



## **APPENDIX A**

# **STORMWATER MANAGEMENT SYSTEM MAINTENANCE PHASE II (FUJITA PONDING BASIN)**

# **SCOPE OF WORK**

## PROJECT DESCRIPTION AND SUMMARY

The Guam Visitors Bureau “GVB” is a non-stock, non-profit membership corporation which by legal authority leads Guam’s efforts to maintain and improve Guam’s tourism industry.

Tumon Bay (Tomhum Bay) is the heart of the tourist district. Its main artery, Chalan San Vitores (also San Vitores Boulevard) connects the entire district from north to south. Chalan San Vitores sees thousands of local residents and visitors daily along its streets and sidewalks. As such it must be maintained to provide the safest, cleanest experience possible for residents, employees and visitors.

Integral parts of this maintenance requirement include maintenance and upkeep of the stormwater management system along the entire length of Chalan San Vitores. The maintenance sectors include Gogña Beach Road, Australian Cable Road, JFK Road and Ypao Road. As part of its maintenance program GVB is inviting bids from qualified and responsive construction providers for the:

### STORMWATER MANAGEMENT SYSTEM MAINTENANCE PHASE II (FUJITA PONDING BASIN)

The scope of work for this project is for the maintenance of the Fujita Ponding Basin. It includes preparatory and closeout work and operations, including but not limited to mobilization, cleanup, construction survey and staking, installation and maintenance of erosion control BMP’s, monitoring and protective measures required for the protection of the resident moorhens, removal and disposal of silt final cleanup and demobilization.

The work includes furnishing labor, equipment and material required for preparation, demolition, silt removal, grading, construction, restoration and cleanup at the Fujita Ponding Basin. All signage, pond access ramp, chain-link fencing and gates are included. Item includes silt removal and grading to elevations shown in the attachments, restoration of pond maintenance access ramp, temporary access ramp where required, storage, loading, hauling, dewatering and restoration of disturbed areas.

The Contractor shall be solely responsible for performing all work and for furnishing all materials, labor, supplies and parts inventory and equipment necessary to complete the Work; and including all permits and clearances to conduct the work.

Limits of work are along and within the Fujita Ponding Basin located downstream adjacent to STA 51+20. The project area is limited to the ponding basin proper, its banks and inlets.

No digging or trenching away from the Ponding Basin is anticipated. Dewatering facilities or measures may be required. The Contractor shall prevent runoff from entering the Fujita Ponding Basin, and all removed materials must be disposed of in accordance with Guam Environmental Protection Agency requirements and in no case left on-site.

The Contractor shall comply with all regulatory, permitting, documentation and monitoring required by Guam and Federal law and regulations. These include but are not limited to preparing, submitting and paying for permit documentation and processing; all activities required to develop and conduct threatened and endangered species monitoring and protection; clearances required for archaeological monitoring and documentation in compliance with the Work Management Summary approved by the Guam Historic Preservation Office requirements. The latter task does not involve extraction, processing or removal of historic remains should any be encountered.

The work requires temporary erosion and sediment control measures. The Contractor will provide labor, equipment, material and all work required for installation, monitoring, inspection, maintenance, removal and incidental work associated with erosion and sediment control measures. These include but are not limited to silt fences, temporary seeding, biorolls, inlet protection, rock-lined construction entrance and BMP's to prevent erosion, water and air pollution all in compliance with regulatory requirements. While justified material and equipment purchases and installation purchases may be requested upon installation of the BMP's, some amounts will be required to be pro-rated through the life of the project.

The GVB will assist with permit clearances but the Contractor must provide all necessary documentation including the Environmental Protection Plan, the Moorhen protection plan and the Disposal Plan, among others.

The Contractor shall make necessary assessments and diagnoses of existing facilities prior to work ensure proper materials are on hand. The contractor is also responsible for utilities coordination and clearances.

Work shall be scheduled, sequenced, and performed in a manner which minimizes disruption to the public. When activated the Contractor shall prepare daily QC (Quality Control) Reports and Contractor Production Reports submitted to GVB via its Construction Manager for approval. The Contractor shall provide daily report photographs taken prior construction and after finishing work for each aspect of the work.

This is a fixed cost maintenance agreement and a project schedule is required with the bid submission to indicate the schedule and completion of work to be completed within 120 days of receipt of required permits or maintenance-type clearances, whichever first occurs.

By Thursday of the week preceding the weekly project meeting, the Contractor shall regularly incorporate construction and schedule information in preparing a “Look-Ahead” Schedule. The schedules shall include the Contractor's activities necessary to satisfy all requirements of the Contract Documents.

The Work shall be performed and coordinated in such order or precedence as determined by the Contractor, subject to the conditions and the approval of the Construction Manager. Each completed section of culvert shall be inspected and approved by Construction Manager prior payment.

