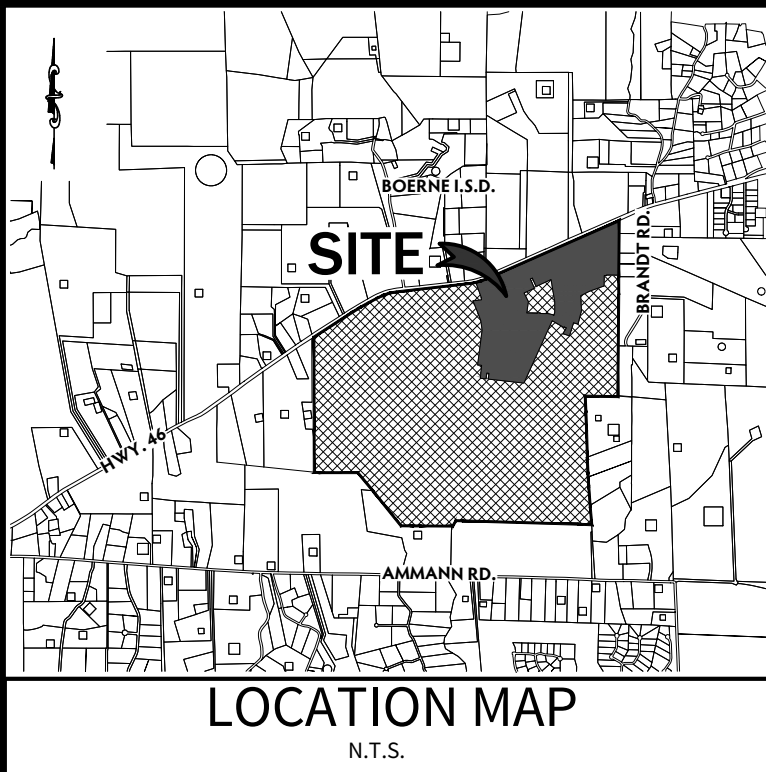
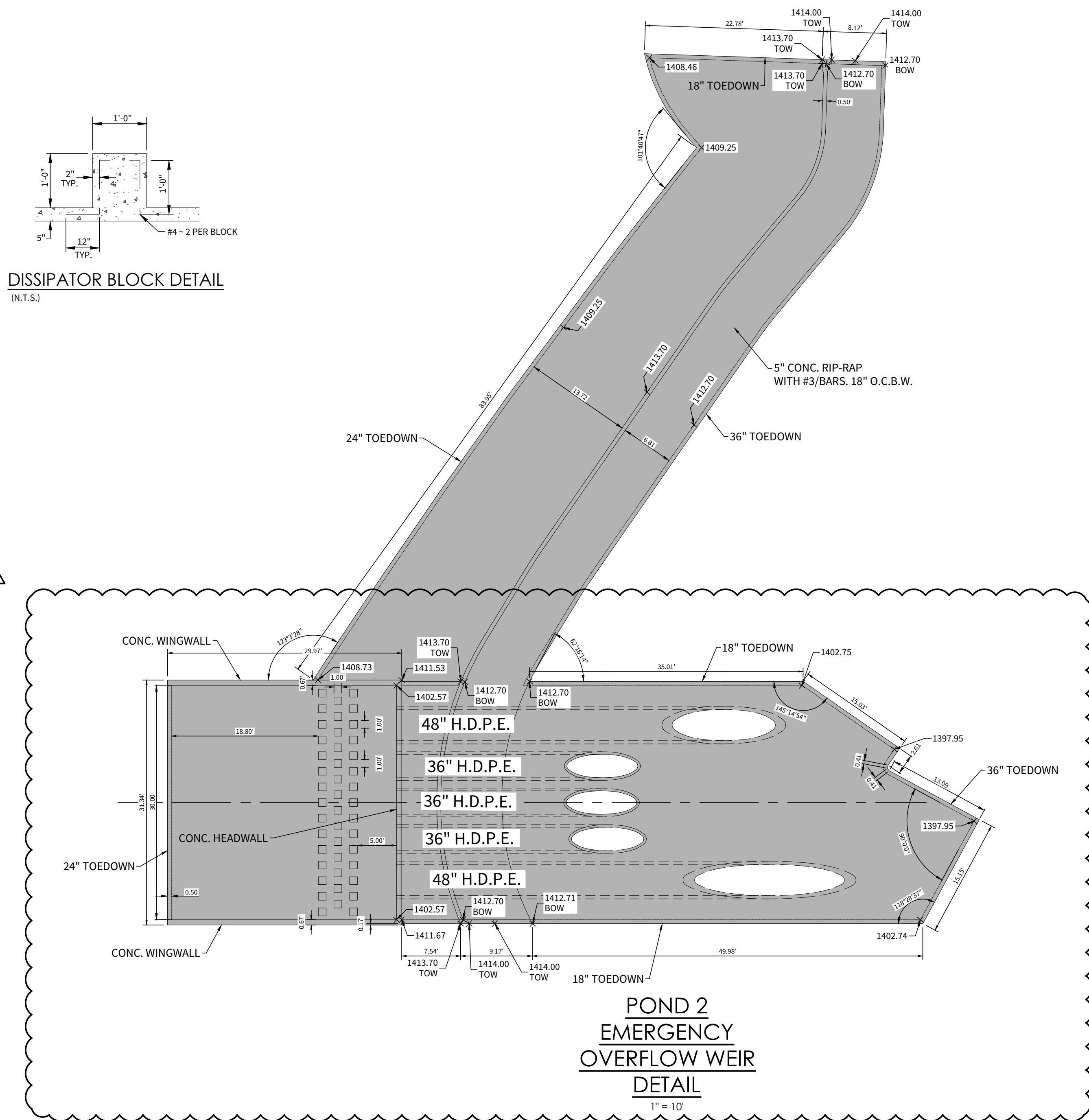




