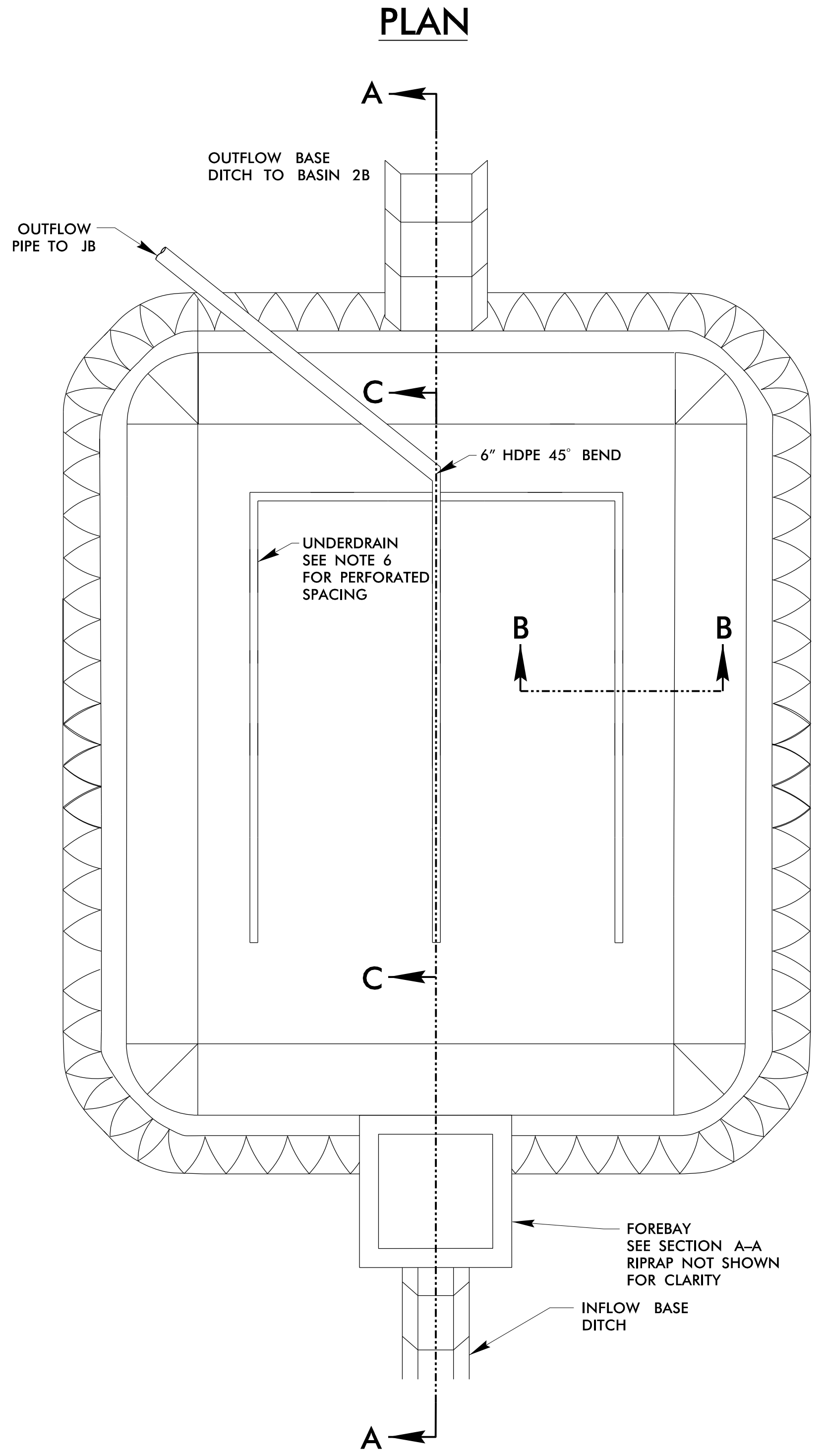


5/14/24

# FILTRATION BASIN DETAILS (BASIN 2A)

PROJECT REFERENCE NO. 1-2513AA/AB	SHEET NO. 2D-5
RW SHEET NO.	
DocuSigned by: Matt Harvey 2/8/2024	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION	

