



**PHILIPPINE ECONOMIC ZONE AUTHORITY –  
BAGUIO CITY ECONOMIC ZONE**

# **Installation of Wet Stand Pipe for SFB- 1 and SFB-2**

**November 2021**

# 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***

## **Philippine Economic Zone Authority – Baguio City Economic Zone**

### **Invitation to Bid for *Installation of Wet Stand Pipe for SFB-1 and SFB-2***

1. The **Philippine Economic Zone Authority – Baguio City Economic Zone**, through the **2021 Corporate Budget** intends to apply the sum of ***One Million Four Hundred Eighty-Nine Thousand Thirty-One pesos and Thirty-Three Centavos Only (Php 1,489,031.33)*** being the Approved Budget for the Contract (ABC) to payments under the contract for *PR21-11-090*. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **Philippine Economic Zone Authority – Baguio City Economic Zone** now invites bids for the above Procurement Project. Completion of the Works is required ***within Seventy-Five Calendar (75) days***.
3. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. INSTRUCTIONS TO BIDDERS. Bidders should have completed similar contracts amounting to at least fifty percent (50%) of ABC of the specified lot/s to be bid.
4. 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.
5. Interested bidders may obtain further information from **Philippine Economic Zone Authority – Baguio City Economic Zone** and inspect the Bidding Documents at the address given below from 8am to 5 pm, Mondays to Fridays.
6. A complete set of Bidding Documents may be acquired by interested bidders on *November 25, 2021* 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 Two Thousand Pesos Only (Php 2,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees *in person, by facsimile, or through electronic means*.
7. **Philippine Economic Zone Authority – Baguio City Economic Zone** will hold a Pre-Bid Conference on *December 3, 2021 2 pm* at the *3F Conference Room, BCEZ Admin Building*, which shall be open to prospective bidders.
8. Bids must be duly received by the BAC Secretariat through manual submission at the office address as indicated below on or before *December 15, 2021, 1 pm*. Late bids shall not be accepted.

9. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 16.
10. Bid opening shall be on *December 15, 2021 1:30 pm* at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
11. The **Philippine Economic Zone Authority – Baguio City Economic Zone** 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:  
  
**Engr. JC King B. Manansala**  
*Engineering and Maintenance Division*  
*Baguio City Economic Zone*  
*447-4155*
13. You may visit the following websites:

For downloading of Bidding Documents:  
<http://www.peza.gov.ph/index.php/bid-opportunities>

**November 25, 2021**

  
**PAUL M. CODAMON**  
*BAC Chairperson*

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

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

The Procuring Entity, *Philippine Economic Zone Authority – Baguio City Economic Zone*, Invites Bids for the **Installation of Wet Stand Pipe for SFB-1 and SFB-2**, with Project Identification Number PR21-11-090.

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 2021 in the amount of **One Million Four Hundred Eighty-Nine Thousand Thirty-One pesos and Thirty-Three Centavos Only (Php 1,489,031.33)**.

**2.2.** The source of funding is:

GOCC and GFIs, the Corporate Operating Budget.

### **3. Bidding Requirements**

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

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

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

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

The Procuring Entity, as well as the Bidders and Contractors, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and

obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

## **5. Eligible Bidders**

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

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

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

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

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

## **7. Subcontracts**

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

The Procuring Entity has prescribed that: Subcontracting is not allowed.

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

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address *3F Conference Room, BCEZ Admin Building* 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 PCAB License is required, and in case of joint ventures, a valid special PCAB License, and registration for the type and cost of the contract for this Project. Any additional type of Contractor license or permit shall be indicated in the **BDS**.
- 10.4. A List of Contractor's key personnel (e.g., Project Manager, Project Engineers, Materials Engineers, and Foremen) assigned to the contract to be bid, with their complete qualification and experience data shall be provided. These key personnel must meet the required minimum years of experience set in the **BDS**.
- 10.5. A List of Contractor's major equipment units, which are owned, leased, and/or under purchase agreements, supported by proof of ownership, certification of availability of equipment from the equipment lessor/vendor for the duration of the project, as the case may be, must meet the minimum requirements for the contract set in the **BDS**.

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

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

## **12. Alternative Bids**

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

### **13. Bid Prices**

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

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

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

*a. Payment of the contract price shall be made in: 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 *March 15, 2022*. 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 15 shall be submitted for each contract (lot) separately.

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

## **20. Post Qualification**

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

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

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

## *Section III. Bid Data Sheet*

### **Bid Data Sheet**

ITB Clause													
5.2	For this purpose, contracts similar to the Project refer to contracts which have the same major categories of work, which shall be: <i>Water Piping and Fire Protection Works</i>  Bidders with completed and/or on-going construction projects close to the nature of the project to be bid will have an advantage.												
7.1	Subcontracting is not allowed												
10.3	Current and Valid PCAB License and registration: Size Range: <b><u>Small B</u></b> License Category: <b><u>C and D</u></b> Allowable Range of Contract <b><u>Cost: up to 30M</u></b>												
10.4	The key personnel must meet the required minimum years of experience set below:												
	<table><tr><th><u>Key Personnel</u></th><th><u>Qualification and Experience</u></th></tr><tr><td></td><td></td></tr><tr><td>Project Engineer</td><td><ul style="list-style-type: none"><li>• Shall be a Registered Civil Engineer;</li><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul></td></tr><tr><td>Materials Engineer</td><td><ul style="list-style-type: none"><li>• Shall be a Registered Civil Engineer;</li><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul></td></tr><tr><td>Lead Person (formerly/also known as “Foreman”)</td><td><ul style="list-style-type: none"><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul></td></tr><tr><td></td><td></td></tr></table>	<u>Key Personnel</u>	<u>Qualification and Experience</u>			Project Engineer	<ul style="list-style-type: none"><li>• Shall be a Registered Civil Engineer;</li><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul>	Materials Engineer	<ul style="list-style-type: none"><li>• Shall be a Registered Civil Engineer;</li><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul>	Lead Person (formerly/also known as “Foreman”)	<ul style="list-style-type: none"><li>• Shall have least three (3) years of experience in the construction industry;</li><li>• With a background on similar projects; and</li><li>• <b>Shall render full time services as-required for this Project.</b></li></ul>		
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	Safety Officer (SO)	<ul style="list-style-type: none"> <li>• Certified by an accredited safety organization in Construction Occupational Safety and Health as prescribed by Department of Labor and Employment (DOLE)</li> <li>• Must have at least three (3) years' experience as a Safety Officer in the construction industry.</li> <li>• <b>Shall render full time services as-required for this Project.</b></li> </ul>																														
	First Aider	<ul style="list-style-type: none"> <li>• With certificate of Training issued by RED CROSS in compliance to DOLE requirements for the approval of Construction Safety &amp; Health Program (Required Upon issuance of Notice of Award) subject to D.O 98 Series of 2014: Submission of Construction Safety and Health Program Approved by the Department of Labor and Employment (DOLE).</li> <li>• <b>Shall render full time services as-required for this Project.</b></li> </ul>																														
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11.1	<p>Bidders shall submit the following documents using the prescribed forms:</p> <p>(a) Financial Bid Form as prescribed in ITB Clause 11.</p> <ul style="list-style-type: none"><li>• Bidders shall accomplish the prescribed “FINANCIAL BID FORM to be marked as “F01”</li></ul> <p>(b) Duly signed Bill of Quantities (BOQ).</p> <ul style="list-style-type: none"><li>• Print in size-A3 paper (11.7 inches x 16.5 inches);</li><li>• Every page must be signed by the Bidder’s duly authorized representative and should be submitted as part of the financial bid documents to be marked as “F02”;</li></ul> <p>(c) Detailed Unit Price Analysis (DUPA): 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.</p> <ul style="list-style-type: none"><li>• Print in size-A4 paper (8.27" x 11.35");</li><li>• Every page must be signed by the Bidder’s duly authorized representative and should be submitted as part of the financial bid documents to be marked as “F03”;</li></ul> <p>The first Progress Payment shall be paid only upon completion of at least 20% of the work and certified by the Procuring Entity’s Representative.</p> <ul style="list-style-type: none"><li>• Should be accomplished using the bidder’s letterhead;</li><li>• Signed copy should be submitted as part of the Financial Bid Documents to be marked as “F04”;</li></ul> <p><b><u>REMINDERS:</u></b></p> <ul style="list-style-type: none"><li>• Bids not addressing or providing all of the required items in the bidding document including, where applicable, BOQ shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a “0” (zero) or “-“ (dash) for the said item would mean that it is being offered for free to the Government [Sec. 32.2.1(a) of the 2016 Revised IRR of RA 9184];</li><li>• Item/s not indicated in the BOQ, but determined to be deemed important, should be indicated under “Other Items”;</li></ul> <p>and BOQ and DUPA must be compliant to pertinent and relevant provisions of DPWH’s Department Order No.197 series of 2016 dated 07October2016.</p>									
12	<i>Not applicable.</i>									

15.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ul style="list-style-type: none"> <li>a. The amount of not less than <b>₱29,780.63</b>, [the amount equivalent to two percent (2%) of ABC] if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</li> <li>a. The amount of not less than <b>₱74,451.57</b> [the amount equivalent to five percent (5%) of ABC] if bid security is in Surety Bond.</li> </ul>
19.2	Partial Bids not allowed.
20	<i>No further instructions</i>
21	<p>Additional contract documents relevant to the Project that may be required by existing laws and/or the Procuring Entity, such as:</p> <ul style="list-style-type: none"> <li>1. Duly signed Construction Schedule and S-curve;</li> <li>2. Duly signed Manpower Schedule;</li> <li>3. Duly signed Construction Methodology in narrative form;</li> <li>4. Duly signed Equipment Utilization Schedule;</li> <li>5. Duly signed Organizational Chart for the Project; and</li> <li>6. Construction Safety and Health Program approved by the DOLE, and other acceptable tools of project scheduling.</li> </ul>

## ***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*

GCC Clause	
2	Completion Period: The project shall be completed within <b>Seventy-Five (75) calendar days</b> from receipt of the Notice to Proceed to be issued by PEZA.
4.1	Upon receipt of the Notice to Proceed, the Contractors Representative shall immediately coordinate with the PEZA-BCEZ Engineering and Maintenance Division for instruction/briefing prior to implementation.
6	<i>Conduct of Site Inspection shall be coordinated with Engr. JC King B. Manansala.</i>
7.2	<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:] <b>Five (5) years..</b></i>
10	Not Applicable
11.1	<p>The Contractor shall submit the Program of Work to the Procuring Entity's Representative within <b>five (5) days</b> of receipt of the Notice of Award.</p> <p>The Construction Safety and Health Program (CSHP) approved by the DOLE shall also be submitted within the aforementioned period.</p>
11.2	The amount to be withheld for late submission of an updated Program of Work <b>is one percent (1%) of the progress billing.</b>
13	Upon written request of the contractor, and subject to the requirements in Annex "E" of the 2016 revised IRR of RA No. 9184, advance payment in amount not exceeding fifteen percent (15%) of the total contract price shall be made in one (1) lump sum payment.
14	Materials and equipment delivered on the site but not completely put in place <b>shall not</b> be included for payment.
15.1	<p>The following documents shall be submitted by the Contractor and it shall include the submission of complete and final "As-Built Drawings":</p> <ol style="list-style-type: none"> <li>1. One (1) set of original copy in 30" x 40" sheets (drawn on a <b>mylar sheets</b>) signed and sealed by appropriate professional architects and engineers;</li> <li>2. One (1) set of blue print copies in 30" x 40" sheets signed and sealed by appropriate professional architects and engineers;</li> <li>3. Complete set of electronic files in USB Thumb Drive of "AS-BUILT PLANS" in PDF and CAD format;</li> <li>4. Complete set of electronic and printed copies of colored photos in <i>jpeg-format</i> <b>with date and time</b> stamp demonstrating <b>before, during, and after</b> construction works</li> <li>5. Warranty Certificate of at least five (5) years against poor workmanship and one (1) year against defects traceable to materials. Refer to SCC Clause 12.5 for Warranty against Structural Defects/Failures, when applicable.</li> </ol>



	The period, by which above-cited documents are required to be submitted, shall be <b>within ten (10) calendar days prior to the issuance of Certificate of Completion.</b>
15.2	Release of Final Payment shall be made only upon the submission of the “As-Built Drawings” by the Contractor and issuance of Certificate of Completion as recommended by PEZA-BCEZ’s authorized representative/s or End User of the project and subject to the approval of the signatory of the Contract or the Head of the Procuring Entity.

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

Unless otherwise specified herein, the specification to be used in this project will be the latest and current DPWH Standards Specifications for Public Works and Highways (**"Blue Book"**).

In particular, Volume II of the Blue Book shall be used if the Contract pertains to Highways, Bridges and Airports. Volume III of the Blue Book shall be used if the Contract pertains to Buildings, Flood Control and Drainage, or Water Supply. The Blue Book incorporates standards of the American Association of State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), and American Concrete Institute (ACI), among others, pertaining to construction.

Other Specification for Specific Items:

### **ITEM B.3. – GRAVEL BEDDING (G-1)**

This item shall consist of the construction of gravel bedding in accordance with this Specification and in conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

Material to be used in this construction should be Gravel size **G-1"**.

The Contractor shall compact the material placed in all gravel bed and the material scarified to the designated depth.

Payment will be made in accordance with the Bill of Quantities

### **ITEM C.3. – ITEM C.5. STRUCTURAL CONCRETE, (4000 psi @ 7days and 3500 psi @ 28days)**

This Item shall consist of furnishing, placing and finishing concrete in buildings and related structures, flood control and drainage, ports, and water supply structures in accordance with this specification and conforming to the lines, grades, and dimension shown on the plans.

Materials to be used in this construction should be:

- Cement – Cement shall conform to the requirements of the following cited Specifications for the type specified or permitted (Type 1P).
- Gravel – **Composed of ¾" size gravel aggregates.**
- Sand – Composed of crushed sand (S1).

- Water – Water used in mixing, curing or other designated application shall be reasonably clean and free of oil, salt, acid, alkali, grass or other substances injurious to the finished product. Water which is drinkable may be used without test. Where the source of water is shallow, the intake shall be so enclosed as to exclude silt, mud, grass or other foreign materials.

