

Stormwater Protector Inlet Filter Lite Operation and Maintenance Manual

1.0 Identification of Drainage Structures to Determine Stormwater Protector Inlet Filter System:

1.1 The Installer (Contractor) shall inspect the plans and/or worksite to determine the catch basin drainage structure casting type. The exact grate size and clear opening size will provide the information necessary to identify the properly sized Stormwater Protector Inlet Filter system. Stormwater Protector Inlet Filter systems are supplied to the field pre-configured to fit the specified drainage structure.

2.0 Assembling the Lower Frame Assembly (see Figure 1):

2.1 Take the Lower Frame (a) and the first Protector Filter Bag (b) and starting with the Middle Protector Hooks (c), slip on the corresponding Protector Filter Bag Loops (d) onto the Middle Protector Hooks (c) for each side of the Protector Filter Bag. Now take the remaining Protector Filter Bag Loops and slip them onto the corresponding Corner Protector Hooks (e). Repeat this process for the second Protector Filter Bag.

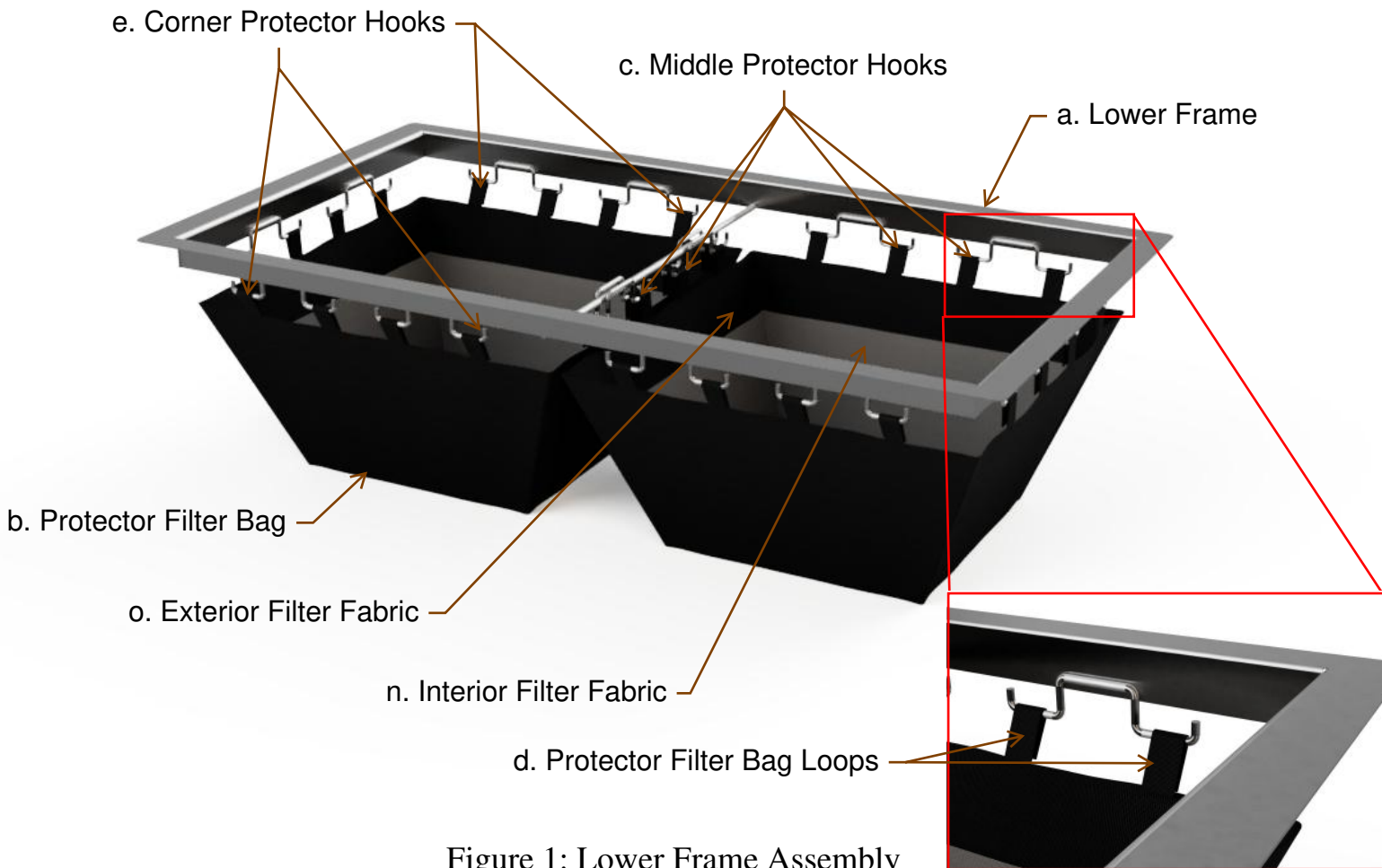


Figure 1: Lower Frame Assembly

2.0 Installation into Standard Grated Catch Basin Drainage Structures (see Figure 2):

2.1 Remove the Inlet Grate (f) from the Inlet Top Unit (g). Clean the recessed ledge (lip) of the Casting Frame (h) to ensure it is free of stone and dirt. Place the Lower Frame (a) with the previously installed Protector Filter Bags (b) through the clear opening of the structure and be sure the frame rests firmly on the inside ledge (lip) of the Casting Frame (h).

2.2 Place the Perimeter Protector (j) on top of the Lower Frame Assembly. Then place the Center Protector (k) across the middle support section of the Lower Frame Assembly. Place 2 Oil Absorbent Booms (m) into each Protector Filter Bags (b) and carefully place the Standard Inlet Grate (f) back into place.

