
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index (Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: November 1, 2019

Originator: Rick Jenkins

Phone: (850) 414-4355

Email: Rick.Jenkins@dot.state.fl.us

Standard Plans:

Index Number: 425-070

Sheet Number (s): ALL

Index Title: Skimmer for Outlet Control Structures

Summary of the changes:

Reorganized Index, Added additional Sheets.

Sheet 1: General Notes

Sheet 2: Panel and Flat Bar Details

Sheet 3: Installation Details

Commentary / Background:

Reorganized Details and Sheets to declutter Index. Moved information from detail callouts to Notes in order to decrease clutter of the drawing. Moved design information to SPI.

Other Affected Offices / Documents: (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input type="checkbox"/>	Construction –
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance –

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

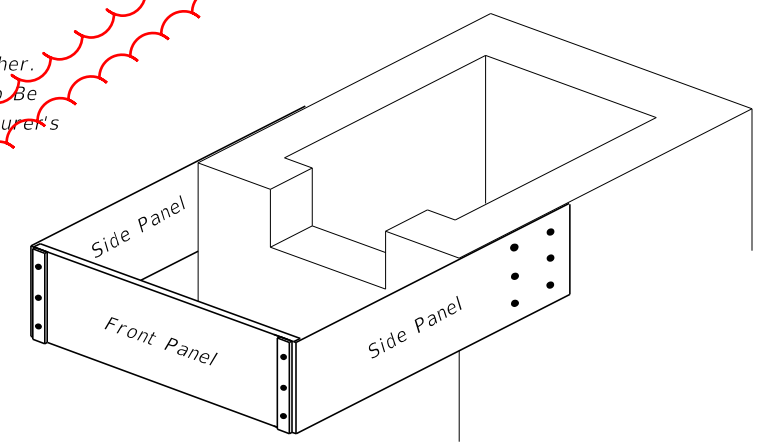
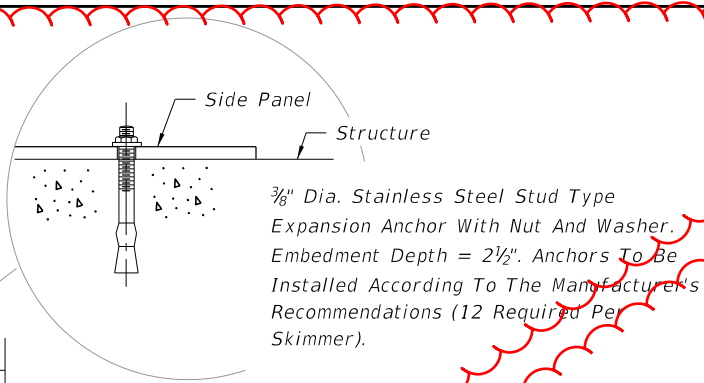
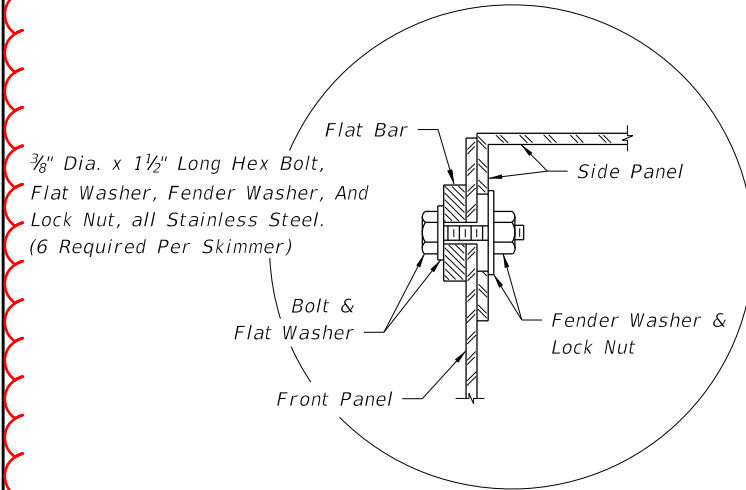
Implementation:

- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form

NEW SHEET

ADDED GENERAL NOTES AND OVERVIEW



SHEET 3

SHEET 1

PICTORIAL VIEW

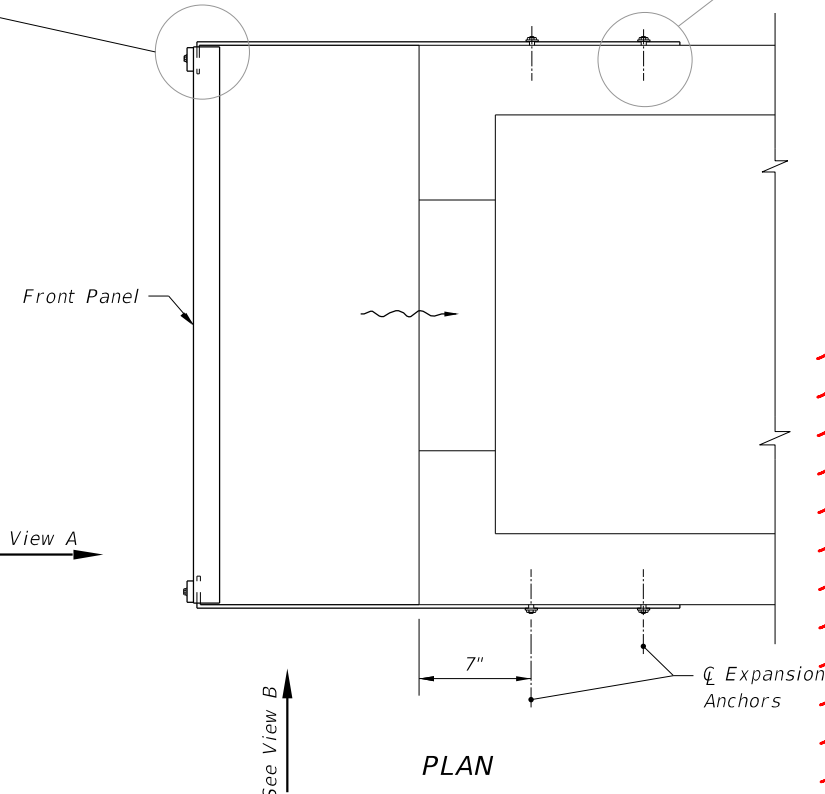
GENERAL NOTES

1. This skimmer is intended for use on Type C, D, or E Ditch Bottom Inlets that are used as outlet control structures of stormwater management facilities. **SPI**
2. The side panels are dimensionally symmetric, therefore they may be used on either side of the structure.
3. Two (2) skimmers may be constructed on one structure provided they are on opposite ends.
4. The width of the front panel (dimension W) shall be the same as the outside dimension across the front of the structure.
5. The front panel, side panels, and flat bars are to be hot dip galvanized after fabrication.
6. The location of the reinforcing steel in these structures must conform to the applicable standards to avoid conflict with the expansion anchors used to attach the skimmer.
7. Grates to be used on the inlets unless otherwise specified in the plans.
8. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware. The cost of skimmers is to be included in the cost of the inlet.

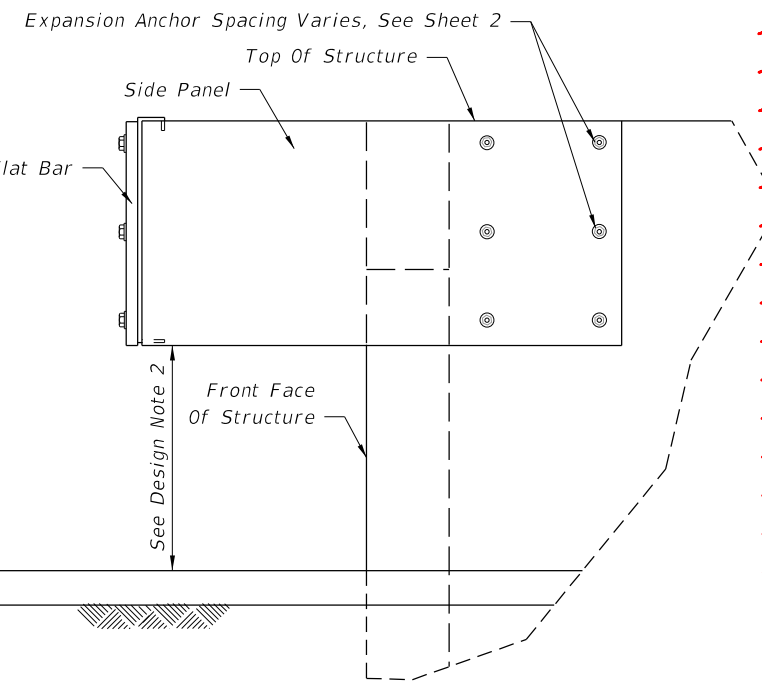
DESIGN NOTES

1. The designer must specify, in the plans, the skimmer height (dimension H) and the sides where the weir slots and skimmers are located. The skimmer height must be one of the dimensions shown in the table on Sheet 2. The skimmer should not be used on structure sides with outside dimensions greater than 6'-4".
2. To minimize hydraulic losses across the skimmer, the flow area under the skimmer should be three times larger than the flow area of the weir slot. The distance between the pond bottom at the structure and the skimmer shall be not less than 1 foot.
3. The configuration of skimmers may be subject to regulatory requirements. The designer should coordinate the outlet control structure details with the permitting agencies.
4. Where this skimmer is used, the designer should reference this index with the outlet control structure details. Where a different skimmer design is needed, the designer should provide skimmer details in the plans.
5. The designer shall evaluate if a grate is needed for safety reasons. Where a grate is not needed for safety reasons and is not desirable for hydraulic or other reasons, the designer may omit the grate by stating so in the outlet control structure details.
6. The designer must show the configuration of the weir slots in the outlet control structure detail.

