

MICRO INFILTRATION TRENCH

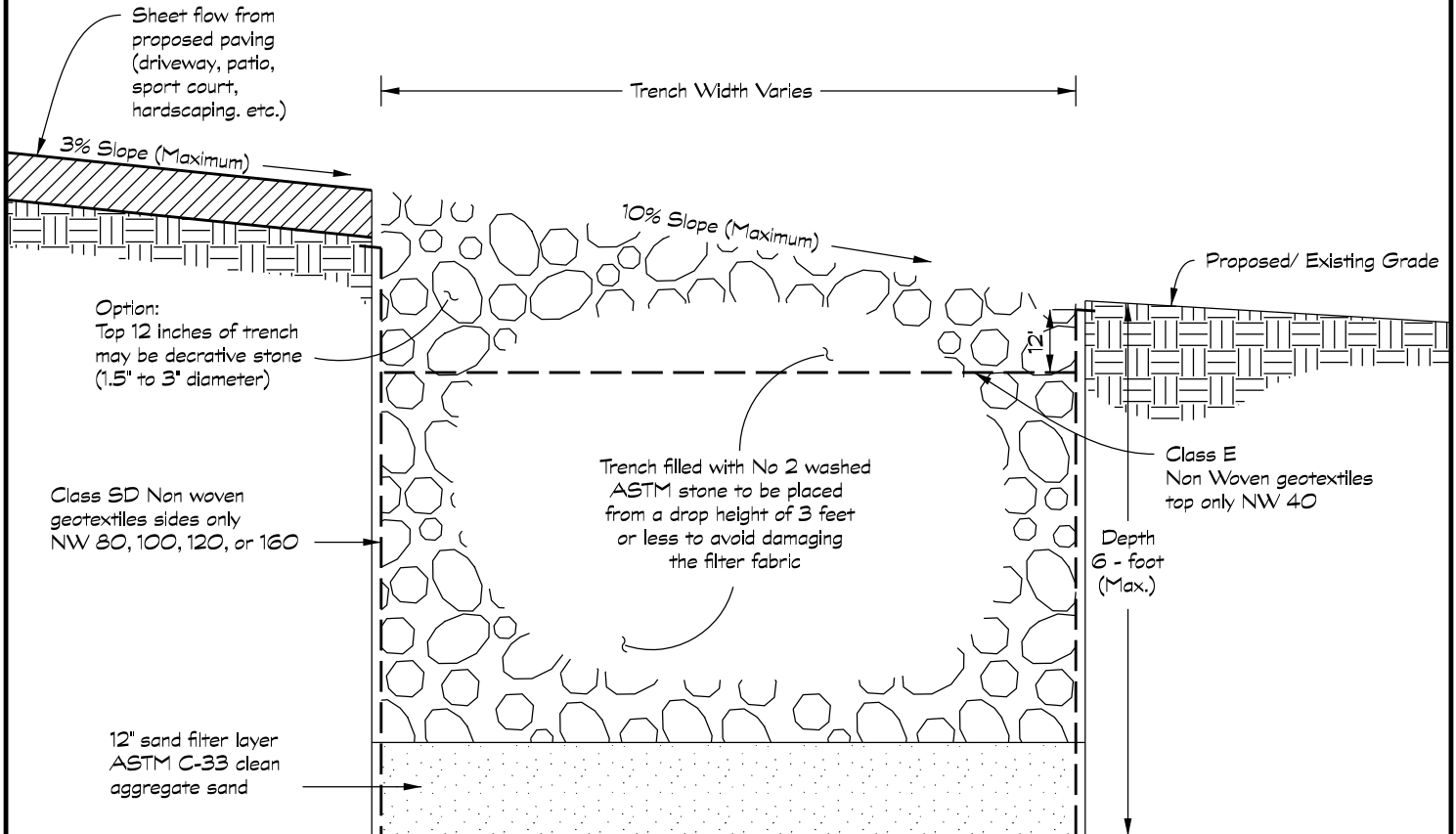
ADAPTED FROM MONTGOMERY COUNTY DPS DESIGN

Carroll County Designation (M-10)

SECTION VIEW A-1

NOT TO SCALE

SEE PLAN FOR ALL DIMENSIONS

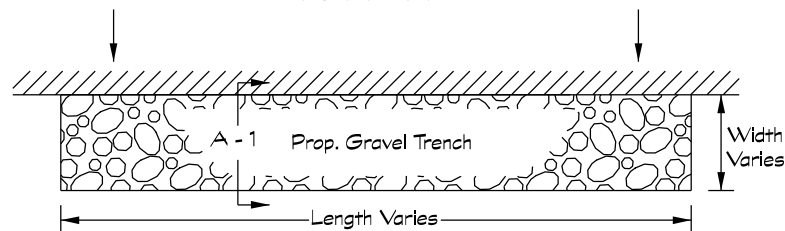


PLAN VIEW

NOT TO SCALE

SEE PLAN FOR ALL DIMENSIONS

Proposed Paving/
Hardscaping Cross-Sloped
to Gravel Trench



Notes: The micro infiltration trench is a Montgomery County DPS adaptation of a standard drywell design. Carroll County BRM further revised it to match our drywell standards.