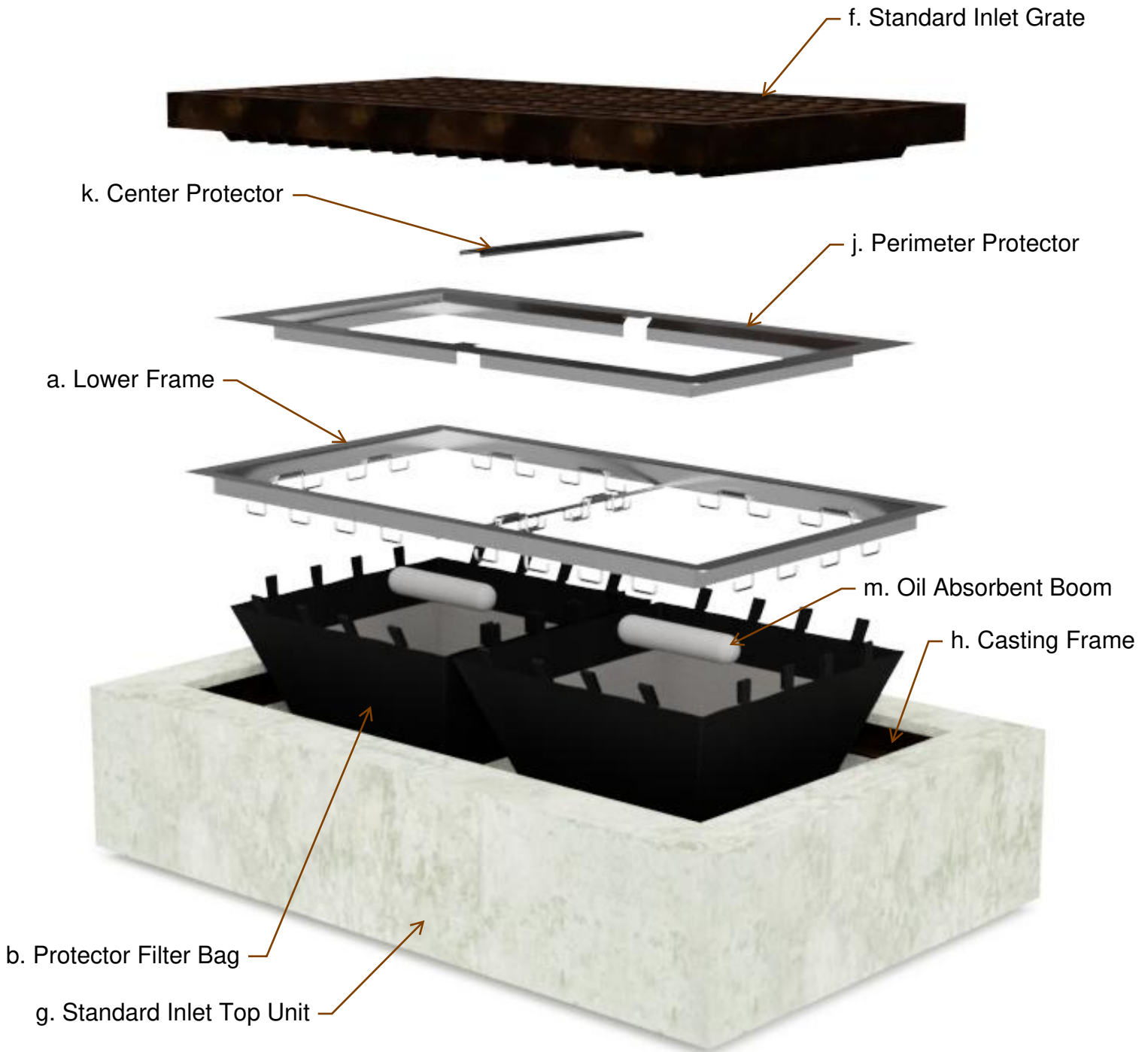


Figure 2: Exploded View

3.0 Inspection/Operation and Maintenance Guidelines:

3.1 The frequency of maintenance will vary depending on the application (during construction, post construction, or industrial use), the area of installation (relative to grade and runoff exposure), and the time of year relative to the geographic location (infrequent rain, year-round rain, rain and snow conditions).

3.2 Frequency of Inspections: Construction site inspection should occur following each ½” or more rain event. Post Construction inspections should occur three times per year (every four months) in areas with year-round rainfall and four times per year (every three months) in areas with rainy seasons before and after snowfall season. Industrial application site inspections (loading ramps, wash racks, maintenance facilities) should occur on a regularly scheduled basis no less than three times per year. Maintenance is required when the trash/sediment/debris is filled 50% to the top of the Interior Filter Fabric (**n**) or when the filter fabric is blinding causing ponding to occur within the Protector Filter Bag.

3.3 General Maintenance for filter bags:

3.3.1 *Maintenance by Mechanical Means (vactor truck)* - Remove the Standard Inlet Grate (**f**). Using the vacuum boom, carefully remove the contents from both Protector Filter Bags (**b**). Be mindful of the powerful suction and take necessary steps to keep the Lower Frame Assembly in place. Remove the Perimeter Protector (**j**) and the Center Protector (**k**) from the Lower Frame (**a**). Lift out the Lower Frame Assembly and examine the Protector Filter Bag. If it appears that there is blinding occurring, or if there is excessive hydrocarbon build up, the Protector Filter Bag should be replaced. If the Protector Filter Bag can be re-used, carefully remove the Protector Filter Bag loops from the Lower Frame in reverse order found in (2.1). Take the Protector Filter Bag and place each one inverted, over a trash can and use a low pressure washer to carefully wash out any fine sediment that is imbedded within the filter fabric. Re-install the Protector Filter Bags onto the Lower Frame by following the