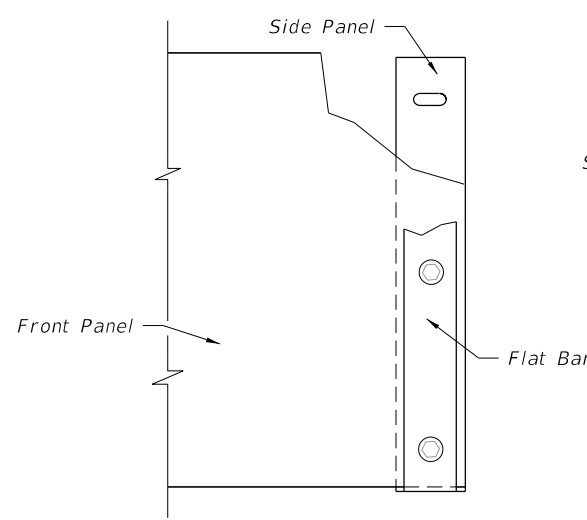
SPI



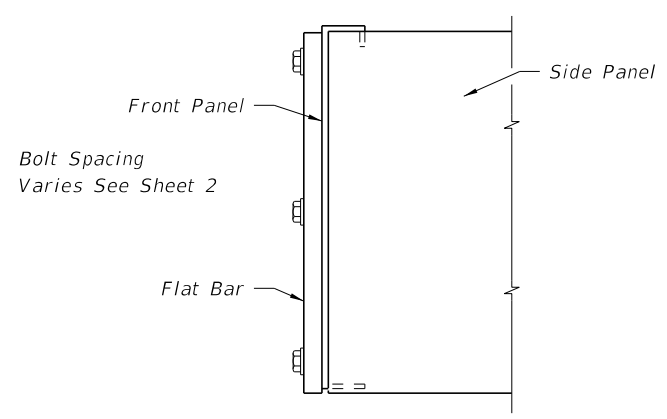
PLAN



SIDE VIEW



VIEW A

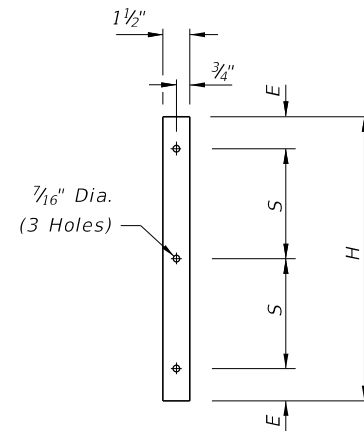


VIEW B

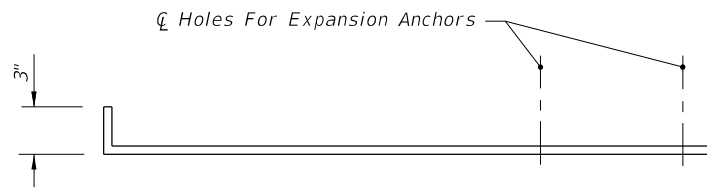
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LAST REVISION	DESCRIPTION:
11/01/17	11/01/19

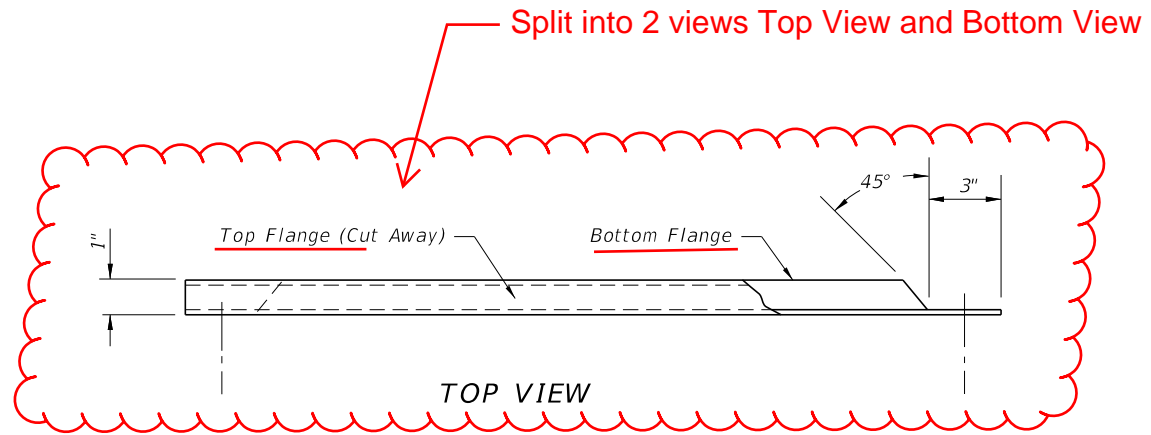
DIMENSIONS				
Skimmer Height as Specified in the Plans				Bolt Spacing
H	D	E	L	S
Inches				
12	3 ³ / ₁₆	3	28	3
14	3 ³ / ₁₆	3	28	4
16	3 ³ / ₁₆	3	28	5
18	3 ³ / ₁₆	3	28	6
20	4 ³ / ₁₆	4	31	6
22	4 ³ / ₁₆	4	31	7
24	4 ³ / ₁₆	4	31	8
26	4 ³ / ₁₆	4	31	9
28	4 ³ / ₁₆	4	31	10
30	5 ³ / ₁₆	5	31	10
32	5 ³ / ₁₆	5	31	11
34	5 ³ / ₁₆	5	31	12
36	6 ³ / ₁₆	6	31	12
38	6 ³ / ₁₆	6	31	13
40	6 ³ / ₁₆	6	31	14



