¾" Dia. x 1⅜" Long Hex Bolt,
Flat Washer, Fender Washer, And
Lock Nut, all Stainless Steel.
(6 Required Per Skimmer)

Flat Bar

Side Panel

Bolt &
Flat Washer

Fender Washer &
Lock Nut

Front Panel

Side Panel — Structure

¾" Dia. Stainless Steel Stud Type
Expansion Anchor With Nut And Washer.
Embedment Depth= 2⅛, Anchors To
Be Kwik Bolt II By HILTI Corporation,
Power-Stud By Powers Fastening Inc.,
Or TruBolt By ITW Ramset/Red Head
Or Equal. Anchors To Be Installed
According To The Manufacturer's
Recommendations (12 Required Per Skimmer).

See View A

Front Panel

7"

See View B

ℓ Expansion Anchors

PLAN

PICTORIAL VIEW

Side Panel

Side Panel

Front Panel

Side Panel

VIEW A

Side Panel

Front Panel

Flat Bar

Top Of Structure

Flat Bar

Expansion Anchor Spacing Varies, See Sheet 2

Side Panel

Front Panel

Bolt Spacing
Varies See Sheet 2

Flat Bar

Front Face
Of Structure

See Design Note 2

VIEW B

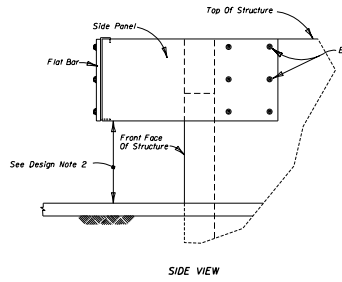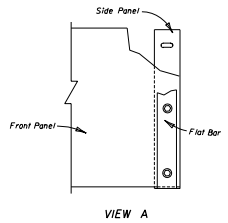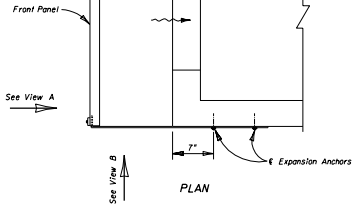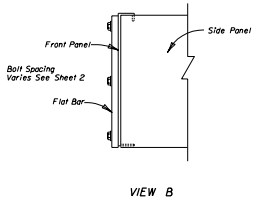**SIDE VIEW**

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.

2. The side panels are dimensionally symetric, 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 dipped 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.
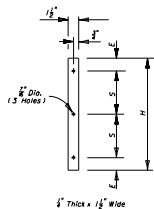
DESIGN NOTES

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.

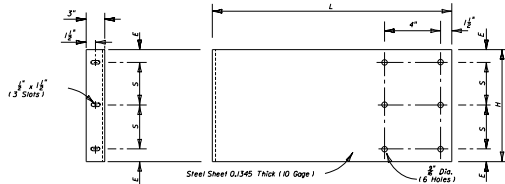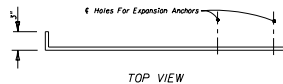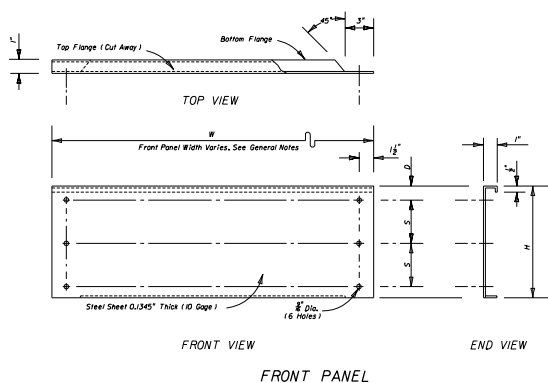6. The designer must show the configuration of the weir slots in the outlet control structure detail.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ROAD DESIGN

SKIMMER FOR
OUTLET CONTROL STRUCTURES

	Names	Dates	Approved By		
			S A McLemore		
			State Drainage Engineer		
Designed By	DRH	02/99			
Drawn By	JT	02/99	Revision	Sheet No.	Index No.
Checked By	BPW	02/99	00	1 of 2	**240**

DIMENSIONS

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

FLAT BAR

TOP VIEW

SIDE PANEL

END VIEW (FRONT)   SIDE VIEW

FRONT PANEL

FRONT VIEW   END VIEW