The Contractor shall coordinate traffic disruptions with the Department of Public Works, the Guam Fire Department, the Guam Police Department and the Guam Visitors Bureau.

The work also includes Engineering Supervision, QC and Safety, Traffic Control / Rerouting, Environmental Protection Provisions – BMP Installation and Maintenance, Coordination with Mayor’s Office and GVB, Weekly Meeting with GVB Rep and Others and Mobilization and Field Office.

Excluded work items are cleaning of Fujita Infiltration Chambers, repair of any damage not caused by the Contractor (e.g., Apron, Wingwall, Etc).

### **Time of Completion**

The Contractor shall begin Work upon the date of the Notice to Proceed and shall complete all Work under the Contract as follows:

- Inspection of Fencing, Banks and Existing Ponding Basin Conditions
- Work Plan and Schedule
- Permits and Clearances
- Safety and Warning Measures
- Monitoring and Protection of the Resident Moorhens
- Dewatering Measures
- Desilting and Cleaning of the Fujita Ponding Basin
- Disposal of Removed Sediment
- Final Cleanup

The foregoing are provided as guidelines and all work to be done is likely not included in the list. In this case the Contractor shall submit a schedule of when such work shall be done. The schedule is subject to mutual agreement among GVB, the Construction Manager and the Contractor. In case of disagreement, the final decision shall be by GVB.

## **Payment**

Certify and sign statement on each invoice that all work to be paid under the invoice has been completed in accordance with contract requirements.

Invoices shall be submitted first to the Construction Manager for review and processing. Upon approval with or without notations or exceptions, the CM shall forward to the GVB for processing.

## **Safety**

The Stormwater Management System along Chalan San Vitores including the Fujita Ponding Basin is important for public health and safety. The Contractor shall schedule and conduct activities to enable the existing facilities to operate continuously, unless otherwise approved by Construction Manager.

The Contractor must have a Safety Officer on staff with the appropriate certifications. Personnel working on electrical systems including generators and temporary lighting must be supervised by a competent technician and must be trained in safety procedures.

Appropriate safety certifications shall be current for any personnel working on high-lift bucket truck, in water deeper than 2', ladder and extended ladder work, confined spaces, electrical equipment and traffic safety.

The Contractor must be aware that a significant portion of this work will take place in water and certification of adequate training, ventilation, safety and emergency response measures will be required prior to any work taking place in confined spaces.

The Contractor shall comply with all applicable laws and regulations relating to the safety of persons or property or to the protection of persons or property from damage, injury, or loss and shall erect and maintain all necessary safeguards for such safety and protection. The Contractor shall be responsible for preventing health hazards arising from work related activities of its employees. Persons shall be afforded safe passages around areas of demolition.

The Contractor shall exercise care in preserving vegetation and protecting property, to avoid disturbing areas beyond the limits of the Work and promptly repair any damage caused by Contractor operations.

Stock piles of earth and other construction-related materials shall be protected from being transported from the Site by wind or water.

Traffic Control when required shall comply with the requirements of the Guam Police Department and the Department of Public Works. This traffic control is anticipated to be required primarily when work is being setup adjacent to travelways or equipment is entering or exiting the worksite.

In all cases the provisions for safety must adhere to the Manual on Uniform Traffic Control Devices (MUTCD) including the provisions for pedestrian and bicycle traffic, OSHA requirements for the protection of workers and others, permits or notifications required by the Guam Police Department and applicable sections of the Guam Building Code including the NFPA, the NEC and IBC 2009.

All work must be accompanied by a pre-work safety meeting (tailgate or otherwise), and an AHA must be submitted for any types of work under this contract. The AHA should include confined space procedures.

## **Background**

The modern evolution of the Pale San Vitores Road in Tomhum first began in 1978 when infrastructure including stormwater management systems was upgraded to enhance collection, conveyance, storage and treatment of runoff.

The complete reconstruction of Pale San Vitores began in 1996 through 2000 as part of the Tumon Bay Infrastructure and Beautification Project (TBIB), a special bond-funded capital improvement. Under this reconstruction modern signalized intersections connected the five-lane (centerlane included) highway along the entire length of the Tomhum Bay Hotel District.

Phase I of this project consisted of the reconstruction of Pale San Vitores from its intersection at the Australian Cable intersection at Marine Drive to the Westin then through the Happy Landing Road intersection. This segment also included a stretch of Gogña Road from the Westin to the Nikko Hotel intersection. This reconstruction included infrastructure upgrades for water, sewer, electrical, cable, communications, stormwater, roadways and sidewalks and the construction of the Fujita Ponding Basin and Infiltration Field.

Phase II consisted of the same from Happy Landing Road up to the rotunda at the Pale San Vitores/Chalan San Antonio intersection.

The ponding basin was last cleaned in 2016.

The appendix contains information including the project plan and locations of Manholes and access points to the Fujita Ponding Basin.

