THE ECOSTREAM BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY THAT RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL AND GREASE, TRASH AND BACTERIA.

Model	Vault Size (m)	Media Filtration Area (m^2)	Min Inlet to Outlet Depth[1] (mm)	Overflow to Outlet Depth (mm)	Design Treatment Rate (L/s)	Bypass Standpipe (mm)	Tree Grate Size & Number
ES16E	1.2 x 1.2	1.49	813	813	3.1	150	900 mm (1x)
ES24E	1.2 x 1.8	2.23	813	813	4.7	150	900 mm (1x)
ES32E	1.2 x 2.4	2.97	813	813	6.3	150	900 mm (1x)
ES36E	1.8 x 1.8	3.34	813	813	7.1	150	1200 mm (1x)
ES40E	1.2 x 3.0	3.72	813	813	7.9	150	900 mm (2x)
ES48E	1.2 x 3.7	4.46	813	813	9.5	150	900 mm (2x)
ES48E	1.8 x 2.4	4.46	813	813	9.5	150	1200 mm (1x)
ES60E	1.8 x 3.0	5.57	813	813	11.8	200	1200 mm (1x)
ES72E	1.8 x 3.7	6.69	813	813	14.2	200	1200 mm (2x)
ES80E	2.4 x 3.0	7.43	813	813	15.8	200	1200 mm (1x)
ES96E	2.4 x 3.7	8.92	813	813	18.9	250	1200 mm (2x)
ES112E	2.4 x 4.3	10.41	813	813	22.1	250	1200 mm (2x)
ES128E	2.4 x 4.9	11.89	813	813	25.2	250	1200 mm (2x)

[1] *A min drop of 737 mm can be used however the design engineer must review the 76 mm tailwater (up to the beehive bypass) on the inlet pipe to ensure it does not affect the project's overall design.*

NOTES:

- UNDERDRAIN SHOWN IS SCHEMATIC ONLY. FOR DETAILS ON UNDERDRAIN SIZING AND LAYOUT SEE ECOSTREAM INSTALLATION GUIDE FOR DETAILS, KIT NUMBER AND PLACEMENT OPTIONS.

ADS ECOSTREAM SPECIFICATIONS

PRODUCTS

A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA.

C. PRECAST CONCRETE VAULT: DESIGNED FOR CL-625 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

PERFORMANCE

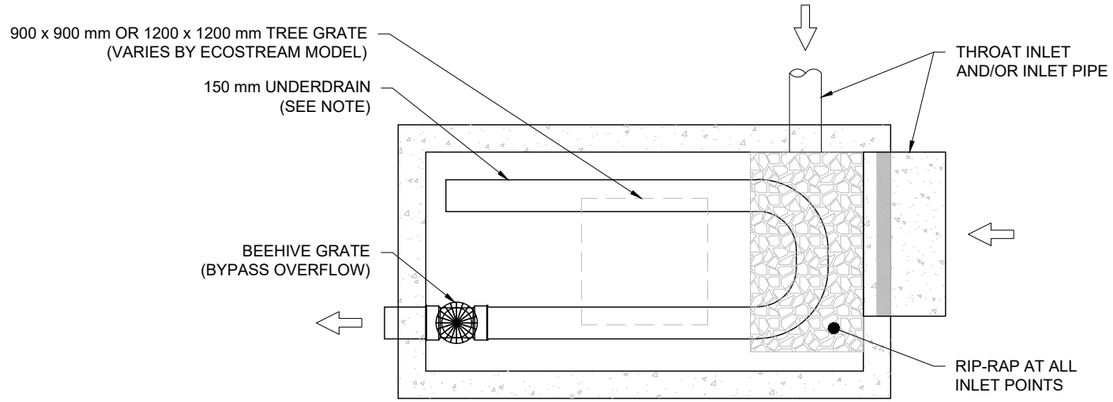
A. THE STORMWATER FILTER SYSTEM SHALL BE AN ONLINE OR OFFLINE DESIGN BASED ON LOCAL REQUIREMENTS CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.

B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.

