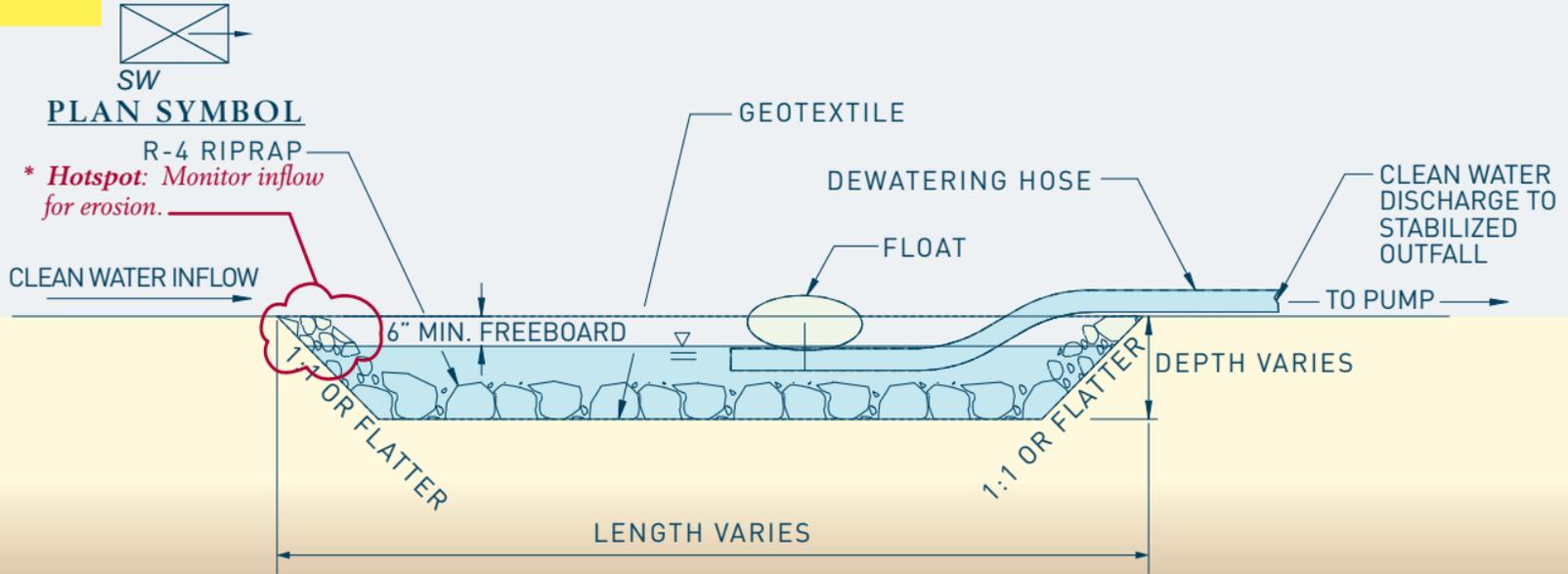




EROSION & SEDIMENT CONTROL

FIELD GUIDE

VI. PUMPING OPERATIONS



VI. PUMPING OPERATIONS

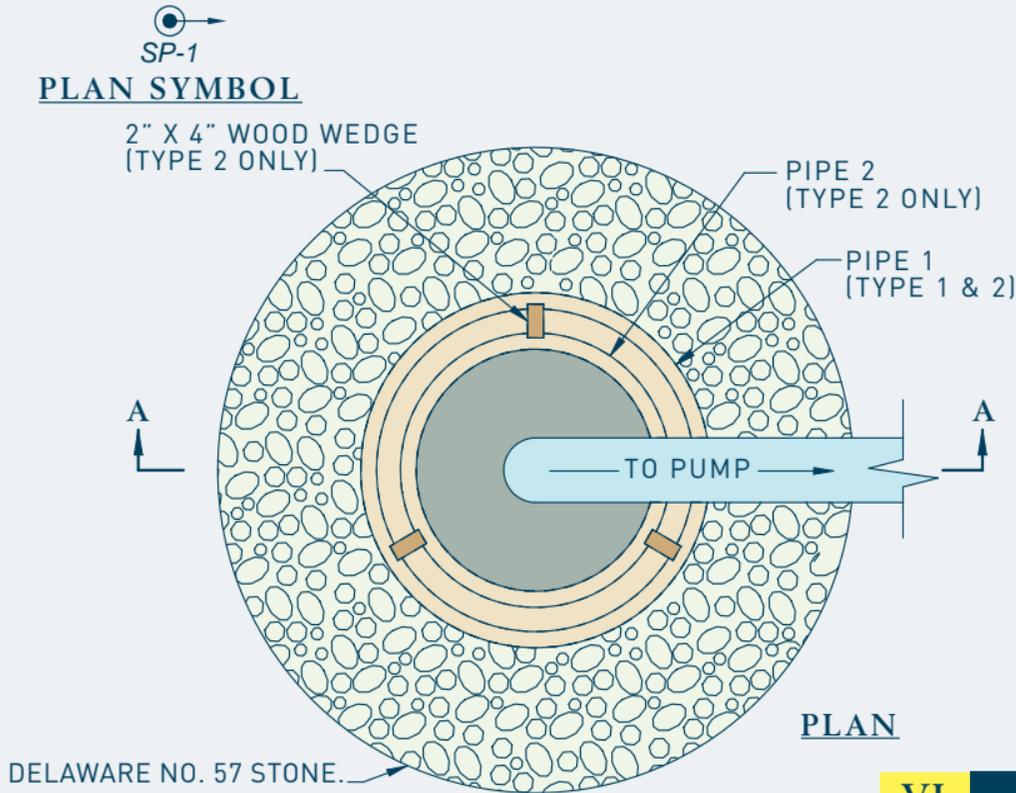
VI.A - Maintenance

- Throughout the Project construction period, the Contractor shall maintain the stilling well to the original dimensions and function of the stilling well. The Contractor shall remove and dispose of all trash and debris that enters the stilling well and interferes with the functioning of the stilling well.

