INTRODUCTION

Part of the Baguio Water District's strategic direction is to continuously improve its current water supply geared towards addressing Baguio's current and future water requirements. In line with this objective, Baguio Water District has embarked on the augmentation of water supply on areas with limited water sources through installation of transmission line.

II. BRIEF DESCRIPTION OF THE PROJECT AND WORK ORDER

The installation of the 8"Ø x 2,730 meters HDPE pipeline shall be undertaken along Suello Village as determined by the Baguio Water District.

The pipeline shall serve as transmission line to deliver water supply coming from Km. 8 Reservoir through the existing Km. 8 line laid along Marcos Highway to the customers along Brgy. Asin Road.

III. MANNER OF IMPLEMENTATION

The Baguio Water District shall implement the preparation of the pipeline trench through the conduct of concrete breaking, concrete excavation, soil excavation, and sand bedding. Upon laying of pipes by the supplier/installer, BWD shall perform the backfilling and compaction works including installation of temporary resurfacing. BWD shall secure the necessary excavation permit/s and will provide the materials, labor, and equipment for the execution of the said activities.

The pipelaying works of the project, which covered by this Terms of Reference, will be implemented by way of tapping the services of private HDPE pipe supplier/installer with expertise in electrofusion method. The supplier/installer of the HDPE pipes and electrofusion fittings shall provide all supplies, materials, labor, equipment, and power supply for the complete installation and a workable piping system, which include the interconnections of the new line to the existing lines, in accordance with the approved plans and standards.

The surface restoration and paving works shall be implemented through a separate contract.

IV. QUALIFICATION REQUIREMENTS OF SUPPLIERS/INSTALLERS

Interested bidders must have the following minimum requirements:

1. With specialty on supply and installation of HDPE pipes and electrofusion fittings.

2. Must have the following tools and equipment: Fusamatic EF machine, clamping and re-rounder, manual and rotational scrapers, marking, pipe cutter and chamfering tools or, if such will be leased, certification of availability of tools and equipment from the lessor/vendor for the duration of the activity.
3. Must have previous experience in installing HDPE pipes through electrofusion method.

V. SCOPE OF WORK

The scope of work to be undertaken shall include the following:

| ITEM / WORK DESCRIPTION | QUANTITY |
|--|----------|
| Supply and Installation of 8"Ø x 2,730m HDPE Mainline from Marcos Highway to Asin Road via Suello Road – in accordance to the approved plans and drawings. | 1 lot |

- The supplier/installer shall provide and install the HDPE pipeline from its proposed tapping point up to its interconnection at the endpoint.
- The supplier/installer shall also provide and install all the necessary electrofusion fittings such as couplers, elbows, and stub-flanges with backing rings for the complete installation and activation of the HDPE pipeline.

VI. PROJECT DURATION

The pipelaying work which include the interconnection of the new line to the existing lines shall be completed within a duration of ninety-eight (98) working days.

VII. TECHNICAL SPECIFICATIONS

7.1 MATERIALS

All materials shall conform in accordance to the approved plans and specifications.

7.1.1 HDPE PIPE

7.1.1.1 TYPE

- Should be made up of High-Density Polyethylene (HDPE) suitable for high quality pressure pipes, produced through conventional pipe extrusion process.
- High pressure and temperature pipes for drinking water
- Complies with PNS ISO 4427:2002

7.1.1.2 SIZE

- The Nominal Outside Diameter of the HDPE pipe should be 225 mm (8"Ø).

7.1.1.3 DESIGNATION AND CLASSIFICATION

- The designation of the material should be PE 100.

7.1.1.4 STANDARD DIMENSION RATIO (SDR)

- The SDR of the HDPE pipe should be 9.

7.1.1.5 PRESSURE RATING

- The nominal pressure (PN) of the HDPE pipe should be PN 20 (290 psi).

7.1.1.6 THICKNESS

- The minimum thickness of the 225mm HDPE pipe should be 25.20mm

7.1.1.7 COLOR

- Black / Blue / Black with blue stripes

7.1.1.8 PHYSICAL CHARACTERISTICS AND MECHANICAL PROPERTIES

- The supplier shall be required to submit test results in conformance to ISO and ASTM standards with reference to physical and mechanical strength of the pipes.

| Properties | Typical Value | Unit | Test Method |
|---------------------------------------|---------------|--------------------|-------------|
| <i>Physical Properties</i> | | | |
| Melt Flow Rate (190°C, 5kg) | 0.25 | g/10 min | ISO 1133 |
| Density | 0.952 | g/cm ³ | ISO 1183 |
| Vicat Softening Point @10 N, 50°C/hr | 124 | °C | ASTM D1525 |
| Melting Point | 128 | °C | ASTM D3418 |
| <i>Mechanical Properties</i> | | | |
| Tensile Strength @ Yield | 25 | MPa | ISO 527 |
| Tensile Strength @ Break | 33 | MPa | ISO 527 |
| Elongation @ Break | 750 | % | ISO 527 |
| Stiffness | 7500 | Kg/cm ² | ASTM D747 |
| Flexural Modulus | 11000 | Kg/cm ² | ASTM D790 |
| Notched Izod Impact Strength | 48 (No Break) | Kg.cm/cm | ASTM D256 |
| Durometer Hardness | 64 | Shore D | ASTM D2240 |
| ESCR, F50 (condition B, 25% Igepal) | >1000 | hrs | ASTM D1693 |
| <i>Other Properties</i> | | | |
| Carbon Black Content | - | % | ISO 6964 |
| Oxidative Induction Time (OIT, 200°C) | - | Minutes | ISO 11357-6 |
| Classification | - | - | ISO 12162 |

7.1.1.9 OTHER REQUIREMENTS

- The supplier shall submit a certification that the HDPE pipe is suited for potable water use.

7.1.2 ELECTROFUSION FITTINGS

7.1.2.1 TYPE

- Should be produced from HDPE material which conforms to International Standards for potable water.

7.1.2.2 SIZE

- The Nominal Diameter (d) of the electrofusion fittings should be 225 mm.

7.1.2.3 DESIGNATION AND CLASSIFICATION

- The designation of the material should be PE 100.

7.1.2.4 STANDARD DIMENSION RATIO (SDR)

- The SDR of the electrofusion fittings pipe should be 9.

7.1.2.5 PRESSURE RATING

- The nominal pressure (PN) of all electrofusion fittings should be PN 20 (290 psi).

7.1.2.6 STANDARDS

- The electrofusion fittings shall be designed, tested and quality controlled according to International Standards. These standards are based on the following: EN 1555, EN 12201, NF 136, AS/NZS 4129, WIS 4-32-14, WIS 4-32-15.

7.1.2.7 COLOR

- Black

7.1.2.8 FEATURES

- All electrofusion fittings should have a self-recognition system that allows the controller to read the fittings code automatically. This is to avoid human error in entering the fitting code into the controller.
- All electrofusion fittings should have only one welding time. Fitting code should be attached to the fittings with all the information, i.e. brand and type of fittings, welding time, cooling time and voltage requirement. This fitting code should be identical to the controller display during welding.
- Electrofusion fittings should have a dynamic monitoring system to avoid short circuit during welding.

7.1.2.9 PHYSICAL CHARACTERISTICS AND MECHANICAL PROPERTIES

- The supplier shall be required to submit test results in conformance to ISO and ASTM standards with reference to physical and mechanical strength of the fittings.

7.1.2.10 OTHER REQUIREMENTS

- Supplier should have an available well-trained technician to train the end users the proper way of connecting electrofusion fittings.
- Quality Assurance Certificates showing compliance with the materials and testing standards in each fitting shall be required.
- Electrofusion connection reports should be available for future references.
- Electrofusion machine/s to be used must have BT connection features for easy monitoring of the installer.

7.2 QUALITY CONTROL / QUALITY ASSURANCE

Quality Control / Quality Assurance program for the supply and installation of HDPE pipes and fittings shall be in accordance to the applicable ASTM and ISO standards.

7.3 SITE PREPARATION

BWD shall conduct the staking, concrete breaking, concrete excavation, soil excavation, and sand bedding in preparation for the pipelaying works.

7.4 JOINTING METHODS

Field jointing methods of the HDPE pipes shall be through electrofusion method. The supplier/installer shall undertake the proper procedures in performing the electrofusion method to ensure the durability of the pipeline against leaks.

7.5 LEAK TEST AND CORRECTIVE WORK

The length of un-hydrotested installed pipelines shall not exceed 150 meters. No further pipelaying shall be allowed if this provision is not being complied.

The pipeline to be tested shall be thoroughly flushed out with water prior to testing. The supplier/installer shall test the pipeline in sections after trench is backfilled and compacted.

The test shall consist of holding pressure on each section of the line for a period of twenty-four (24) hours with a test pressure of at least 250 psi at the lowest portion. If the pipeline did not fail after 24 hours, it shall be subsequently tested to its operating pressure which is 290 psi for two (2) hours. Pressure gauges shall be provided at both ends of the section being tested to monitor the leaks and pressure.