The Contractor shall refer to the Appendix which contains details in the form of drawings and other information. The Contractor shall verify the scope of the Work. The Contractor shall comply with the maintenance and guarantee requirements.

## **Materials**

No long lead materials are anticipated for this project.

Removed ponding basin sediment and trash will be properly disposed of at authorized locations and transported by authorized handlers and haulers.

## **Inspection and Testing**

All applicable tests, special inspections, and observations required by the contract shall be approved by the Construction Manager.

Perform and participate in Pre-Final and Final Inspection of every task. Submit a list of deficiencies to the Construction Manager for each inspection. Correct all deficiencies prior to the Final inspection. Notify Construction Manager prior to final inspection to establish a schedule date acceptable by the Construction Manager. This provision is applicable to each and every repair or servicing task from simple replacement to complete redo's.

The Contractor shall maintain a testing and inspection plan and log.

## **Other**

The Contractor shall be expected to be able to respond to emergency requirements which may include temporary warning signs, barricades, flashing messaging indicators (trailerable) and temporary concrete or pavement repairs.

Appropriate safety certifications shall be current for any personnel working on high-lift bucket trucks, confined spaces, electrical equipment, mechanized equipment such as backhoes, dump trucks and "Bobcats" for example, and traffic safety.

The Contractor must have established procedures for all work being performed under this contract including emergency instructions, first aid/CPR assistance and emergency contact information.

No roads or lanes shall be closed without a 5-day notice to GVB except in cases of emergencies. Such emergencies shall be immediately brought to the attention of GVB.

Refer to the Appendices for additional data and information.

**BID SCHEDULE**

**STORMWATER MANAGEMENT SYSTEM  
 MAINTENANCE  
 PHASE II  
 (FUJITA PONDING BASIN)  
 BID SCHEDULE**

BID ITEM NO.	BID ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE <sup>(1)</sup>	BID AMOUNT <sup>(1)</sup>
1.0	Mobilization	1	Lump Sum		
2.0	Traffic Control / Safety Measures	1	Lump Sum		
3.0	Safety Plan	1	Lump Sum		
4.0	Quality Control, Engineering & Technical	1	Lump Sum		
5.0	Erosion & Sediment Control	1	Lump Sum		
6.0	Disposal, Including Fees	1	Lump Sum		
7.0	Vacuum Truck	21	Day		
8.0	Dump Trucks	45	Day		
9.0	Excavator, Track-Mounted	60	Day		
10.0	Dewatering	1	Lump Sum		
11.0	Wildlife (Pulåttat) Monitoring	1	Lump Sum		
12.0	Moorhen Shelters, Buffer & BMP's	1	Lump Sum		
13.0	De-Mobilization and Cleanup	1	Lump Sum		
	FORCE ACCOUNT	1	Lump Sum	\$ 50,000.00	\$ 50,000.00
<b>TOTAL BID AMOUNT</b>					

(1) These Columns MUST be filled in by Contractor at the Time of Bid.

General Notes: Any Other Work Items in Support of the Work shall be Considered Incidental to the Work and Will not be Considered for Billing.

Any Equipment Not Listed Here shall be considered Incidental.

Leave no blank columns – if Costs for Any Bid Item are N/A or \$ 0.00, Insert \$ 0.00.

The Total Bid Amount Under Column must be a an Accurate Sum of all Items 1.0 through 13.0 under the “BID AMOUNT” Column. An Inaccurate Sum Will be Cause for Automatic Disqualification.

## EXHIBITS

- A-1: Fujita Ponding Basin Vicinity Map
- A-2: Fujita Ponding Basin Demolition Plan – 2014: For Reference Only
- A-3: Fujita Ponding Basin Grading Plan – 2014: For Reference Only
- A-4: Fujita Ponding Basin Silt Detention & Sediment Trap Site Plan
- A-5: Dewatering Sediment Trap Plan and Section