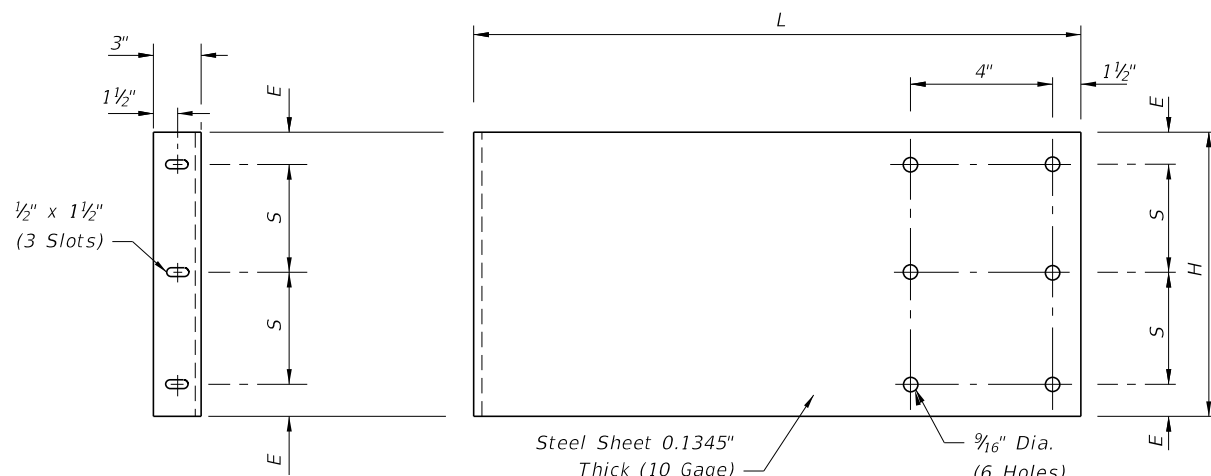
1/4" Thick x 1 1/2" Wide
FLAT BAR



TOP VIEW



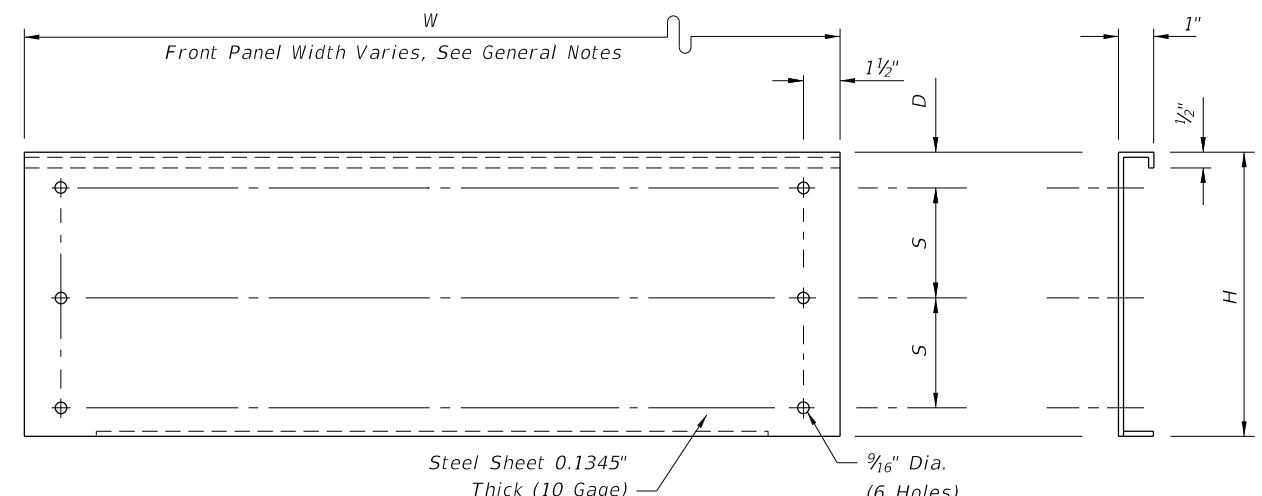
TOP VIEW



END VIEW (FRONT)

SIDE VIEW

SIDE PANEL



FRONT VIEW

END VIEW

FRONT PANEL

Sheet 2 of 3

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LAST REVISION 11/01/17	DESCRIPTION: 11/01/19
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FY 2019-20
STANDARD PLANS

SKIMMER FOR OUTLET CONTROL STRUCTURES

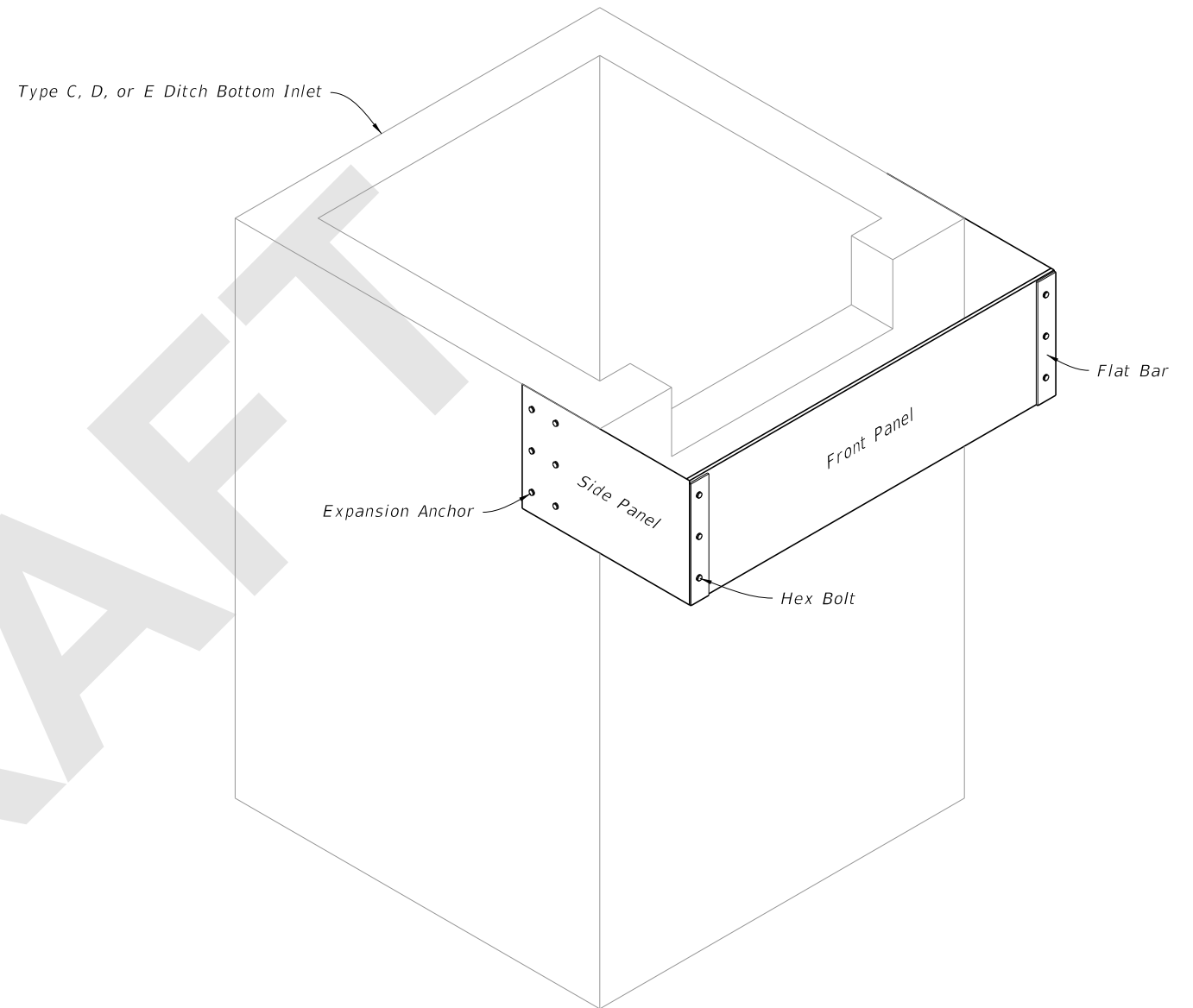
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425-070