All drywell standards and design limitations apply to micro infiltration trenches
The maximum drainage area (including the trench)
is 1,000 square feet

November 2020
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Revised April, 2025

CONSTRUCTION SEQUENCE & INSPECTION CHART FOR MICRO - INFILTRATION TRENCH		
STAGE	ENGINEER'S APPROVAL	
	INITIALS	DATE
1. ENSURE DRAINAGE AREA IS PAVED AND STABILIZED WITH 2" OF DENSE GRASS		
2. EXCAVATE TRENCH TO PLAN DIMENSIONS		
3. PLACE CLASS SD GEOTEXTILE ON SIDES OF TRENCH		
4. PLACE C-33 SAND LAYER		
5. PLACE NO 2 WASHED STONE		
6. PLACE CLASS E GEOTEXTILE OVER NO 2 STONE		
7. PLACE NO 2 WASHED STONE OR DECORATIVE STONE OVER GEOTEXTILE		
8. SUBMIT AS-BUILT PAPER CERTIFICATION TO CARROLL COUNTY BUREAU OF RESOURCE MANAGEMENT WITHIN 30 DAYS OF CONSTRUCTION COMPLETION		

* PLEASE NOTIFY CERTIFYING ENGINEER 24 HRS PRIOR TO CONSTRUCTION *

CERTIFYING ENGINEER/LAND SURVEYOR'S NAME : _____

CERTIFYING ENGINEER/LAND SURVEYOR'S PHONE NUMBER: _____

**SWM SEQUENCE OF CONSTRUCTION
MICRO-INFILTRATION TRENCH**

1. CONTACT CERTIFYING PROFESSIONAL ENGINEER/ PROFESSIONAL LAND SURVEYOR A MINIMUM OF 24 HOURS PRIOR TO EXCAVATION OF TRENCH HAVE ALL MATERIALS ON SITE.
2. CONSTRUCT TRENCH PER STANDARD DETAILS AND INSPECTION CHART UNDER SUPERVISION OF CERTIFYING PROFESSIONAL.
3. SUBMIT AS-BUILT CERTIFICATION TO CARROLL COUNTY BRM FOR BOND RELEASE.

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STORMWATER MAINTAINANCE SCHEDULE
MICRO-INFILTRATION TRENCH

MONTHLY INSPECTION		
INSPECTION ITEM	INSPECTION REQUIREMENTS	REMEDIAL ACTION
DEBRIS AND TRASH	CHECK FOR TRASH AND DEBRIS IN FACILITY AND AREA AROUND FACILITY	REMOVE ALL TRASH AND DEBRIS AND DISPOSE IN AN ACCEPTABLE MANNER.
SEASONAL INSPECTION AND AFTER A MAJOR STORM		
INSPECTION ITEM	INSPECTION REQUIREMENTS	REMEDIAL ACTION
DEWATERING	CHECK PONDING LEVEL. SURFACE STORAGE MUST DEWATER WITHIN 48 HOURS OF RAINFALL. NOTICEABLE ODORS, STAINED WATER ON THE FILTER SURFACE OR AT THE OUTLET, OR THE PRESENCE OF ALGAE OR AQUATIC VEGETATION ARE INDICATORS OF ANAEROBIC CONDITIONS AND INADEQUATE DEWATERING OF THE FACILITY.	REMOVE AND REPLACE TOP LAYER OF STONE, ANY ACCUMULATED SEDIMENT AND DEBRIS, AND CLASS E GEOTEXTILE. IF THE FACILITY DOES NOT FUNCTION AS INTENDED AFTER THE ABOVE ACTION, THE ENTIRE SYSTEM MAY NEED REFURBISHING.
EROSION	CHECK THAT SHEET FLOW IS BEING MAINTAINED INTO AND OUT OF PRACTICE. CHECK TRENCH SURFACE AND SIDE SLOPES FOR EROSION, RILLS GULLIES, AND RUNOFF CHANNELIZATION.	RE-GRADE IF CONCENTRATED FLOW IS CAUSING RILLS OR GULLYING THROUGH THE FACILITY. GRADE VEGETATE, AND/OR ARMOR TO PROVIDE STABLE CONVEYANCE IN ACCORDANCE WITH APPROVED PLANS.
SEDIMENT ACCUMULATION	CHECK FOR ACCUMULATED SEDIMENT IN CONVEYANCE SYSTEMS CHECK FOR ACCUMULATED SEDIMENT ON TRENCH SURFACE. CHECK FOR CLOGGED OPENINGS	REMOVE AND REPLACE TOP LAYER OF STONE, ANY ACCUMULATED SEDIMENT AND DEBRIS, AND CLASS E GEOTEXTILE. DISPOSE OF ALL SEDIMENT IN AN ACCEPTABLE LOCATION.
ANNUAL INSPECTION		
INSPECTION ITEM	INSPECTION REQUIREMENTS	REMEDIAL ACTION
MAINTENANCE ACCESS	CHECK FOR ACCESSIBILITY TO FACILITY	PREVENT EXCESSIVE VEGETATIVE GROWTH, EROSION, AND OBSTRUCTIONS ON ACCESS WAY
OVERALL FUNCTION OF FACILITY	CHECK THAT PRACTICE IS FUNCTIONING AS DESIGNED	REPAIR TO GOOD CONDITION ACCORDING TO SPECIFICATION ON THE APPROVED PLANS.

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