The compaction shall be done by mechanical vibration. The concrete shall be vibrated internally unless special authorization of other methods is given by the Engineer or is provided herein. Vibrators shall be of a type, design, and frequency approved by the Engineer. The intensity of vibration shall be such as to visibly affect a mass of concrete with a 3 cm slump over a radius of at least 50 cm. A sufficient number of vibrator shall be provided to properly compact each batch immediately after it is placed in the forms. Vibrators shall be manipulated so as to thoroughly work the concrete around the reinforcement and embedded fixtures and into the corners and angles of the forms and shall be applied at the point of placing and in the area of freely placed concrete. The vibrators shall be inserted into and withdrawn from the concrete slowly. The vibration shall be of sufficient duration and intensity to compact the concrete thoroughly but shall not be continued so as to cause segregation and at any one point to the extent that localized areas of grout are formed. Application of vibrators shall be at points uniformly spaced, and not farther apart than twice the radius over which the vibration is visibly effective. Vibration shall not be applied directly or thru the reinforcement to sections or layers of concrete that have hardened to the degree that the concrete ceases to be plastic under vibration. It shall not be used to make concrete flow in the forms over distances so great as to cause segregation, and vibrators shall not be used to transport concrete in the forms of troughs or chutes.

After forms for concrete shall remain in place undisturbed for not less than twenty-four (24) hours after concrete pouring. In the removal of forms, crowbars should be used in pulling out nails and pins. Care should be taken so as not to break the edges of the structure. In case portions of the concrete are spalled, they shall be immediately repaired with fresh mortar mixed in the proportion of one part of Cement and two parts fine aggregates. Major honeycomb areas will be considered as defective work and shall be removed and replaced at the expense of the Contractor.

Payment will be made in accordance with the Bill of Quantities

#### ITEM C.6. – ITEM C.10., ITEM E.1. – ITEM E.5. – METAL STRUCTURES

This work shall consist of steel structures and the steel structure portions of composite structures, constructed in reasonably close conformity with the lines, grades and dimensions shown on the Plans or established by the Engineer.

The work will include the furnishing, fabricating, hauling, erecting, welding and painting of structural metals called for in the Special Provision or shown on the Plans. Structural metals will include structural steel, rivet, welding, special and alloy steels, steel forgings and castings and iron castings. This work will also include any incidental metal construction not otherwise

provided for, all in accordance with these Specifications, Plans and Special Provisions.

Material to be used in this items shall be:

Structural Steel (Stairs – C-Purlins) – **Use G7" x 2" x 2mm C-Purlins**

Structural Steel (Stairs – Angle Bars) – **Use 2" x 2" x 3mm Angle Bar.**

Structural Steel (Stairs – G.I. Pipe, Schedule 40 including Gusset/Steel Plates) – **Use 4" G.I. Pipe Schedule 40 for pipes** and use 10mm Gusset Plate for the Pedestal and 5mm Steel Plate at post.

Structural Steel (Stairs – 2mm Stainless Steel Checkered Steel Plate, SS304) – **Use 2mm Stainless Steel Checkered Steel Plate, SS304.**

Structural Steel (Stairs – Railings) – **Use Galvanized Iron 1 ½" Schedule 40 Pipes.**

Item E.1. – Item E.5. – G.I. Pipes, Schedule 40 – Use G.I. pipes properties as indicated in the table below:

NOMINAL SIZE		OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT Plain Ends		MAXIMUM TEST PRESSURE	
in	mm	in	mm	in	mm	lb/ft	kg/m	psi	kPa
½	15	0.840	21.3	0.109	2.77	0.85	1.27	700	4800
¾	20	1.050	26.7	0.113	2.87	1.13	1.69	700	4800
1	25	1.315	33.4	0.133	3.38	1.68	2.50	700	4800
1 ¼	32	1.660	42.2	0.140	3.56	2.27	3.39	1300	9000
1 ½	40	1.900	48.3	0.145	3.68	2.72	4.05	1300	9000
2	50	2.375	60.3	0.154	3.91	3.66	5.44	2500	17 200
2 ½	65	2.875	73.0	0.203	5.16	5.80	8.63	2500	17 200
3	80	3.500	88.9	0.216	5.49	7.58	11.29	2500	17 200
4	100	4.500	114.3	0.237	6.02	10.80	16.07	2210	15 200
5	125	5.563	141.3	0.258	6.55	14.63	21.77	1950	13 400
6	150	6.625	168.3	0.280	7.11	18.99	28.26	1780	12 300
8	200	8.625	219.1	0.322	8.18	28.58	42.55	1570	10 800
10	250	10.750	273.0	0.365	9.27	40.52	60.29	1430	9900
12	300	12.750	323.8	0.406	10.31	53.57	79.70	1340	9200
14	350	14.000	355.6	0.438	11.13	63.50	94.55	1310	9000
16	400	16.000	406.4	0.500	12.70	82.85	123.30	1310	9000
18	450	18.000	457	0.562	14.27	104.76	155.87	1310	9000
20	500	20.000	508	0.594	15.09	123.23	183.42	1250	8600
24	600	24.000	610	0.688	17.48	171.45	255.24	1200	8300

Mechanical Properties (Schedule 40)	Dimension Tolerance
<b>Yield Point: <math>\geq 240\text{MPa}</math> (35 000 psi)</b>	Weight: +10%, -3.5%
<b>Tensile Point: <math>\geq 415\text{ MPa}</math> (60 000 psi)</b>	Outside Diameter
Elongation : 17%-30%	40mm and Below : $\pm 0.40\text{mm}$
	50mm and Above : $\pm 1\%$
	Wall Thickness : $\pm 12.50\%$

All threaded portion of the pipe shall be cut or removed before installation. All connected joints of the metal structures shall be welded full using welding rod N-6011.

Welding shall be carried out only by fully qualified welders as tested & approved by the Engineer. When welding is carried out on open air, steps shall be taken to protect the place of welding against wind or rain, the welding electrodes and parts being welded shall be dry. Before beginning the welding operation, each jointing shall be checked to ensure the parts to be welded or clean and root gaps provided as IS: 823. The re-welding of the root is mandatory but only the metal deposits of the root have been cleaned by back gauging or chipping. The welding joints shall be left to cool slowly. The contractor shall not be allowed to cool the welds quickly by any other methods. For multilayer welding, before welding the following layer, the formerly welded layer shall be cleaned metal bright by light chipping & wire brushing. Packing strips shall not be allowed i.e. All slag shall be removed.

## Fabrication

These Specifications apply to riveted, bolted and welded construction. The Contractor may, however, with approval of the Engineer, substitute high tensile strength steel bolts equivalent to the rivets in any connection.

Workmanship and finish shall be in accordance with the best general practice in modern bridge shops. Portions of the work exposed to view shall be

finished neatly. Shearing, flame cutting, and chipping shall be done carefully and accurately.

Structural material, either plain or fabricated, shall be stored above the ground upon platforms, skids or other supports. It shall be kept free from dirt, grease or other foreign matter, and shall be protected as far as practicable from corrosion.

Rolled material before being laid off or worked must be straight. If straightening is necessary, it shall be done by methods that will not injure the metal. Sharp kinks and bends will be cause for rejection of the material.

Preparation of material shall be in accordance with AWS (American Welding Society) D 1.1, paragraph 3.2 as modified by AASHTO Standard Specification for Welding of Structural Steel Highway Bridges.

## Finishing and Shaping

Finished members shall be true to line and free from twists, bends and open joints.

### 1. Edge Planing

Sheared edges of plates more than 15.9 mm in thickness and carrying calculated stresses shall be planed to a depth of 6.3 mm. Re-entrant cuts shall be filleted before cutting.

### 2. Facing of Bearing Surfaces

The surface finish of bearing and based plates and other bearing surfaces that are to come in contact with each other or with concrete shall meet the American National Standards Institute surface roughness requirements as defined in ANSI B-46.1-47, Surface Roughness Waviness and Lay, Part I:

Steel Slabs	ANSI 2,000
Heavy plates in contact in shoes to be welded	ANSI 1,000
Milled ends of compression members, stiffeners and fillers	ANSI 500
Bridge rollers and rockers	ANSI 250
Pins and pin holes	ANSI 125
Sliding bearings	ANSI 125

### 3. Abutting Joints

Abutting joints in compression members and girders flanges, and in tension members where so specified on the drawings, shall be faced and brought to an even bearing. Where joints are not faced, the opening shall not exceed 6.3 mm.

#### 4. End Connection Angles

Floor beams, stringers and girders having end connection angles shall be built to plan length back to back of connection angles with a permissible tolerance of 0 mm to minus 1.6 mm. If end connections are faced, the finished thickness of the angles shall not be less than that shown on the detail drawings, but in no case less than 9.5 mm.

#### 5. Lacing Bars

The ends of lacing bars shall be neatly rounded unless another form is required.

#### 6. Fabrication of Members

Unless otherwise shown on the Plans, steel plates for main members and splice plates for flanges and main tension members, not secondary members, shall be cut and fabricated so that the primary direction of rolling is parallel to the direction of the main tensile and/or compressive stresses.

Fabricated members shall be true to line and free from twists, bends and open joints.

#### 7. Web Plates (Riveted or Bolted)

In girders having no cover plates and not to be encased in concrete, the top edges of the web shall not extend above the backs of the flange angles and shall not be more than 3.2 mm below at any point. Any portion of the plate projection beyond the angles shall be chipped flush with the backs of the angles. Web plates of girders having cover plates may not be more than 12.7 mm less in width than the distance back to back of flange angles.

Splices in webs of girders without cover plates shall be sealed on top with red lead paste prior to painting.

At web splices, the clearance between the ends of the plates shall not exceed 9.5 mm. The clearance at the top and bottom ends of the web splice plates shall not exceed 6.3 mm.

#### 8. Bent Plates

Cold-bent load-carrying rolled-steel plates shall conform to the following:

a. They shall be so taken from the stock plates that the bendline will be at right angles to the direction of rolling, except that cold-bent ribs for orthotropic deck bridges may be bent in the direction of rolling if permitted by the Engineer.

b. The radius of bends shall be such that no cracking of the plate occurs. Minimum bend radii, measured to the concave face of the metal, are shown in the DPWH Blue Book table (page 172 of Volume 2).

It is recommended that steel in this thickness range be bent hot. Hot bending however, may result in a slight decrease in the as-rolled mechanical properties.

The mechanical properties of ASTM A 514 steel results from a quench-and-temper-operation. Hot bending may adversely affect these mechanical properties. If necessary to hotbend, fabricator should discuss procedure with steel supplier.

c. Before bending, the corners of the plate be rounded to a radius of 1.6 mm throughout that portion of the plate where the bending is to occur.

#### 9. Fit of Stiffeners

End stiffeners of girders and stiffeners intended as supports for concentrated loads shall have full bearing (either milled, ground or on weldable steel in compression areas of flanges, welded as shown on the Plans or specified) on the flanges to which they transmit load or from which they receive load. Stiffeners not intended to support concentrated loads shall, unless shown or specified otherwise, fit sufficiently tight to exclude water after being painted, except that for welded flexural members, the ends of stiffeners adjacent to the tension flanges shall be cut back as shown on the Plans. Fillers under stiffeners shall fit within 6.3 mm at each end.

Welding will be permitted in lieu of milling or grinding if noted on the Plans or in the Special Provisions. Brackets, clips, gussets, stiffeners, and other detail material shall not be welded to members or parts subjected to tensile stress unless approved by the Engineer.

#### 10. Eyebars

Pin holes may be flame cut at least 50.8 mm smaller in diameter than the finished pin diameter. All eyebars that are to be placed side by side in the structure shall be securely fastened together in the order that they will be placed on the pin and bored at both ends while so clamped. Eyebars shall be packed and matchmarked for shipment and erection. All identifying marks shall be stamped with steel stencils on the edge of one head of each member after fabrication is completed so as to be visible when the bars are nested in place on the structure. The eyebars shall be straight and free from twists and the pin holes shall be accurately located on the centerline of the bar. The inclination of any bar to the plane of the truss shall not exceed 1.6 mm to 305 mm.

The edges of eyebars that lie between the transverse centerline of their pin holes shall be cut simultaneously with two mechanically operated torches abreast of each other, guided by a substantial template, in such a manner as to prevent distortion of the plates.

#### 11. Annealing and Stress Relieving

Structural members which are indicated in the Contract to be annealed or normalized shall have finished machining, boring and straightening done subsequent to heat treatment. Normalizing and annealing (full annealing) shall be in accordance with ASTM E 44. The temperatures shall be maintained uniformly throughout the furnace during heating and cooling so that the



temperature at no two points on the member will differ by more than 37.80C at any one time.

Members of A514/A517 steels shall not be annealed or normalized and shall be stress relieved only with the approval of the Engineer.

A record of each furnace charge shall identify the pieces in the charge and show the temperatures and schedule actually used. Proper instruments including recording pyrometers, shall be provided for determining at any time the temperatures of members in the furnace. The records of the treatment operation shall be available to and meet the approval of the Engineer.

Members, such as bridge shoes, pedestals, or others which are built up by welding sections of plate together shall be stress relieved in accordance with **the provisions in "Welding" when required by the Plans, Specifications or Special Provisions** governing the Contract.

## 12. Tests

When full size tests of fabricated structural members or eyebars are required by the Contract, the Plans or Specifications will state the number and nature of the tests, the results to be attained and the measurements of strength, deformation or other performances that are to be made. The Contractor will provide suitable facilities, material, supervision and labor necessary for making and recording the tests. The members tested in **accordance with the Contract will be paid for in accordance with "Pins and Rollers"**. The cost of testing, including equipment handling, supervision labor and incidentals for making the test shall be included in the contract price for the fabrication or fabrication and erection of structural steel, whichever is the applicable item in the Contract, unless otherwise specified.

## Fastener Holes (Rivets and Bolts)

All holes for rivets or bolts shall be either punched or drilled. Material forming parts or a member composed of not more than five thickness of metal may be punched 1.6 mm larger than the nominal diameter of the rivets or bolts whenever the thickness of the material is not greater than 19 mm for structural steel, 15.9 mm for high-strength steel or 12.7 mm for quenched and tempered alloy steel, unless subpunching and reaming is required for field connections.

When there are more than five thicknesses or when any of the main material is thicker than 19 mm for structural steel, 15.9 mm for high-strength steel, or 12.7 mm for quenched and tempered alloy steel, all holes shall either be subdrilled or drilled full size.

When required for field connections, all holes shall either be subpunched or subdrilled (subdrilled if thickness limitation governs) 4.8 mm smaller and, after assembling, reamed 1.6 mm larger or drilled full size 1.6 mm larger than the nominal diameter of the rivets or bolts.

