

## TrashTrap Floatables Collection System Guide Specification

Revised 05/31/18

(Verify latest version of specifications)

This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.

Section numbers are from *MasterFormat 2016 Edition*. Update section numbers to versions if required.

Specifier Notes: This section covers "TrashTrap®" Floatables Collection System (FCS). TrashTrap is custom designed to meet the specific requirements of the project.

Consult StormTrap for assistance in editing this section for the specific application.

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## SECTION 33 37 43 – NETTING SYSTEMS

### PART 1 - GENERAL

#### 1.01 DESCRIPTION

- A. This work shall consist of installing a TrashTrap®, generally referred to as a Floatables Collection System (FCS), for the purification of stormwater run-off at each location as shown on the contract plans. The unit shall treat the water quality design storm flow and drain excess flows as specified on the contract drawings.
- B. The FCS shall include at least one or more treatment systems for floatable suspended solids capture with net(s) or screening basket(s). During water quality flow events, the FCS shall retain matter that exceeds the opening size of the trash treatment device (netting bags or screening baskets) such as trash, debris, litter cigarette butts, etc. This product is produced by StormTrap, LLC. (877) 867-6872.
- C. The FCS shall use the passive energy of the influent stream to drive the floatables into disposable nets or screening baskets at the specified velocities without velocity brake or other requirements at the mouth of the net or screening basket.
- D. External by-pass structures can be utilized with TrashTrap however external by-pass structures are not required
- E. All flow is directed into the netting bag or screening basket. The netting bag or screening basket can hold sorption material to capture oil and grease. The oil sorption material contained in the netting bag can sorb oil sheen and grease. Oil sorption materials can also be located outside of the netting bag or screening device and secured to the TrashTrap structure. The net opening size determines the size of captured floatable trash and debris.
- F. Oil Storage is dependent upon selection of optional hydrocarbon accessories. Refer to the TrashTrap drawings for unit specific storage capacities.

#### 1.02 RELATED SECTIONS

- A. Section XXXXX
- B. Section XXXXX
- C. Section XXXXX
- D. Section XXXXX

#### 1.03 REFERENCE STANDARDS

- A. ASTM International (ASTM):
  - 1. A-615/615M - Standard specification for deformed and plain billet-steel bars for concrete reinforcement
  - 2. C-857 - Standard practice for minimum structural design loading for underground precast concrete utility structures
  - 3. C-858 - Standard specification for underground precast concrete utility structures

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4. C-891 - Standard practice for installation of underground precast concrete utility structures
5. C-990 - Standard specification for joints for concrete pipe, manholes, and precast box sections using preformed flexible joint sealants
6. D-3776 – Standard test method for mass per unit area (weight) of fabric
7. D-3884 – Standard guide for abrasion resistance of textile fabrics (rotary platform, double-head method)
8. D-5034 – Standard test method for breaking strength and elongation of textile fabrics
9. D-6797 – Standard test method for bursting strength of fabrics constant-rate-of-extension (CRE) ball burst

B. American Concrete Institute (ACI):

1. 318 - Building code requirements for structural concrete

C. Federal Specifications (FS):

1. FS-SS-S-210 - Sealing Compound, Preformed Plastic for Expansion Joints and Pipe Joints

1.04 DESIGN REQUIREMENTS

A. Precast concrete modular storm water detention: ASTM C 858

B. Minimum Structural Design Loading: ASTM C 857.

1. Total Cover:

- a. Minimum: As indicated on the Drawings.
- b. Maximum: As indicated on the Drawings.

2. Concrete chamber shall be designed for AASHTO HS-20 wheel load and applicable impact.

3. Minimum Soil Pressure:

- a. As indicated on the Drawings.

4. Vertical and lateral soil pressures shall be determined using:

- a. Groundwater: At or below invert of system.
- b. Soil density is assumed to be 120 pcf.

C. The FCS shall be designed to cover the entire open cross-sectional area of the outfall pipe and be able to transmit the peak flow through the pipe with a maximum head loss of no more than 4 inches.

D. The hydraulic design of the FCS shall include the mounting and support system and the precast concrete chamber as an integral unit. The FCS supplier shall be responsible for this design and shall submit calculations by a Professional Engineer licensed in the State of installation.

