

C.J. SAVOIE

CONSULTING ENGINEERS, INC.

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FACSIMILE TRANSMITTAL SHEET

To: All Potential Bidders

From: C.J. Savoie Consulting Engineers, Inc.

Company:

Date: September 7, 2017

Fax Number:

Total No. of Pages, Including Cover: 5

Phone Number:

Sender's Reference Number: 985-369-7735

Re: Marais Oxidation Pond Sewer
Treatment Rehabilitation OCD/DR
Number 04PARA2309 (Funding by
Louisiana Office of Community
Development/Disaster Recovery Unit
OCD G/I Project No. 04PARA2309)

Your reference number:

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY

NOTES/COMMENTS:

Potential Bidders,

Please see attached Addendum No. 1 for the above referenced project dated September 7, 2017. Please have the acknowledgement page signed and faxed to our office (985) 369-7735 also email a copy to hll@cjsavoie.com. A hard copy will follow via mail and e-mail.

ADDENDUM NO. 1

DATE: September 7, 2017

PROJECT: Marais Oxidation Pond Sewer Treatment Rehabilitation
OCD/DR Number 04PARA2309 (Funding by Louisiana Office
of Community Development/Disaster Recovery Unit OCD G/
Project No. 04PARA2309)

PROJECT ENGINEER: Clarence J. Savoie III, PE

BID DATE: The bid date shall be September 21, 2017

TIME: The bid time shall be 10:00 A.M.

NATURE OF CHANGE:

SPECIFICATIONS:

1.) SECTION 00100 ADVERTISEMENT FOR BIDS; PAGE 2 OF 2, PARAGRAPH 5

REMOVE: AS A REQUIREMENT UNDER LOUISIANA REVISED STATUTES 37:2163, THIS PROJECT IS CLASSIFIED AS HEAVY CONSTRUCTION.

REPLACE: AS A REQUIREMENT UNDER LOUISIANA REVISED STATUTES 37:2163 THIS PROJECT SHALL BE CLASSIFIED AS HEAVY CONSTRUCTION OR MUNICIPAL AND PUBLIC WORKS CONSTRUCTION.

2.) REMOVE: EXISTING TECHNICAL SPECIFICATION SECTION X.-SEWAGE TREATMENT PLANT, PAGES 25 THROUGH 26.

REPLACE: ATTACHED REVISED TECHNICAL SPECIFICATION SECTION X.-SEWAGE TREATMENT PLANT, PAGES 25 THROUGH 26.

NOTE: AIR BLOWERS AND PLANT ELECTRICAL CONTROLS SHALL BE SINGLE PHASE.

NATURE OF CHANGE:

PLANS:

3.) REMOVE- EXISTING SHEET C.5 SEWER TREATMENT PLANT PLAN.

REPLACE- ATTACHED REVISED SHEET C.5 SEWER TREATMENT PLANT PLAN.



Clarence J. Savoie III, PE
Project Consulting Engineer

ADDENDUM NO. 1
MARAIS OXIDATION POND SEWER TREATMENT REHABILITATION
OCD/DR NUMBER 04PARA2309 (FUNDING BY LOUISIANA OFFICE
OF COMMUNITY DEVELOPMENT/DISASTER RECOVERY UNIT OCD
G/I PROJECT NO. 04PARA2309)
PAGE 2

PLEASE ACKNOWLEDGE RECEIPT OF ADDENDUM #1 via fax or return mail prior to bid.
Fax # (985) 369-7735

Company

Mailing Address

Contractor's Signature

The blower/motor assemblies shall have a weatherproof housing.

2. Each blower shall provide 100% of the air required for proper plant operation. The blower units shall be manufactured by Roots, Sutorbilt, Spencer or approved equal. The blower shall be capable of delivering 320 cubic feet per minute of air at 5 pounds per square inch of pressure.
3. Each motor shall be 15.0 HP, (ODP), 1750 rpm, operating on 460 volts, 1 phase, 60 cycles. The motor shall be mounted on an adjustable base for proper tensioning of the belts.
4. Each blower assembly shall be equipped with an inlet air filter/silencer to reduce noise levels and protect the blower from abrasive air particles. Vibration dampeners and a flexible rubber discharge coupling shall also be furnished to protect the assembly from excessive vibrations.