When permitted by design criteria, enlarged or slotted holes are allowed with high-strength bolts. For punched holes, the diameter of the die shall not exceed the diameter of the punch by more than 1.6 mm. If any holes must be enlarged to admit the fasteners, they shall be reamed. Holes shall be clean cut, without torn or ragged edges. Poor matching of holes will be cause for rejection.

Reamed holes shall be cylindrical, perpendicular to the member, and not more than 1.6 mm larger than the nominal diameter of the fasteners. Where practicable, reamers shall be directed by mechanical means. Drilled holes shall be 1.6 mm larger than the nominal diameter of the fasteners. Burrs on the outside surfaces shall be removed. Poor matching of holes will be cause for rejection. Reaming and drilling shall be done with twist drills. If required by the Engineer, assembled parts shall be taken apart for removal of burrs caused by drilling. Connecting parts requiring reamed or drilled holes shall be assembled and securely held while being reamed or drilled and shall be matchmarked before disassembling.

Unless otherwise specified, holes for all field connections and field splices of main truss or arch members, continuous beams, towers (each face), bents, plate girders and rigid frames shall be subpunched (or subdrilled if subdrilling is required) and subsequently reamed while assembled in the shop in accordance with Subsection 403.3.7.

All holes for floor-beam and stringer field end connections shall be subpunched and reamed to a steel template reamed while being assembled.

Reaming or drilling full size of field connection through templates shall be done after templates have been located with the utmost care as to position and angle and firmly bolted in place. Templates used for the reaming of matching members, or of the opposite faces of one member, shall be exact duplicated. Templates for connections which duplicate shall be so accurately located that like members are duplicates and require no matchmarking.

If additional subpunching and reaming is required, it will be specified in the Special Provisions or on the Plans.

Alternately, for any field connection or splice designated above in lieu of sub-sized holes and reaming while assembled, or drilling holes full-size while assembled, the Contractor shall have the option to drill bolt holes full-size in unassembled pieces and/or connections including templates for use with matching sub-sized and reamed holes means of suitable numerically-controlled (N/C) drilling equipment subject to the specific provisions contained in this Subsection.

If N/C drilling equipment is used, the Engineer, unless otherwise stated in the Special Provisions or on the Plans, may require the Contractor, by means of check assemblies to demonstrate that this drilling procedure consistently produces holes and connections meeting the requirements of conventional procedures.

The Contractor shall submit to the Engineer for approval a detailed outline of the procedures that he proposes to follow in accomplishing the work from initial drilling through check assembly, if required, to include the specific members of the structure that may be N/C drilled, the sizes of the holes, the location of common index and other reference points, composition of check assemblies and all other pertinent information.

Holes drilled by N/C drilling equipment shall be drilled to appropriate size either through individual pieces, or any combination of pieces held tightly together.

All holes punched full size, subpunched or subdrilled shall be so accurately punched that after assembling (before any reaming is done), a cylindrical pin 3.2 mm smaller in diameter than the nominal size of the punched hole may be entered perpendicular to the face of the member, without drifting, in at least 75 percent of the contiguous holes in the same plane. If the requirement is not fulfilled, the badly punched pieces will be rejected. If any hole will not pass a pin 4.8 mm smaller in diameter than the nominal size of the punched holes, this will cause for rejection.

When holes are reamed or drilled, 85 percent of the holes in any continuous group shall, after reaming or drilling, show no offset greater than 0.8 mm between adjacent thickness of metal.

All steel templates shall have hardened steel bushings in holes accurately dimensioned from the center lines if the connections as inscribed on the template. The center lines shall be used in locating accurately the template from the milled or scribed ends of the members.

Payment will be made in accordance with the Bill of Quantities

#### ITEM D.2. – WINDOWS (Aluminum Glass Window – Jalousie)

This item shall consist of the installation of Aluminum Glass Windows in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Aluminum – Analok Frame Finish
- Glass – 6mm Tempered Glass
- Jalousie Accessories

#### ITEM D.3. – DOORS (Fire Rated Fire Exit Steel Door)

This item shall consist of the installation of Fire Rated Doors in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Fire Rated Fire Exit Steel Door (180 x 210) (2 Doors – Butterfly) (gauge 18 – 44mm thk.)
- **2" x 4" Door Jamb (gauge 16 – 1.5hrs Fire Rate)**
- With Panic Device
- Single Lever Lock
- Hinges and Fire Rated Filler

ITEM E.6. – ITEM E.7. – PPR

This item shall consist of the installation of Waterline in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- **¾" and ½" PPR, PN20**
- Including PPR Fittings

ITEM E.8. – FIRE HOSE CABINET (with Complete Accessories)

This item shall consist of the installation of Fire Hose Cabinet in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- 32"x27"x7 1/4", Aluminum Frame, Tempered Glass, Steel Body, Gauge 18 Painted RED inside and out with magnetic snap lock, and Handle Fire Hose Cabinet
- 1 1/2" x 100' Polyester Double Jacket Fire Hose
- 1 1/2" Aluminum Male Coupling (NH/NST)
- 1 1/2" Aluminum Swivel Female Coupling (NH/NST)
- 1 1/2" Angle Valve (NH/NST)
- 1 1/2" Compatible Straight Nozzle (NH/NST)
- 1 1/2" Stream and Fog Nozzle (NH Treaded /NST)
- 1 1/2" Brass Nipple (NH/NST)
- Semi-Automatic Hose Rack
- Service Pressure - 400psi
- Proof Test Pressure - 800psi
- Burst Test Pressure - 1200psi

ITEM E.9. – ITEM E. 11. – Non-Rising Stem Gate Valve (with Complete Accessories)

This item shall consist of the installation of Gate Valves in accordance with the plans/drawings or as directed by the Engineer.

Materials to be used in this construction should be:

- Body and Bonnet: Ductile Iron, GGG50 to DIN 1693
- Coating: Electrostatically applied epoxy resin to DIN 30677 Internally and Externally
- Stem: Stainless Steel, DIN X 20 Cr 13

- Stem Sealing: NBR wiper ring, 2 NBR O-rings inside and 2 outside a plastic bearing, EPDM rubber manchette
- Wedge: Ductile Iron, GGG50, core fully encapsulated with EPDM rubber with integral wedge nut of dezincification resistant brass
- Thrust Collar: Dezincification resistant brass
- Bonnet Bolts: Stainless Steel A2, sealed with hot melt
- Bonnet Gasket: EPDM rubber
- Hydraulic Test: BS 5163 (DIN 3230/DIN 3352)
- Face to Face Dimension: BS 5163 (ISO 5752 S.3)
- Flanges and Drilling: ISO 7005-2
- (EN 1092-2:1997, DIN 2501)

## ***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.]*



PEZA

**Republic of the Philippines**  
**Philippine Economic Zone Authority**  
**Baguio City Economic Zone**  
 LOAKAN ROAD, BAGUIO CITY


CY 2021 PROJECT

**Installation of Wet Stand Pipe for SFB-1 and SFB-2**  
 LOAKAN ROAD, BAGUIO CITY

  
 BRYAN DAVE Q. URMAZA  
 ESO II / Mechanical Engineer  
 date:

PREPARED BY:  
  
 JC KING B. MANANSALA  
 ESO II / Civil Engineer  
 date:

  
 ANJEE ANNE D. MONTERO  
 ESO II / Architect  
 date:

CHECKED BY:  
  
 JOSEPH C. GALONG  
 DIVISION CHIEF,  
 ENGINEERING AND MAINTENANCE DIVISION  
 date:

RECOMMENDING APPROVAL:  
  
 PAUL M. CODAMON  
 DEPARTMENT MANAGER, OPERATIONS  
 date:

APPROVED BY :  
 (original signed)  
 ATTY. ROSS VINCENT S. SY  
 DIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ  
 date:



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## ARCHITECTURAL PLANS

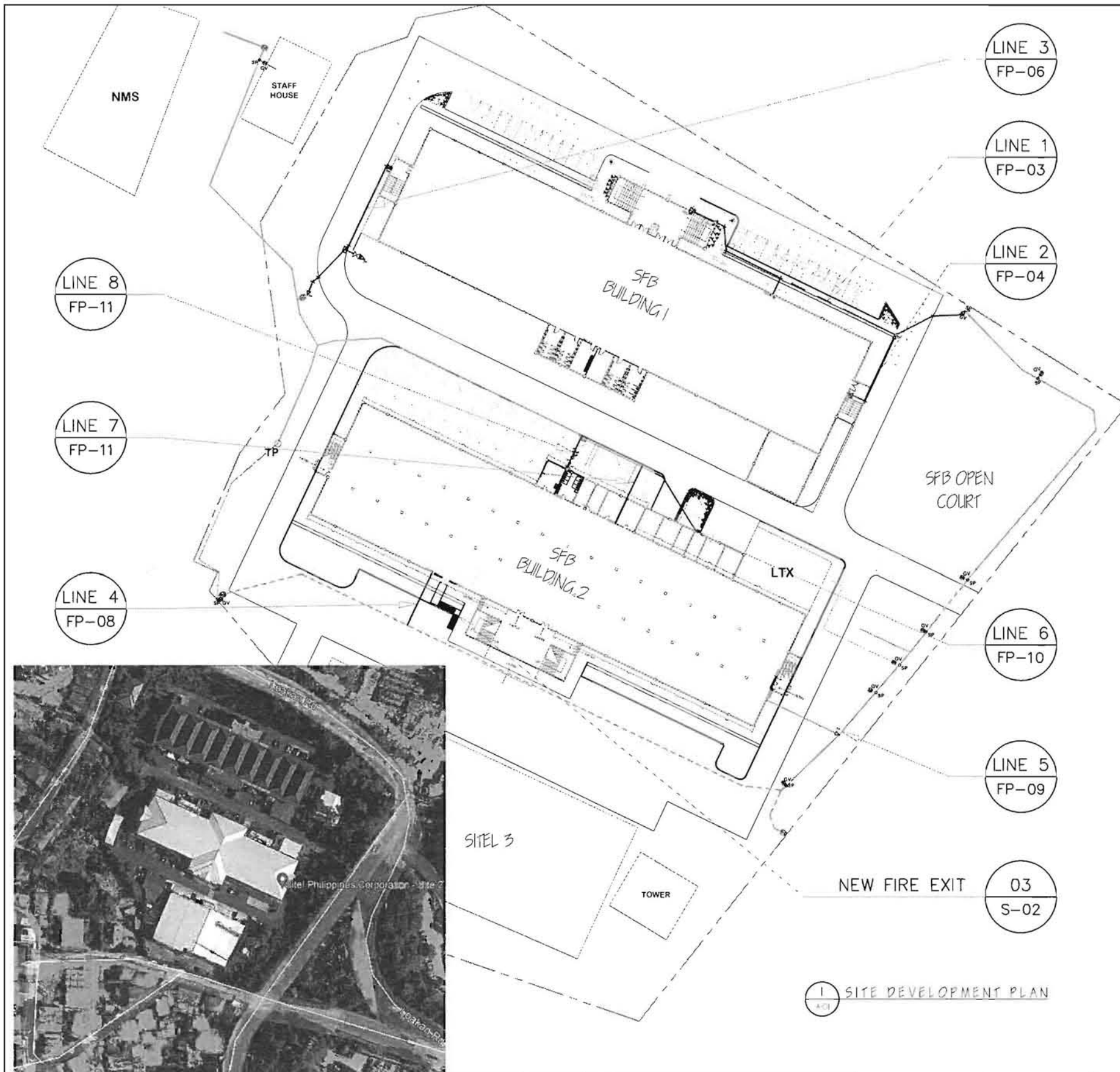
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PROJECT TITLE:  
Installation of Wet Stand Pipe for  
SFB-1 and SFB-2

LOCATION:  
LOAKAN, BAGUIO CITY

PREPARED BY:  
  
ANNE ANNE D. MONTERO  
ESO IV Architect

CHECKED BY:  
  
JOSEPH C. GALONG  
DIVISION CHIEF, EMD

RECOMMENDING APPROVAL BY:  
  
PAUL M. CODAMON  
DEPARTMENT MANAGER, OPERATIONS

APPROVED BY:  
(original signed)  
ATTY. ROSS VINCENT S. SY  
OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ

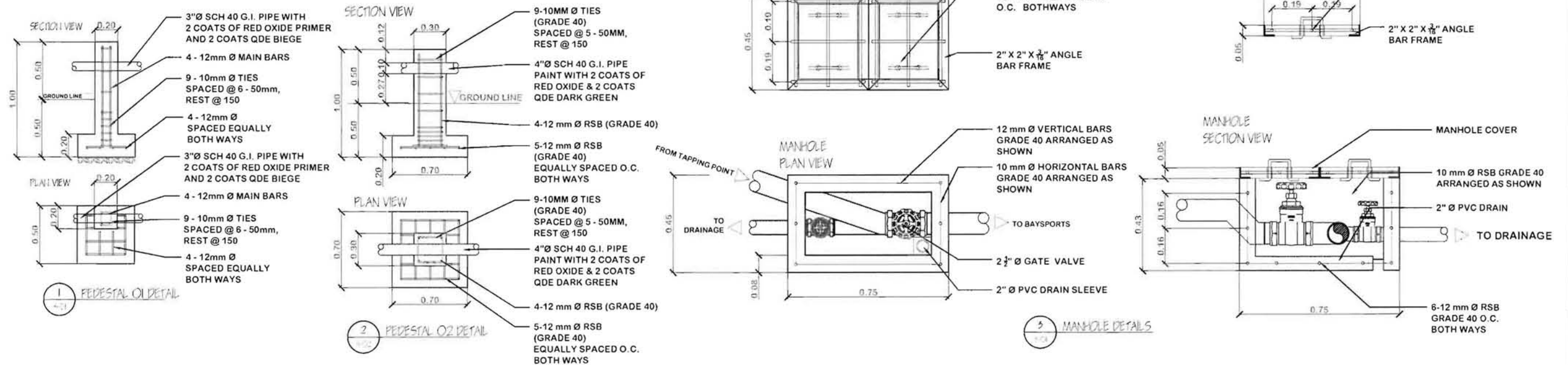
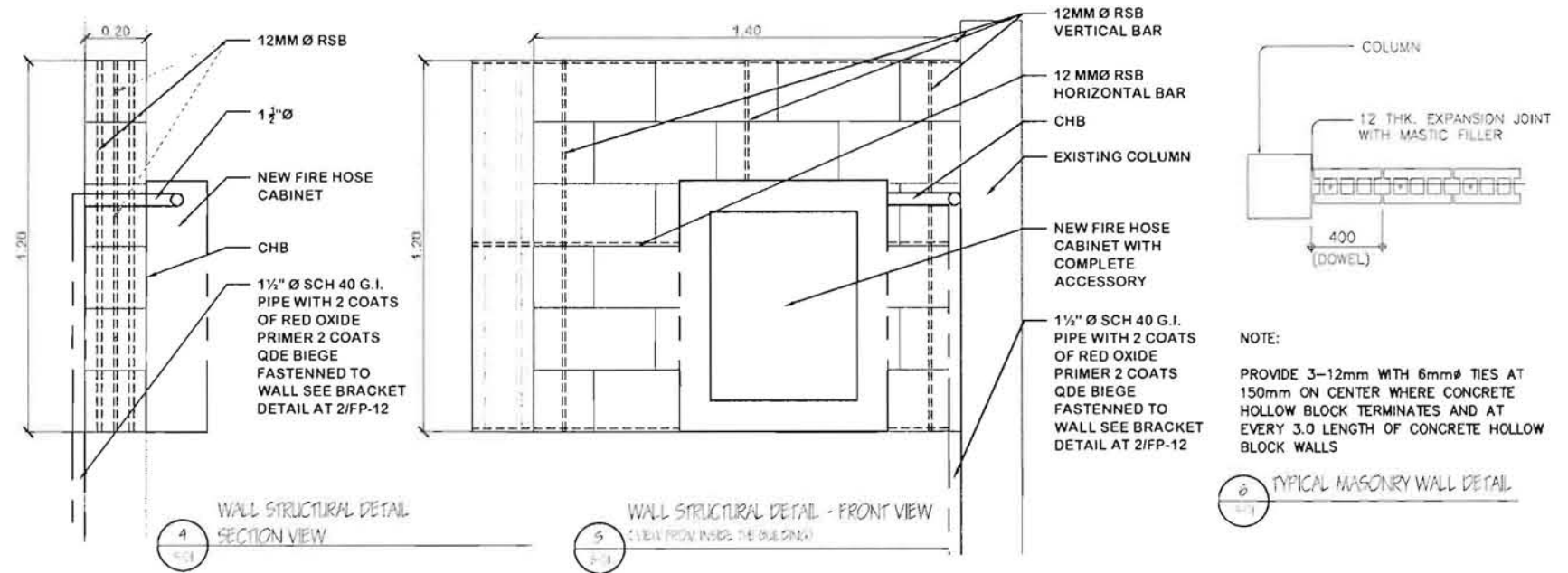
SHEET CONTENT:  
VICINITY MAP  
SITE DEVELOPMENT PLAN  
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SHEET NUMBER  
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15  
REV. NO. / DATE  
00 11-15-2021



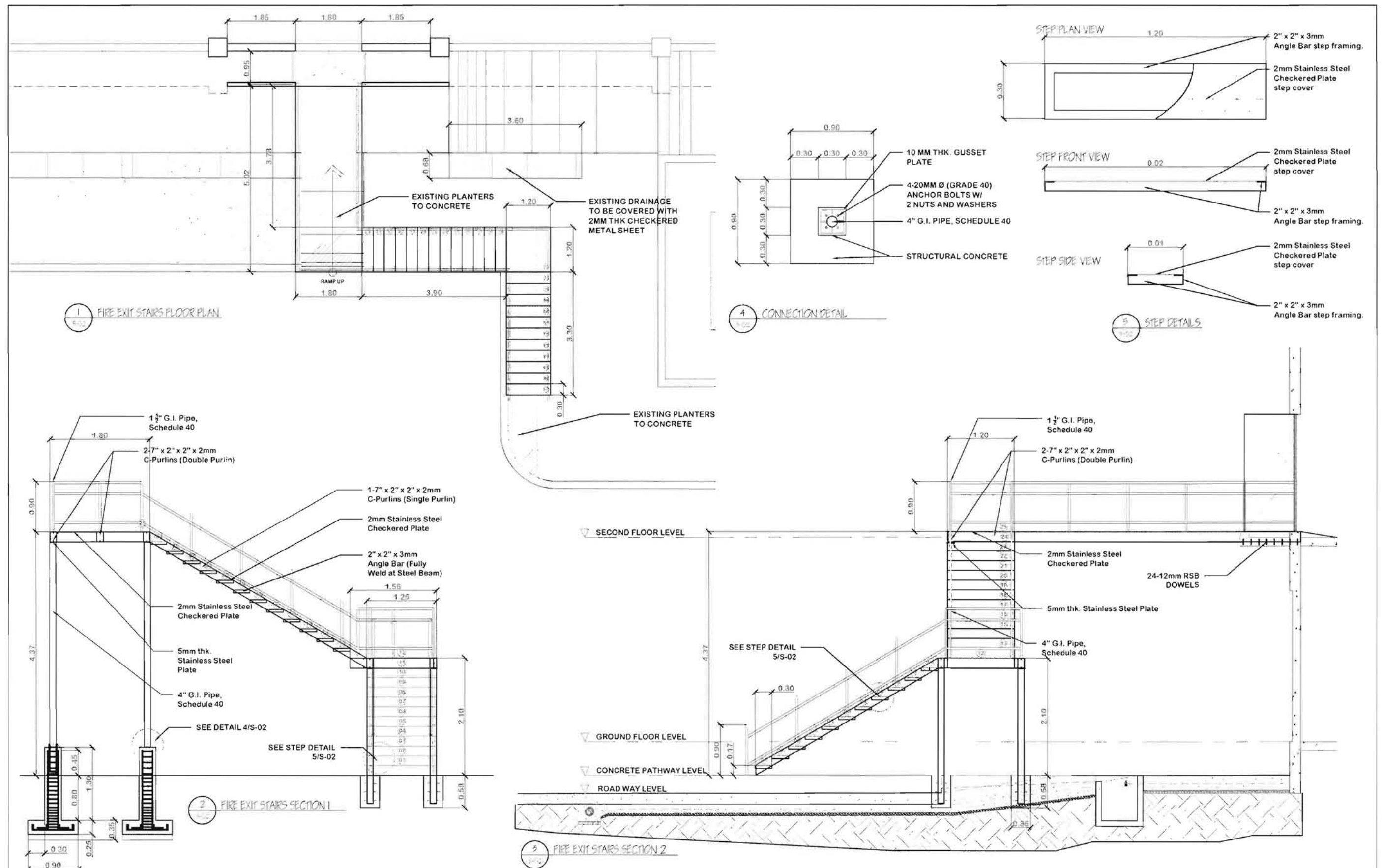
## GENERAL CONSTRUCTION NOTES


1. IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS ETC.
3. IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND ARCHITECT.
4. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI.318 95 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9th EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
5. ACI REFERS TO AMERICAN CONCRETE INSTITUTES, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
6. CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
7. SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS.
8. CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENT'S AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
9. ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCING BARS & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.








 <p>Philippine Economic Zone Authority</p>	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER	
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	JC KING B. MANASALA ES, 1st Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	GENERAL CONSTRUCTION NOTES PEDESTAL 01 DETAIL PEDESTAL 102 DETAIL MANHOLE DETAIL WALL DETAIL	S-01	02
	LOCATION:						REV. NO. / DATE	
	LOAKAN, BAGUIO CITY						00	11-15-2021

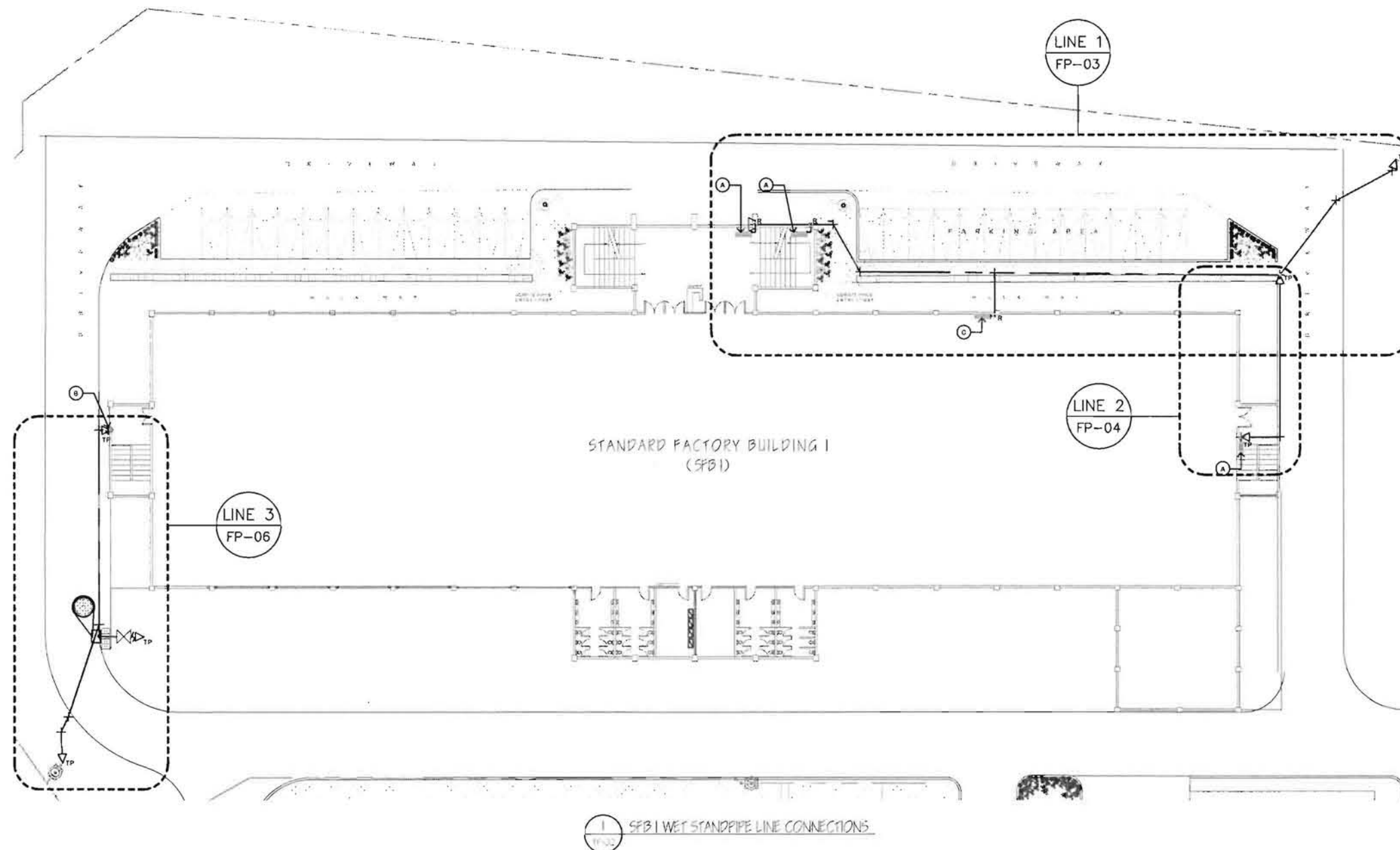




 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	JC KING S. MANASALA Engr Civil Engineer	JOSEPH C. GALONG DIVISION CHIEF, EMD	PAUL M. GORDON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, 6CEZ	FIRE EXIT STAIRS DETAIL: FLOOR PLAN SECTION 1 SECTION 2	S-02 03 15
	LOCATION:						REV. NO. / DATE
	LOAKAN, BAGUIO CITY						00 11-15-2021

 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER		
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN DAVE Q. URMAZA ESO IV Mechanical	 JOSEPH C. SALONG DIVISION CHIEF, EMO	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	 (original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	<ul style="list-style-type: none"> <li>GENERAL NOTES</li> <li>TYPICAL PIPE BRACKET/BRACE DETAILS</li> <li>LEGENDS AND SYMBOLS</li> </ul>	FP-01 <div>           04 15         </div>		
	LOCATION:								REV. NO. / DATE
	LOAKAN, BAGUIO CITY								00 / 11-15-2021





## NOTES:





- A EXISTING FIRE HOSE CABINET  
 B EXISTING SIAMESE CONNECTION TO BE REMOVED  
 C NEW FIRE HOSE CABINET (COMPLETE SET)

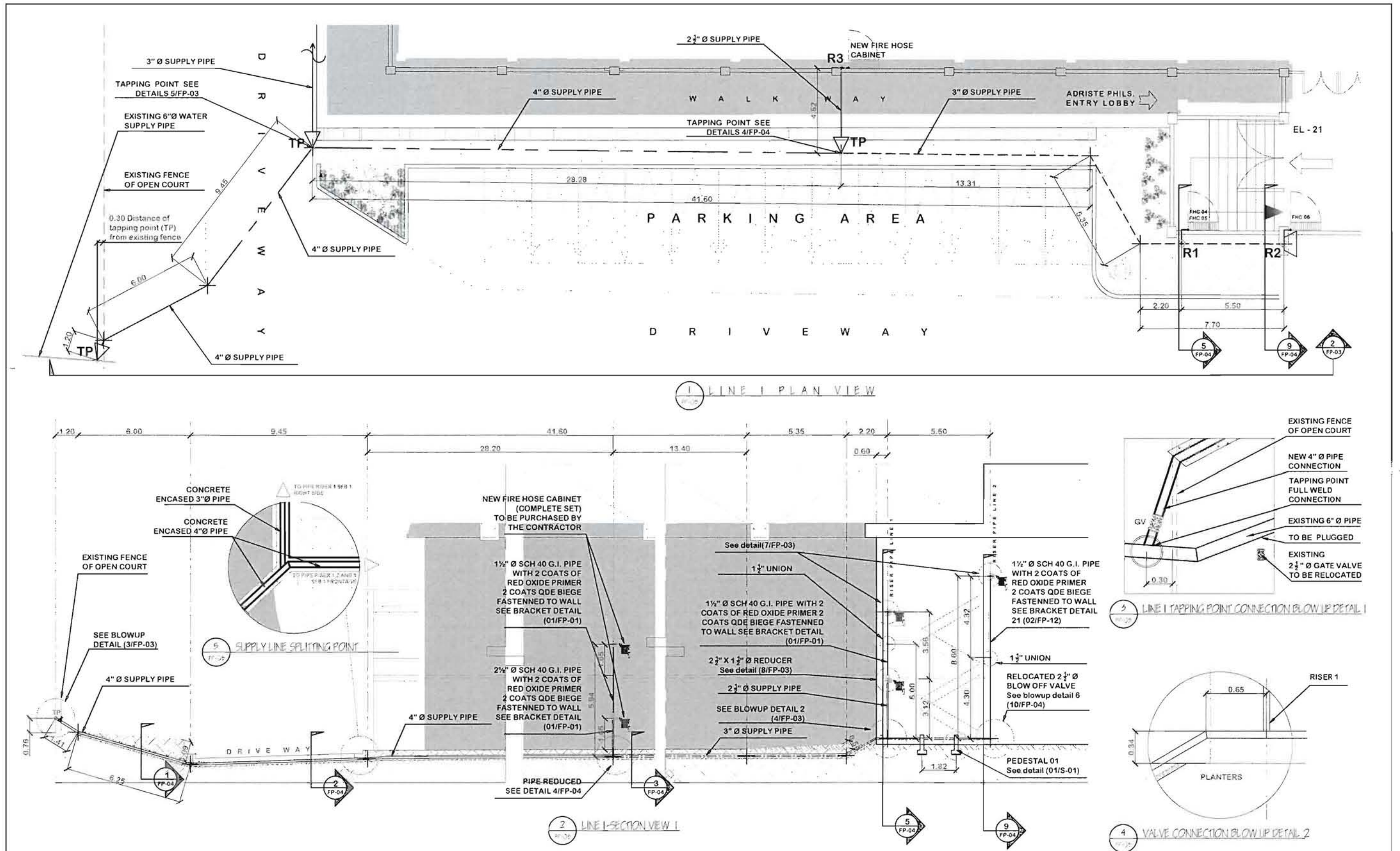
## ABBREVIATIONS:





- LAV LAVATORY  
 WC WATER CLOSET  
 MS MAP SINK  
 LS LAUNDRY SINK

## PLUMBING LEGENDS &amp; SYMBOLS

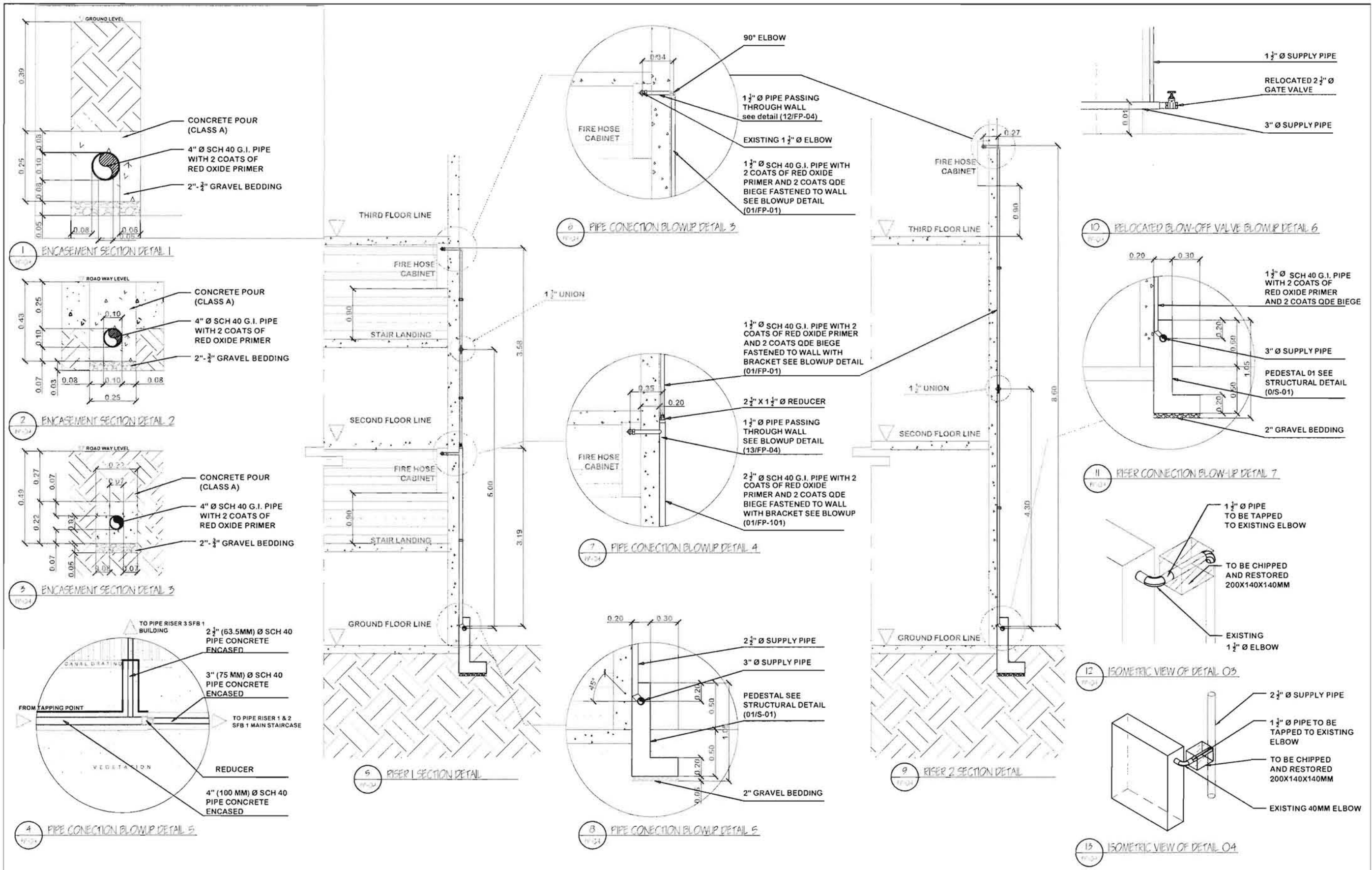
—	" Ø STANDPIPE ABOVE GRADE LINE
- - -	" Ø STANDPIPE UNDER GRADE LINE
R	PIPE RISER
D	BLOW OFF VALVE
X	GATE VALVE
FHC	FIRE HOSE CABINET
SC	SIAMESE CONNECTION
MH	NEW MANHOLE
X	STAKING POINTS
TP	TAPPING POINT
FHC	FIRE HOSE CABINET
R	REDUCER
CAP	CAP





 <b>Philippine Economic Zone Authority</b>	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN DAVE O. URMAZA ESO III Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMO	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	SFB 1 WET STAND PIPE CONNECTIONS LEGENDS AND SYMBOLS	FP-02 05 15
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	LOAKAN, BAGUIO CITY						00 11-15-2021



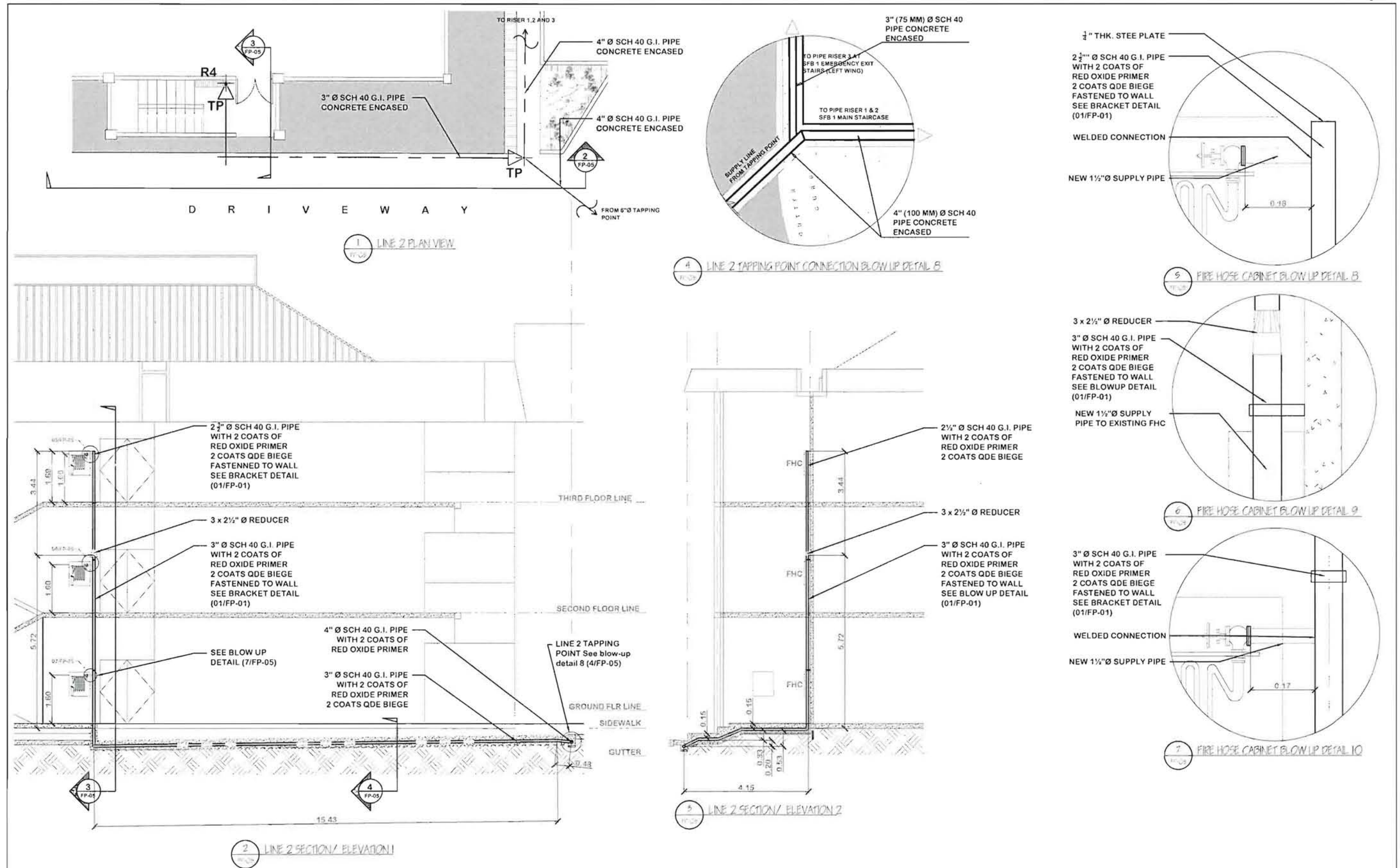
 <p>Philippine Economic Zone Authority</p>	<p>PROJECT TITLE: Installation of Wet Stand Pipe for SFB-1 and SFB-2</p> <p>LOCATION: LOAKAN, BAGUIO CITY</p>	<p>PREPARED BY:  BRYAN DAVE Q. URMAZA ESO IV Mechanical</p>	<p>CHECKED BY:  JOSEPH G. GALONG DIVISION CHIEF, EMO</p>	<p>RECOMMENDING APPROVAL BY:  PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS</p>	<p>APPROVED BY: (original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ</p>	<p>SHEET CONTENT: LINE 1 PLAN VIEW LINE 1 SECTION/ELEVATION VIEW 1 BLOW UP DETAILS</p>	<p>SHEET NUMBER FP-03 06 15</p> <p>REV. NO. 1 DATE 00 11-15-2021</p>
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 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER	
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN DAVE Q. URMАЗА ESO IV Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMD	 PAUL M. SODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	ENCASEMENT DETAIL 1 ENCASEMENT DETAIL 2 ENCASEMENT DETAIL 3 PEDESTAL DETAIL RISER 1 RISER 2 BLOW UP DETAILS	FP-04	07 15
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	LOAKAN, BAGUIO CITY						00	11-15-2021





 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN DAVE S. URMAZA ESO II Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMD	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LINE 2 PLAN VIEW LINE 2 SECTION/ELEVATION VIEW 1 LINE 2 SECTION/ELEVATION VIEW 2 BLOW UP DETAILS	FP-05 08 15
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	LOAKAN, BAGUIO CITY						00 11-15-2021







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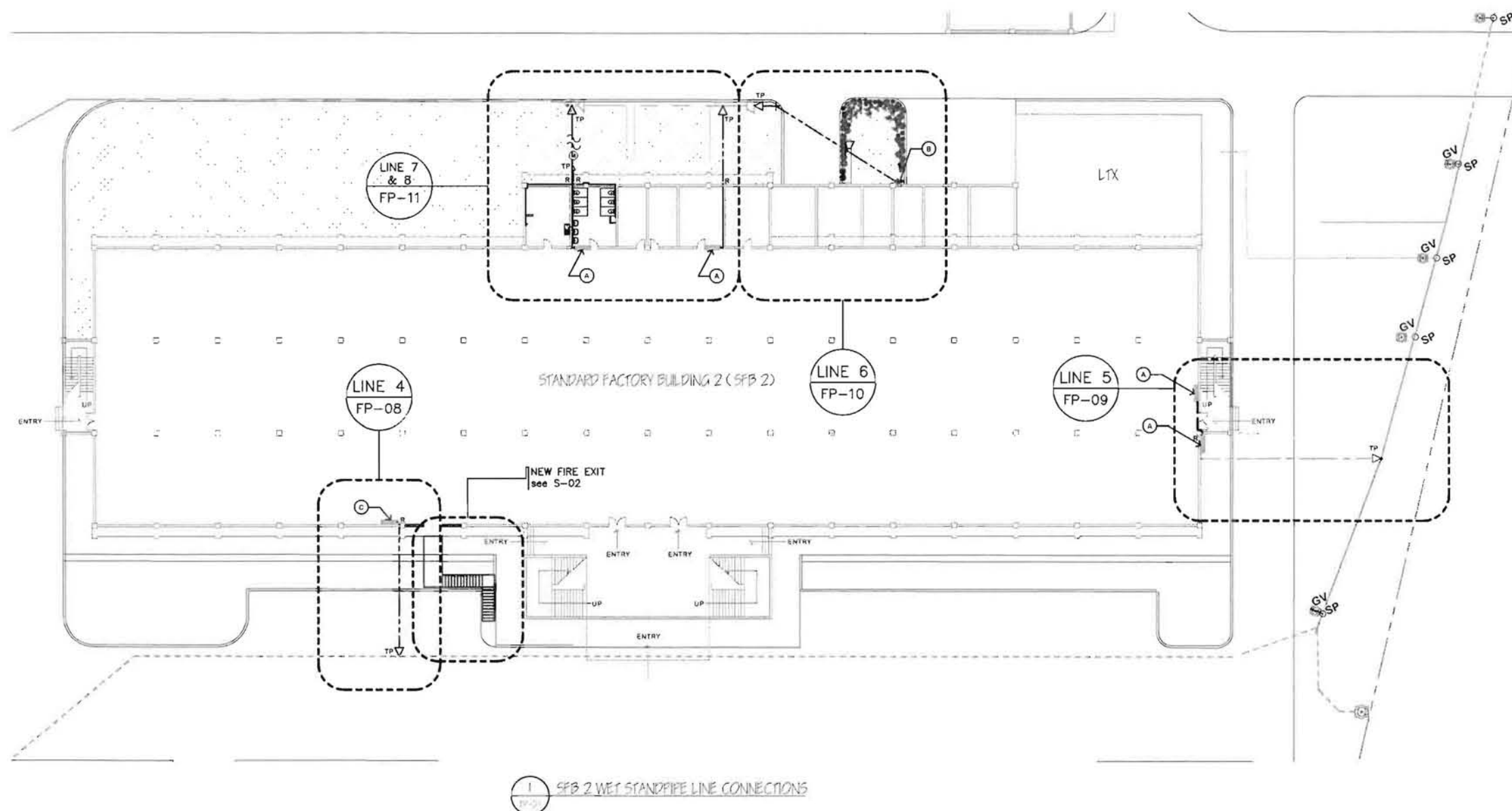
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 B EXISTING SIAMESE CONNECTION  
 C NEW FIRE HOSE CABINET  
 (COMPLETE SET)

