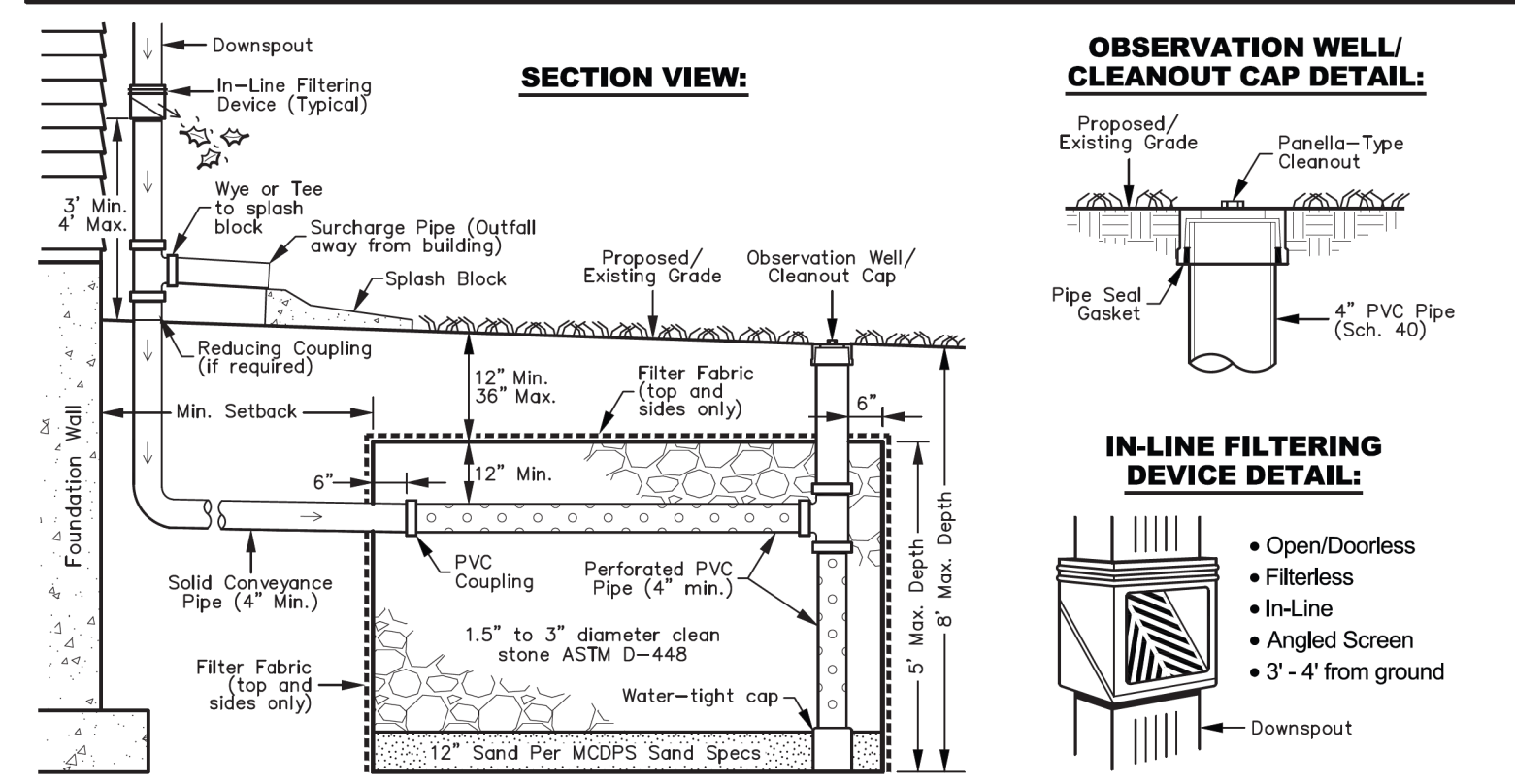


GENERAL NOTES:

1. Dry wells may receive water from roof downspouts only.
2. Length, width, and depth of each dry well is to be as specified by the design engineer on the approved plan.
3. Manufactured sand is not acceptable. Refer to the MCDPS Sand Specifications.
4. With the inspector's approval, dry well locations may be field adjusted for site conditions. All adjustments must meet the minimum setbacks.
5. Impermeable liners may be used when specified by the design engineer and shown on the plan.
6. Overflow pipes may be used when specified by the design engineer and shown on the plan. They shall be set at a minimum 2% slope. If the outfall is to daylight the outfall invert shall be shown.
7. Pop-up emitters may be used when specified by the design engineer and shown on the plan.