K. Plant Electrical Controls

All electrical work shall be in accordance with details shown on the construction plans and Section XIII of these Specifications. A service pole with a meter pan and disconnect shall be placed on site for power supply as shown on the plans. Plant controls are as follows:

1. An electrical control system shall be provided to operate the motors and other electrical devices. The control system shall be located on the top of the plant or (optional) remotely located as required by the owner.
2. The control shall be enclosed in a NEMA 3R panel for outdoor service. The enclosure shall be adequately supported by steel angles of floor mounting legs. The enclosure shall be mounted on an elevation to permit bottom entrance of all electrical connections.
3. The control system shall be in accordance with the recent design and wiring practices required in the Nation Electrical Code. The electrical components wiring and other appurtenances shall be mounted on a removable subpanel. The controls shall be protected by an adequately sized magnetic-circuit protection device which is also utilized as the main disconnect. The blower/motor units and any other automatically controlled motors shall be supplied with across-the-line magnetic starters or magnetic contractors with overload protection. Any equipment which operates automatically shall be furnished with HAND-OFF-AUTO selector switches. All redundant equipment shall be automatically alternated to ensure equal operational use.
4. A timer shall be provided for the blower units. This timer shall permit the operator to adjust the amount of air required in a 24 hour period for biological treatment and operation of airlift. The timer shall be a 7-day 24 hour timer with 96 incremental adjustment points of 15 minutes each. The timer shall also include a skip-a-day feature which will allow a separate program for weekends (when required).

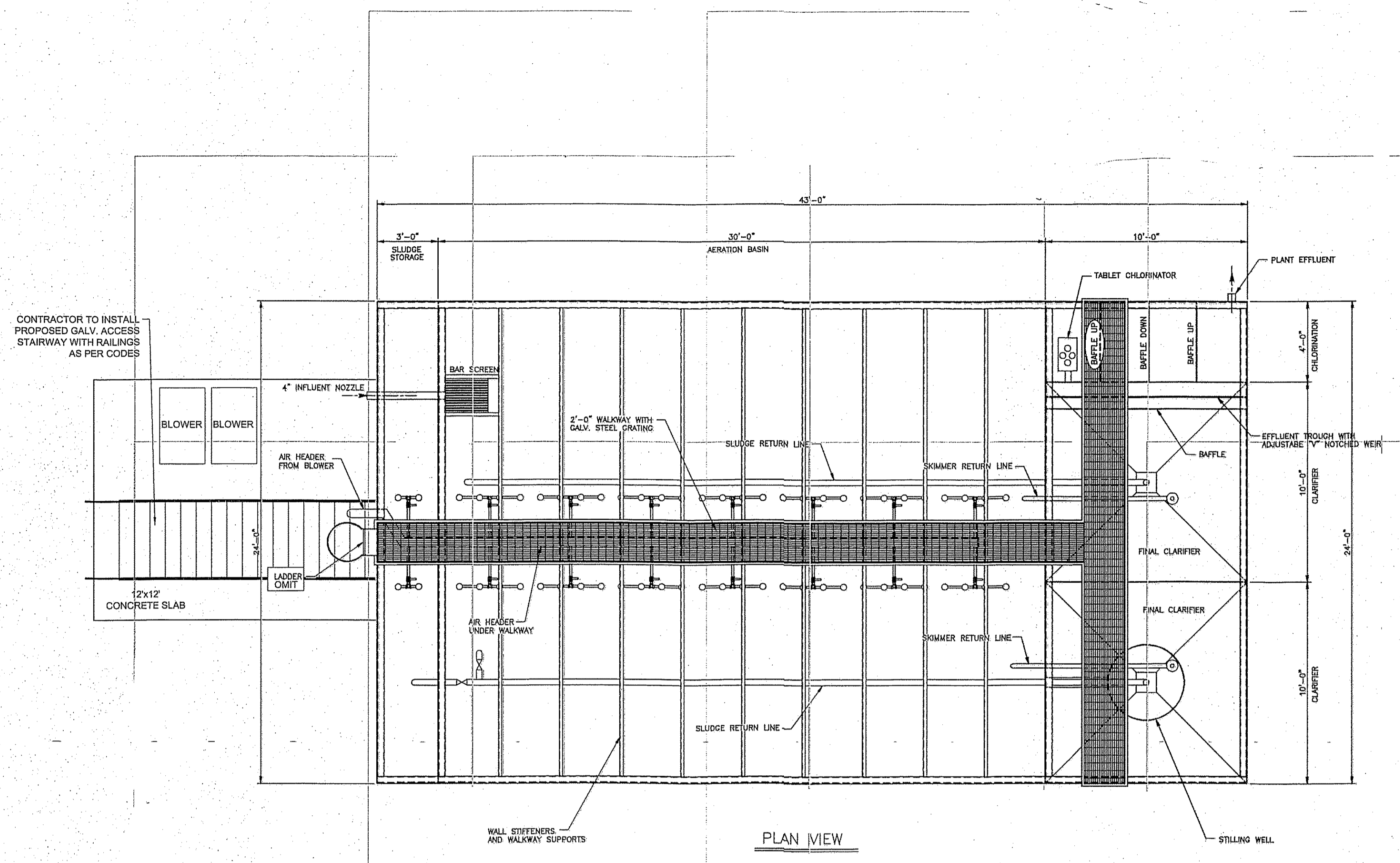
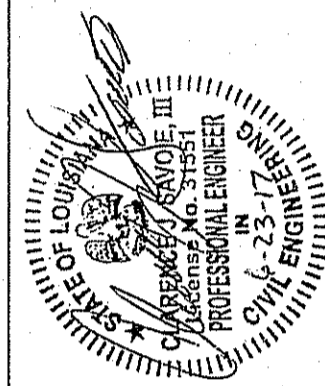
5. The Control system shall be completely factory wired and tested. The enclosure shall have a pocket to store color coded electrical schematic. The terminal blocks shall be numbered for easy wiring connections. The main power supply shall be 240 volts, 1 phase, 60 cycle. The control circuitry shall operate on 120 volt, 1 phase.
6. The contractor shall provide all electrical wiring, conduit, and other appurtenances from the control panel to the electrical power service. All wiring and conduit from the control panel to the various electrical components shall be supplied by the Contractor.