# FUJITA PONDING BASIN BOX CULVERT COLLECTION SYSTEM

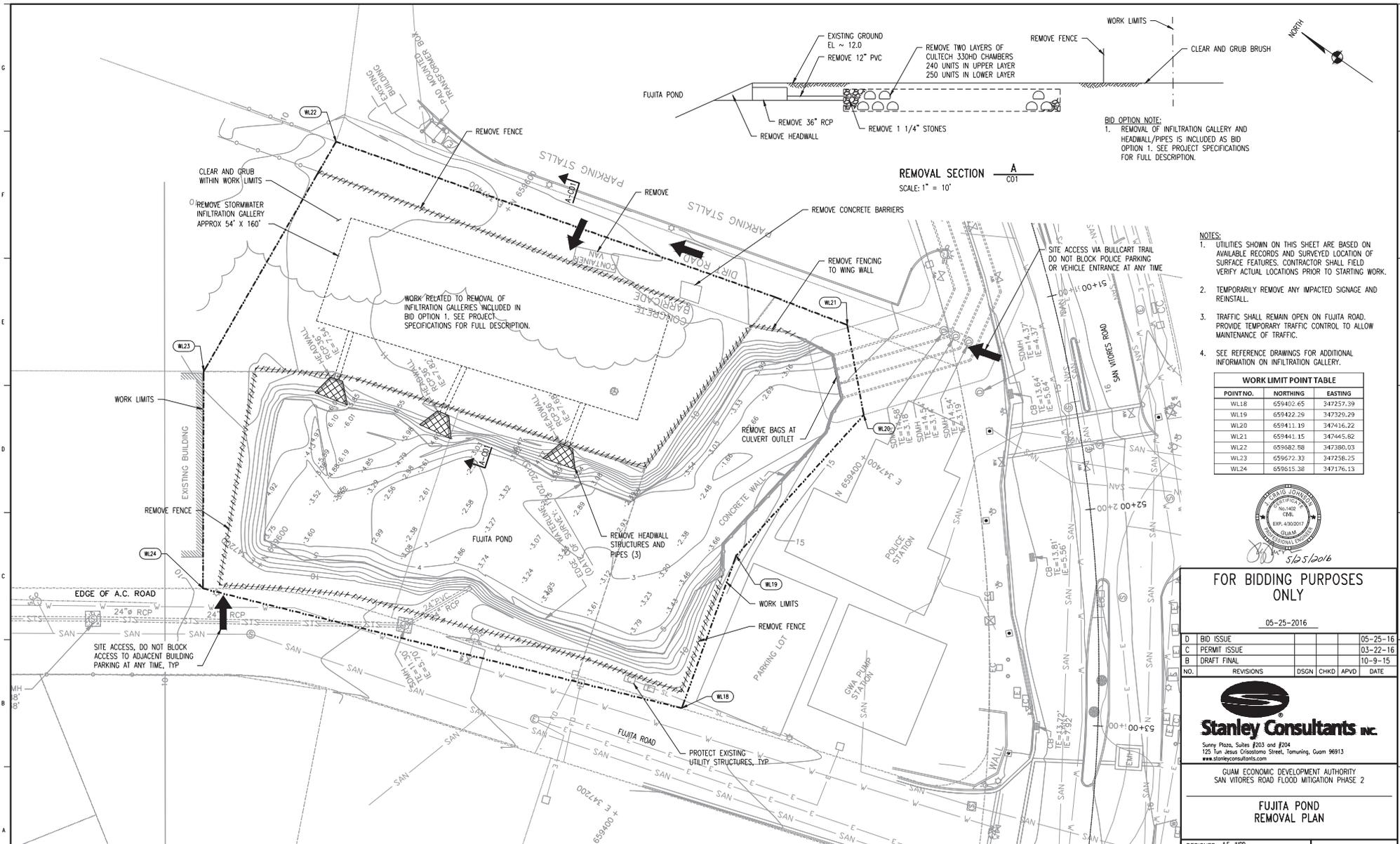
VICINITY MAP  
Scale: NTS

Prepared by:



for:  
Guam Visitors Bureau

Photo Source: Google Earth



**BID OPTION NOTE:**  
 1. REMOVAL OF INFILTRATION GALLERY AND HEADWALL/PIPES IS INCLUDED AS BID OPTION 1. SEE PROJECT SPECIFICATIONS FOR FULL DESCRIPTION.

**REMOVAL SECTION A-A**  
 SCALE: 1" = 10'

- NOTES:**
- UTILITIES SHOWN ON THIS SHEET ARE BASED ON AVAILABLE RECORDS AND SURVEYED LOCATION OF SURFACE FEATURES. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATIONS PRIOR TO STARTING WORK.
  - TEMPORARILY REMOVE ANY IMPACTED SIGNAGE AND REINSTALL.
  - TRAFFIC SHALL REMAIN OPEN ON FUJITA ROAD. PROVIDE TEMPORARY TRAFFIC CONTROL TO ALLOW MAINTENANCE OF TRAFFIC.
  - SEE REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION ON INFILTRATION GALLERY.