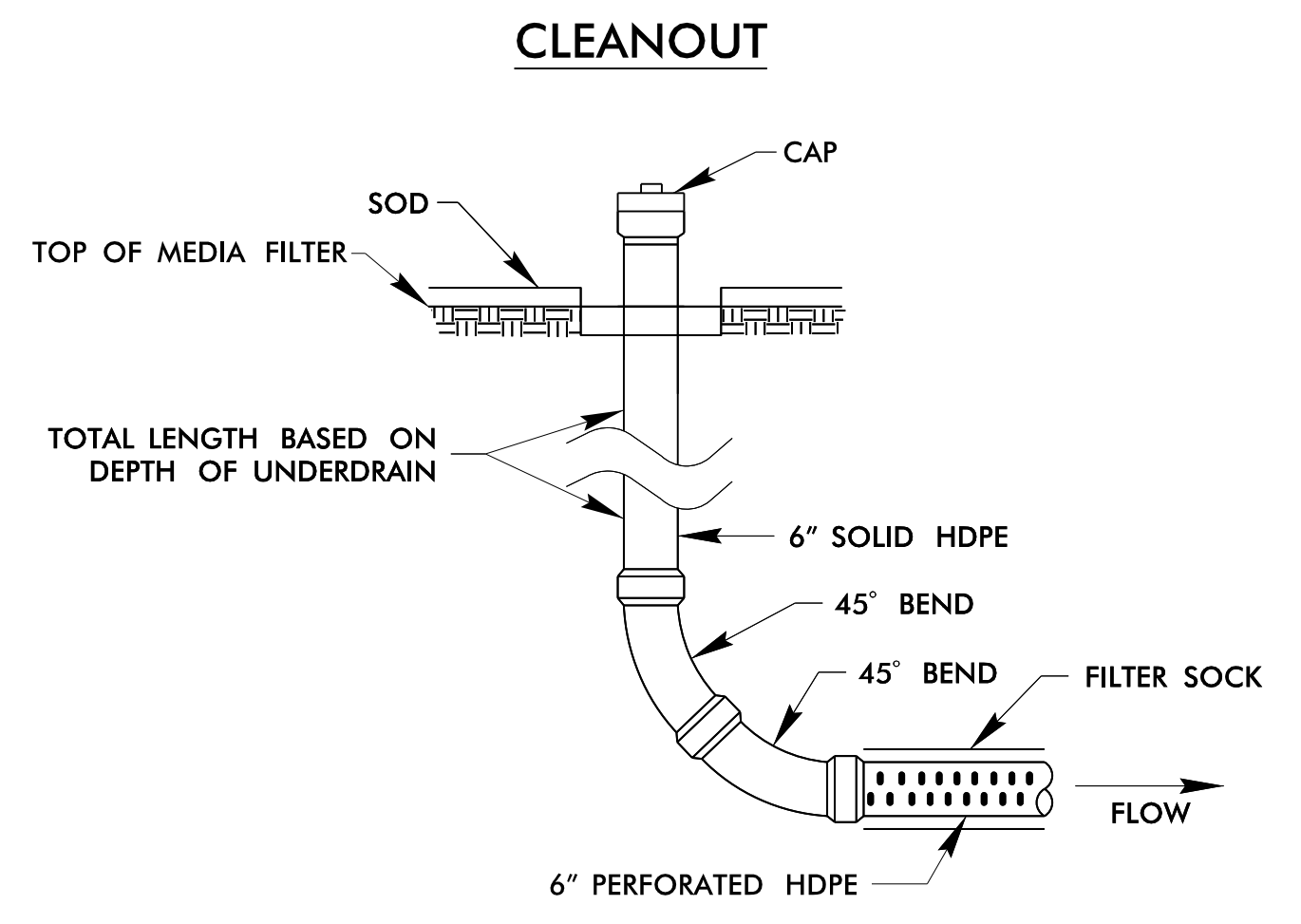
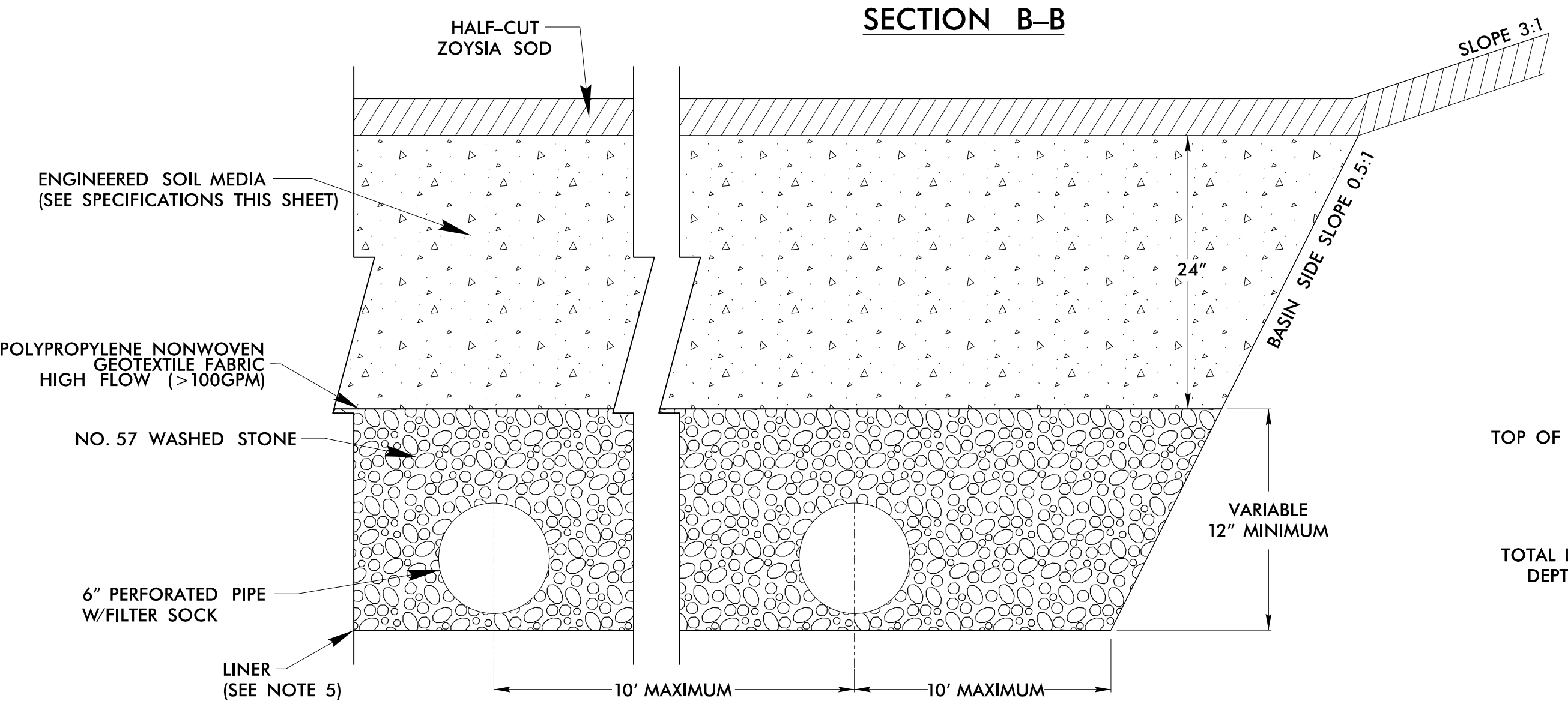