E. It shall be the responsibility of the supplier of the FCS to insure satisfactory operation of the total FCS as a complete, workable installation that meets the performance and materials specifications.

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1.05 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures, except shop drawings shall be eleven inches (11”) by seventeen inches (17”).
- B. Product Data: Submit manufacturer’s product data and installation instructions.
- C. Shop Drawings:
  - 1. Submit manufacturer’s shop drawings, including plans, elevations, sections, and details indicating layout, dimensions, foundation, cover, and joints.
  - 2. Indicate size and location of roof openings and inlet and outlet pipe openings.
  - 3. Indicate sealing of joints.
  - 4. Shop drawings shall be submitted for approval within thirty (30) days of notification to proceed.
- D. Certification by a Professional Engineer licensed in the State of installation shall be submitted that the FCS meets or exceeds the structural design standards listed in this specification and local codes.
- E. Operation and Maintenance Data: Submit manufacturer’s operation and maintenance instructions

1.06 DELIVERY, STORAGE AND HANDLING

- A. Delivery of Accessories: Deliver to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage of Accessories:
  - 1. Store in accordance with manufacturer’s instructions.
  - 2. Store in clean, dry area, out of direct sunlight.
- C. Handling: Protect materials during handling and installation to prevent damage.
  - 1. Contractor to provide an adequate number of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work.
  - 2. Contractor to provide adequate equipment in size, capacity, and numbers to accomplish the work in a timely manner.

1.07 WARRANTY

- A. The Manufacturer shall provide a minimum five (5) year limited warranty.

**PART 2 - PRODUCTS**

2.01 MANUFACTURER

- A. StormTrap, LLC, 1287 Windham Parkway, Romeoville, Illinois 60446. Phone (877) 867-6872. Fax (331) 318-5347. Website [www.stormtrap.com](http://www.stormtrap.com).

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- B. The Contractor shall specify the supplier to be used at the time of bid in accordance with the bidding form. No substitution of supplier of the FCS shall be allowed unless submitted 10 days prior to project bid date, or as directed by the Engineer of Record. "Or equal" statements on this form will be cause for rejection of the bid.
- C. Submissions for substitutions require review and approval by the Engineer of Record and any approving jurisdictions or agency prior to acceptance for use. Contractor is responsible for any applicable modifications to the project estimates of cost, bonding amounts, plan check fees associated with the changes, and/or any other regulatory requirements resulting from the product substitution.
  - 1. In the event that the Contractor elects to specify and install a FCS from a manufacturer that does not meet the minimum experience requirements specified in Section 2.02 of this specification, then the Contractor shall provide a performance bond or cash deposit equal to 100% of the FCS cost with the bid. This performance bond or cash deposit shall be in effect for one year from the date the system is placed in operation and accepted by the customer.
  - 2. During the term of the bond, the Contractor shall repair, modify or replace the equipment in a manner acceptable to the owner if, in the opinion of the owner, the operation of the FCS is unsatisfactory. Normal wear or malfunctions caused by neglect or abuse will not be considered justifiable reasons for unsatisfactory operation.
  - 3. In the event that the owner determines that the operation of the system is unsatisfactory during the term of the bond, and the Contractor does not correct the deficiencies within six (6) months from the date the Contractor is notified in writing that such deficiencies exist, the Owner may make the necessary repair, modification or replacement to the system and deduct the costs of such from the bond or deposit of the Contractor.

2.02 QUALITY ASSURANCE

- A. The FCS shall be a product of an established firm experienced and qualified in the manufacture and design of such systems and who can demonstrate adequate installation and performance of similar systems elsewhere. An established supplier or firm must:
  - 1. Have a minimum of ten (10) years' experience in the manufacture/design of such systems;
  - 2. Have undertaken physical modeling hydraulic studies to substantiate head loss requirements and have documented test results available for review by the engineer or owner;
  - 3. Be acceptable to the Engineer of Record.
- B. All fabricated materials shall be of the highest quality, free of structural, handling, and workmanship defects.
- C. The FCS shall be designed and manufactured to have a minimum life cycle of twenty-five (25) years.
- D. The manufacturer, upon request, shall submit to the Engineer of Record a "Performance Certification" certifying that each device can achieve the specified removal efficiencies listed in these specifications. The certification shall be supported by calculations and independent third-party research.