**WORK LIMIT POINT TABLE**

POINT NO.	NORTHING	EASTING
WL18	659402.65	347257.39
WL19	659422.29	347326.29
WL20	659411.19	347416.22
WL21	659441.15	347445.82
WL22	659682.88	347380.03
WL23	659672.33	347258.25
WL24	659615.38	347176.13



**FOR BIDDING PURPOSES ONLY**

05-25-2016

D	BID ISSUE			05-25-16	
C	PERMIT ISSUE			03-22-16	
B	DRAFT FINAL			10-9-15	
NO.	REVISIONS	DSGN	CHKD	APVD	DATE

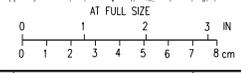
**Stanley Consultants Inc.**  
 Sunny Plaza, Suites #203 and #204  
 125 Tun Jesus Cissostomo Street, Tamuning, Guam 96913  
 www.stanleyconsultants.com

GUAM ECONOMIC DEVELOPMENT AUTHORITY  
 SAN VITORRES ROAD FLOOD MITIGATION PHASE 2

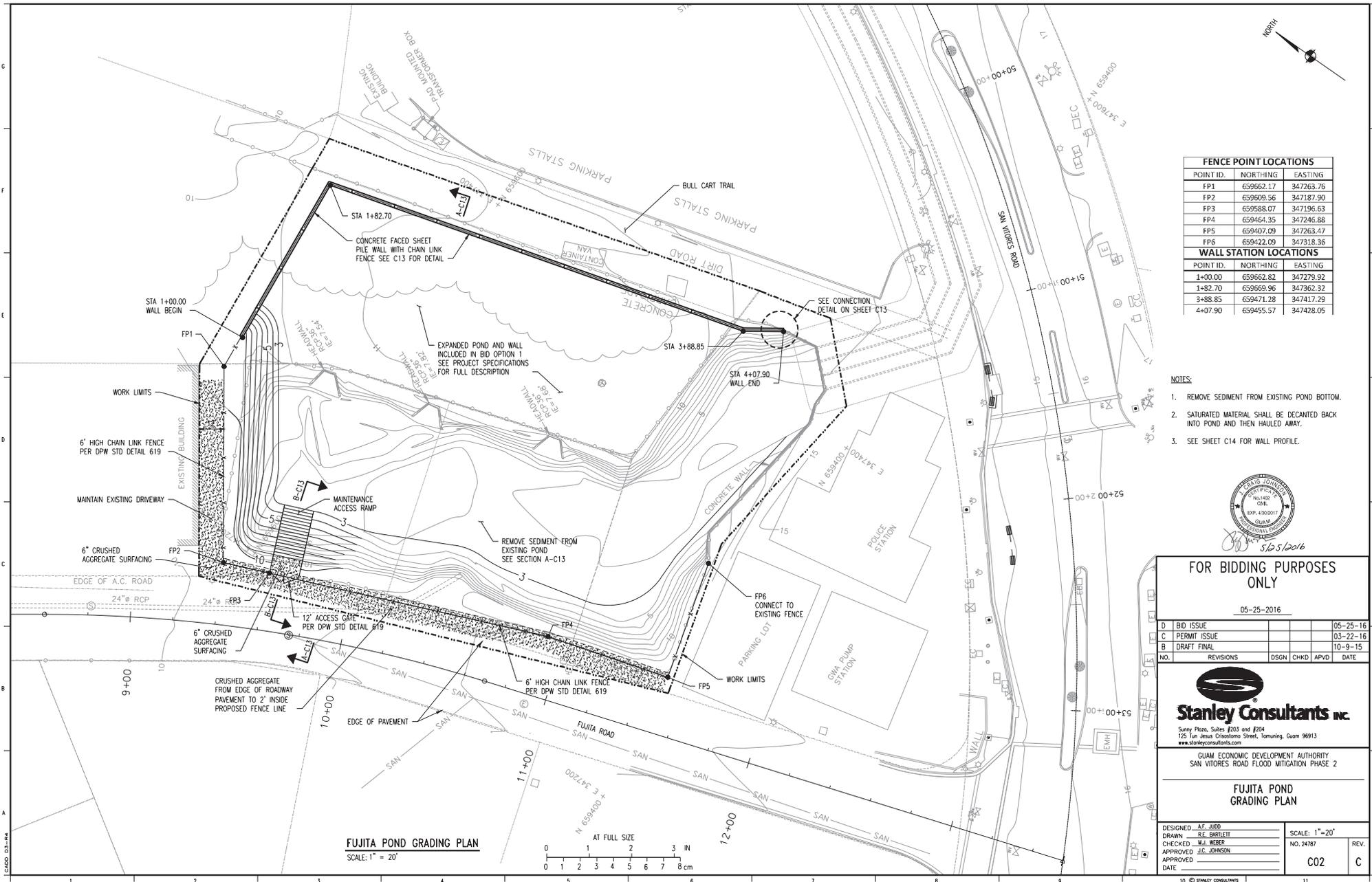
**FUJITA POND  
 REMOVAL PLAN**

DESIGNED: AF. JUD	SCALE: AS NOTED	REV.
DRAWN: RE. BARILETTI	NO. 24787	
CHECKED: W.J. WILBER		
APPROVED: J.E. JOHNSON		
APPROVED:		
DATE:		

