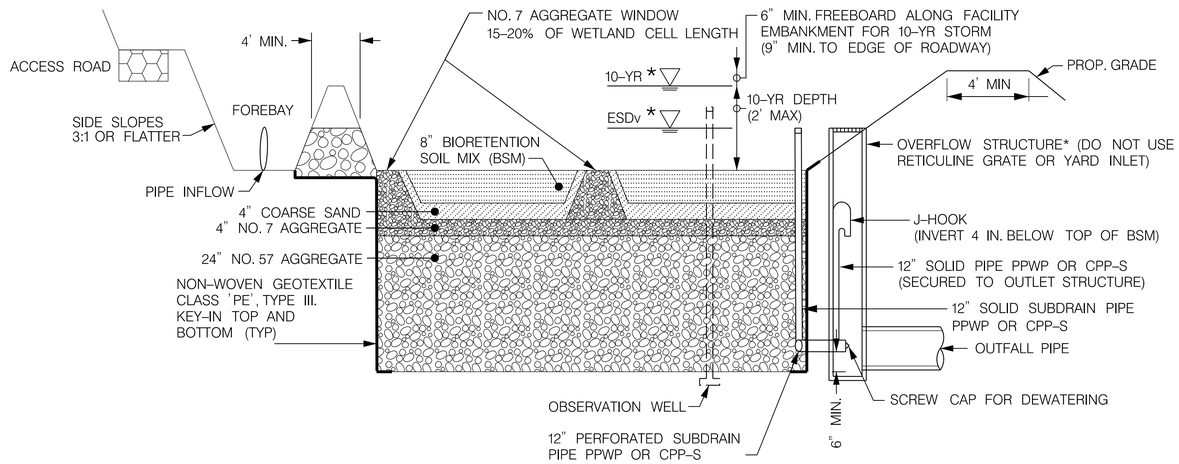
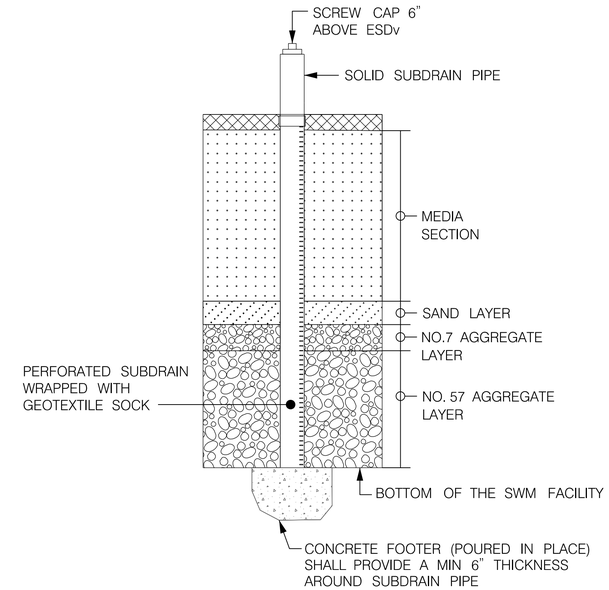