LAYOUT GUIDANCE:

- Downspouts shall be shown on the plan view.
- Conveyance pipe(s) from the downspout(s) to the dry well shall be shown on the plan view, including connections from other downspouts. Standard, readily-available bends shall be used at couplings.
- When possible there should be only one conveyance pipe entering the dry well. It should be centered and should enter at 90 degrees.
- The interior 6-inch PVC perforated pipe shall be designed and shown on the plan to maximize distribution within the dry well.
- When a dry well's length is greater than its width, consider localizing the perforated pipe along the longest dimension.
- The observation well with cleanout cap shall be shown on the plan view.

MINIMUM SETBACKS:

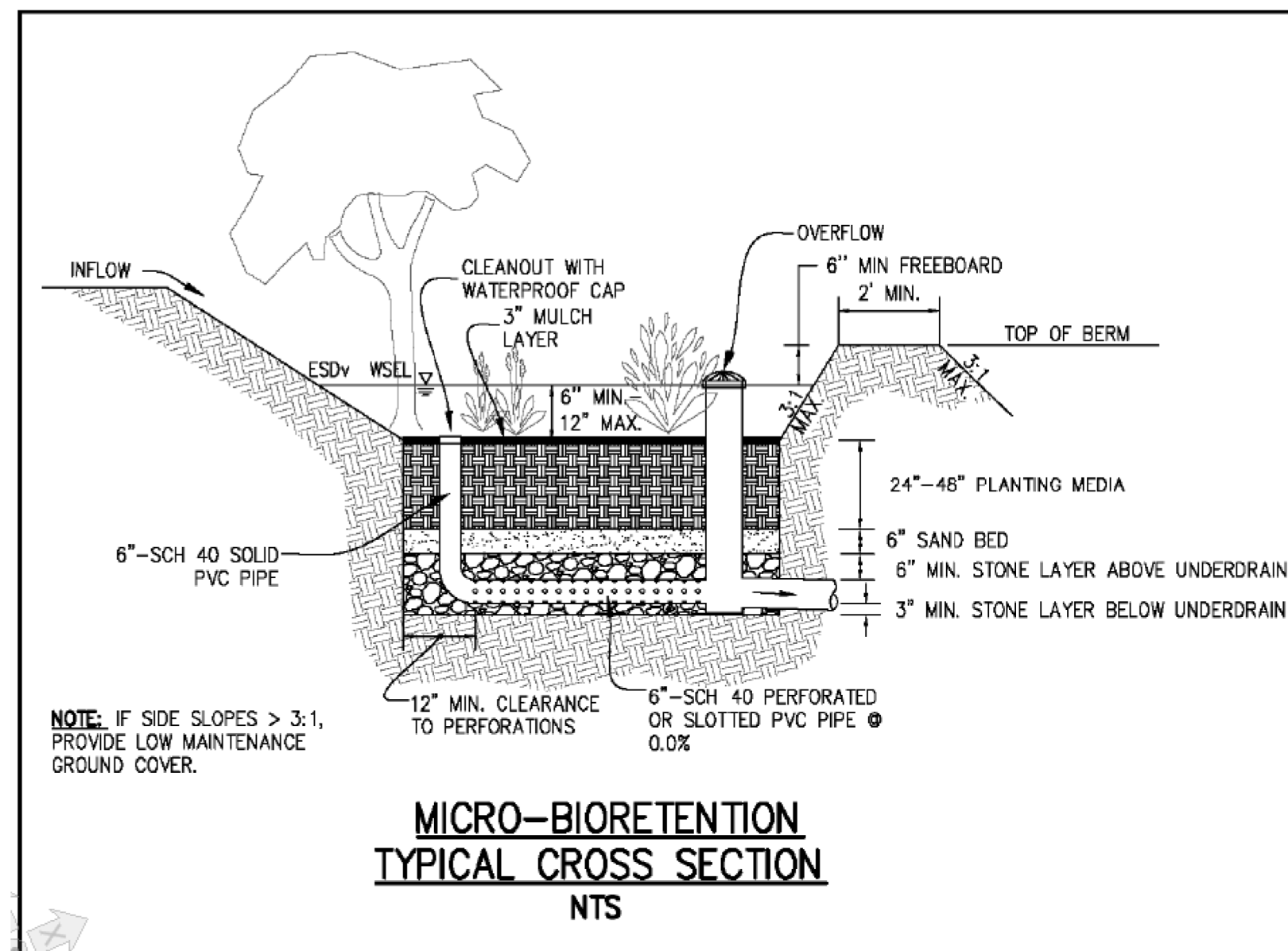
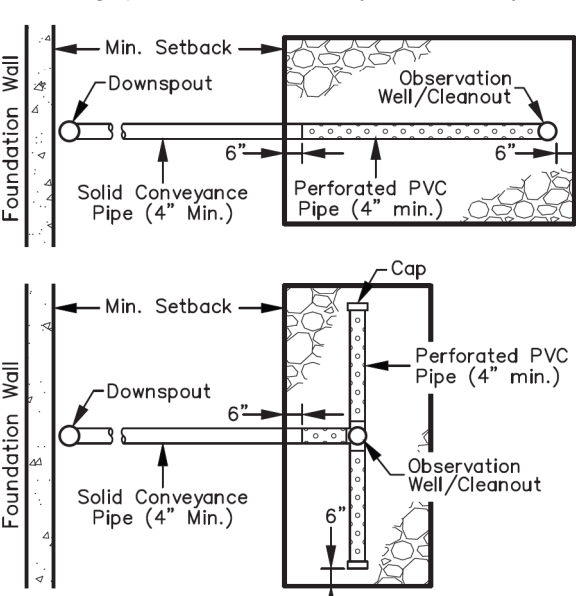
- 5 feet from property lines, Zero from RW
- 10 feet from slab-on-grade buildings/pools
- 15 feet from buried foundations
- 20 feet from another dry well
- 30 feet from septic trench or tank
- 100 feet from primary well location or open loop geothermal well
- 50 feet from alternate well location or closed loop geothermal well
- So as to avoid basement seepage
- In accordance with other county requirements