**FUJITA POND EXPANSION - REMOVAL PLAN**  
 SCALE: 1" = 20'



CAD: 03-14



FENCE POINT LOCATIONS		
POINT ID.	NORTHING	EASTING
FP1	659662.17	347263.76
FP2	659609.56	347187.90
FP3	659588.07	347196.63
FP4	659464.35	347246.88
FP5	659407.09	347263.47
FP6	659422.09	347318.36

WALL STATION LOCATIONS		
POINT ID.	NORTHING	EASTING
1+00.00	659662.82	347279.92
1+82.70	659669.96	347362.32
3+88.85	659471.28	347417.29
4+07.90	659455.57	347428.05

- NOTES:
1. REMOVE SEDIMENT FROM EXISTING POND BOTTOM.
  2. SATURATED MATERIAL SHALL BE DECANTED BACK INTO POND AND THEN HAULED AWAY.
  3. SEE SHEET C14 FOR WALL PROFILE.



**FOR BIDDING PURPOSES ONLY**

05-25-2016

D	BID ISSUE			05-25-16
C	PERMIT ISSUE			03-22-16
B	DRAFT FINAL			10-9-15

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

**Stanley Consultants Inc.**

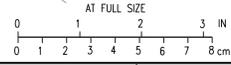
Sunny Plaza, Suites #203 and #204  
125 Tun Jesus Cristostomo Street, Tamuning, Guam 96913  
www.stanleyconsultants.com