OWNER/ DEVELOPER:
THE LOOKOUT DEVELOPMENT GROUP
CONTACT: MIKE SIEFERT, P.E. PRESIDENT
1001 CRYSTAL FALLS PARKWAY
LEANDER, TEXAS 78641
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Flap Gate Spec

SECTION 02633
FLAP GATES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for providing and installing flap gates to prevent backflow.

1.2 MEASUREMENT AND PAYMENT

- A. Measurement and payment is as noted on the Unit Price Schedule.
B. Refer to Section 01270 - Measurement and payment for unit price procedures.

1.3 SUBMITTALS

- A. Refer to Section 01330 - Submittal Procedures.
B. Provide fabrication drawings for each flap gate to be installed.
C. Provide descriptions of methods for delivery, storage, and handling to prevent distortion or damage.
D. Provide field installation drawings with a detailed description of field installation procedures.

PART 2 - PRODUCTS

2.1 FLAP GATE FRAME

- A. All structural components shall have adequate strength to prevent distortion during normal handling, during installation, and while in service.
B. Frame design shall be of the flanged back type suitable for mounting directly to a wall with stainless steel anchor bolts and grouted in place.
C. The angle of the flap when seated against the frame shall be between 3 degrees and 10 degrees from the vertical.

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Lockwood, Andrews and Newman, Inc.
Project ID: P500-06-00-E006

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Flap Gates

2.2 FLAP GATE HINGE ARMS

- A. Hinge arms shall be constructed of HDPE (300 grade).
B. Dual hinge arms shall be provided on all flap gates in excess of 18 inches wide.
C. The hinge pin shall be of ample section to safely withstand the forces created by operation of the gate under the design parameters shown on the plan and be constructed of solid stainless-steel rod.
D. The hinge pin bushing shall be UHMW or bronze.
E. Links connecting the cover and pivot lugs shall be designed to prevent the cover from rotating sufficiently to become wedged in the open position.

2.3 FLAP GATE

- A. Provide wall mounted HDPE (300 grade) flap gates.
B. The flap gate shall have an integral lifting eye for manual operation.
C. All fasteners shall be of ample section to safely withstand the forces created by operation of the gate under the design parameters shown on the Plans.
D. Provide flap gates designed to operate within the design seating head shown on the Plans.