PERFORATED PVC PIPE:

- Schedule 40 PVC
- 3/8 inch holes
- 4' on center
- 90° around pipe

EXAMPLE LAYOUTS* - PLAN VIEW:

* Design plans must show the layout of each dry well.



	MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES WATER RESOURCES SECTION	DRY WELL FOR ROOF RUNOFF DETAIL	DATE: JULY 2021
			SCALE: NONE

Linda Kobylski, Land Development Division Chief *ll* July 23, 2021

Exhibit 13 (b)
OZAH Case No: CU 23-11



15245 Shady Grove Road, Suite 335, Rockville, MD 20850 | o: (301) 987-8776 | f: (301) 987-8777 | www.endescinc.com

Memorandum of Pre-Submission Meeting

Date: July 31, 2023
 Subject: Water Quality Plan pre-submission meeting
 Location: Microsoft Teams Meeting
 Attendance:

- | | |
|--|----------------------------|
| Andrew Kohler – DPS | Mark Etheridge – DPS |
| Steven A. Robins – Lerch, Early & Brewer | Kevin Huang – Endesco, Inc |
| Joshua Penn – MNCPPC | Gina Jiang – Endesco, Inc |

The following is a summary of the discussion at the meeting:

- The project is proposing eight (8) buildings assisted living community, located at Ruby Drive, Boyds, MD. The project site is 4.54 acres.
- The project is located at Clarksburg Special Protection Area.
- Eight soil borings and infiltration tests are performed showing the site has good infiltrating soil.
- Five (5) micro-bioretentations and Seventeen (17) dry wells are proposed to meet the full ESD requirement for water quality management.
- MNCPPC recommend keeping the site imperviousness to be within 30%.
- There are three goals for WQP: 1. Minimize storm flow runoff increases; 2. Minimize increase to ambient water temperatures; 3. Minimize sediment loading.
- Project need to minimize the increase of stormwater runoff. Downstream owner notification letters need to be sent out after the submittal.
- There will not be a site plan submittal. A SPA Combination PWQP/FWQP permit will be applied.
- Project need to minimize the temperature impact to the existing stream. Dry wells and 1' additional storage under the micro bioretentions facilities will address this issue.
- Project need to minimize the erosion runoff during the construction. Super silt fence will be proposed around the project site and double layers of super silt fence need to be proposed at the area with minor concentrative flow. Concept erosion and sediment control plan will be proposed. Only one stabilized construction entrance will be proposed. Existing parking lot will be used for temporary parking during construction.
- SPA impact fee of \$860/acre, total of \$3,904.40, will be paid to Montgomery County before plan approval.
- Owner needs to pay \$0.06/sf of total limit of disturbance area for monitoring the BMPs.
- Engineer might be requested to come to DPS to explain the design and the plans.
- Designer need to provide and submit AutoCAD files to DEP for review and recordation.
- Coordination/Pre-submission meeting with Marie Labaw is recommended for fire and rescue design plan.
- The Preliminary Plan needs to be sent to MCDOT for review.

Andrew Kohler Approved Meeting Minutes
 DPS Water Resources
 8/4/2023

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSED NO. 23093, EXPIRATION DATE 05/06/2025

ENDESCO, INC.
 ENGINEERS, DESIGNERS & CONSULTANTS

15245 SHADY GROVE RD
 SUITE 335
 ROCKVILLE, MD 20850
 TEL: (301) 987-8776
 FAX: (301) 987-8777

PT LOT 1, LOTS 2 AND 3
RUBY SENIOR HOMES
 MONTGOMERY COUNTY, MARYLAND

NO.	REVISIONS	
	DATE	DESCRIPTION
1.		
2.		
3.		
4.		

DATE	TITLE	DRAWN:	DESIGNED:	CHECKED:
OCT 2023	PRELIMINARY WATER QUALITY DETAIL	GJ	GJ	KH
SCALE NTS				
SHEET				
CPP-12				