SHEET
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GENERAL NOTES:

1. The side panels are dimensionally symmetric, and may be used on either side of the structure.
2. Two (2) skimmers may be installed on a single structure provided they are constructed on opposite ends.
3. The width of the front panel (dimension W) is equal to the same as the outside dimension across the front of the structure.
4. Hot dip galvanize the front panel, side panels, and flat bars after fabrication.
5. The location of the reinforcing steel in these structures must conform to the Index 425-052 to avoid conflict with the expansion anchors used to attach the skimmer.
6. Use grates on the inlets unless otherwise specified in the Plans.
7. A skimmer consists of two (2) side panels, one front panel, two (2) flat bars, and accessory hardware.

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Panel and Flat Bar Details
3	Installation Details

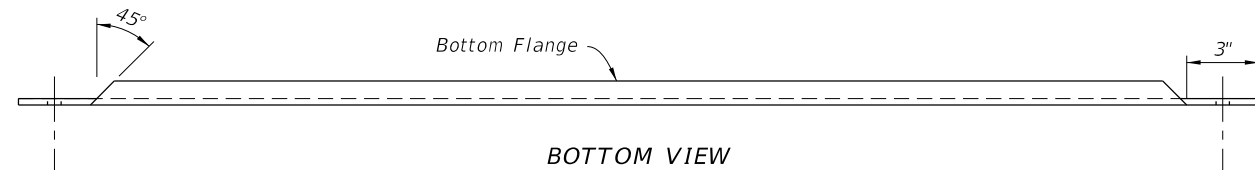
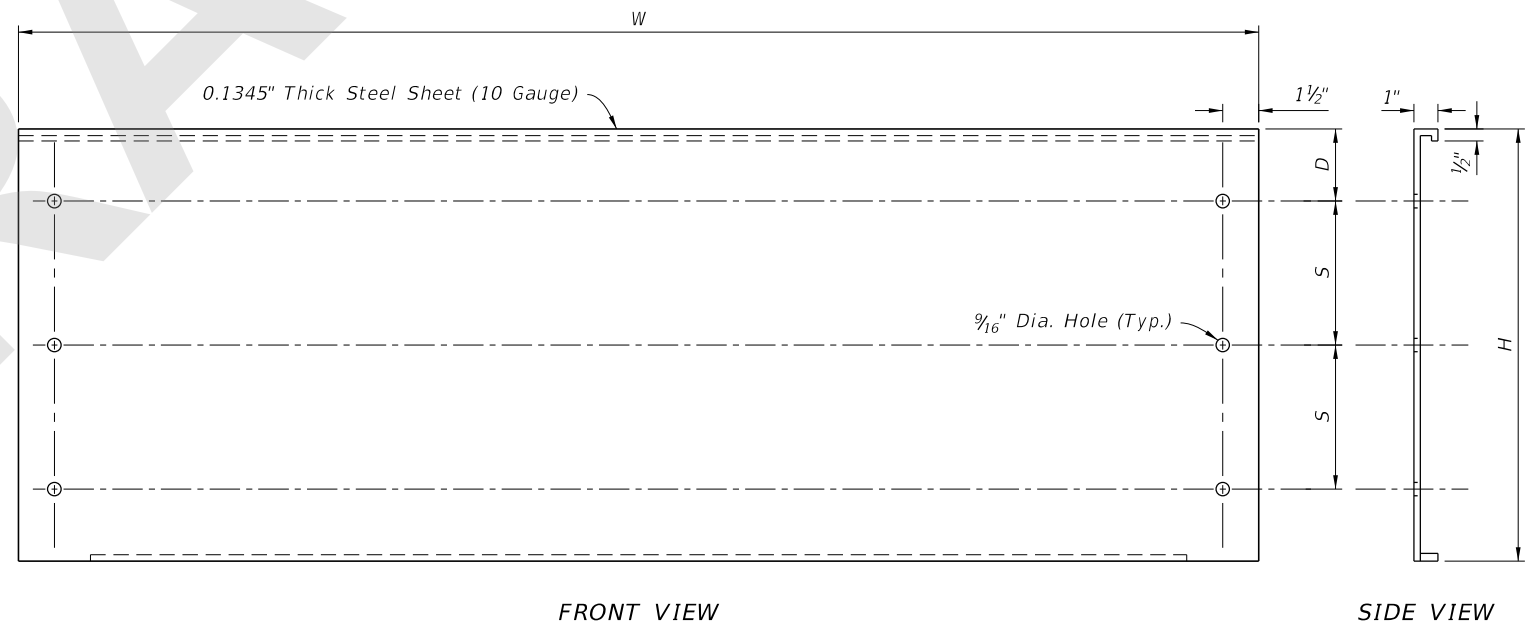
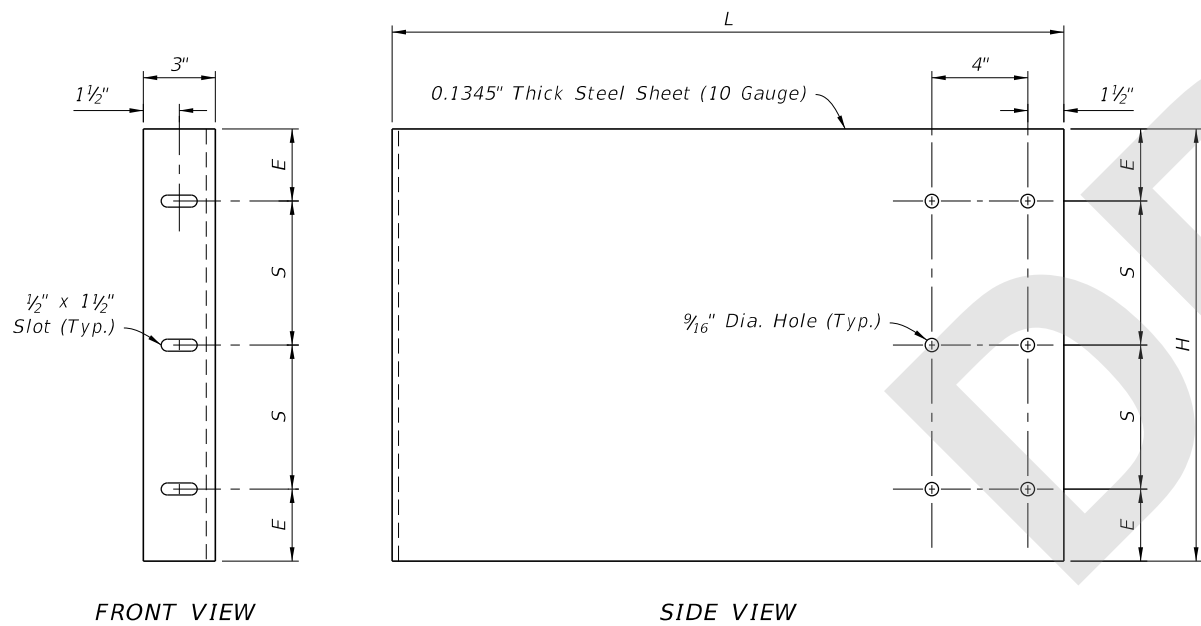
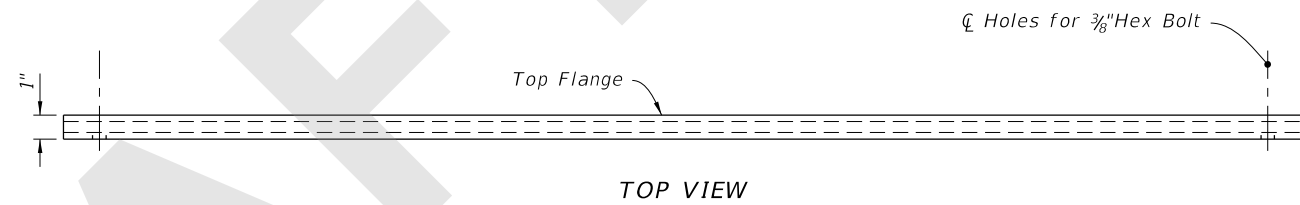
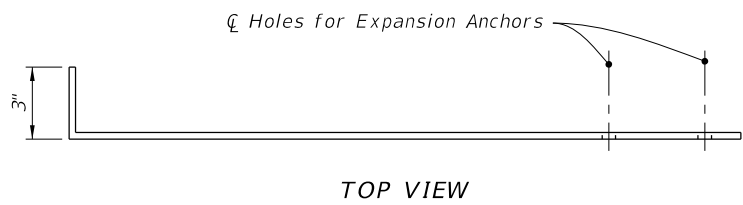
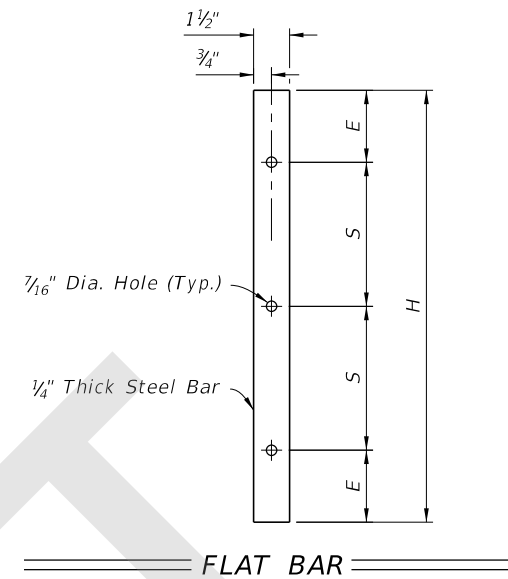


DRAFT

══════════ SKIMMER ══════════

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DIMENSIONS				
Skimmer Height as Specified in the Plans				Bolt Spacing
H (in.)	D (in.)	E (in.)	L (in.)	S (in.)
12	3 ³ / ₁₆	3	28	3
14	3 ³ / ₁₆	3	28	4
16	3 ³ / ₁₆	3	28	5
18	3 ³ / ₁₆	3	28	6
20	4 ³ / ₁₆	4	31	6
22	4 ³ / ₁₆	4	31	7
24	4 ³ / ₁₆	4	31	8
26	4 ³ / ₁₆	4	31	9
28	4 ³ / ₁₆	4	31	10
30	5 ³ / ₁₆	5	31	10
32	5 ³ / ₁₆	5	31	11
34	5 ³ / ₁₆	5	31	12
36	6 ³ / ₁₆	6	31	12
38	6 ³ / ₁₆	6	31	13
40	6 ³ / ₁₆	6	31	14