The leakage shall be considered as the amount of water entering the pipeline during the test period. The allowable leakage shall not exceed 1.85 liters/millimeter (20 gallons) of diameter of pipe per kilometer (mile) per day.

Should any test of a section of the pipeline disclose joint leaks greater than the allowable leak, the supplier/installer shall locate, repair or replace the defective pipe or fitting at his own cost. The test shall be repeated until the leakage is within the permitted allowable.

The supplier/installer shall provide the motor pump while BWD shall provide the water for the flushing and hydrotesting activities.

7.6 PIPELINE FLUSHING AND DISINFECTION

Before the pipeline will be placed in service, the new system shall be disinfected with chlorine in accordance with the standard for disinfecting water lines by the BWD.

7.7 SITE CLEAN-UP

After completion of all pipelaying works and testing activities at the project site, all equipment and residual materials shall be removed from the site by the supplier/installer.

The site shall then be restored to a condition as nearly as possible to that which existed before the project commenced. This work shall be implemented through a separate contract.

VIII. TERMS OF PAYMENT

The supplier/installer may submit a request for payment for work accomplished. Such request for payment shall be verified and certified by the BWD's Representative.

The BWD shall have the right to deduct from the supplier/installer's progress billing such amount as may be necessary to cover third party liabilities, as well as uncorrected discovered defects in the project.

Payments shall be adjusted by deducting therefore the amounts for advance payments and retention.

IX. LIQUIDATED DAMAGES

"When the supplier fails to satisfactorily deliver the materials under the contract and complete the installation work within the specified delivery schedule, inclusive of duly granted time extensions, if any, the supplier shall be liable for damages for the delay and shall pay the procuring entity liquidated damages, not by way of penalty; an amount equal to one-tenth (1/10) of one percent (1%) of the cost of the delayed goods scheduled for delivery for every day of delay until such materials are finally delivered, the installation work is completed and accepted by BWD.

BWD need not prove that it has incurred actual damages to be entitled to liquidated damages. Such amount shall be deducted from any money due or which may become due to the supplier, or collected from any securities or warranties posted by the supplier, whichever is convenient to BWD. In no case shall the total sum of liquidated damages exceed ten percent (10%) of the total contract price, in which event BWD may rescind the contract and impose appropriate sanctions over and above the liquidated damages to be paid."

X. WARRANTY

The supplier/installer shall assure that the materials delivered and used in the installation work are carried out in accordance with the materials and technical specifications required by BWD.

The materials including its installation shall be guaranteed against manufacturing and workmanship defects for a period of five (5) years from BWD's date of acceptance. Defects discovered within the 5-year warranty period shall be repaired by the supplier/installer at his own expense within seven (7) calendar days upon receipt of the notice to be issued by BWD. The obligation for the warranty shall be covered by either retention money equivalent to at least one percent (1%) of every progress payment or a special bank guarantee equivalent to at least one percent (1%) of the total contract price. The said amounts shall only be released after the lapse of the 5-year warranty period.

XI. AWARD OF CONTRACT

The contract shall be awarded to the supplier determined as the lowest calculated and responsive bidder.

XII. APPLICABLE STANDARDS

All pertinent provisions of RA9184 shall be applicable and shall form as an integral part of this Terms of Reference.

Baguio Water District reserves the right to reject any or all bids which deemed disadvantageous to the Baguio Water District.

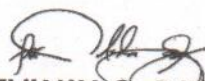
XIII. APPROVED BUDGET COST

The approved budget for the contract is Thirty-One Million Seven Hundred Nine Thousand Five Hundred Seventy-Two and 67/100 (Php 31,709,572.67).

Prepared by:


JANEL J. BALANGCOD
OIC, Planning Section Supervisor

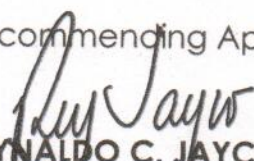
Audited by:


LUZVIMIN G. RAMOS
Internal Auditor

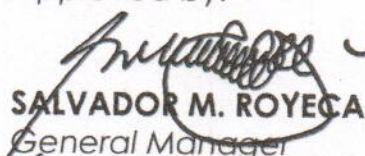
Reviewed by:

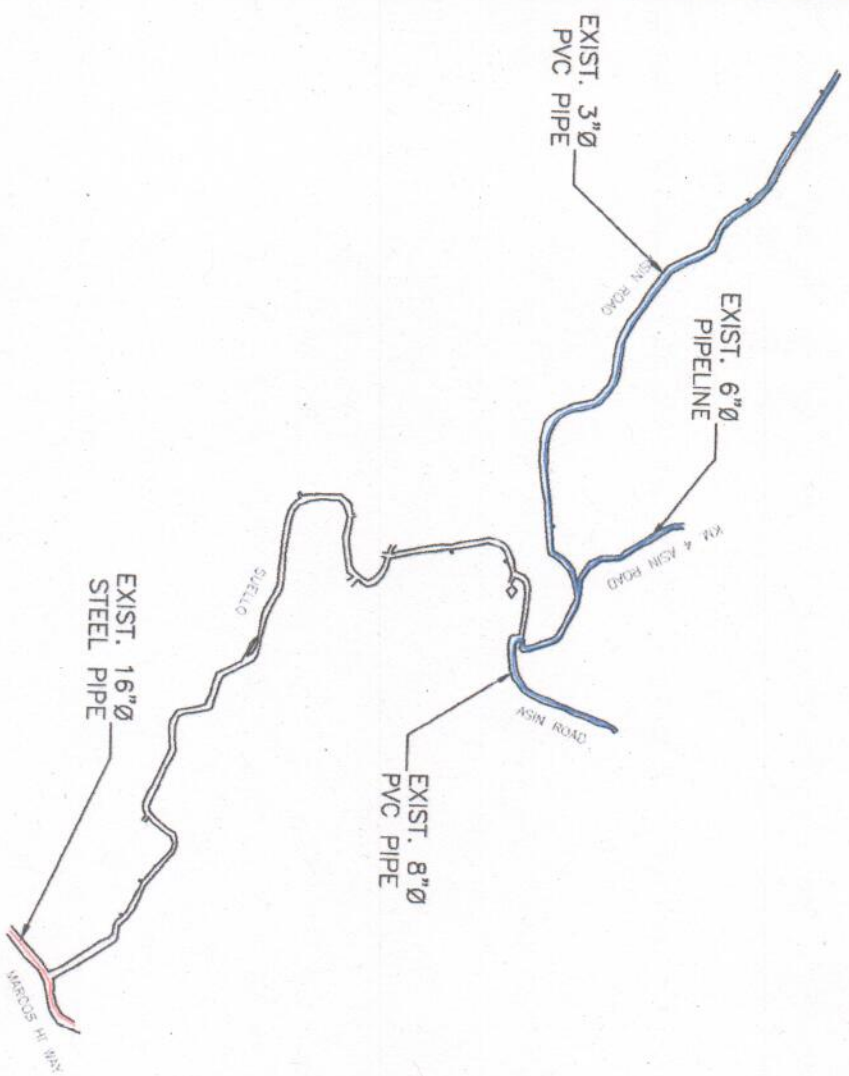

NORIEL C. CALPITO
Projects & Construction Div. Manager

Recommending Approval:


REYNALDO C. JAYCO
OIC - AGM Technical

Approved by:


SALVADOR M. ROYECA
General Manager



VICINITY MAP/EXISTING PIPELINE SET-UP



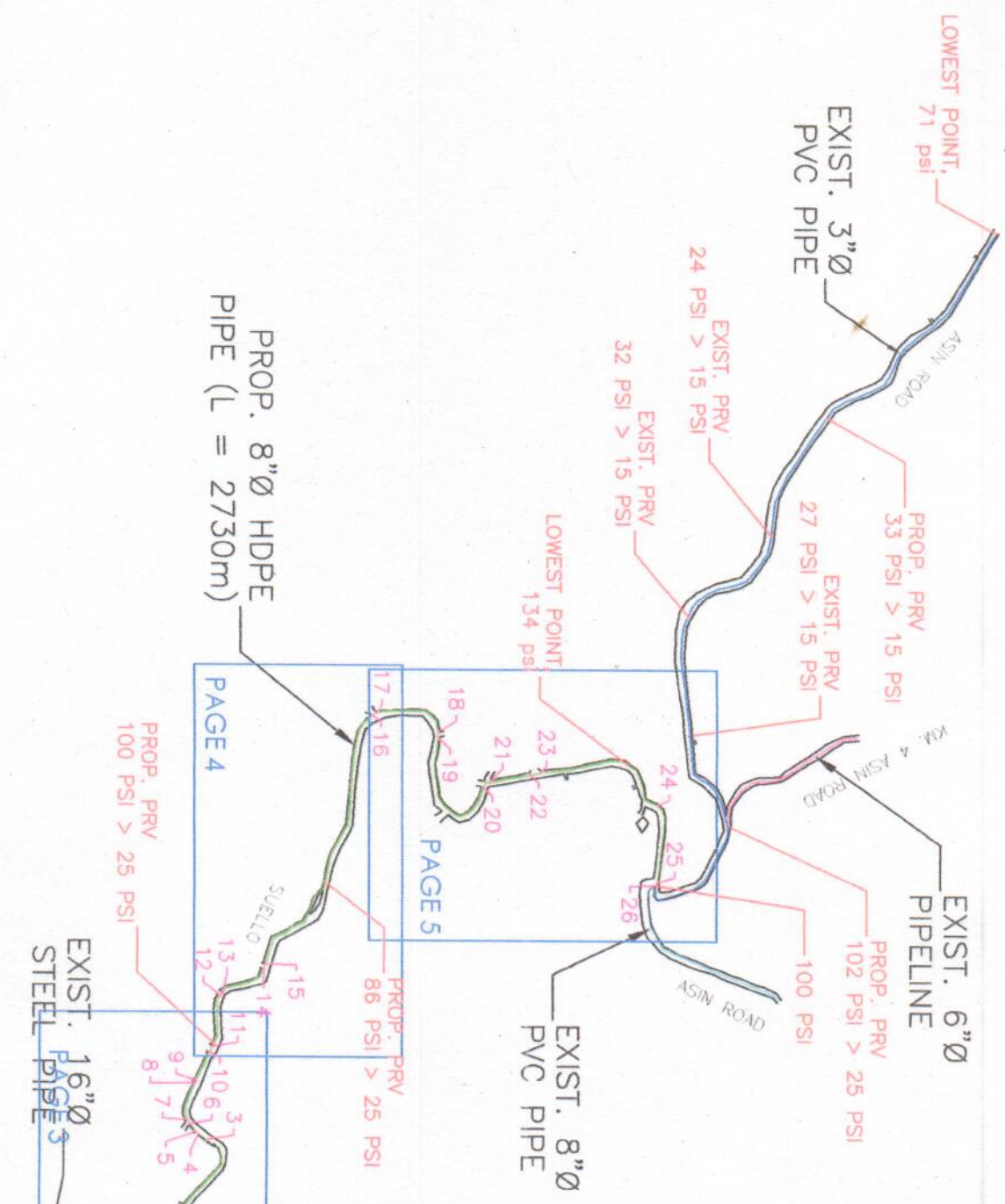
| | | | |
|---|---|---|---|
| PREPARED BY: RALPH R. MANZANO ENGINEER | REVIEWED BY: REGINO A. ALARCON ENGINEER | APPROVED BY: SALVADOR M. ROYECA GENERAL MANAGER | PROJECT TITLE AND LOCATION/S: PROPOSED INSTALLATION OF 8"Ø X 2730LM HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD |
| CHECKED BY: JANELLE A. DELACRUZ PROJECT ENGINEER | DESIGNED BY: REGINO A. ALARCON ENGINEER | | |
| SHEET CONTENTS: VICINITY MAP EXISTING PIPELINE SET-UP | | SHEET NO.: 1 11 | |



NOTES:

- USE 45° ELBOWS ON CURVES WITH AT LEAST 22.5° BENDS.
- ON CURVES WITH MORE THAN 45° BENDS, USE COMBINATION OF 22.5° + 45° 45° ELBOWS. USING OF 90° 45° ELBOWS IS NOT ALLOWED.

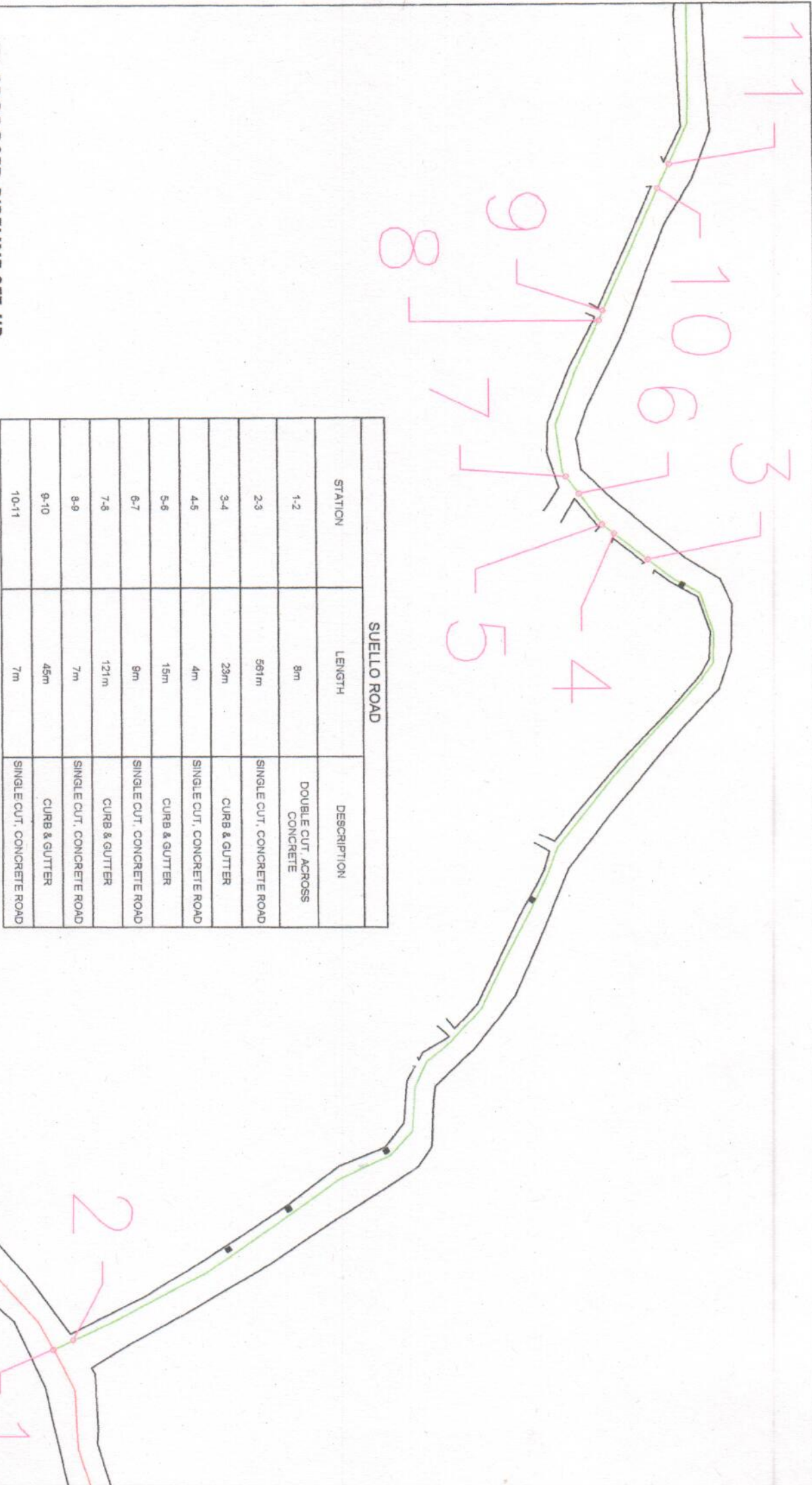
88



PROPOSED PIPELINE SET-UP



| | | | | | |
|------------------------------------|------------------------------------|-------------------------------------|---|--------------------------|------------|
| PREPARED BY: | REVIEWED BY: | APPROVED BY: | PROJECT TITLE AND LOCATION/S: | SHEET CONTENTS: | SHEET NO.: |
| RALPH DELICADO MANZANO ENGINEER | JOSE B. CALIBRO ENGINEER | SALVADOR ROYCECA GENERAL MANAGER | PROPOSED INSTALLATION OF 8"Ø X 2730M HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD | PROPOSED PIPELINE SET-UP | 2 |
| CHECKED BY: | RECO. APPROVAL BY: | | | | 11 |
| JIMEL J. MANABOOD CONSULTANT | REYNALDO J. MANABOOD CONSULTANT | | | | |



PROPOSED PIPELINE SET-UP

SCALE

PREPARED BY:

RALPH RANDELO MANZANO

REVIEWED BY:

NORIEA CALIBO

APPROVED BY:

SAVADOR REYES

PROJECT TITLE AND LOCATION/S

PROPOSED INSTALLATION OF 8"Ø X 2730UM HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD

SHEET CONTAINS:

PROPOSED PIPELINE SET-UP

SHEET NO.:

3

11



CHECKED BY:

JANET J. BRANAGSCOT

REGO. APPROVAL BY:

RAYNA DO G. JANCIO

APPROVED BY:

SAVADOR REYES



| SUELLO ROAD | | |
|-------------|--------|---------------------------|
| STATION | LENGTH | DESCRIPTION |
| 11-12 | 108m | CURB & GUTTER |
| 12-13 | 8m | DIRT ROAD |
| 13-14 | 91m | CURB & GUTTER |
| 14-15 | 12m | DIRT ROAD |
| 15-16 | 623m | CURB & GUTTER |
| 16-17 | 16m | SINGLE CUT, CONCRETE ROAD |

PROPOSED PIPELINE SET-UP

PREPARED BY:

REVIEWED BY

APPROVED BY:

PROJECT TITLE AND LOCATION/S

SHEET CONTENT/3

SHEET NO.:

RALPH RENEE B. MANZANO

10

RECO. APPROVAL BY: VV/VIV

BY: V. M. IV

SALVADOR M. ROYECAP

GENERAL MANAGER

PROPOSED INSTALLATION OF 8"Ø X 2730LM HDPE
MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD
VIA SUELLO ROAD

PROPOSED PIPELINE SET-UP

4

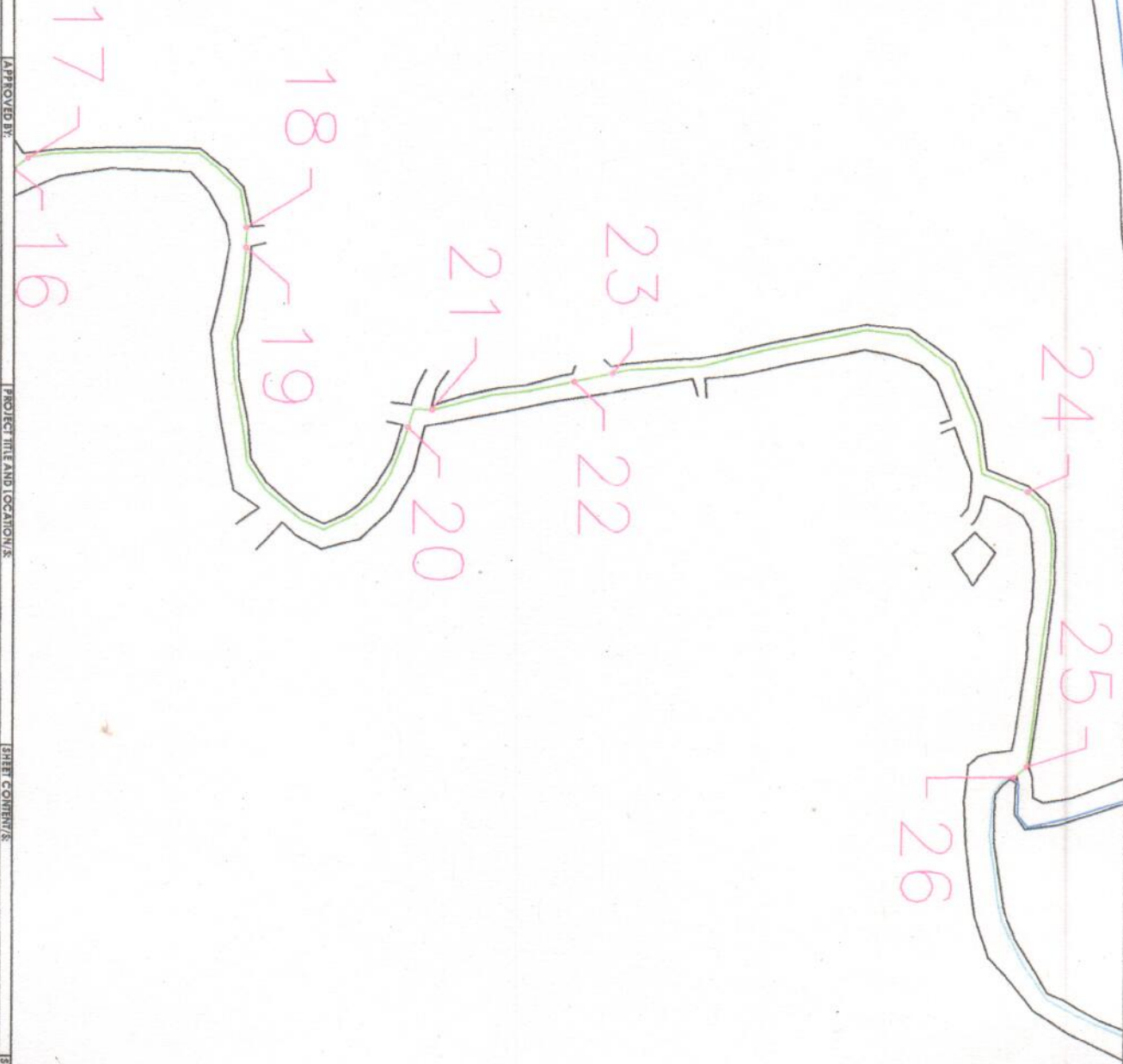
11

| SUELLO ROAD | | |
|-------------|--------|-----------------------------|
| STATION | LENGTH | DESCRIPTION |
| 17-18 | 158m | CURB & GUTTER |
| 18-19 | 9m | SINGLE CUT, CONCRETE ROAD |
| 19-20 | 282m | CURB & GUTTER |
| 20-21 | 23m | SINGLE CUT, CONCRETE ROAD |
| 21-22 | 83m | CURB & GUTTER |
| 22-23 | 8m | SINGLE CUT, CONCRETE ROAD |
| 23-24 | 328m | CURB & GUTTER |
| 24-25 | 163m | SINGLE CUT, CONCRETE ROAD |
| 25-26 | 10m | DOUBLE CUT, ACROSS CONCRETE |
| TOTAL | 2730m | |

PROPOSED PIPELINE SET-UP

SCALE

NT



PREPARED BY: RALPH RENCADO MANZANO
ENGINEER IN CHARGE

CHECKED BY: JAMES A. BALDADO
OFFICIAL ENGINEER

REVIEWED BY: ROBERTO S. DELA CRUZ
RECO. APPROVAL BY: REYNALDO C. JAVICO
OFFICIAL ENGINEER

APPROVED BY: SALVADOR M. ROYCA
GENERAL MANAGER

PROJECT TITLE AND LOCATION/S: PROPOSED INSTALLATION OF 8"Ø X 2730MM HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD

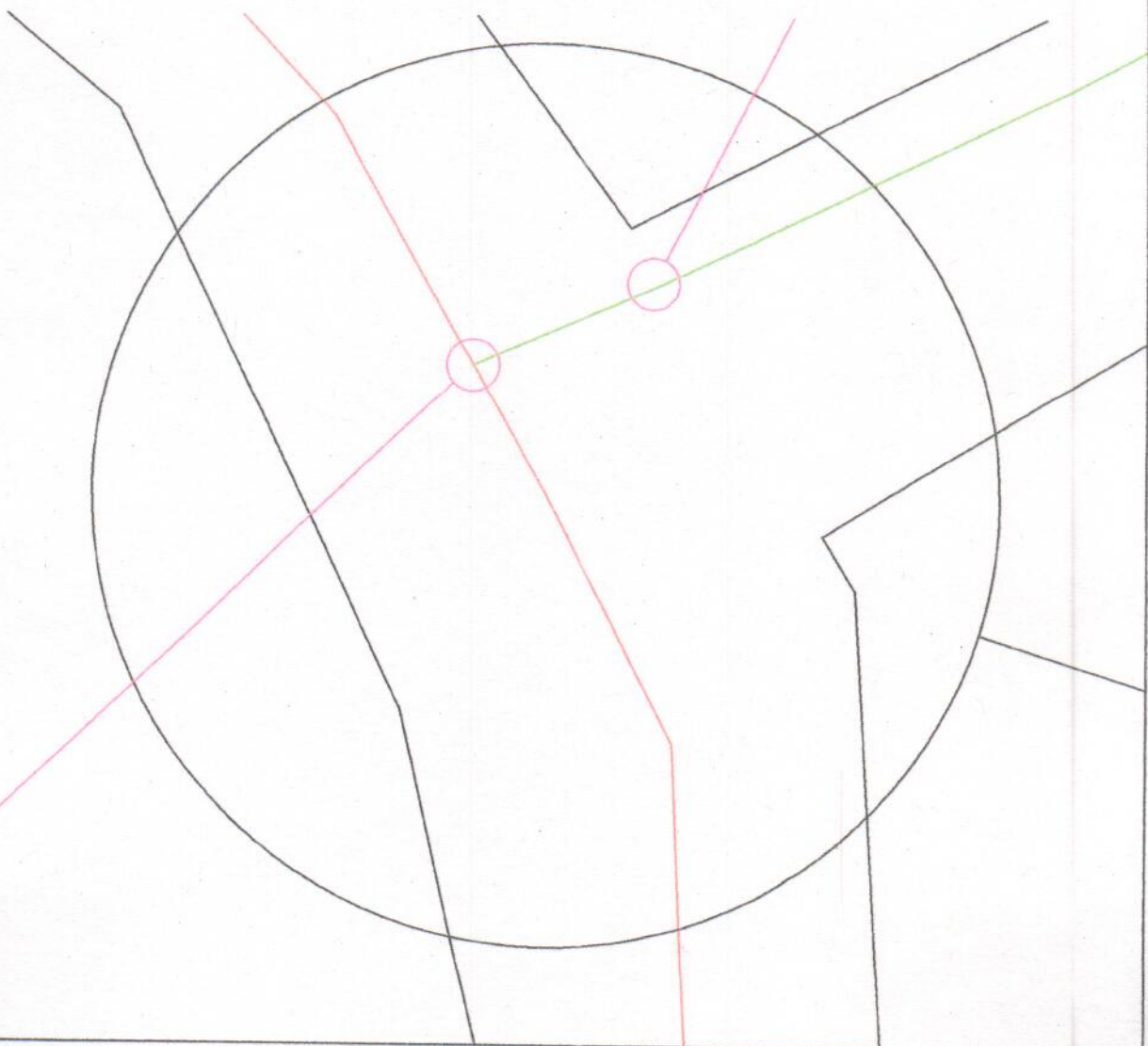
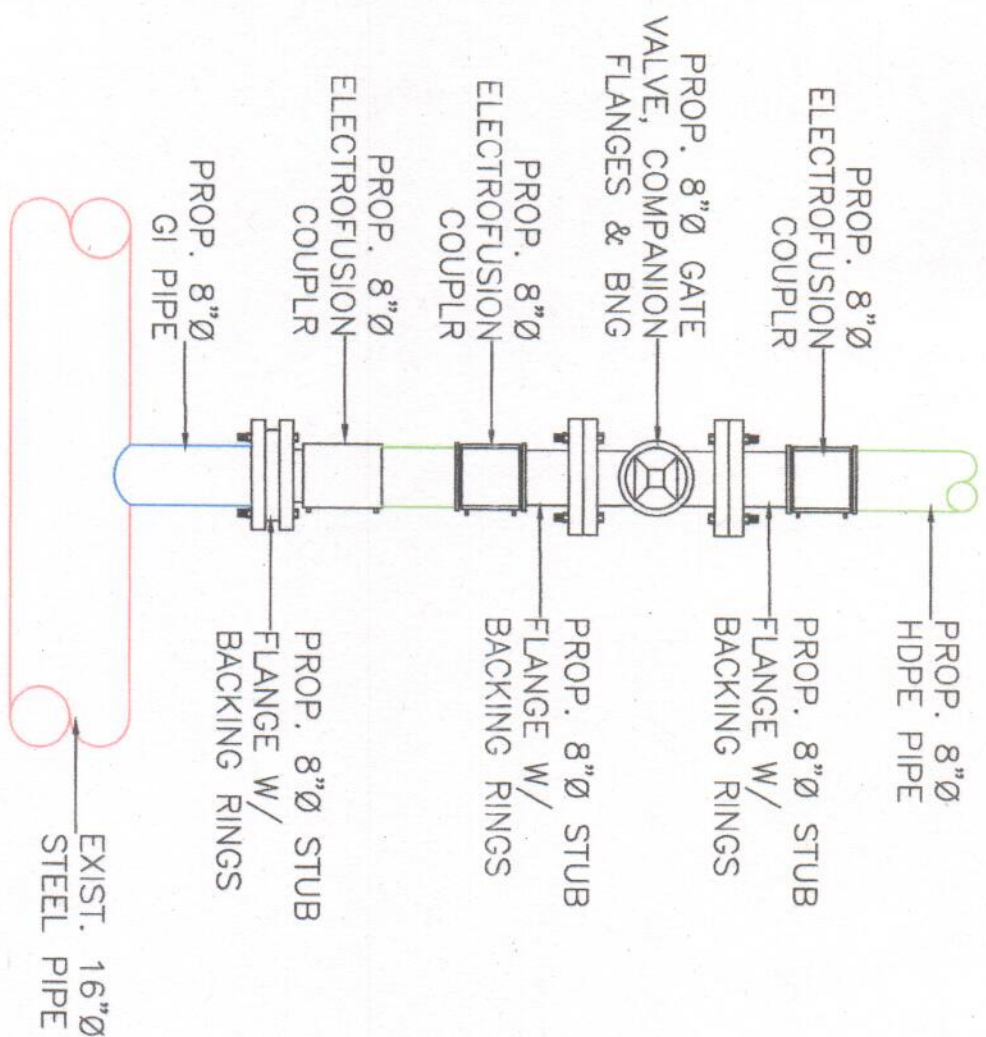
SHEET CONTENT/S:

SHEET NO.:

5

11

PROPOSED TIE-IN DETAIL AT PT. 1



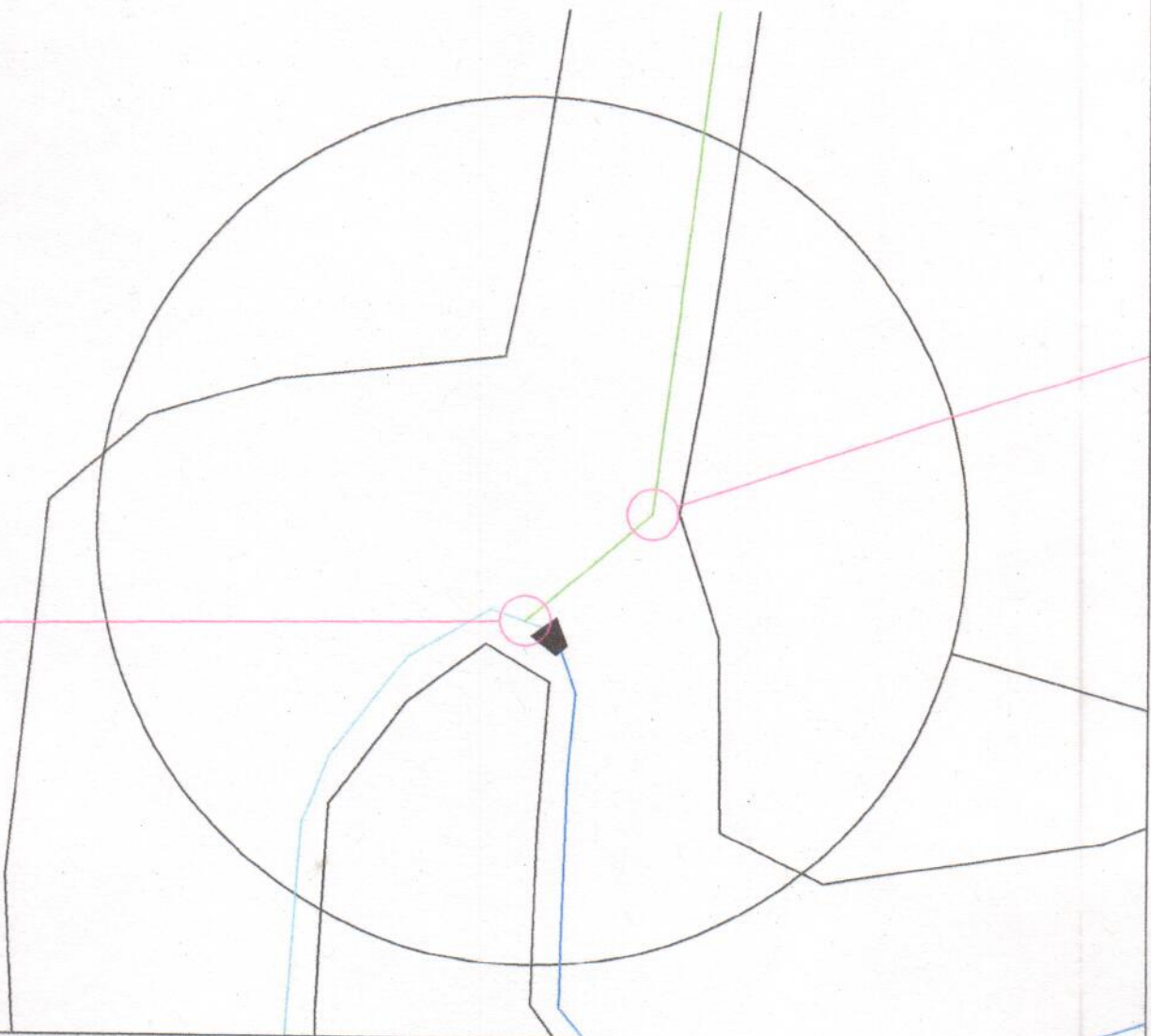
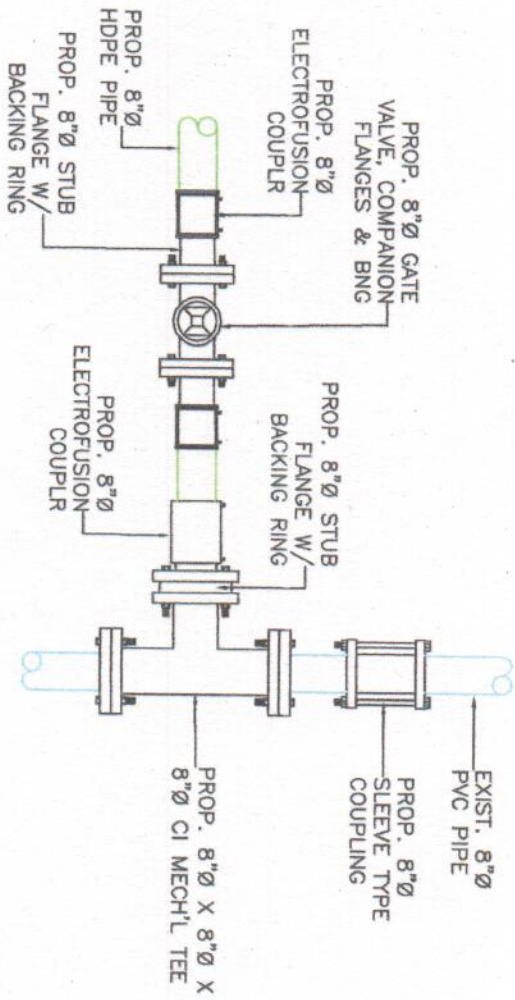
SHEET NO.