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2.03 MATERIALS AND DESIGN

A. Precast Concrete stormwater modules:

1. Size: As indicated on the drawings
2. Concrete:
  - a. Minimum compressive strength: 6,000 psi at 28 days
  - b. Entrained air content: 5 to 8 percent
  - c. Reinforcing bars: ASTM A 615, Grade 60
  - d. Cover for reinforcing bars: ACI 318

B. Concrete accessories:

1. Joint Tape:
  - a. ASTM C 990
  - b. 7/8-inch diameter, preformed mastic joint sealer
  - c. Approved by manufacturer
2. Joint Wrap:
  - a. 8-inch wide sealant with protective release paper
  - b. Approved by manufacturer

C. Access openings:

1. Size: As indicated on the drawings
  - a. Hatches intended for net maintenance shall have a minimum clear opening as specified on the drawings. The minimum clear opening shall be the width of the net frame plus 6-inches or more.
  - b. Hatches shall be provided with a lockable latch and lift springs or cylinders and prop up mechanism to hold the hatch doors in opened position
  - c. Circular manhole covers shall be bolt down lids
2. Size and locations approved by manufacturer
3. Manhole steps shall be installed as shown on the drawings and in conformance with OSHA requirements.

D. Pipe openings:

1. Size: As indicated on the drawings
  - a. Pipe openings shall maintain a minimum of 1'-0" clearance from a vertical edge of the TrashTrap modules

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2. Size and locations approved by manufacturer
- E. Disposable nets:
1. The disposable nets and net support frames shall be of adequate size and shape to withstand anticipated hydraulic and other loads specified and not restrict the ease of removal and replacement of the nets within the FCS.
  2. The net frame shall be constructed of wood or a single piece molded from high density polyethylene plastic with lifting holes formed into the tapered frame. The net frame shall be sized as indicated on the drawings.
  3. The mesh net material shall be secured to the net frame in a manner that exceeds the yield strength of the mesh material.
  4. Disposable nets shall be constructed of a knotless knitted mesh synthetic material with openings as indicated on the drawings mounted on a one-piece molded plastic tapered frame, sized to permit rapid installation and removal from the floatables collection system without contact with the floatables captured in the net. Systems that use hooks to attach the disposable mesh nets to the frame or require the use of a lifting cassette are acceptable.
  5. The composition, denier, and the method of knitting of the mesh material shall be such that the finished mesh material has a minimum tensile strength of 250 pounds and a minimum elongation of 100% in the direction of the fabric wales and a minimum tensile strength of 220 pounds and a minimum elongation of 100% in the direction of the fabric courses. The tensile strength shall be determined by an independent accredited testing laboratory of The American Association for Laboratory Accreditation using ASTM Test Procedure D-5034-95 using an Instron® Testing Machine. The testing laboratory must be accredited for technical competence in the field of Mechanical Testing and be certified to perform tensile and strength tests. The supplier of the disposable nets shall provide certified copies of these test results at the request of the engineer.
  6. The composition denier, and the method of knitting of the mesh material shall be such that the finished mesh material has a minimum burst strength of 250 pounds. The burst strength shall be determined by an independent accredited testing laboratory of the American Association for Laboratory Accreditation using ASTM test procedure D-6797 on a ball bursting system strength testing machine. The testing laboratory must be accredited for technical competence in the field of mechanical testing and be certified to perform burst strength tests. The supplier of the disposable nets shall provide certified copies of these test results at the request of the engineer.
  7. The composition, denier, and the method of knitting of the mesh material shall be such that the finished mesh material shall have a minimum abrasion resistance of 40 cycles. The abrasion resistance shall be determined by an independent accredited testing laboratory of the American Association for Laboratory Accreditation using ASTM test procedure D-3884 on a Taber abrasion testing machine with H18 wheels as the abradant and 1000 grams/wheel load. The testing laboratory must be accredited for technical competence in the field of mechanical testing and be certified to perform abrasion tests. The supplier of the disposable nets shall provide certified copies of these test results at the request of the engineer.