SIDE PANEL

FRONT PANEL

PANEL AND FLAT BAR DETAILS

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LAST REVISION 11/01/20	DESCRIPTION:
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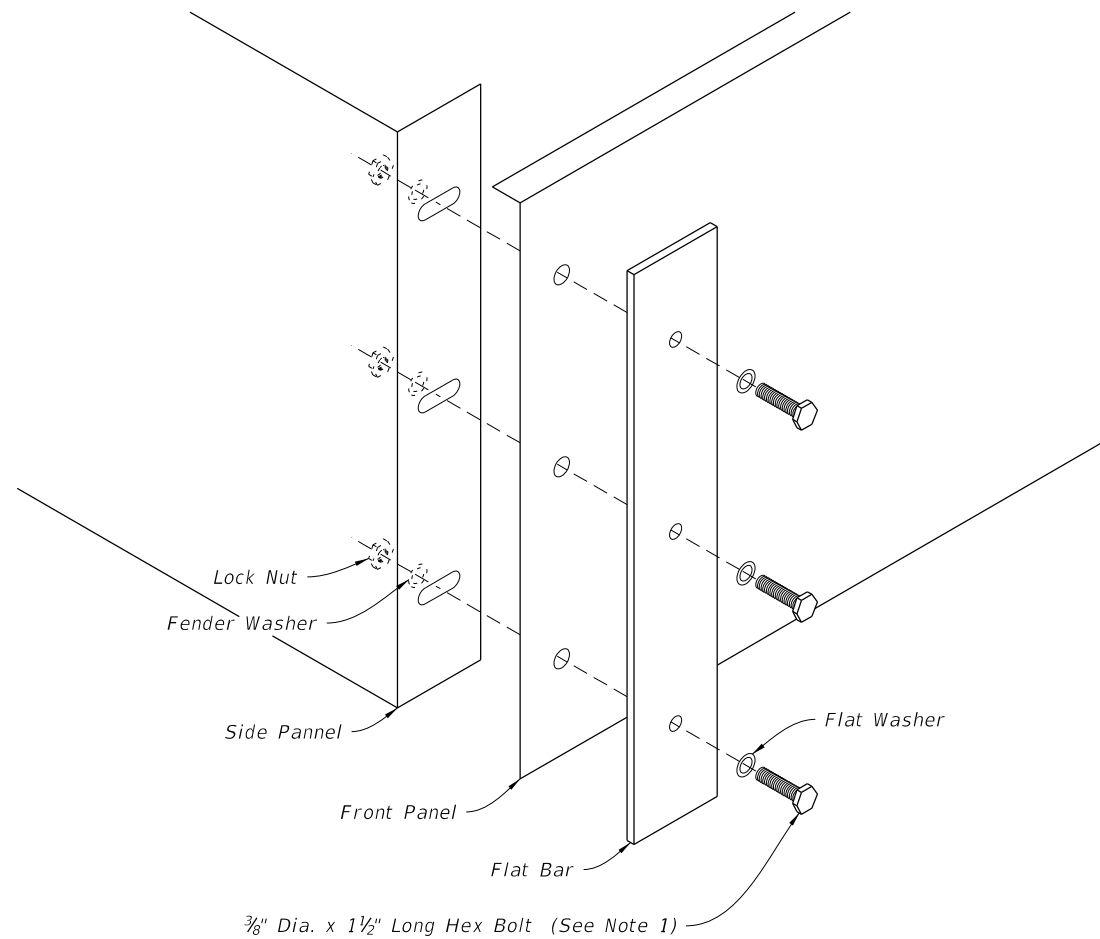