## ABBREVIATIONS:

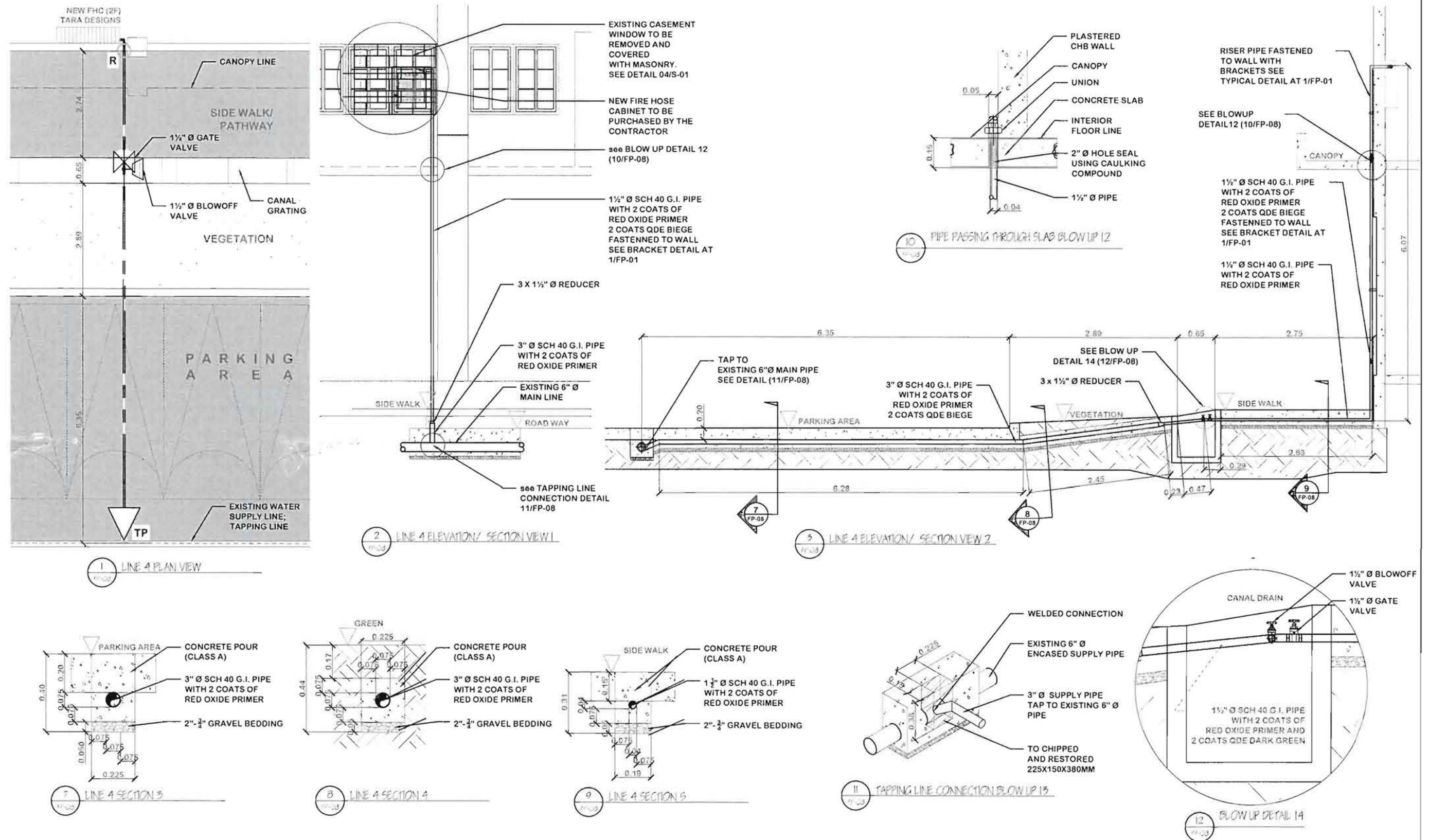
- LAV LAVATORY  
 WC WATER CLOSET  
 MS MAP SINK  
 LS LAUNDRY SINK





## PLUMBING LEGENDS &amp; SYMBOLS

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	" Ø STANDPIPE UNDER GRADE LINE
	PIPE RISER
	BLOW OFF VALVE
	GATE VALVE
	FIRE HOSE CABINET
	SIAMESE CONNECTION
	NEW MANHOLE
	STAKING POINTS
	TAPPING POINT
	FIRE HOSE CABINET
	REDUCER
	CAP

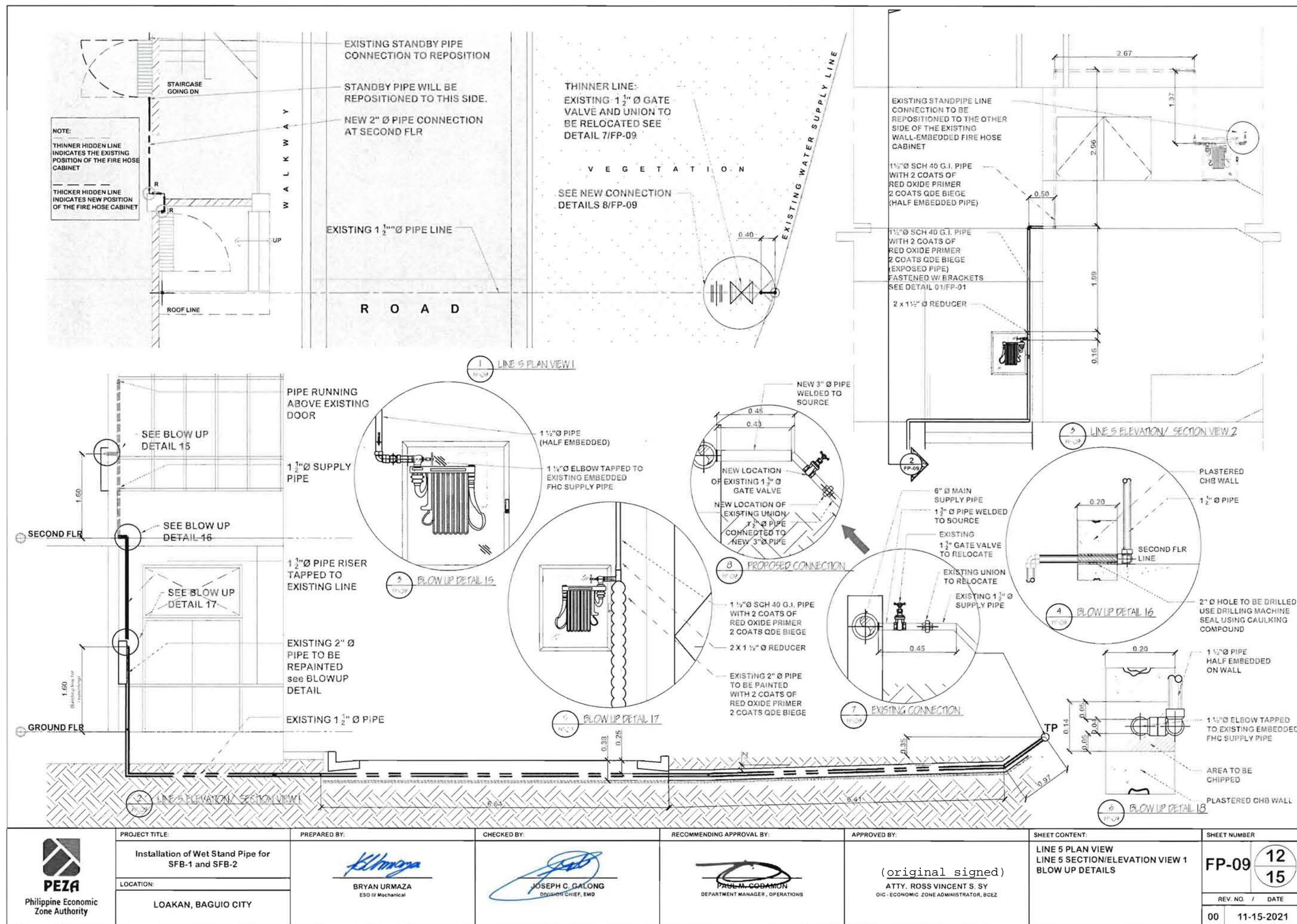


 Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN URMAZA ESO IV Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMD		(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	SFB 2 WET STAND PIPE CONNECTIONS LEGENDS AND SYMBOLS	FP-07 10/15
	LOCATION:						REV. NO. / DATE
	LOAKAN, BAGUIO CITY						00 11-15-2021

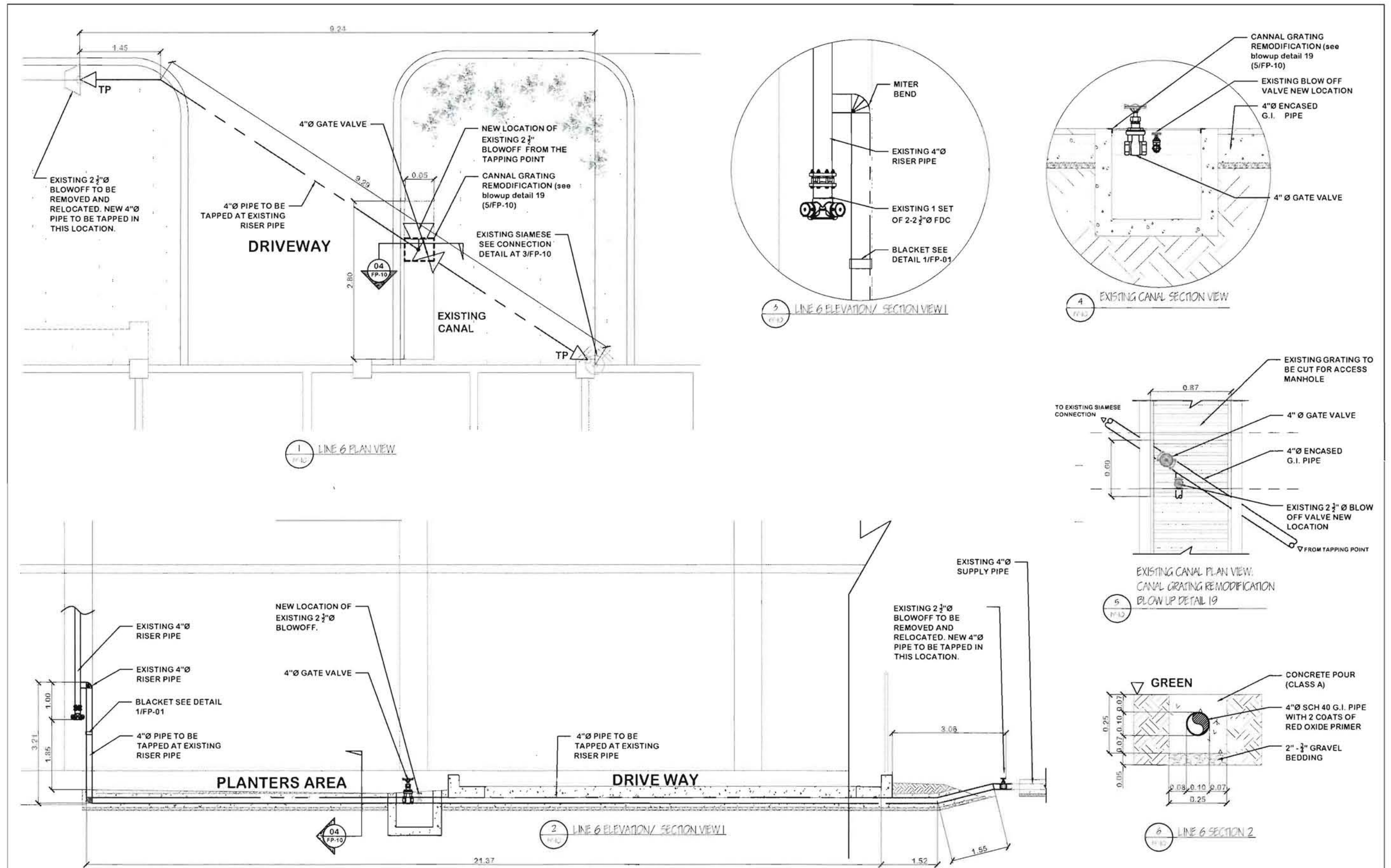






 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER		
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN DAVE O. ORMAZA ESD III Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMD	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LINE 4 PLAN VIEW LINE 4 SECTION/ELEVATION VIEW 1 LINE 4 SECTION/ELEVATION VIEW 2 LINE 4 SECTION 3 LINE 4 SECTION 4 LINE 4 SECTION 5 BLOW UP DETAILS	FP-08	11 15	
	LOCATION:					REV. NO. / DATE			
	LOAKAN, BAGUIO CITY					00			11-15-2021