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8. The composition, denier, and the method of knitting of the mesh material shall be such that the finished mesh material shall have a weight of at least 11.5 ounces per square yard. The weight shall be determined by an independent accredited testing laboratory of the American Association for Laboratory Accreditation using ASTM test procedure D-3776, option C. The testing laboratory must be accredited for technical competence in the field of mechanical testing. The supplier of the disposable nets shall provide certified copies of these test results at the request of the engineer.
9. The seams of the net shall be formed by rolling and stitching in a manner that produces a burst strength of at least that of the material itself as measured using ASTM test method D-6797 as performed on a ball bursting system strength testing machine. The supplier of the disposable nets shall provide certified copies of these test results at the request of the engineer.
10. The material shall be stable over the temperature range of –20 to +115 degrees Fahrenheit without melting, deforming or otherwise suffering loss of the mechanical and chemical properties contained in this specification.
11. The material shall be unaffected by chemical pH from 4.5 to 7.5 as determined using the American Association of Textiles Chemists and Colorists pH Test Procedure.

F. LiftMaster lifting units

1. The LiftMaster lifting units shall be constructed of materials of adequate size and type to withstand anticipated loads per the structural calculations.
2. The LiftMaster lifting units shall be of adequate size and shape to withstand anticipated hydraulic and other loads specified and not restrict the ease of removal and replacement of the nets within the FCS.
3. The net and its frame shall fit into the LiftMaster lifting units in a manner that minimizes the possibility of the net material being cut or abraded by contact with the LiftMaster frame.
4. The LiftMaster lifting unit that holds the disposable mesh nets and support frame shall be equipped with hold down devices that prevent the nets from floating up out of the lifting LiftMaster when the device is surcharged.
5. The design of the device shall allow for the removal of the nets without removing the LiftMaster lifting unit from the system. Products that do not allow this operating and maintenance flexibility are not acceptable.

G. Bypass grating, and sluice gates

1. The bypass grating and sluice gates shall be constructed of materials of adequate size and type to withstand anticipated loads per the structural calculations.
2. The bypass grating and sluice gates shall be of adequate size and shape to withstand anticipated hydraulic and other loads specified and not restrict the ease of removal of trash and debris contained within the FCS.
3. The bypass grating shall be constructed of materials of adequate size and type to withstand anticipated loading with a minimum deflection of ¼ inch or less under a uniform live load of 100 pounds and a deflection of ¼ or less under a concentrated live load of 300 pounds applied at mid span.

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4. The net support frame can be equipped with removable sluice gates that when inserted into the frame blocks the entire opening of the frame and does not allow trash or floatables to escape during the change out operation. The sluice gate shall slide into place from the surface and be easily installed and removed.
5. The LiftMaster support frame can be equipped with removable sluice gates that are inserted in place in front of the nets prior to removing the lifting LiftMaster and changing the disposable nets. The sluice gates shall prevent the escape of floatables during the net change out procedure and have self-cleaning edges when inserted in the guides.

H. Screening Baskets

1. The screening baskets shall be constructed of materials of adequate size and type to withstand anticipated loads per the structural calculations
2. The screening baskets shall be of adequate size and shape to withstand anticipated hydraulic and other loads specified and not restrict the ease of removal of trash and debris contained within the FCS.
3. The opening size of the screening baskets shall be sized as indicated on the drawings

I. Mounting and Support System and Guide Rails:

1. The mounting system, lifting units, guide rails, and support members shall be constructed of materials of adequate size and type to withstand anticipated loads per the structural calculations.
2. The mounting system, lifting units, guide rails, and support members shall be of adequate size and type to withstand anticipated hydraulic and other loads specified and not restrict the ease of removal of trash and debris contained within the FCS.
3. The mounting and support system, guide rails, and drain screen shall be installed in the concrete channel surfaces, horizontal and vertical as designed using bolts, nuts, and washers of adequate size and numbers to withstand the anticipated loads.
  - a. All mounting will be "drill-in" type anchors and drilled into the sidewalls and floor of the containment chamber.
  - b. The mounting system will be designed for the impact by the peak flow rate.
4. The guide rails shall extend from the top of the net support frame to the bottom of the lid.
5. If not factory assembled, the manufacturer shall supply all necessary hardware required to install the mounting and support system to the concrete housing. This hardware shall be of the same materials of construction as the mounting and support system.
6. For systems with pipe inverts more than 12 feet below grade, guide rails and LiftMaster shall be included in the system. The guide rails shall allow the LiftMaster to be easily removed and re-installed from the surface. The guide rails shall extend from the top of the net support frame to the top of the inside of the precast chamber and are securely fastened to the precast chamber.
7. Calculations to document that the design meets the bid requirements shall be provided by the CONTRACTOR with the Submittals.