FY 2021-22
STANDARD PLANS

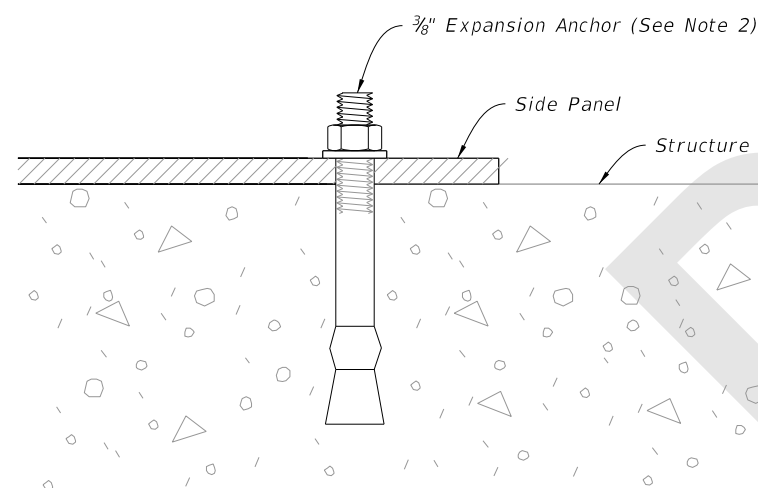
SKIMMER FOR OUTLET CONTROL STRUCTURES

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425-070

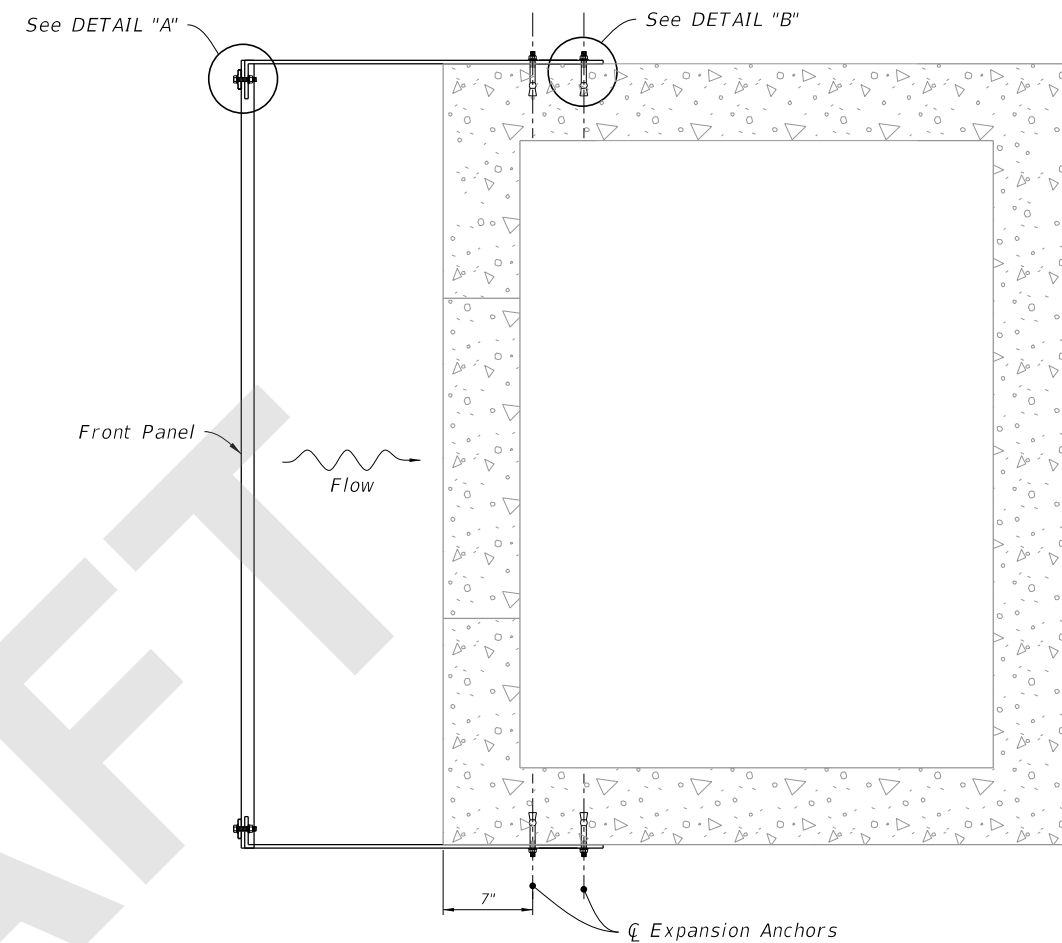
SHEET
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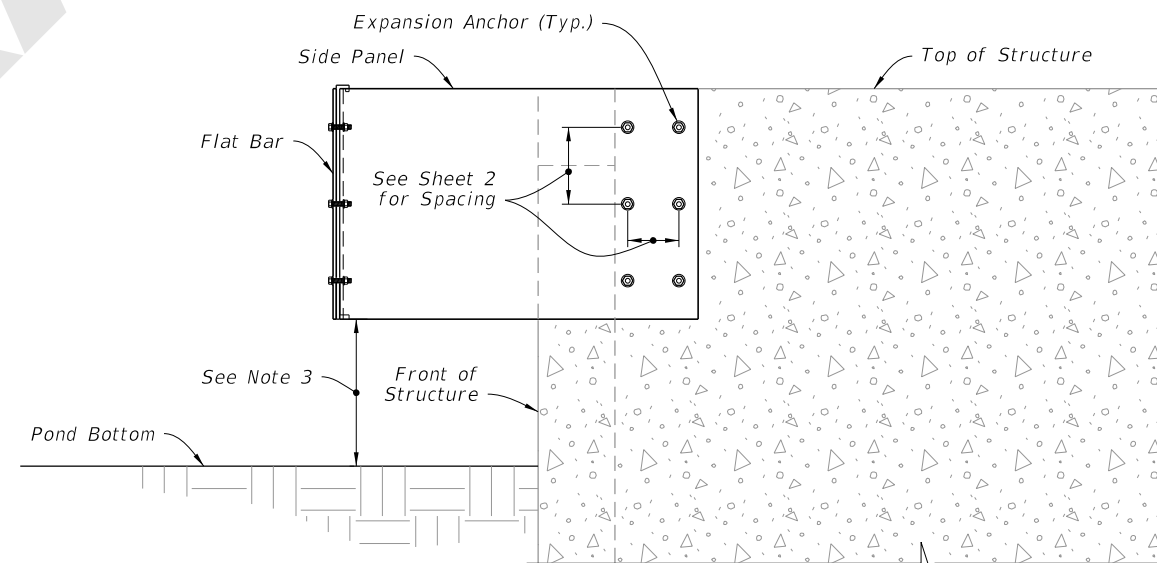
DETAIL "A"



DETAIL "B"



PLAN



SIDE ELEVATION

NOTES:

1. Hex Bolt, Flat Washer, Fender Washer, And Lock Nut, all Stainless Steel. (6 Required Per Skimmer)
2. Install a stainless steel stud type expansion anchor with nut and washer. Embedment depth = 2 1/2". Anchors to be installed according to the manufacturer's recommendations (12 required per skimmer).
3. Install the skimmer so that the distance between the pond bottom at the structure and the skimmer is not less than 1 foot.

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LAST REVISION	DESCRIPTION:
11/01/20	



FY 2021-22
STANDARD PLANS

SKIMMER FOR OUTLET CONTROL STRUCTURES

INSTALLATION DETAILS

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