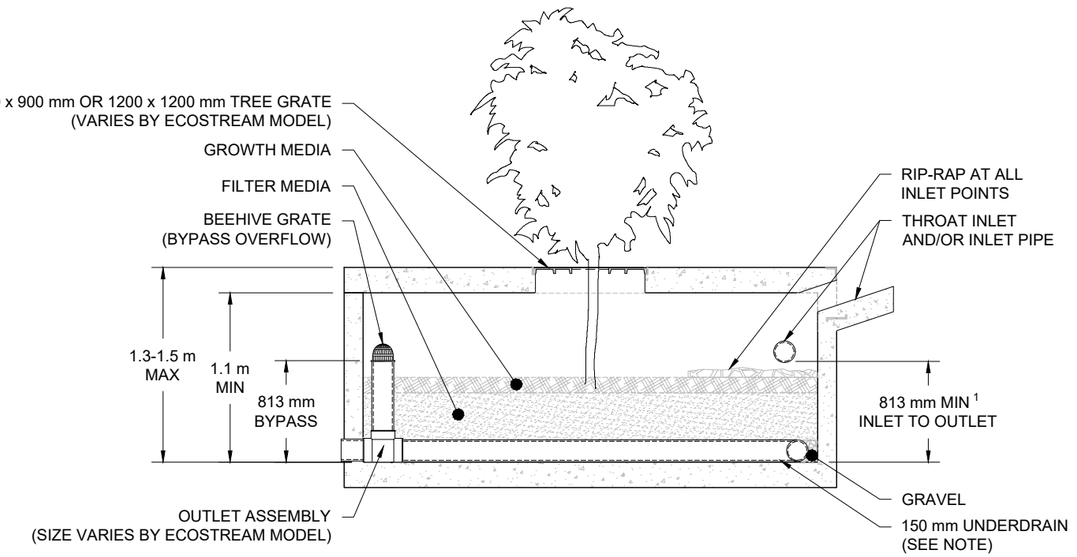
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF SUSPENDED SOLIDS, 62% TOTAL PHOSPHORUS, 35% DISSOLVED COPPER, AND 61% DISSOLVED ZINC.
   - SIZED AT A HYDRAULIC LOADING RATE OF NO MORE THAN 2.125 LITERS PER SECOND PER SQUARE METER OF MEDIA SURFACE
   - CONSTRUCTED WITH A MINIMUM MEDIA THICKNESS OF 127 mm OF GROWTH MEDIA AND 381 mm OF BIOFILTRATION MEDIA.

ECOSTREAM INSTALLATION NOTES

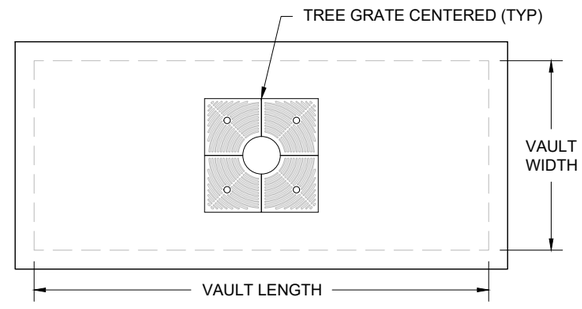
INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY LOGGING ON TO WWW.ADSPIPE.COM.



ECOSTREAM PLAN VIEW WITH TREE GRATE
NOT TO SCALE



ECOSTREAM PROFILE VIEW WITH TREE GRATE
NOT TO SCALE



TREE GRATE PLACEMENT
SIZE AND NUMBER OF TREE GRATES VARY BY ECOSTREAM MODEL

ECOSTREAM BIOFILTER
TREE GRATE INSTALLATION
ENHANCED MEDIA

DATE: 05/21/26 | DRAWN: JLM
DRAWING #: 570-110_C | CHECKED: TD/AT/PR

DATE	DWN	CHK

EcoStream™ Biofilter
Stormwater Media Filters

4640 TRUEMAN BLVD
HILLIARD, OH 43026

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD ("EOR") OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.