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8. The mounting and support system area shall be kept to a minimum and shall direct flow into the open mouth of the nets or screening baskets to the maximum extent practical.

J. Netting accessories (Optional):

1. Sizing: Sorbent booms shall be placed in the device for the absorption of gasoline; diesel fuel, lube oil, jet fuel, transformer oils, chlorinated solvents, aromatic solvents, hydraulic oils, light crude.
2. The sorbent boom or Rubberizer® boom shall be manufactured by Haz-Mat Response Technologies Inc. or approved equal.
3. Refer to sorbent boom manufacturer for specific product details

2.04 PERFORMANCE

- A. The FCS shall not require a driving head to function properly.
- B. The FCS shall not have a net physically attached, mechanically connected, or tethered to a pipe
- C. The FCS shall use disposable nets or screening baskets of the same height, width and length positioned as shown on the drawings. The active capacity of the installed nets or baskets shall be sufficient to handle the peak flows specified the drawings. The mounting and support system area shall be kept to a minimum and shall direct flow into the open mouth of the nets or baskets to the maximum extent practical.
- D. The FCS shall cover the entire open cross-sectional area of the outfall pipe and be able to transmit the peak flow through the pipe with a maximum head loss of no more than 4 inches. The supplier of the FCS shall have conducted physical hydraulic modeling to substantiate that their design meets this head-loss requirement.
- E. The hydraulic design of the FCS shall include the mounting and support system and the precast concrete chamber as an integral unit. The approved FCS supplier shall be responsible for this design and shall submit calculations by a Professional Engineer licensed in the state of the installation.
- F. The design flows stated in the specifications are for the entire facility which includes both the netting bags or screening baskets in addition to the screens. The facilities are to be designed to pass these flows by use of the sum of the open or effective area obtained from both the netting bags or screening baskets and the bar screens in each facility. The netting or screening basket equipment shall be constructed to withstand velocities of up to 5 feet per second. This is not to be misinterpreted that the netting or basket equipment is required to pass all of the specified flows since it is the combination of the netting or basket equipment and the bar screens that are designed to pass these specified flows. The dimensions specified for both the bar screens and openings for the netting or baskets are critical and shall be maintained.
- G. The inlet pipe shall discharge the stormwater into the net or basket cavity. Gross pollutants and particles larger than the net or screen opening enter the net or basket cavity where they are captured prior to the stormwater exiting the device.
- H. Trash and debris shall be removable without the need for OSHA confined space entry into the FCS and without risk to maintenance personnel coming in contact with the material captured in the device during the changeout operation.
- I. The particles that shall be removed are all particles 5 mm or greater for all projects located in the state of California.

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- J. Capacities:
1. Water quality flow           \_\_ CFS
  2. Peak flow                       \_\_ CFS
  3. Peak velocity                 \_\_ Ft/Sec
  4. Hydrocarbon capacity       \_\_ Gallons (If utilized)
  5. Trash/Debris capacity       \_\_ Ft3.
  6. Net/Screen Opening size   \_\_ in (For all projects located in CA 4.7 mm)
- K. It shall be the responsibility of the supplier of the FCS to insure satisfactory operation of the total FCS as a complete, workable installation that meets the performance and materials specifications of this contract.

**PART 3 - INSTALLATION**

3.01 EXAMINATION

- A. Examine area to receive the manufactured treatment device. Notify the engineer if area is not acceptable. Do not begin installation until unacceptable conditions have been corrected.
- B. Verify in field before installation, dimensions and soil conditions, including but not limited to groundwater and soil bearing capacity.
- C. Coordinate with other trades as required to assure proper and adequate provision in the work of those trades for interface with the work described in this section.