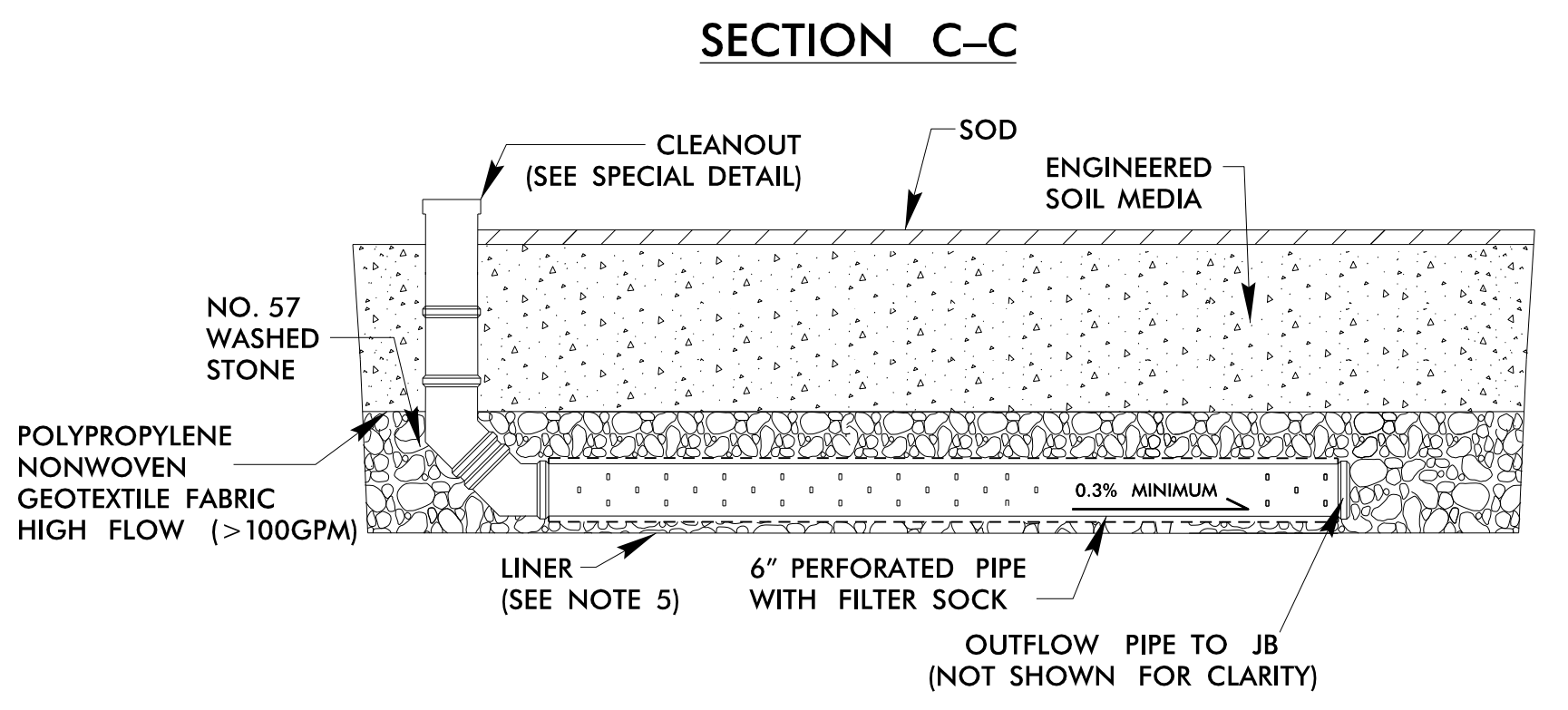