PROFILE VIEW

NOT TO SCALE

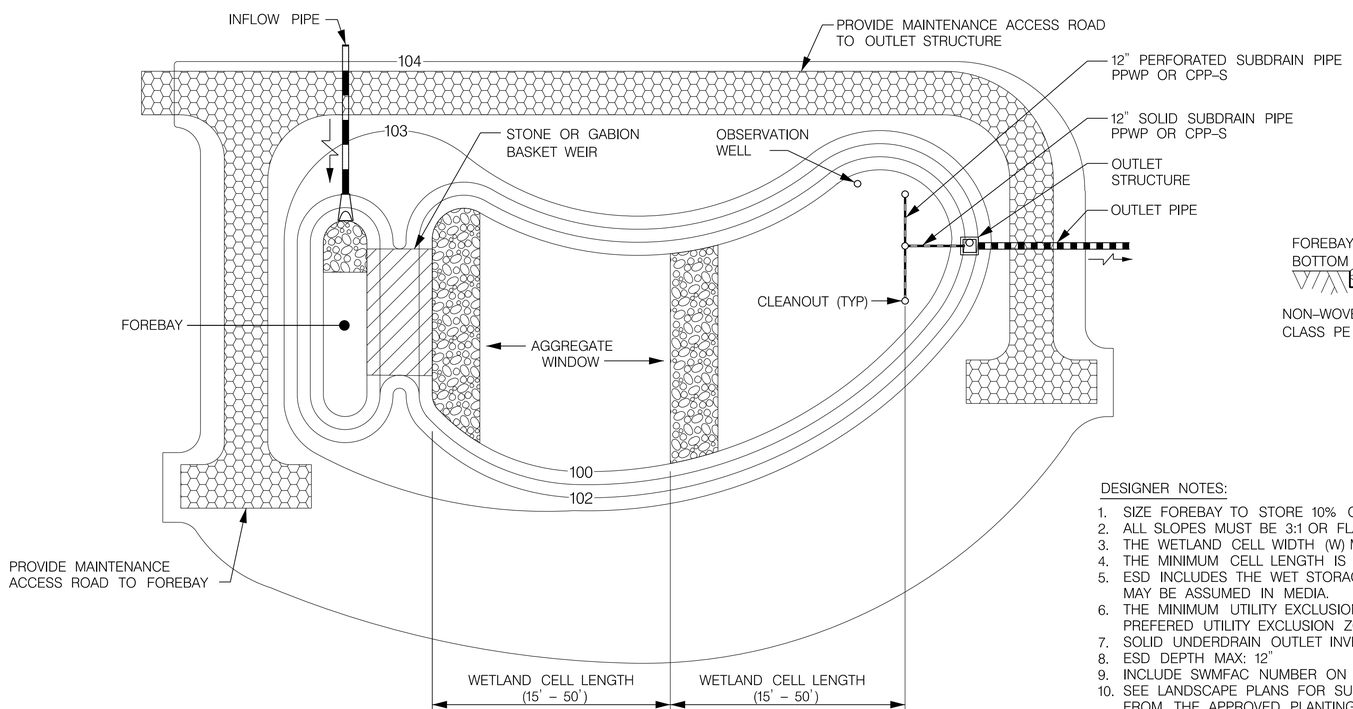


TYPICAL OBSERVATION WELL DETAIL

NOT TO SCALE

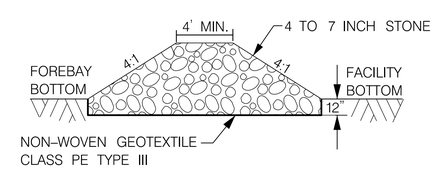
OBSERVATION WELL NOTES:

1. COST OF CONCRETE FOOTER AND GEOTEXTILE SOCK ARE INCIDENTAL TO THE COST OF THE SUBDRAIN ITEM AS USED FOR THE OBSERVATION WELL.
2. SEE SECTION 316 OF THE MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.



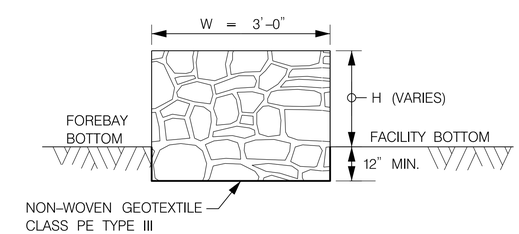
PLAN VIEW

NOT TO SCALE



STONE WEIR DETAIL

NOT TO SCALE



GABION BASKET WEIR DETAIL

NOT TO SCALE

DESIGNER NOTES:

1. SIZE FOREBAY TO STORE 10% OF ESDv.
2. ALL SLOPES MUST BE 3:1 OR FLATTER (4:1 PREFERABLE).
3. THE WETLAND CELL WIDTH (W) MUST BE 1–2 TIMES THE WETLAND CELL LENGTH (L).
4. THE MINIMUM CELL LENGTH IS 15 FEET. THE MAXIMUM CELL LENGTH IS 50 FEET.
5. ESD INCLUDES THE WET STORAGE ABOVE THE MEDIA AND THE FOREBAY. NO VOLUME TREATMENT MAY BE ASSUMED IN MEDIA.
6. THE MINIMUM UTILITY EXCLUSION ZONE IS 10 FEET AROUND THE SGW BOTTOM AREA. PREFERED UTILITY EXCLUSION ZONE IS 10 FEET FROM THE TOP OF FACILITY EMBANKMENT.
7. SOLID UNDERDRAIN OUTLET INVERT MUST BE AT LEAST 6" ABOVE THE GROUNDWATER ELEVATION.
8. ESD DEPTH MAX: 12"
9. INCLUDE SWMFAC NUMBER ON SWM SHEETS.
10. SEE LANDSCAPE PLANS FOR SURFACE COVER AND PLANTINGS. INCLUDE AT LEAST THREE SPECIES FROM THE APPROVED PLANTING LIST.
11. REFER TO SECTION 316 OF THE MDOT SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS FOR MORE INFORMATION.
12. WHEN A STONE OR GABION BASKET WEIR IS SPECIFIED, THE DESIGNER MUST INCLUDE THE FOLLOWING NOTE ON THE SWM PLANS FOR THE FACILITY:
    THE [STONE OR GABION BASKET] WEIR WILL NOT BE MEASURED BUT WILL BE INCIDENTAL TO THE AGGREGATE ITEMS FOR THE SWM FACILITY.

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

DESIGN GUIDANCE DRAWING

M-2 SUBMERGED GRAVEL WETLAND

REVISION DATE: JUNE 1, 2022

*** NOTE: THIS DRAWING IS ONLY TO BE USED AS A DESIGN GUIDE AND IS NOT A SUBSTITUTE FOR PROJECT-SPECIFIC PROFILES AND SECTIONS IN CONTRACT DOCUMENTS***