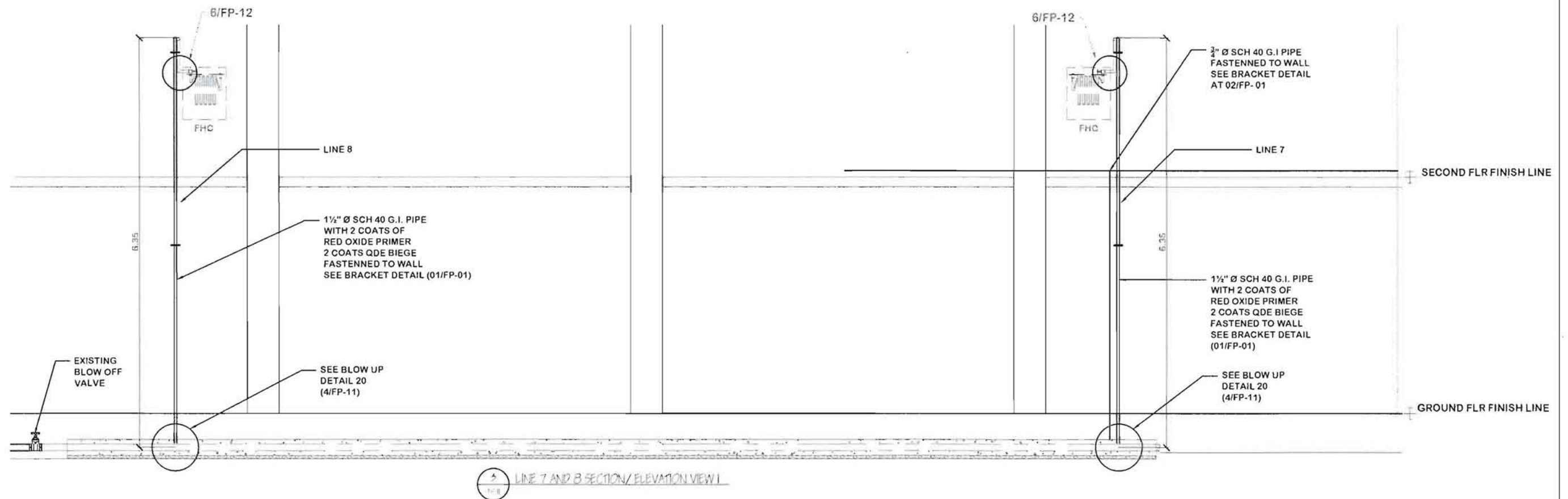
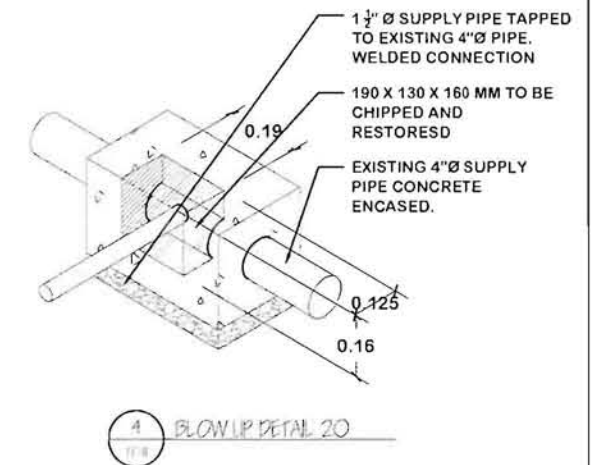
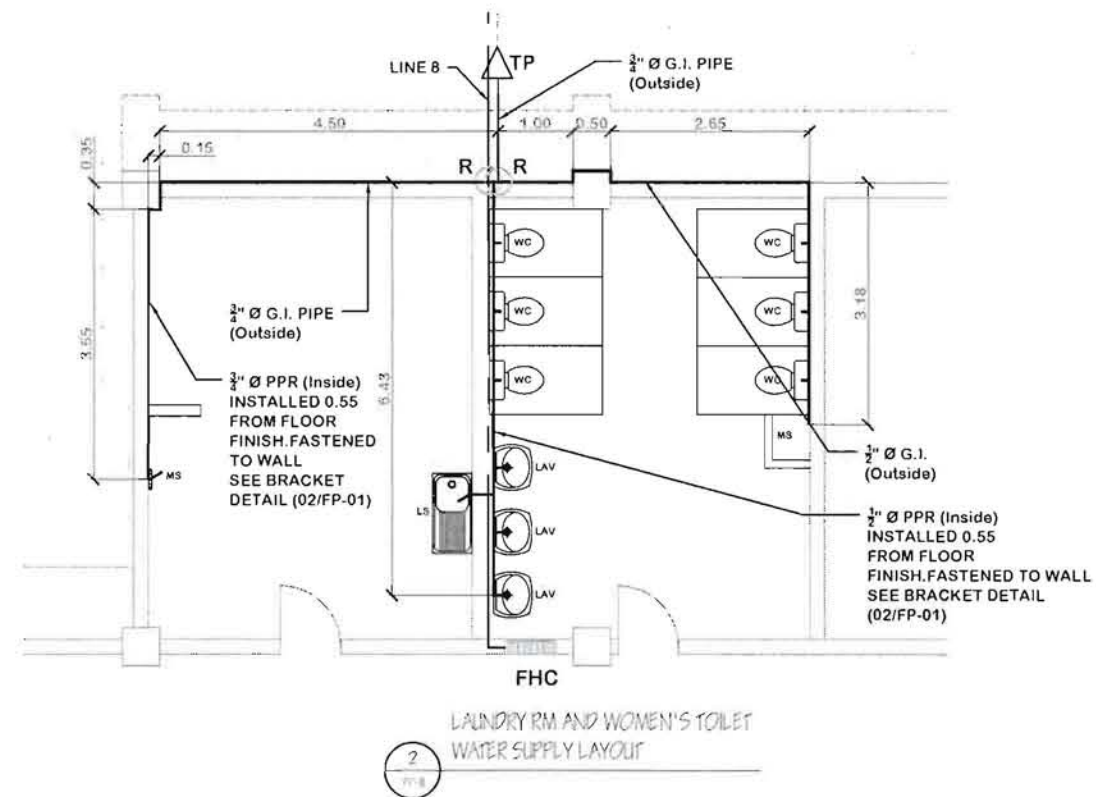
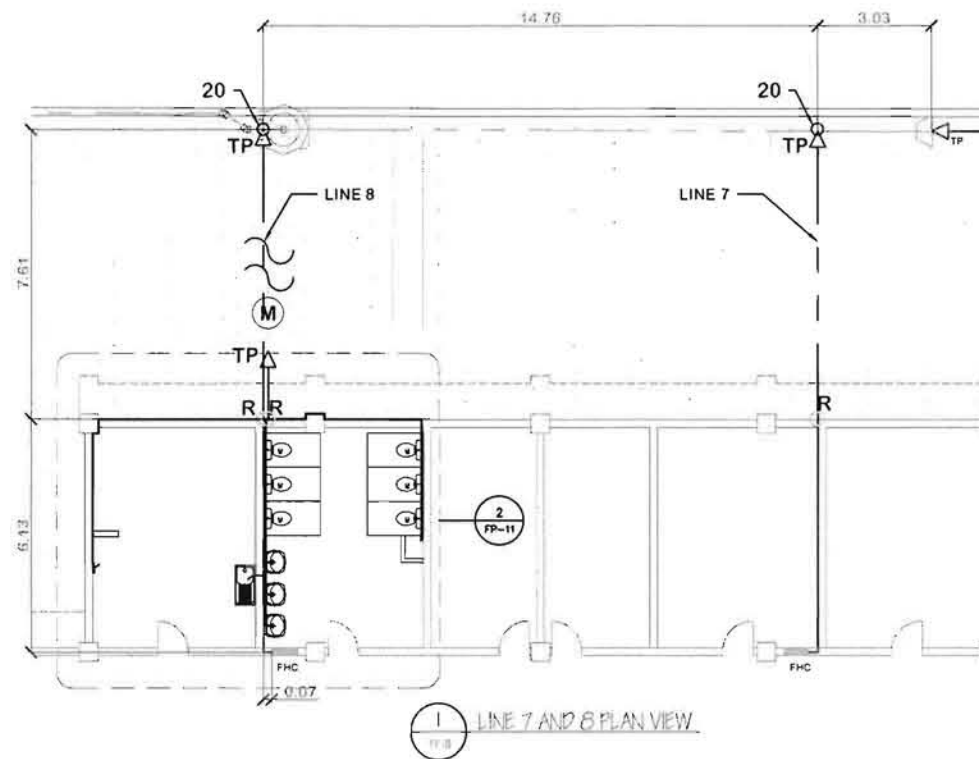










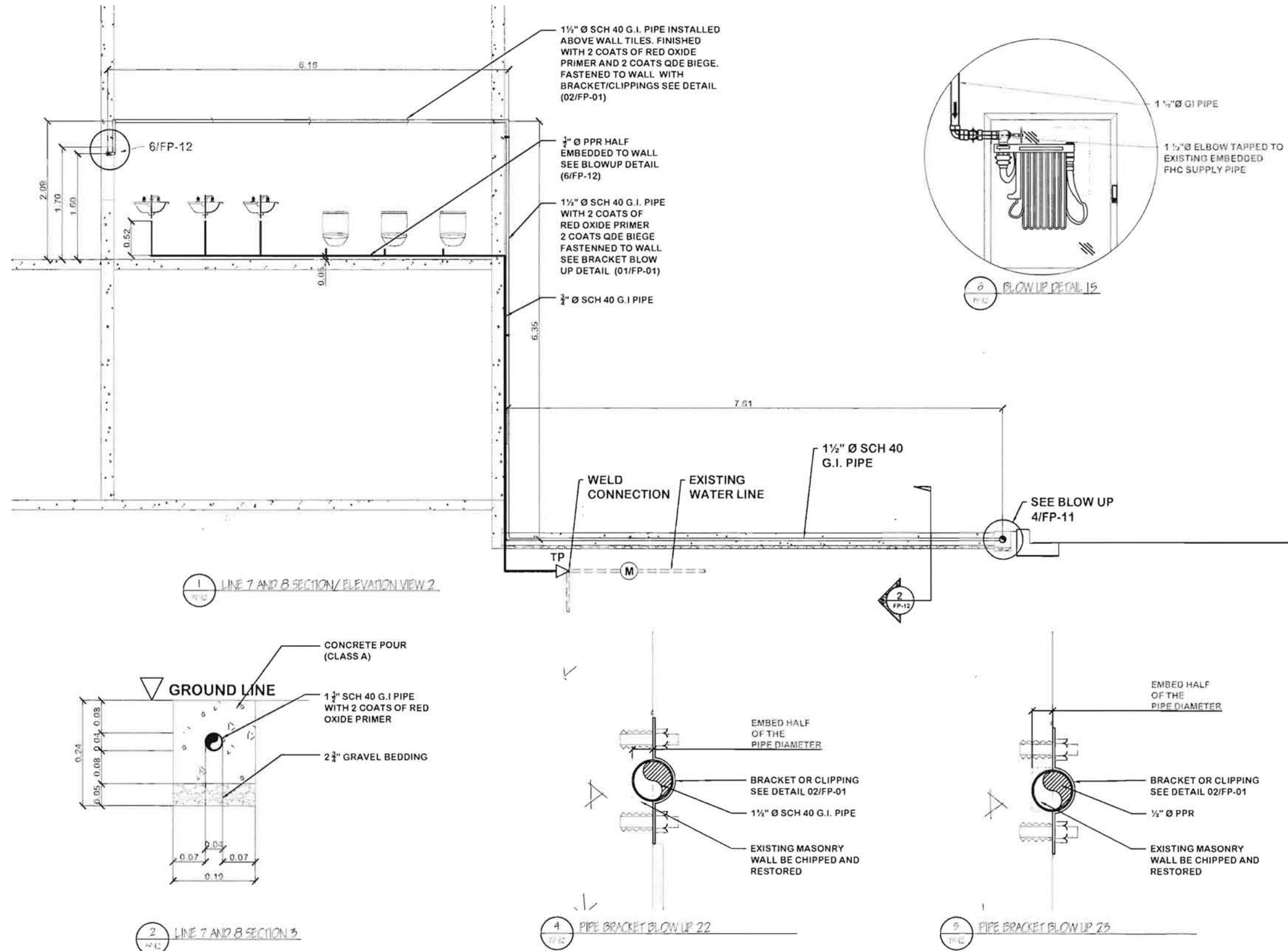






 <p>Philippine Economic Zone Authority</p>	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN URMAZA ESO II Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMO	 PAUL M. COBARRON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LINE 5 SECTION/ELEVATION VIEW 1 LINE 6 PLAN VIEW LINE 6 SECTION/ELEVATION VIEW 1 LINE 6 SECTION 2 EXISTING CANAL SECTION VIEW BLOW UP DETAILS	13 15
	LOCATION:						REV. NO. / DATE
	LOAKAN, BAGUIO CITY						00 11-15-2021



 <b>PEZA</b> Philippine Economic Zone Authority	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN URMАЗА ESO III Mechanical	 JOSEPH D. GALONG DIVISION CHIEF, EMD	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LINE 7 & 8 PLAN VIEW LINE 7 & 8 SECTION/ELEVATION VIEW I LAUNDRY RM AND WOMEN'S TOILET WATER SUPPLY LAYOUT BLOW UP DETAILS	FP-11
	LOCATION:						REV. NO. / DATE
	LOAKAN, BAGUIO CITY						00 11-15-2021





 <p>Philippine Economic Zone Authority</p>	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	RECOMMENDING APPROVAL BY:	APPROVED BY:	SHEET CONTENT:	SHEET NUMBER
	Installation of Wet Stand Pipe for SFB-1 and SFB-2	 BRYAN URMAZA ESO IV Mechanical	 JOSEPH C. GALONG DIVISION CHIEF, EMD	 PAUL M. CODAMON DEPARTMENT MANAGER, OPERATIONS	(original signed) ATTY. ROSS VINCENT S. SY OIC - ECONOMIC ZONE ADMINISTRATOR, BCEZ	LINE 7 & 8 SECTION/ELEVATION VIEW 2 BLOW UP DETAILS	FP-12
	LOCATION:						REV. NO. / DATE
	LOAKAN, BAGUIO CITY						00 / 11-15-2021