**NOTES**

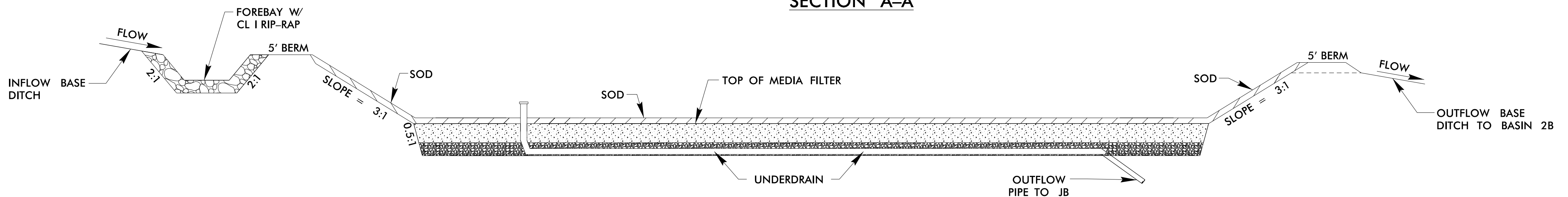
1. THE 6-INCH UNDERDRAIN IS THE PRIMARY DRAWDOWN DEVICE.
4. UNDERDRAIN PIPES SHOULD BE PLACED A MAXIMUM OF 10 FEET FROM THE EDGE OF THE BASIN AND MUST HAVE A MAXIMUM OF 10 FEET BETWEEN THE PERFORATED UNDERDRAIN PIPES.
5. UNDERDRAIN SHOULD BE BEDDED ON A THIN LAYER OF NO.57 WASHED STONE AND BACKFILLED TO A TOTAL MINIMUM STONE DEPTH OF 12 INCHES.
6. UNDERDRAIN PERFORATED PIPE HOLES ARE 3/8 INCH IN DIAMETER AND LONGITUDINALLY SPACED 6 INCHES ON CENTER ALONG 4 ROWS.
7. TOP OF MEDIA FILTER MUST BE LEVEL.

**SPECIFICATIONS**

- ENGINEERED SOIL MEDIA SHALL CONSIST OF:
- (1) HOMOGENOUS SOIL MIX OF 85-88 PERCENT BY WEIGHT SAND (USDA SOIL TEXTURAL CLASSIFICATION), 8 TO 12 PERCENT FINES (SILT AND CLAY), AND 2 TO 5 PERCENT ORGANIC MATTER (ORGANIC MATTER SHALL BE LEAF OR BARK COMPOST, OR SIMILAR, AND SHALL NOT BE ANIMAL MANURE).
  - (2) P-INDEX BETWEEN 10 AND 30
  - (3) PH VALUE BETWEEN 5.5 - 7.5
  - (4) PERMEABILITY BETWEEN 1 AND 2 INCHES/HOUR MINIMUM
  - (5) BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES



- CLEANOUT NOTES:**
1. ONLY UNDERDRAIN PIPE THAT IS LOCATED BENEATH ENGINEERED SOIL MEDIA SHOULD BE PERFORATED.
  2. PROVIDE THREADED SCREW CAP.



\*NOT TO SCALE\*

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