3.02 METALLIC COMPONENTS FABRICATION

- A. Fabrication of the FCS shall be in strict accordance with the design indicated on the submittal drawings.
- B. If field installation is applicable, the FCS shall be provided with mounting brackets and mounting anchors. Refer to installation guide for more detailed installation guidelines and procedures.
- C. Set work accurately into position as indicated on the submittal drawings. Ensure the components are plumb, level and true.
- D. Components shall be installed in accordance with the manufacturer's instructions per the submittal drawings.

3.03 PRECAST MODULAR STORMWATER STRUCTURES

- A. Stormwater modules shall be manufactured according to shop drawings approved by the installing contractor and engineer. The shop drawings shall indicate size and location of roof openings and pipe openings.
- B. Excavation shall be as specified in Section 02300 (31 00 00)
- C. Modules shall be installed in accordance with manufacturer's instructions and ASTM C 891-09, standard practice for installation of underground pre-cast concrete utility structures. The following additions and/or exceptions shall apply:

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1. Specifications on the engineer's drawings shall take precedence
  2. Modules shall be placed on a level pad of 3/4" aggregate that extends 2'-0" past the outside of the system, per ASTM C891-09
  3. Modules shall be placed such that the maximum space between adjacent modules does not exceed 3/4". If the space exceeds 3/4", the modules shall be reset with appropriate adjustment made to line and grade to bring the space into specification
  4. The perimeter horizontal joint of the modules shall be sealed with preformed mastic joint sealer according to ASTM C891-09, 8.8 and 8.12.
  5. All exterior joints between adjacent modules shall be sealed with pre-formed, cold-applied, self-adhering elastomeric resin bonded to a woven highly puncture resistant polymer wrap conforming to ASTM C891-09 and shall be 0'-8" wide with integrated primer sealant as approved by manufacturer. The adhesive exterior joint wrap shall be installed according to the following installation instructions:
    - a. Use a brush or wet cloth to thoroughly clean the outside surface at the point where the joint wrap is to be applied
    - b. A release paper protects the adhesive side of the joint wrap. Place adhesive tape (Butyl side down) around the structure, removing the release paper as you go. Press the joint wrap firmly against the module surface when applying.
- D. Modules shall be backfilled in accordance with manufacturer's instructions and ASTM C 891-09, standard practice for installation of underground pre-cast concrete utility structures. The following additions and/or exceptions shall apply:
1. The fill placed around the device must be deposited on both sides at the same time and to approximately the same elevation. At no time shall the fill behind one side wall be more than 2'-0" higher than the fill on the opposite side.
  2. Backfill shall be compacted to 95% standard proctor density or otherwise specified by engineer.
  3. Care shall be taken to prevent any wedging action against the structure, and all slopes bounding or within the area to be backfilled must be stepped or serrated to prevent wedge action.
  4. Care shall also be taken as not to disrupt the joint wrap from the joint during the backfill process.
  5. Backfill material shall be clean, crushed, angular No.5 (AASHTO M43) aggregate.
- E. Align the center of pipe to correct elevation and insert into opening. The annular space between the pipe and the opening shall be filled with non-shrink grout.
- F. Use precast adjusting rings as needed to meet grade. For cover over 2'-0" it is recommended to use a precast barrel or cone section.
- G. The contractor is responsible to ensure the selected water tight solution performs as specified by the manufacturer.
- H. Do not use modules that are damaged, as determined by manufacturer.

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3.04 MANUFACTURER INSTALLATION TECHNICAL ASSISTANCE

- A. At the time and place of installation of any TrashTrap®, StormTrap, LLC. will provide a Product Liaison on site to offer installation advice to the installation contractor if reasonable notification (approximately two-week notice) of the install date is given.

3.05 OPERATION AND MAINTENANCE

- A. Trash and debris shall be removable without the need for OSHA confined space entry into the FCS and without risk to maintenance personnel coming in contact with the material captured in the device during the changeout operation.
- B. The maintenance of the TrashTrap® is the responsibility of the Owner. Each site has unique site conditions. It is the responsibility of the Owner to establish a schedule according to the conditions of the specific TrashTrap location. Failure maintain the device can lead to reduced flow capacity and blockage due to collected pollutants. It is strongly recommended that the Owner follow the prescribe maintenance specifications and procedures published by StormTrap, LLC.

**END OF SECTION 33 37 43**

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