steps found in (2.1). Clean the recessed ledge (lip) of the Casting Frame (**h**) and place the Lower Frame Assembly back onto the Casting Frame (**h**). Place the Perimeter Protector (**j**) on top of the Lower Frame Assembly. Then place the Center Protector (**k**) across the middle support section of the Lower Frame Assembly. Place 2 new Oil Absorbent Booms (**m**) into each Protector Filter Bag (**b**) and carefully place the Standard Inlet Grate (**f**) back into place.

3.3.2 *Maintenance by Physical Means (by hand)* - Remove the Standard Inlet Grate (**f**). Remove the Perimeter Protector (**j**) and the Center Protector (**k**) from the Lower Frame (**a**). With the help of another worker, lift out the Lower Frame Assembly and carefully set it to the side of the inlet structure. Carefully remove the Protector Filter Bag loops from the Lower Frame in reverse order found in (2.1). Dump the contents of the Protector Filter Bags into trash cans or trash bags. Examine the Protector Filter Bags. If it appears that there is blinding occurring, or if there is excessive hydrocarbon build up, the Protector Filter Bag should be replaced. If the Protector Filter Bag can be re-used, take the Protector Filter Bag and place each one inverted, over a trash can and use a low pressure washer to carefully wash out any fine sediment that is imbedded within the filter fabric. Re-install the Protector Filter Bags onto the Lower Frame by following the steps found in (2.1). Clean the recessed ledge (lip) of the Casting Frame (**h**) and place the Lower Frame Assembly back onto the Casting Frame (**h**). Place the Perimeter Protector (**j**) on top of the Lower Frame Assembly. Then place the Center Protector (**k**) across the middle support section of the Lower Frame Assembly. Place 2 new Oil Absorbent Booms (**m**) into each Protector Filter Bag (**b**) and carefully place the Standard Inlet Grate (**f**) back into place.

3.3.2 The removed Protector Filter Bag shall be disposed, along with its contents, at a DEP approved disposal site.

For sales, replacement Protector Filter Bags, Oil Absorbent Booms, and all other inquiries, please contact

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