L. Clarifier Tank

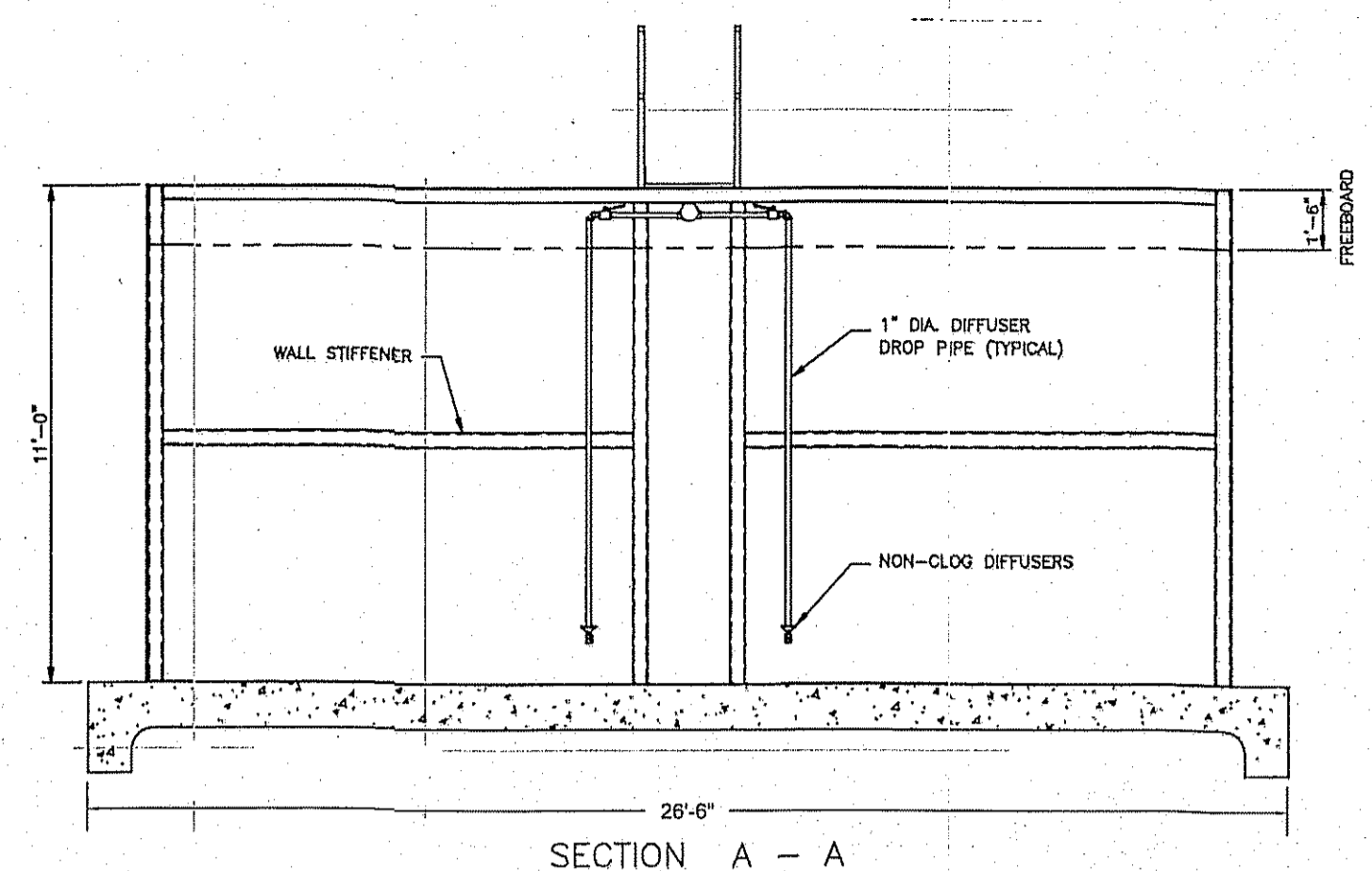
1. A clarifier chamber shall be provided to operate as a quiescent zone to permit settleable solids in the mixed liquor to be removed by gravity. The clarifier shall have a capacity of 8,334 gallons which will provide a 4 hour retention at the average design flow rate. The effective volume of the clarifier shall include the upper one third of the hopper plus the area above the hopper. The bottom two thirds of the hopper shall not be considered as part of the effective volume. The bottom of the clarifier shall be formed into an inverted pyramidal hopper or hoppers. The hopper(s) shall not exceed a slope of 1.7 vertical to 1.0 horizontal. The bottom of each hopper(s) shall form a flat area of one square foot.
2. The clarifier shall have baffling to enhance the operation of the settling zone. The inlet of the clarifier shall have a stilling baffle designed to absorb hydraulic shocks and disperse the flow uniformly along one side of the clarifier without short circuiting. A scum baffle shall be located longitudinally with the effluent trough. The baffle shall prevent floating debris which may enter the clarifier from passing over the effluent weir plate.
3. An effluent trough with adjustable steel weir plate(s) shall be provided to ensure a uniform collection of the effluent flow. The weir plate shall have machine cut V-notches and slotted holes for adjustment. The weir plate shall be fastened to the effluent trough with stainless steel fasteners. The trough and weir plate shall be sized to accommodate the flow rate.