ED BY: 
SALVADOR M. ROYECA
GENERAL MANAGER

PROPOSED INSTALLATION OF 8"Ø X 2730LM HDPE
MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD
VIA SUELLO ROAD

9

11

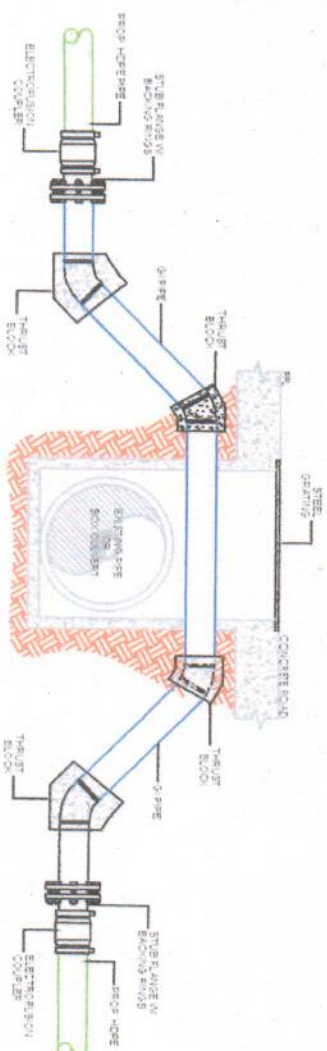


PROPOSED INTERCONNECTION DETAIL AT PT. 26

1/24/18

| | | | | | | | | | | | | | | | |
|--|--|--|--|---|--|--|--|--|--|--|--|---------------------------------|--|----|--|
|  | | PREPARED BY:  | | REVIEWED BY:  | | APPROVED BY:  | | PROJECT TITLE AND LOCATION/S | | SHEET CONTENT/S | | SHEET NO. | | | |
| CHECKED BY:  | | RALPH RENE D. MANZANO PROJECT ENGINEER | | RCO. APPROVAL:  | | NORBERTO D. SANTOS PROJECT ENGINEER | | SALVADORAN R. ROECA GENERAL MANAGER | | PROPOSED INSTALLATION OF 8"Ø X 273CLM HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD | | PROPOSED INTERCONNECTION DETAIL | | 7 | |
| | | | | | | | | | | | | | | 11 | |

- 1 - COMPACTED SELECTED NATIVE MATERIAL BACKFILL
2 - APPROVED SAND BEDDING AND FILLING.



STANDARD TRENCH DETAILS

504

9075

1. WHENEVER A PROPOSED PIPE ENCOUNTERS AN OBSTRUCTING CULVERT/SEWER LINE, SUCH PIPE SHALL BE DEFLECTED ABOVE THE CULVERT WITH AT LEAST 0.075M CLEARANCE FROM THE BASE OF THE CONCRETE PAVEMENT.
2. WHENEVER A PROPOSED PIPE IS ADJACENT TO AN EXISTING CULVERT/SEWER LINE, A MINIMUM SPACING OF 0.50M SHALL BE OBSERVED. PIPE JOINTS SHALL BE GROUTED TO PREVENT POSSIBLE INTRUSION OF WASTE WATER.
3. STEEL/CI PIPES SHALL BE PAINTED WITH RED OXIDE PRIMER AND FINISHED WITH AZURE BLUE PAINT

TABLE OF TRENCH DIMENSION IN METERS

| TABLE OF TRENCH DIMENSION IN METERS | | | |
|-------------------------------------|--------------------------|----------------------|----------------------|
| PIPE SIZE, mm (in) | TRENCH DEPTH, m (Z+Y) | MIN. WIDTH, m (X) | MAX. WIDTH, m (X) |
| 13-75 (½ - 3) | 0.85 | 0.35 | 0.65 |
| 100 (4) | 1.00 | 0.40 | 0.70 |
| 150 (6) | 1.05 | 0.45 | 0.75 |
| 200 (8) | 1.10 | 0.50 | 0.80 |
| 250 (10) | 1.15 | 0.55 | 0.85 |
| 300 (12) | 1.35 | 0.60 | 0.90 |
| 350 (14) | 1.40 | 0.65 | 0.95 |
| 400 (16) | 1.45 | 0.70 | 1.00 |
| 450 (18) | 1.50 | 0.75 | 1.05 |

1. ALL DIMENSIONS ARE IN METERS EXCEPT OTHERWISE SHOWN.
2. FOR TWO OR MORE PARALLEL PIPES, PROVIDE 0.15m. CLEAR SPACING. DISTANCE "L" BETWEEN THE SIDE OF TRENCH AND ADJACENT PIPES MUST BE WITHIN THE RANGE OF 0.15m (Min.) and 0.30m (Max.).
3. STANDARD THICKNESS OF CONCRETE (Z) FOR NATIONAL/CITY ROAD AND BARANGAY ROAD SHALL BE 0.30m AND 0.25m, RESPECTIVELY.
4. ONE (1) SQ. M. TRENCH EXCAVATIONS SHALL BE RESTORED WITH 16mmØ DOWEL BARS.

PREPARED BY:

~~RALPH RENÉE D. MANZANO~~

CHECKED BY:

~~JAFEL J. BALANGCOPD~~

REVIEWED BY

NOREL CALPICO

RECO. APPROVAL

REYNALDO d. JAYCO

APPROVED BY:

Dr.

1

GENERAL MANAGER

PROJECT TITLE AND LOCATION/5

PROPOSED INSTALLATION OF 8"Ø X 2730LM HDPE
MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD
VIA SUELLO ROAD

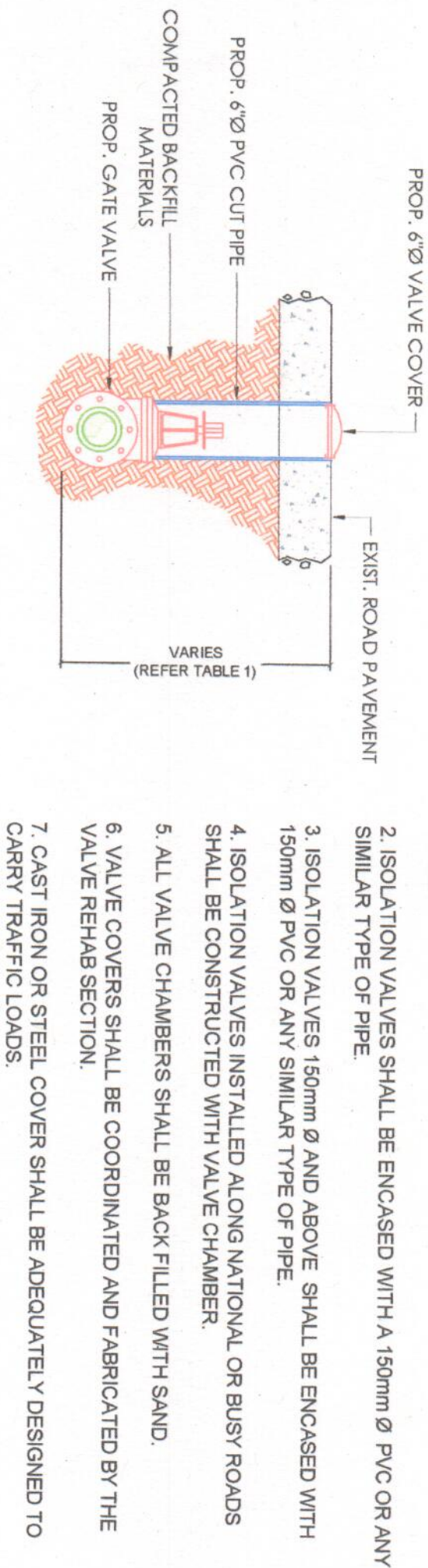
SHEET CONTENT/Σ:

STANDARD TRENCH DETAIL

SHEET NO.:

88

11



NOTE:

1. ISOLATION VALVES SHALL BE INSTALLED WITH A VALVE BOX AND COVER.
2. ISOLATION VALVES SHALL BE ENCASED WITH A 150mm Ø PVC OR ANY SIMILAR TYPE OF PIPE.
3. ISOLATION VALVES 150mm Ø AND ABOVE SHALL BE ENCASED WITH 150mm Ø PVC OR ANY SIMILAR TYPE OF PIPE.
4. ISOLATION VALVES INSTALLED ALONG NATIONAL OR BUSY ROADS SHALL BE CONSTRUCTED WITH VALVE CHAMBER.
5. ALL VALVE CHAMBERS SHALL BE BACK FILLED WITH SAND.
6. VALVE COVERS SHALL BE COORDINATED AND FABRICATED BY THE VALVE REHAB SECTION.
7. CAST IRON OR STEEL COVER SHALL BE ADEQUATELY DESIGNED TO CARRY TRAFFIC LOADS.

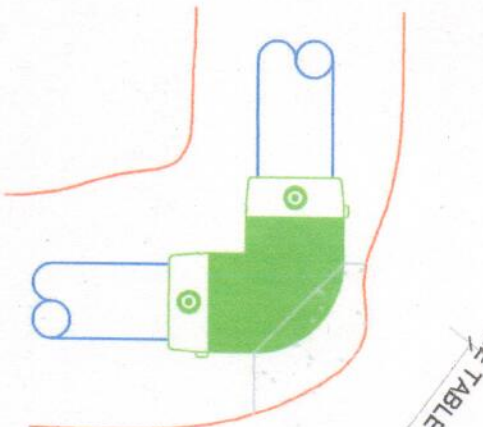
STANDARD VALVE CHAMBER DETAILS

SCALE

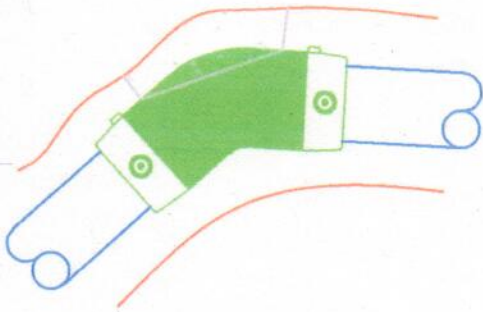
1/2"

| | | | | | | |
|--|---|---|--|---|--|-----------------------|
|  | PREPARED BY: RALPH REDE B. MANZANO ENGINEER | REVIEWED BY: NORIEA B. BAYAN ENGINEER | APPROVED BY: SALVADOR A. FLORECA GENERAL MANAGER | PROJECT TITLE AND LOCATION: PROPOSED INSTALLATION OF 8"Ø X 2730LM-HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD | SHEET CONTENTS: STANDARD VALVE CHAMBER DETAIL | SHEET NO.: 9 11 |
|--|---|---|--|---|--|-----------------------|

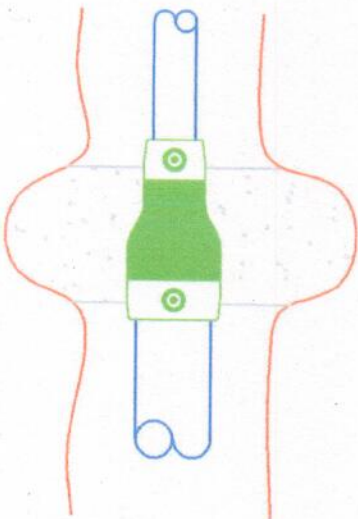
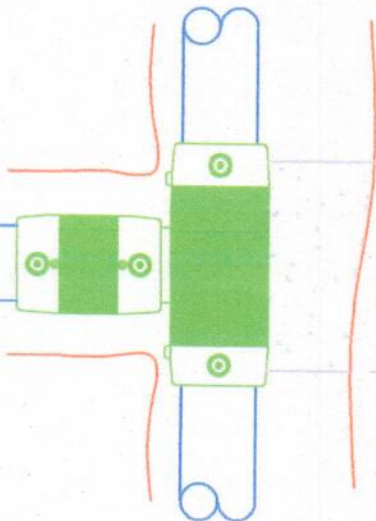
SEE TABLE FOR AREA



SEE TABLE FOR AREA



SEE TABLE FOR AREA



| TABLE OF MINIMUM THRUST BLOCK BEARING AREA IN SQUARE METRES FOR PIPE SIZES 75mm TO 300mm Ø | | | | | |
|--|------------------|----------|----------|--------------|-----------|
| PIPE SIZE, mm (in) | TEE AND DEAD END | 90° BEND | 45° BEND | 22 1/2° BEND | 180° BEND |
| 75 (3) | 0.05 | 0.07 | 0.04 | 0.02 | 0.02 |
| 100 (4) | 0.09 | 0.12 | 0.07 | 0.04 | 0.04 |
| 150 (6) | 0.20 | 0.28 | 0.15 | 0.08 | 0.08 |
| 200 (8) | 0.35 | 0.50 | 0.27 | 0.14 | 0.14 |
| 250 (10) | 0.55 | 0.77 | 0.42 | 0.21 | 0.21 |
| 300 (12) | 0.79 | 1.11 | 0.60 | 0.31 | 0.31 |

NOTES:

1. ABOVE AREAS ON AN ASSUMED SOIL BEARING PRESSURE OF 96KPA (2000psi).
2. REDUCE OR INCREASE AREA PROPORTIONALLY TO SUIT ACTUAL FIELD CONDITION UPON APPROVAL OF FIELD ENGINEER.
3. CONCRETE FOR THRUST BLOCK SHALL BE 13.8MPa (2000 psi).
4. ALL CONCRETE SHALL BE POURED TO AVOID INTERFERENCE WITH JOINTS.
5. THRUST BLOCKS NOT REQUIRED ON STEEL PIPELINE WITH WELDED OR FLANGED JOINTS OR ON SOLVENT WELDED PVC PIPE.
6. WHERE PIPE CONNECTS TO A FITTING IN A STEEL PIPELINE, THE STEEL PIPELINE SHALL BE BLOCKED AS SHOWN HEREON.
7. BEARING AREAS BASED ON INTERNAL PRESSURE OF 106m (150psi).

STANDARD THRUST BLOCK DETAILS



PREPARED BY:

REVIEWED BY:

APPROVED BY:

PROJECT TITLE AND LOCATION:

SHEET CONTAINS:

SHEET NO.:

RALPH REMPE DOMANZANO

NORIEL B. GILGIL

SALVADOR M. ROMERO

CHECKED BY:

RECO. APPROVAL BY:

PROPOSED INSTALLATION OF 8"Ø X 27.3UM HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD

STANDARD THRUST BLOCK DETAILS

10



JANET BALINGGOD

REYNALDO C. JAYCO

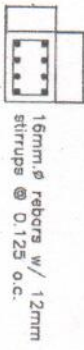
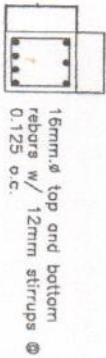
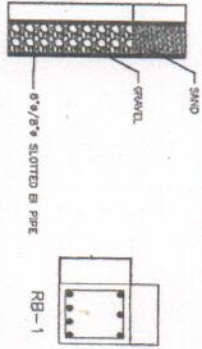
GENERAL MANAGER

PROJECT TITLE AND LOCATION:

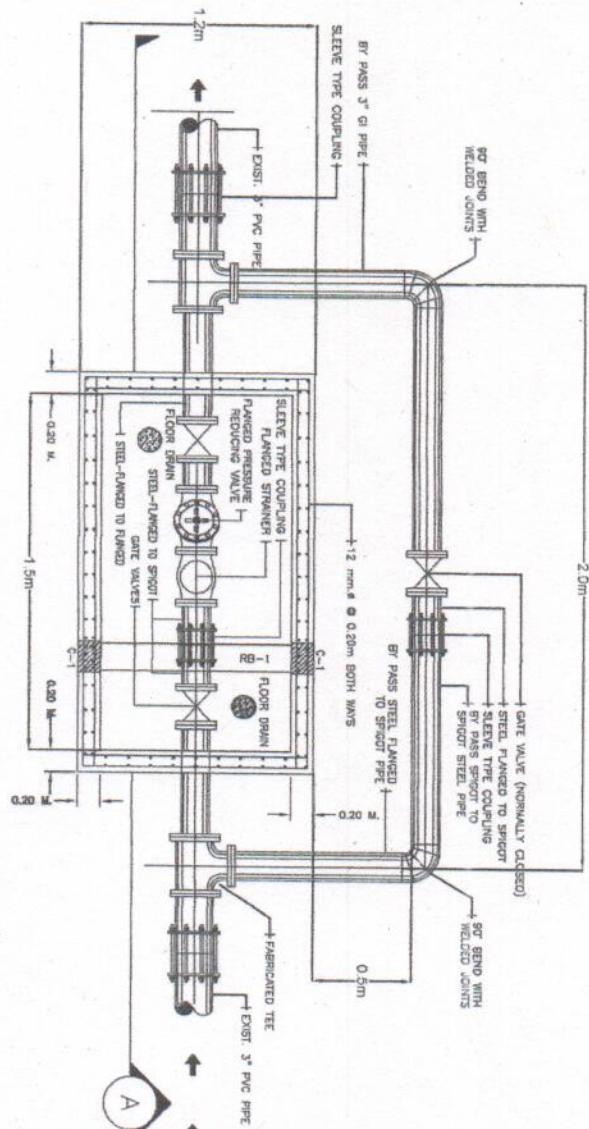
STANDARD THRUST BLOCK DETAILS

11

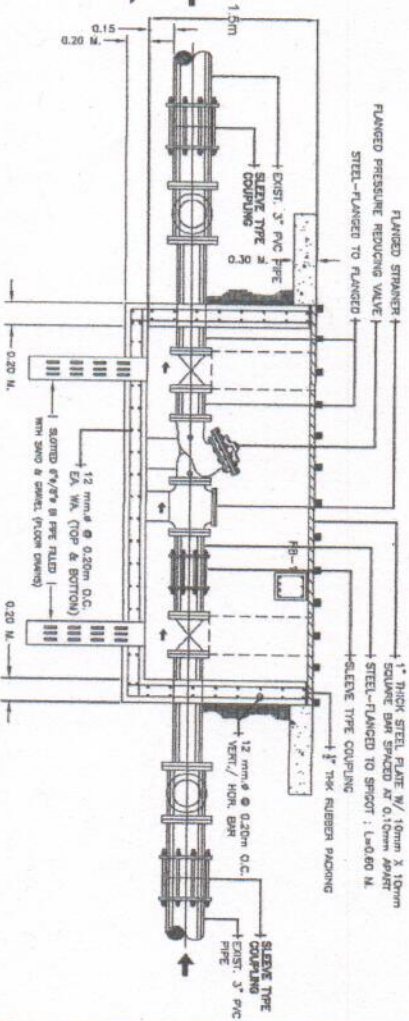
| PIPE SIZES | A | B | C | D | E | REC'D PRV D, mm. |
|------------|------|------|------|------|------|---------------------|
| 50 | 1.50 | 1.20 | 2.00 | 0.50 | 1.50 | 50 |
| 75 | 1.50 | 1.20 | 2.00 | 0.50 | 1.50 | 75/50 |
| 100 | 1.50 | 1.20 | 2.50 | 0.50 | 1.50 | 75/50 |
| 150 | 1.50 | 1.20 | 2.50 | 0.50 | 1.50 | 100 |
| 200 | 2.00 | 1.60 | 3.20 | 0.50 | 1.50 | 150 |
| 250 | 2.50 | 1.60 | 4.20 | 0.50 | 1.50 | 200 |



NOTE:
THE LOCATION OF THE DRAINS TO BE INSTALLED
MAY VARY DEPENDING ON THE TERRAIN / ELEVATION
OF THE FLOOR SLAB



PLAN



SECTION "A-A"

STANDARD PRESSURE RELIEF VALVE DETAILS



PREPARED BY:

REVIEWED BY:

APPROVED BY:

PROJECT TITLE AND LOCATION/S

SHEET CONTENTS

SHEET NO.

RALPH REINO D. MANZANO

REVIEWED BY: RICO APPROVAL BY: RENE D. O. C. JAYCO

APPROVED BY: SALVADOR MANZANO

PROPOSED INSTALLATION OF 8"Ø X 2750MMHPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELO ROAD

STANDARD PRESSURE RELIEF VALVE DETAIL

11



CHECKED BY: JANEL A. BALANCO


REVIEWED BY: RICO APPROVAL BY: RENE D. O. C. JAYCO

APPROVED BY: SALVADOR MANZANO

PROPOSED INSTALLATION OF 8"Ø X 2750MMHPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELO ROAD

STANDARD PRESSURE RELIEF VALVE DETAIL

11

| | | | |
|---|------------------------------|------------------|---------------|
|  | BAGUIO WATER DISTRICT | Document Code | JOB ORDER |
| | JOB ORDER REQUEST | Document No. | P&C, JOR, F09 |
| | | Effectivity Date | March 2020 |
| | | Revision No. | 0 |




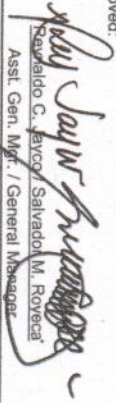
Date: March 1, 2023

JO No.: **052**


☐ Internal Repair

☒ Outside Repair

Note: Outside repair/s shall be approved by the GM while Internal repair/s shall be approved by the concerned AGMs.

| Description | Works/Repairs to be Done (Please specify and give complete details of works to be done) | ABC/Estimated Cost of Repair |
|---|---|--|
| 1 lot | PIPELAYING WORKS FOR THE PROPOSED INSTALLATION OF 8"Ø X 2,730M HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD PROJECT Scope of Work: - Supply and installation of materials, labor, & equipment for the complete installation of 8"Ø (225mm) x 2,730m HDPE pipeline through electrofusion method (refer to attached Terms of Reference (TOR) and drawing plans for details). Duration: 98 Working Days | ABC = P 31,709,572.67 |
| Purpose/Usage: PROPOSED INSTALLATION OF 8"Ø X 2,730M HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD (PIPELAYING WORKS) | | |
| Included in the Budget under Acct. Name: CAPEX- Public Infrastructures/Improvements | | Requested by:  Supervisor |
| Annual Budget: | Php52,839,000.00 | |
| Less to Date: | () | |
| Less on-going repairs but not yet Received | () | Recommending Approval:  Daniel C. Calpito Division Manager |
| Less This JO: | () | |
| Budget balance After This JO: | Php52,839,000.00 | |
| Prepared by:  Janet J. Balinagood Requesting Unit - End-user | Approved:  Salvador C. Javco / Salvador M. Rovica Asst. Gen. Mgr. / General Manager | |

Note: This form must be accomplished in 2 copies
Forward approved form to Purchasing Section

| | | | |
|---|------------------------------|------------------|---------------|
|  | BAGUIO WATER DISTRICT | Document Code | JOB ORDER |
| | JOB ORDER REQUEST | Document No. | P&C, JOR, F09 |
| | | Effectivity Date | March 2020 |
| | | Revision No. | 0 |




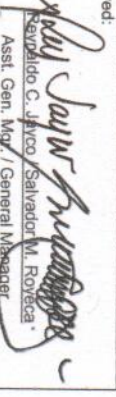
Date: March 1, 2023

JO No.: **052**

☐ Internal Repair

☒ Outside Repair

Note: Outside repair/s shall be approved by the GM while Internal repair/s shall be approved by the concerned AGMs.

| Description | Works/Repairs to be Done (Please specify and give complete details of works to be done) | ABC/Estimated Cost of Repair |
|---|---|---|
| 1 lot | PIPELAYING WORKS FOR THE PROPOSED INSTALLATION OF 8"Ø X 2,730M HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD PROJECT Scope of Work: - Supply and installation of materials, labor, & equipment for the complete installation of 8"Ø (225mm) x 2,730m HDPE pipeline through electrofusion method (refer to attached Terms of Reference (TOR) and drawing plans for details). Duration: 98 Working Days | ABC = P 31,709,572.67 |
| Purpose/Usage: PROPOSED INSTALLATION OF 8"Ø X 2,730M HDPE MAINLINE FROM MARCOS HIGHWAY TO ASIN ROAD VIA SUELLO ROAD (PIPELAYING WORKS) | | |
| Included in the Budget under Acct. Name: CAPEX- Public Infrastructures/Improvements | | Requested by:  Supervisor |
| Annual Budget: | Php52,839,000.00 | |
| Less to Date: | () | |
| Less on-going repairs but not yet Received | () | Recommending Approval:  Daniel C. Calpito Division Manager |
| Less This JO: | () | |
| Budget balance After This JO: | Php52,839,000.00 | |
| Prepared by:  Janet J. Balinagood Requesting Unit - End-user | Approved:  Salvador C. Javco / Salvador M. Rovica Asst. Gen. Mgr. / General Manager | |

Note: This form must be accomplished in 2 copies
Forward approved form to Purchasing Section