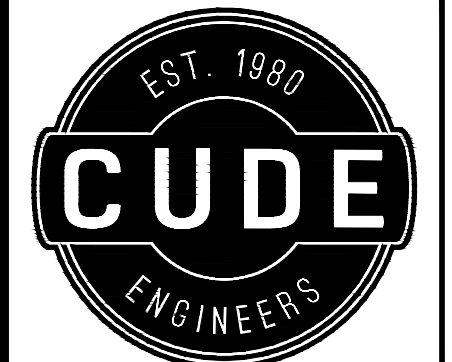
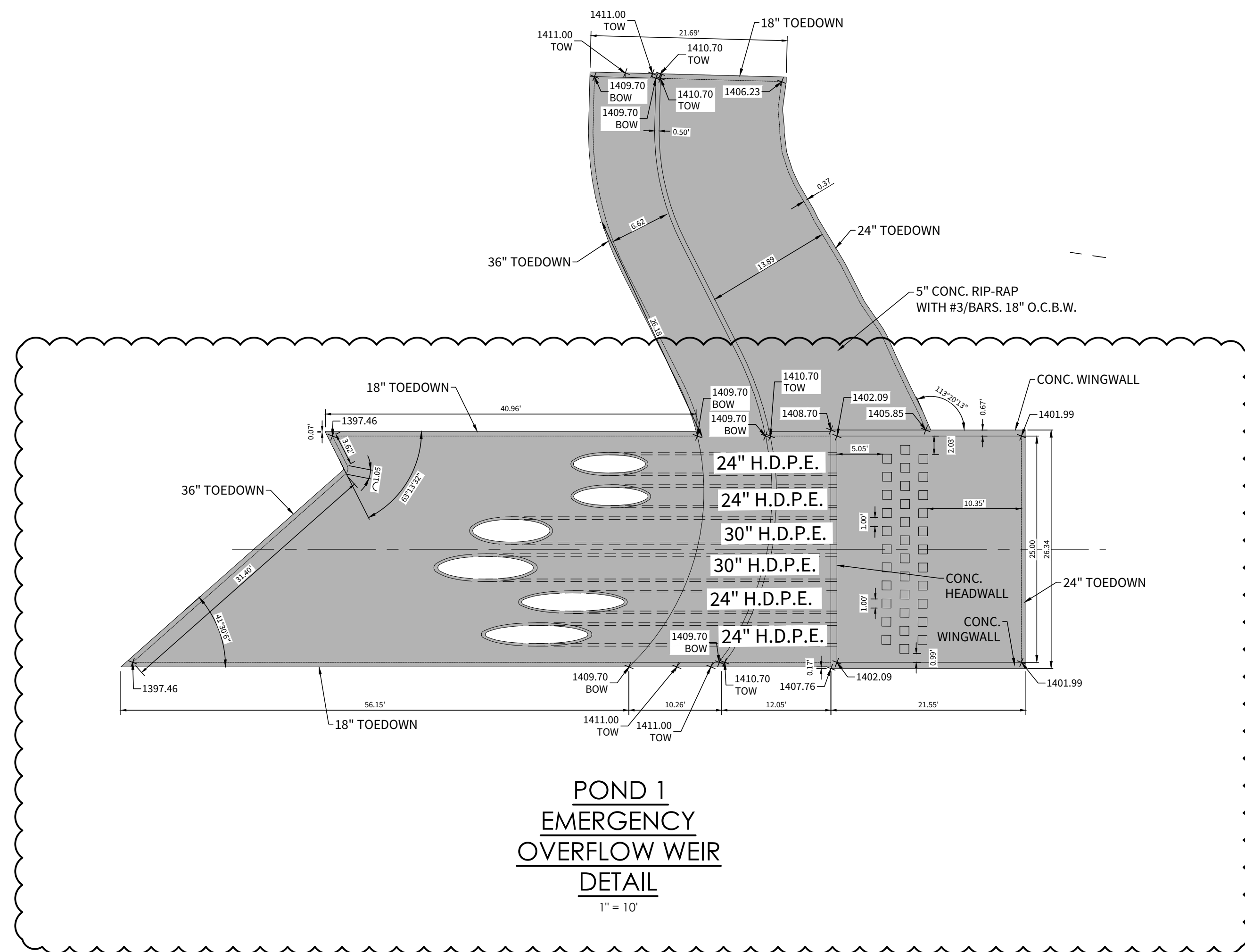
2.4 FLAP GATE SEALS

- A. All flap gates shall be provided with a seal system to restrict leakage in accordance with the requirements listed in this specification.
B. A continuous resilient seal shall be mounted to the seating surface to restrict leakage. The seal system shall be durable and shall be designed to accommodate frequent operation without loosening or suffering damage.
C. The seals shall be mounted so as not to obstruct the water way opening.



LAN Incorporated HCFCFD Backflow Preventer
Guidance and Vendor Info into Spec 02633

FLAP GATE SPECIFICATION



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GEORGE'S RANCH
UNIT 1
DETENTION POND DETAILS

DATE
04/22/2022

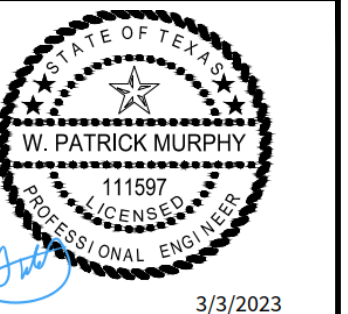
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03546.001

DRAWN BY
AB/RR

CHECKED BY
WPM

REVISIONS

- 2022-10-04 - ADDED FLAP GATE SPECIFICATION, REVISED OUTFALL PIPES
- 02/28/2023 - DRAINAGE REVISION
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CUDE ENGINEERS
TBPE No. 455

PLAT NO.
N/A

C37A

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