GUAM ECONOMIC DEVELOPMENT AUTHORITY  
SAN VITORRES ROAD FLOOD MITIGATION PHASE 2

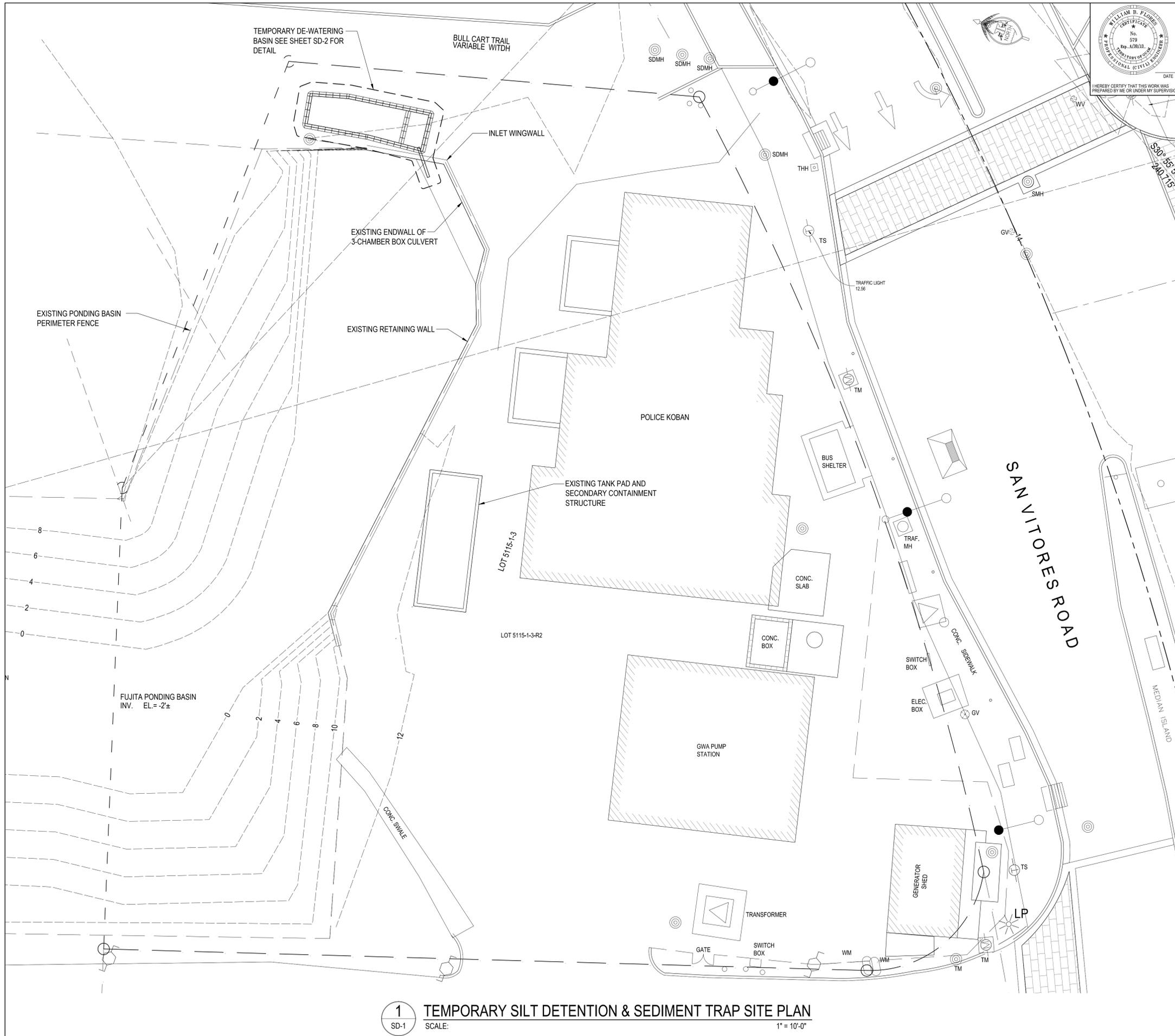
**FUJITA POND GRADING PLAN**

DESIGNED: AF. JIHO	SCALE: 1"=20'
DRAWN: RE. BARILETTI	NO. 24787
CHECKED: M.J. WILBER	REV. C
APPROVED: J.C. JENKINSON	
APPROVED: _____	
DATE: _____	

**FUJITA POND GRADING PLAN**  
SCALE: 1" = 20'



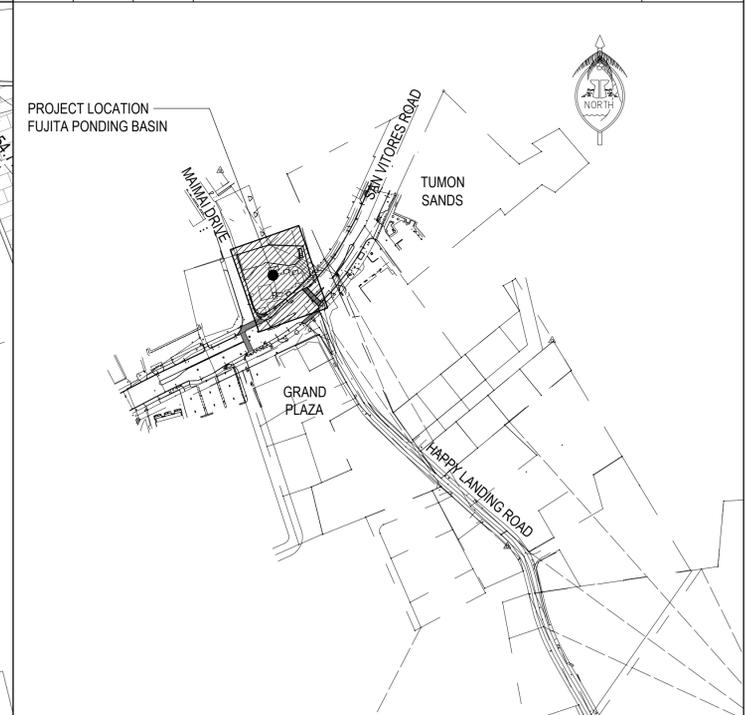
CAD: 03-184



WILLIAM B. FLORES  
 CERTIFICATE  
 No. 579  
 Exp. 4/28/19  
 PROFESSIONAL (CIVIL) ENGINEER

DATE \_\_\_\_\_  
 I HEREBY CERTIFY THAT THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

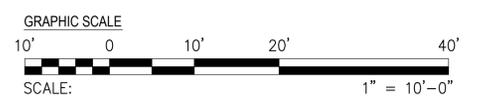
TERRITORY	VILLAGE	PROJECT	PROJECT NO.	DRAWING NO.	SHEET
GUAM	TUMON	TEMPORARY SILT DETENTION & SEDIMENT TRAP FUJITA PONDING BASIN MAINTENANCE	G-TTB-0024-TAMA	SD-1	1 OF 2
REVISION	DATE	BY	DESCRIPTION	APPROVED	