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

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
PART A	SITE PREPARATION				
Item A.1.	Clearing and Grubbing	sq.m.	189.00		
Item A.2.	Removal of Existing Pavement (Concrete - PCCP and Slab)	sq.m.	20.51		
Item A.3.	Removal of Existing Structure (Wall and Slab - Holes)	sq.m.	10.10		
Item A.4.	Removal of Existing Structure (Window)	each	2.00		
PART B	EARTHWORKS				
Item B.1.	Manual Structural Excavation (Common Soil)	cu.m.	15.36		
Item B.2.	Embankment (From Structural Excavation)	cu.m.	4.71		
Item B.3.	Gravel Bedding (G-1)	cu.m.	2.12		
PART C	CIVIL WORKS				
Item C.1.	Reinforcing Steel Bar, Grade 40	kgs.	141.08		
Item C.2.	Formworks	sq.m.	6.32		
Item C.3.	Concrete, 3500psi @ 28 days (Pedestal, Column, and Slab)	cu.m.	3.85		
Item C.4.	Concrete, 4000psi @ 7 days (PCC Pavement, with MS Plate(Rental))	cu.m.	4.14		
Item C.5.	Concrete, 3500psi @ 28 days (Pipe Encasement)	cu.m.	9.53		
Item C.6.	Structural Steel (Stairs - C-Purlins)	ln.m.	77.56		
Item C.7.	Structural Steel (Stairs - Angle Bars)	kgs.	167.76		
Item C.8.	Structural Steel (Stairs - G.I Pipe, Schedule 40 including Gusset/Steel Plates)	ln.m.	22.50		
Item C.9.	Structural Steel (Stairs - 2mm Stainless Steel Checkered Steel Plate, SS304)	sq.m.	46.81		
Item C.10.	Structural Steel (Stairs - Railings)	ln.m.	107.98		
Item C.11.	Manhole with Cover	each	1.00		

PART D	ARCHITECTURAL WORKS				
Item D.1.	Masonry Works (150mm CHB Load Bearing (Including Reinforcing Steel Bars and Plastering))	sq.m.	1.68		
Item D.2.	Windows (Aluminum Glass Window, Jalousie)	sq.m.	3.30		
Item D.3.	Doors (Fire Rated Fire Exit Steel Door with Door Jamb and Accessories)	sq.m.	3.78		
Item D.4.	Paintings Works (Masonry)	sq.m.	3.36		
Item D.5.	Paintings Works (Metal)	sq.m.	199.94		
PART E	FIRE PROTECTION WORKS				
Item E.1.	4" G.I. Pipe Line, Schedule 40	ln.m.	76.76		
Item E.2.	3" G.I. Pipe Line, Schedule 40 (Including Pipe Clamps)	ln.m.	93.46		
Item E.3.	2 1/2" G.I. Pipe Line, Schedule 40 (Including Pipe Clamps)	ln.m.	15.79		
Item E.4.	1 1/2" G.I. Pipe Line, Schedule 40 (Including Pipe Fittings and Pipe Clamps)	ln.m.	87.62		
Item E.5.	3/4" G.I. Pipe Line, Schedule 40 (Including Pipe Clamps)	ln.m.	16.16		
Item E.6.	3/4" PPR, PN20 (Including Pipe Fittings)	ln.m.	7.05		
Item E.7.	1/2" PPR, PN20 (Including Pipe Fittings)	ln.m.	17.16		
Item E.8.	Fire Hose Cabinet with Complete Accessories	sets	3.00		
Item E.9.	4" Non-Rising Stem Gate Valve	sets	3.00		
Item E.10.	2 1/2" Non-Rising Stem Gate Valve	sets	2.00		
Item E.11.	1 1/2" Non-Rising Stem Gate Valve	sets	2.00		
Item E.12.	3" x 2 1/2" Reducer	each	1.00		
Item E.13.	2 1/2" x 1 1/2" Reducer	each	1.00		
Item E.14.	2" x 1 1/2" Reducer	each	1.00		
Item E.15.	Standby Connection with 1/2" Gate Valve	sets	1.00		
PART F	OTHER GENERAL REQUIREMENTS				
Item F.1.	Mobilization/Demobilization	lot	1.00		



Item F.2.	Safety and Health Provision	lot	1.00		
Item F.3.	Provision of Power and Water Supply	lot	1.00		
	TOTAL				

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

### **ELIGIBILITY AND TECHNICAL DOCUMENTS CHECKLIST**

01. All submissions of the Bidder must clearly indicate the document number. For example, photocopy of valid PhilGEPS registration papers (i.e., 5 pcs) of “Bidder Company”, Eligibility Documents should be marked “E1~1”, “E1~2”, “E1~3”, “E1~4”, “E1~5” and “E1~6”, and Technical Documents “T1~1”, “T1~2”, “T1~3”, “T1~4”, “T1~5”, and “T1~6”.

02. On this checklist; the column “As Checked” shall be marked ...

- ☐ “**PASSED**” to indicate that said document was available; or
- ☐ “**FAILED**” when the document listed is not available in the bid proposal submitted; or
- ☐ “**NO NEED**” if the item in the checklist was not appropriate or no longer required.

03. At any stage of the procurement process, a proposal may still be declared “not eligible” or “failed” if the contents / substance of the submitted document is missing, or is found inappropriate, or does not comply with the given requirements for this transaction.

Bidding No. <b>PR21-11-090</b>		ABC: <b>₱ 1,489,031.33</b>	
Particulars: <b>“Installation of Wet Stand Pipe for SFB-1 and SFB-2”</b>			
Venue of Bid Opening: <b>3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City</b>		DATE & TIME of Bid Opening: <b>December 15, 2021 (Wed) at 1:30 PM</b>	
<b>BIDDER'S INFORMATION</b>	COMPANY NAME: ?		
	COMPANY HEAD OFFICE MAILING ADDRESS: ?		
	COMPANY WEBSITE OR EMAIL ADDRESS: ?		
Representative attending the Bidding:	NAME OF THE COMPANY REPRESENTATIVE: ?		
	POSITION TITLE OF THE COMPANY REPRESENTATIVE: ?		
JV info: IS THE BIDDER INTO JOINT VENTURE AGREEMENT WITH ANOTHER ENTITY/IES?		YES	NO

THE ELIGIBILITY DOCUMENTS		
PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines		
ELIGIBILITY DOCUMENTS	mark	As Checked
1) Current PhilGEPS Certificate of Registration - Platinum Membership or the following; o Registration Certificate; and o Valid Mayor's/Business Permit, or equivalent document; and o Current Tax Clearance Certificate (TCC) or equivalent document;	E1	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Statement of ALL ONGOING government and private contracts, including contracts awarded but not yet started, if any	E2	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Statement of a SINGLE LARGEST COMPLETED CONTRACT (SLCC) similar to the contract to be bid, per BDS Clause 5.2, and supported by photocopy of the following documents issued by the Owner of the project other than the contractor: <ul style="list-style-type: none"> <li>• Certificate of Completion or Final Acceptance, whichever is applicable; or</li> <li>• Any proof of documents to the Final Acceptance of the project (e.g. Official Receipt or Sales Invoice) issued by the project owner; or</li> <li>• Photocopy of final rating of at least Satisfactory in the Constructors Performance Evaluation System (CPES).</li> </ul>	E3	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) NFCC computation,	E4	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
5) Valid PCAB License and Registration with at least "Small B" (Size Range) and "C & D" (License Category) per BDS Clause 10.3	E5	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
6) If applicable, valid Joint Venture Agreement (JVA), 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, shall be included in the bid.	E6	<input type="checkbox"/> Passed <input type="checkbox"/> Failed <input type="checkbox"/> N/A
END OF ELIGIBILITY DOCUMENTS CHECKLIST		
BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED

THE TECHNICAL DOCUMENTS		
PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines		
TECHNICAL DOCUMENTS	mark	As Checked
1) Bid security in the prescribed form, amount and validity period, per BDS Clause 15.1.	T1	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Proposed Organizational Chart for the Project, per BDS Clause 21	T2	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Project Construction Schedule & Gantt Chart/S-Curve, per BDS Clause 21 under Technical Documents	T3	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) List of Bidder's Key Personnel for the Project, in Bidder's Letterhead, as per BDS Clause 10.4 together with the prescribed Key Personnel Curriculum Vitae	T4	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
5) Proposed Manpower and Equipment Utilization Schedule, per BDS Clause 21	T5	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
6) Duly Notarized Omnibus Sworn Statement	T6	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
END OF TECHNICAL DOCUMENTS CHECKLIST		
BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED

## CHECKLIST No. 2: FINANCIAL DOCUMENTS

01. All submissions of the Bidder must clearly indicate the document number. For example, the financial documents F01-FINANCIAL PROPOSAL FORM (e.g, 4 pcs) should be marked “F01~1”, “F01~2”, “F01~3”, and “F01~4”.

02. On this checklist; the column “As Checked” shall be marked ...

- ☐ “PASSED” to indicate that said document was available; or
- ☐ “FAILED” when the document listed is not available in the bid proposal submitted;

03. At any stage of the procurement process, a proposal may still be declared “not eligible” or “failed” if the contents / substance of the submitted document is missing, or is found inappropriate, or does not comply with the given requirements for this transaction.

Bidding No. <b>PR21-11-090</b>		ABC: <b>₱ 1,489,031.33</b>	
Particulars: <b>“Installation of Wet Stand Pipe for SFB-1 and SFB-2”</b>			
Venue of Bid Opening: <b>3F Conference Room, Admin Building, Baguio City Economic Zone, Loakan Road, Baguio City</b>		DATE & TIME of Bid Opening: <b>December 15, 2021 (Wed) at 1:30 PM</b>	
<b>BIDDER'S INFORMATION</b>	COMPANY NAME: ?		
	COMPANY HEAD OFFICE MAILING ADDRESS: ?		
	COMPANY WEBSITE OR EMAIL ADDRESS: ?		
Representative attending the Bidding:		NAME OF THE COMPANY REPRESENTATIVE: ?	
		POSITION TITLE OF THE COMPANY REPRESENTATIVE: ?	
JV info: IS THE BIDDER INTO JOINT VENTURE AGREEMENT WITH ANOTHER ENTITY/IES?		YES	NO

PEZA-BCEZ DOES NOT ALLOW ANY BIDDER from any country outside the Philippines

FINANCIAL DOCUMENTS	mark	As Checked
1) FINANCIAL BID FORM as prescribed	F01	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
2) Duly signed Bill-of-Quantities (BOQ) as prescribed	F02	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
3) Detailed Unit Price Analysis (DUPA)	F03	<input type="checkbox"/> Passed <input type="checkbox"/> Failed
4) Payment Schedule as prescribed in per BDS Clause 11.1, item no. (d).	F04	<input type="checkbox"/> Passed <input type="checkbox"/> Failed

END OF FINANCIAL PROPOSAL COMPONENT CHECKLIST

BAC's Remarks:	<input type="checkbox"/> PASSED	<input type="checkbox"/> FAILED	
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## A. Bid Form

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

IB N<sup>o</sup>: **PR21-11-090**

To: **ATTY. ROSS VINCENT S. SY**  
OIC, BCEZ

Address: *PEZA Admin Building, Baguio City Economic Zone, Baguio City*

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract “***Installation of Wet Stand Pipe for SFB-1 and SFB-2***”;
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

The total price of our Bid, excluding any discounts offered below is: [insert information];

The discounts offered and the methodology for their application are: [insert information];

- (c) Our Bid shall be valid for a period of [insert number] days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of [insert percentage amount] percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: [insert information];
- (f) 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;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) 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
- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.

- (j) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the “*Installation of Wet Stand Pipe for SFB-1 and SFB-2*” of the *Philippine Economic Zone Authority – Baguio City Economic Zone*.
- (k) 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: \_\_\_\_\_

In the capacity of: \_\_\_\_\_

Signed: \_\_\_\_\_

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

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

Contract Name:  
Location of the Project:

### CURRICULUM VITAE

Proposed Position: \_\_\_\_\_  
Name of Firm: \_\_\_\_\_  
Name of Staff: \_\_\_\_\_  
Profession: \_\_\_\_\_  
Date of Birth: \_\_\_\_\_  
Tax Identification No. (TIN) \_\_\_\_\_  
Years with Firm/Entity: \_\_\_\_\_ Nationality: \_\_\_\_\_  
Membership in Professional Societies: \_\_\_\_\_  
\_\_\_\_\_  
Detailed Tasks Assigned: \_\_\_\_\_  
\_\_\_\_\_

#### Key Qualifications:

*[Give an outline of staff member's experience and training most pertinent to tasks on project. Describe degree of responsibility held by staff member on relevant previous projects and give dates and locations. Use about half a page.]*

#### Education:

*[Summarize college/university and other specialized education of staff members, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]*

#### Employment Record:

*[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of projects. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]*

#### Languages:

*[For each language, indicate proficiency: excellent, good, fair, or poor in speaking, reading, and writing.]*

#### Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.

\_\_\_\_\_  
[Signature of staff member and authorized representative of the firm]

Date: \_\_\_\_\_  
Day/Month/Year

Full name of staff member: \_\_\_\_\_  
Full name of authorized representative: \_\_\_\_\_



# NET FINANCIAL CONTRACTING CAPACITY

## INSTRUCTIONS to BIDDERS:

**01.** THIS FORM SHOULD BE ACCOMPLISHED USING THE BIDDER'S LETTERHEAD, SIGNED COPY SHOULD BE SUBMITTED AS PART OF THE ELIGIBILITY DOCUMENTS MARKED AS "E04";

- A. Summary of the Applicant/Bidder'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.

	Particulars	Source Document	Amount
	Current Assets	Balance Sheet Audited FS (2019)	
	Minus: Current Liabilities	Balance Sheet Audited FS (2019)	
	<b>Sub-Total</b>		
	Multiplied by 15		
	<b>Sub-Total</b>		
	Minus: Value of Outstanding Contracts		
	<b>NFCC</b>		

Note: The NFCC amount must be **at least equal** to the ABC to be bid (Based on the 2016 IRR of RA9184 Rule VIII Section 23.4.1.4).

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

NFCC = [(current assets minus current liabilities) **times** (15)] **minus** [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].

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

**Herewith attached are certified true copies of the Income Tax Return (filed through the Electronic Filing and Payments System (EFPS) and Audited Financial Statement: stamped "RECEIVED" by the BIR or BIR authorized collecting agent for the immediately preceding year.**

SIGNATURE OF THE AUTHORIZED REPRESENTATIVE:	
NAME OF THE AUTHORIZED REPRESENTATIVE:	
POSITION TITLE OF AUTHORIZED REPRESENTATIVE:	
POSTAL ADDRESS:	
TELEPHONE NUMBER:	
EMAIL ADDRESS:	

## NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

