

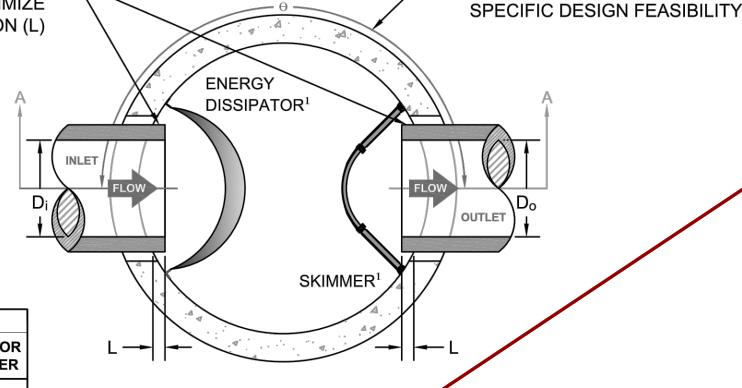
REFER TO MANHOLE SIZING

CHART TO ENSURE PROJECT

THE PRESERVER SPECIFY WITH CONFIDENCE

PLAN VIEW

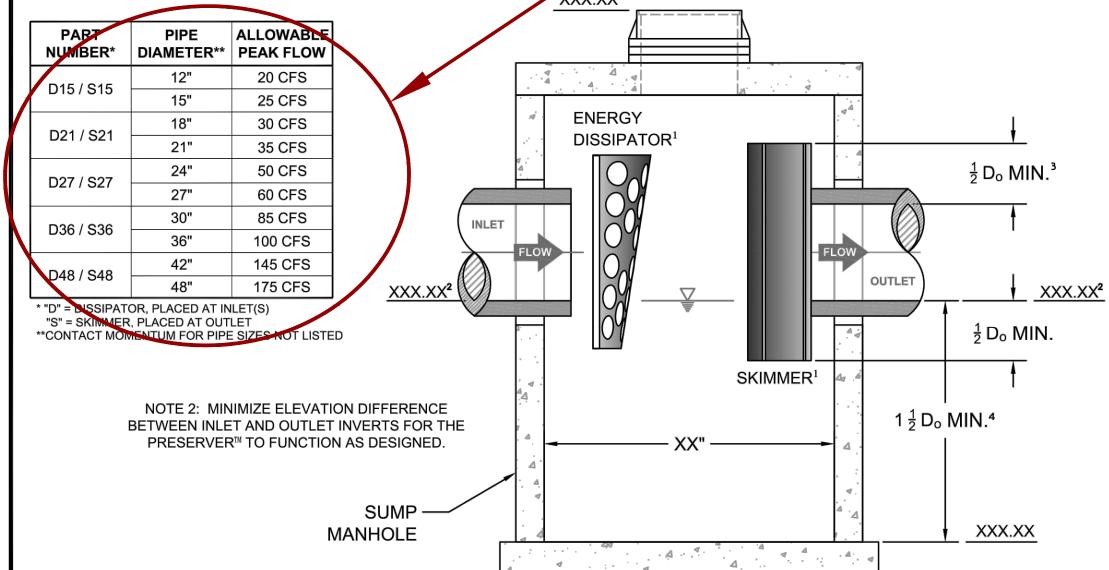




CROSS SECTION AA

NOTE 1: THE PRESERVER™ ENERGY DISSIPATOR WAS DESIGNED AND TESTED

MAXIMUM PIPE DIAMETER* DISSIPATOR DIAMETER* & SKIMMER 48" 27" 24" 15" 30" 24" 36" 48" 36"



NOTE 3: STOCK SKIMMERS HAVE A MINIMUM FREEBOARD DEPTH OF $\frac{1}{2}$ D₀. FOR GREATER FREEBOARD DEPTHS, DESIGNERS CAN UPSIZE THE SKIMMER, OR USE A CUSTOMIZED SKIMMER. FOR CUSTOM DESIGNS, AND/OR PROJECT SPECIFIC DETAILS, CONTACT MOMENTUM.

NOTE 4: ADDITIONAL DEPTH IS RECOMMENDED FOR POLLUTANT STORAGE ($1\frac{1}{2}$ D₀ + POLLUTANT STORAGE DEPTH). SIZING CALCULATOR SHOULD BE USED TO ENSURE ADEQUATE POLLUTANT STORAGE VOLUME.

Not to Scale

∍om∈ntum

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THE PRESERVER™ STANDARD INSTALL DETAIL

PROUDLY MATERIALS:

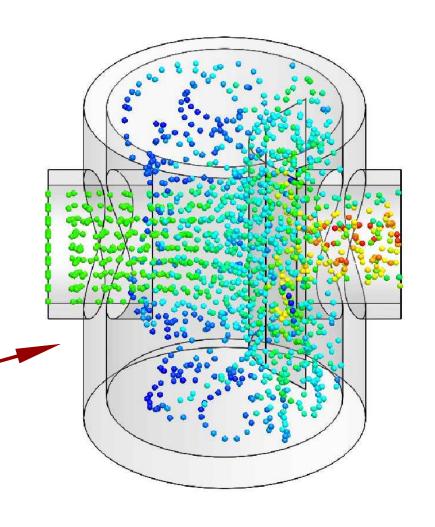
MADE IN THE

-100% recycled HDPE
-Stainless steel brackets
-Stainless steel hardware **ENERGY DISSIPATOR** AND/OR SKIMMER

CONCEPTUAL PLAN DISCLAIMER: THIS GENERIC DETAIL DOES NOT ENCOMPASS THE SIZING, FIT, AND APPLICABILITY OF THE PRESERVER FOR THIS SPECIFIC PROJECT. I S THE ULTIMATE RESPONSIBILITY OF THE DESIGN ENGINEER TO ASSURE THAT THE STORMWATER SYSTEM DESIGN IS IN FULL COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. MOMENTUM ENVIRONMENTAL LLC DOES NOT APPROVE PLANS, SIZING, OR SYSTEM DESIGNS. THE DESIGN ENGINEER IS RESPONSIBLE FOR ALL DESIGN DECISIONS

STRUCTURAL:

- DESIGNED TO WITHSTAND **EXTREME EVENTS**
- FORCES CALCULATED **USING COMPUTATIONAL FLUID DYNAMICS**



PERFORMANCE:

• SEDIMENT REMOVAL & RETENTION FUNCTIONS **DETERMINED WITH** LAB TESTING

FIELD VERIFIED





Preserver Case Study

County State Aid Highway 23 Reconstruction - Oak Park Heights, MN





The Preserver was specified to provide pretreatme

- 3' sump depth
- Ø15" inlet, with dissipator

Ø15" outlet, with skimmer

2017 Year-End Performance:

- 2,418 lbs material captured, including:
- 0.232 lbs phosphorus
- Significant heavy metals - 1.50 specific gravity

Observations:

- Heavy leaf loading resulted in some accumulation at the inlet, which cleared following larger storm events.
- Device functioned as intended; capturing & retaining material in the structure.
- Low specific gravity of retained material likely indicates high organic content.









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