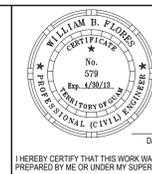


**2 KEY PLAN**  
 C-6 SCALE: 1" = 250'-0"

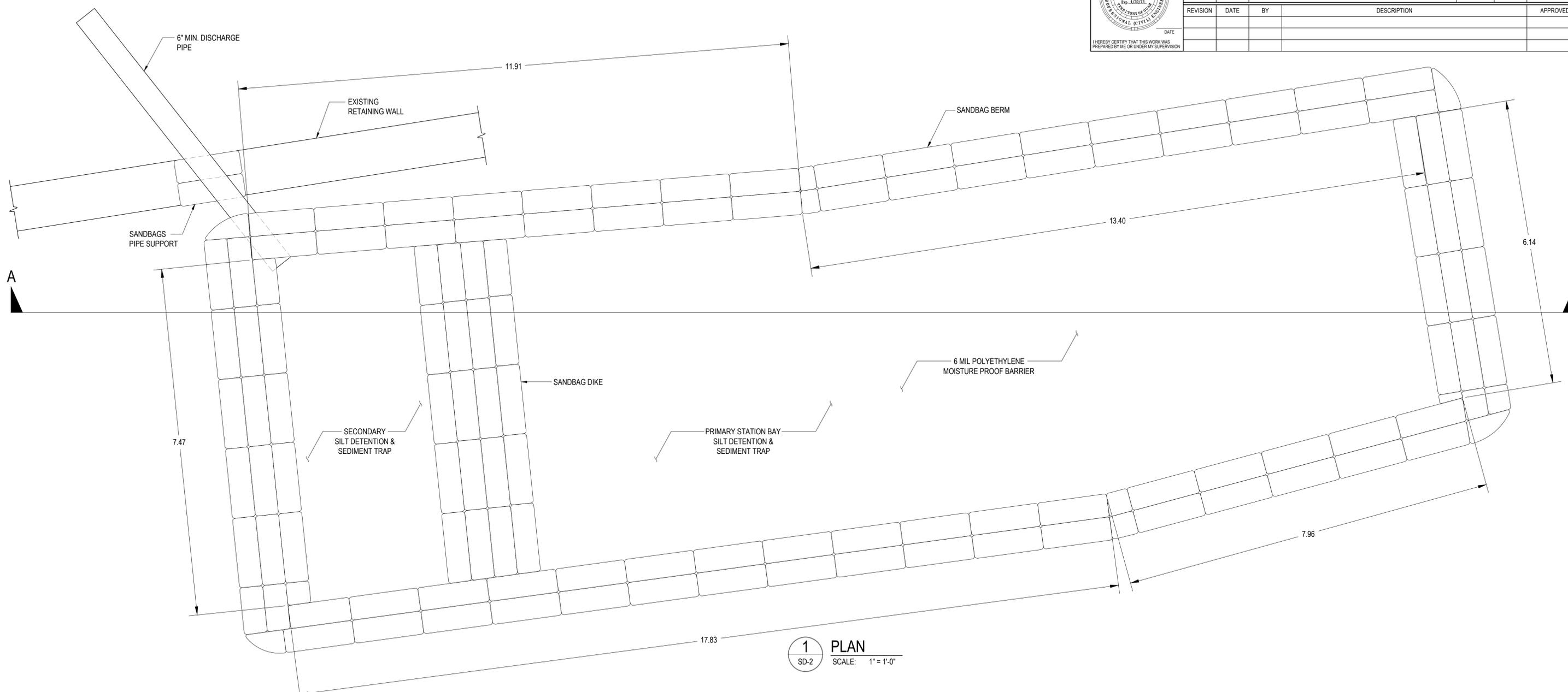
- CONTENTS:**
- TEMPORARY SILT DETENTION & SEDIMENT TRAP SITE PLAN SD-1
  - TEMPORARY SILT DETENTION & SEDIMENT TRAP PLAN & SECTION SD-2

**1 TEMPORARY SILT DETENTION & SEDIMENT TRAP SITE PLAN**  
 SD-1 SCALE: 1" = 10'-0"

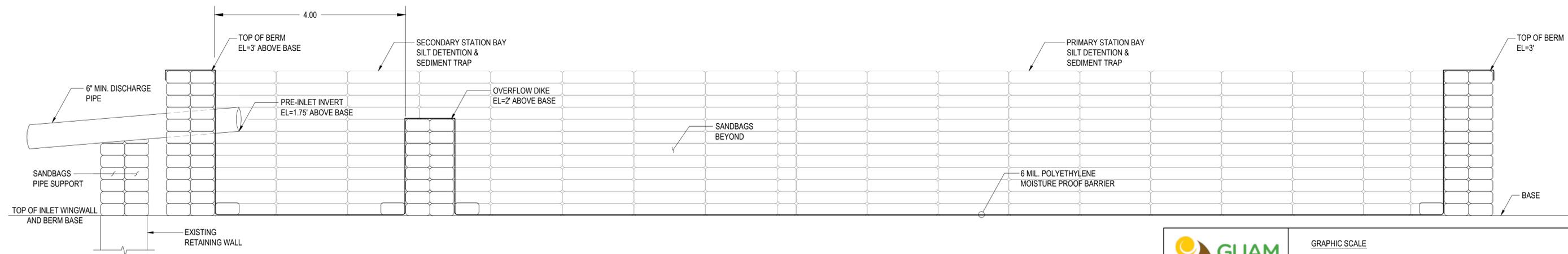




TERRITORY	VILLAGE	PROJECT	PROJECT NO.	DRAWING NO.	SHEET
GUAM	TUMON	TEMPORARY SILT DETENTION & SEDIMENT TRAP FUJITA PONDING BASIN MAINTENANCE	G-TBB-0024-TAMA	SD-2	2 OF 2
REVISION	DATE	BY	DESCRIPTION	APPROVED	



**1 PLAN**  
SD-2 SCALE: 1" = 1'-0"



**2 SECTION A**  
SD-2 SCALE: 1" = 1'-0"