M. Sludge Return System

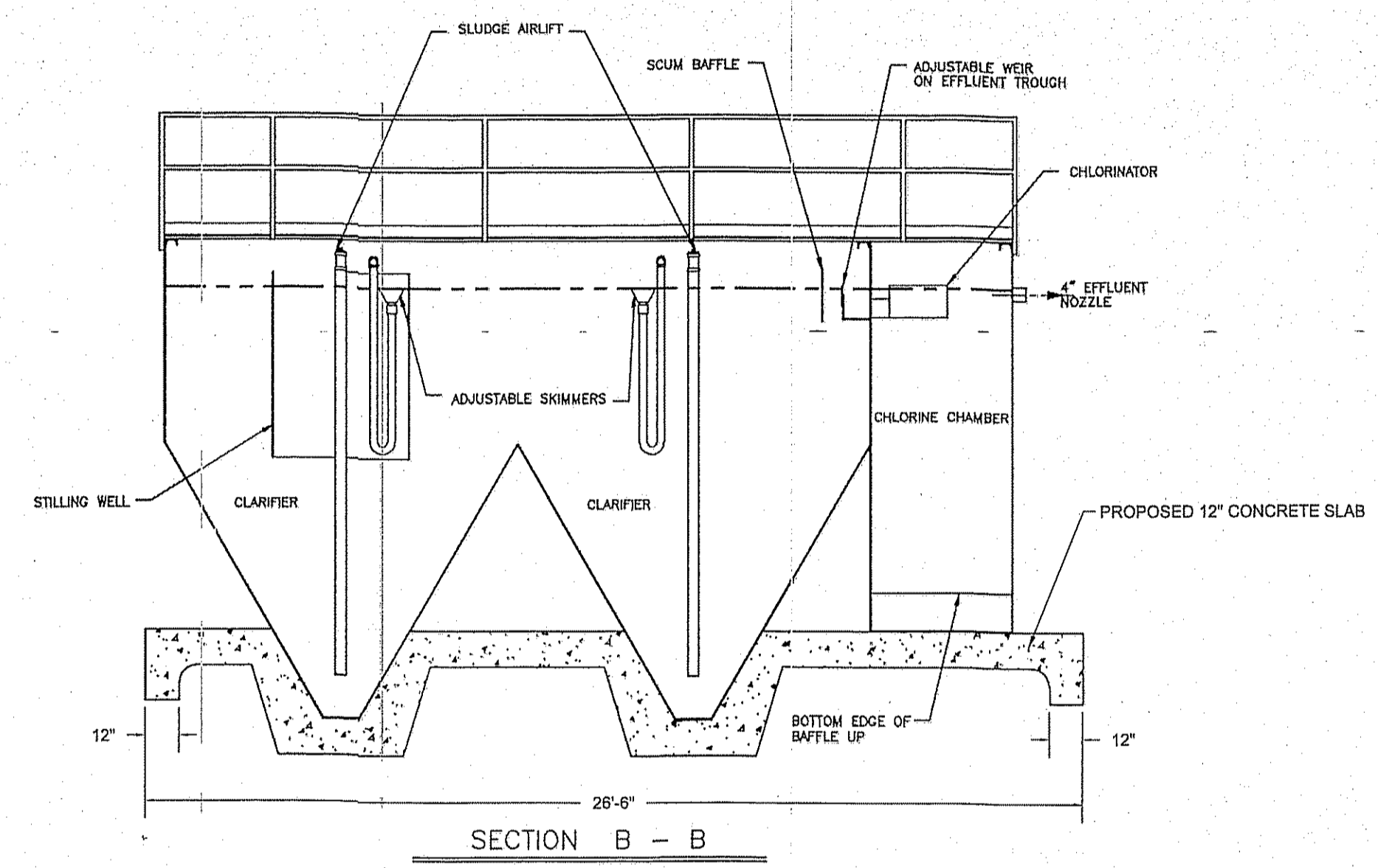
1. The activated sludge which settles to the bottom of the clarifier, shall be recycled and/or disposed of by means of air operated pump. The airlift pump shall provide a positive means of transferring the sludge to the inlet end of the aeration chamber where it will seed the incoming raw sewage with an active culture of bacteria or to the sludge holding tank for further digestion.



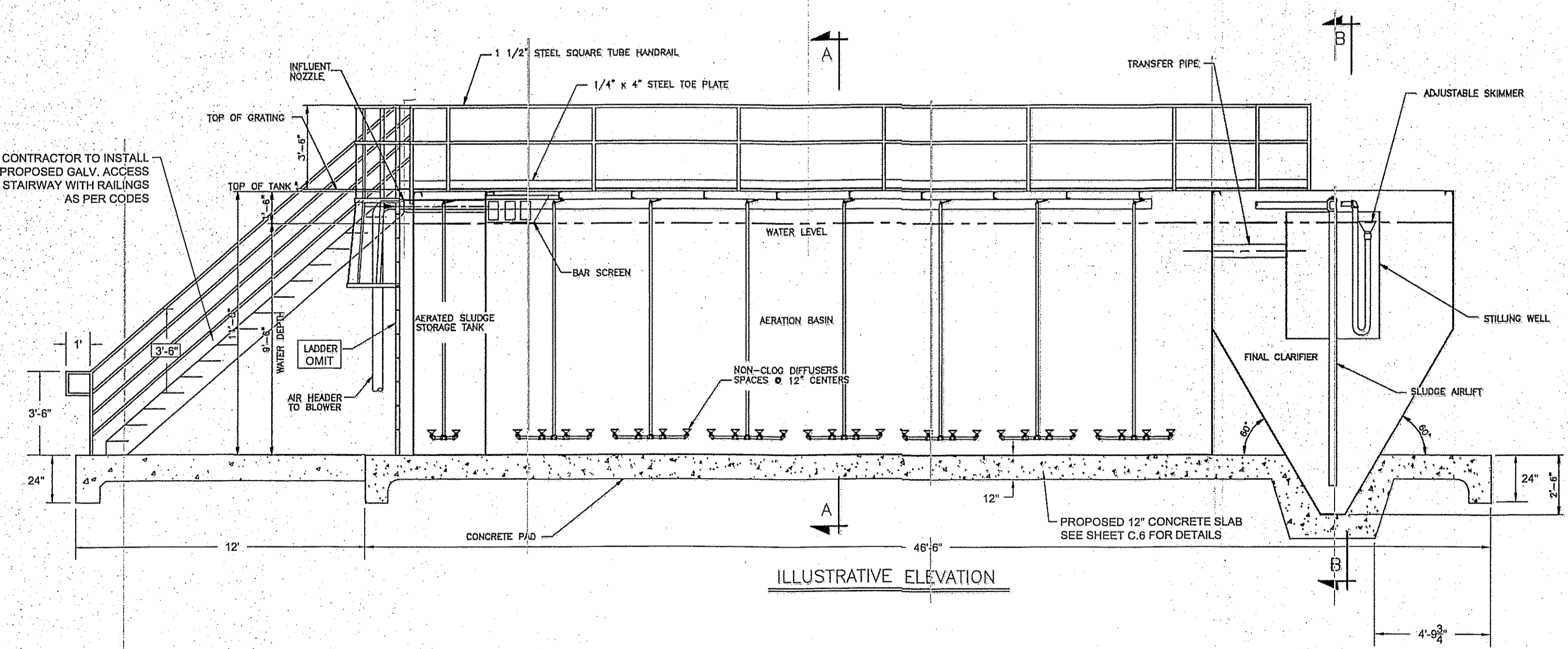
PLAN VIEW



SECTION A - A



SECTION B - B



ILLUSTRATIVE ELEVATION

| EFFLUENT | PLANT REQUIREMENTS | |
|------------------|----------------------|---------------|
| | DISCHARGE LIMITATION | |
| | DAILY AVERAGE | DAILY MAXIMUM |
| BOD ₅ | 15 mg/l | 15 mg/l |
| TSS | 20 mg/l | 20 mg/l |
| FEÇAL COLIFORM | 200 ml | 200 ml |

| EXTENDED AERATION PLANT | |
|---|-------------|
| DATA: | |
| DESIGN FLOW-GPD | 50,000 |
| AERATION VOLUME GALLONS | 50,000 gal. |
| CLARIFIER VOLUME GALLONS | 8,334 gal. |
| CHLORINE CONTACT GALLONS | 1,563 gal. |
| AERATION BLOWERS (15 hp, 1 PHASE, 60 CYCLE, 460V) | 320 CFM |
| CONTROL PANEL (1 PHASE, 60 CYCLE, 230 VOLT, 4 WIRE) | |

- NOTES:
1. PRE-FABRICATED AERATION TREATMENT PLANT TO BE MFGD. BY ENVIRONMENTAL CONSTRUCTION CORP. (50K GPD) OR AN APPROVED EQUAL.
 2. TANK IS CONSTRUCTED OF 1/4" ASTM GRADE A36 STEEL PLATE.
 3. CONTRACTOR TO SUPPLY CONNECTION PIPING, GROUT & CONCRETE SLAB
 4. ELECTRICAL CONTROL PANEL & BLOWER ARE ON SEPARATE PAD.

ADDENDUM #1 : 9/7/17