NOTES

1. THE WORK SHALL CONSIST OF CONSTRUCTING A STILLING WELL FOR THE PURPOSE OF PUMPING CLEAN WATER AROUND A DISTURBED CONSTRUCTION AREA TO A STABILIZED OUTFALL.
2. THE DIMENSIONS OF THE STILLING WELL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

VI. PUMPING OPERATIONS



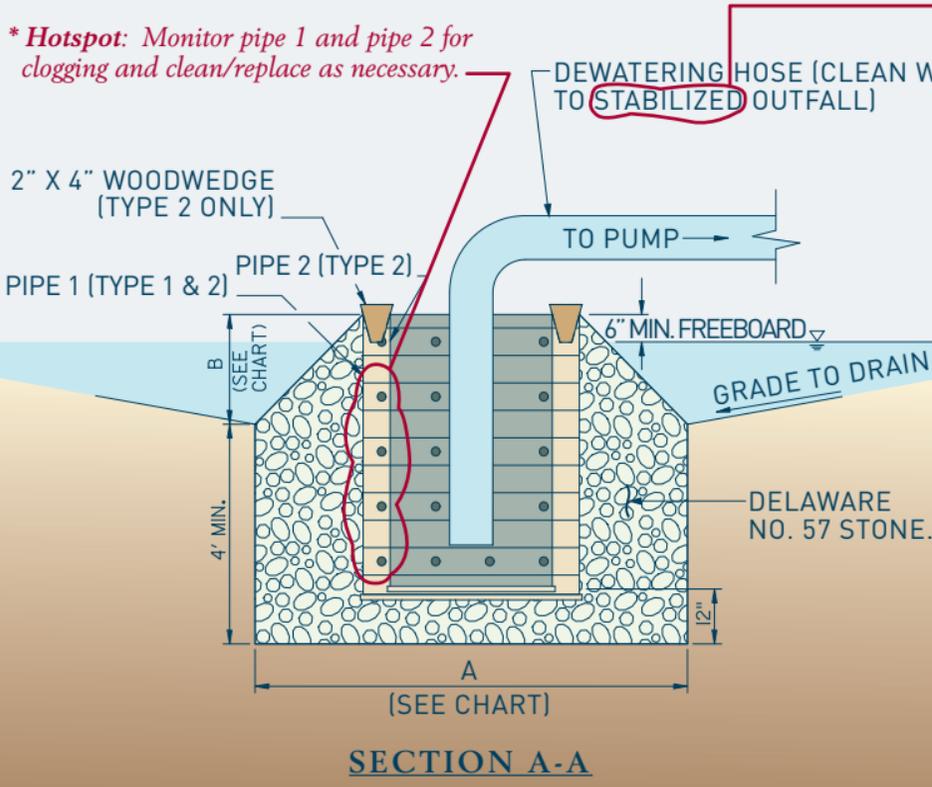
NOTES

1. THE WORK SHALL CONSIST OF CONSTRUCTING A SUMP PIT FOR THE PURPOSE OF FILTERING AND PUMPING WATER TO A STABILIZED OUTFALL.
2. GEOTEXTILE FOR THE 36" CMP SHALL BE REPLACED WHEN CLOGGED WITH SEDIMENT.
3. 1/2" X 1/2" 19 GAGE WIRE MESH SHALL BE PLACED AROUND THE REMOVABLE 36" CMP BEFORE ATTACHING THE GEOTEXTILE TO INCREASE FLOW THROUGH THE GEOTEXTILE.
4. ALL PERFORATIONS SHALL BE 1" IN DIAMETER AND 12" ON CENTER IN ALL DIRECTIONS.
5. TYPE 1 SUMP PIT SHALL BE USED ONLY WHEN PUMPING IS NEEDED FOR LESS THAN 7 DAYS.

VI. PUMPING OPERATIONS

* **Hotspot:** Monitor pipe 1 and pipe 2 for clogging and clean/replace as necessary.

* **Hotspot:** Monitor outfall for erosion and rehabilitation as necessary with riprap.



SUMP PIT CHART				
TYPE	PIPE 1	PIPE 2	A	B
1	PERFORATED 24" CMP WITH PERFORATED CAP WELDED ON BOTTOM AND COMPLETELY WRAPPED WITH GEOTEXTILE.	N/A	4' MIN.	12"
2	PERFORATED 48" CMP WITH PERFORATED CAP WELDED ON BOTTOM	REMOVABLE PERFORATED 36" CMP WITH PERFORATED CAP WELDED ON BOTTOM AND COMPLETELY WRAPPED WITH GEOTEXTILE.	8' MIN.	24"

VI. PUMPING OPERATIONS

VI.B - Maintenance

- When clogged with sediment, the Contractor shall replace the geotextile and, if applicable, the wire mesh on the removable pipe and bottom cap.



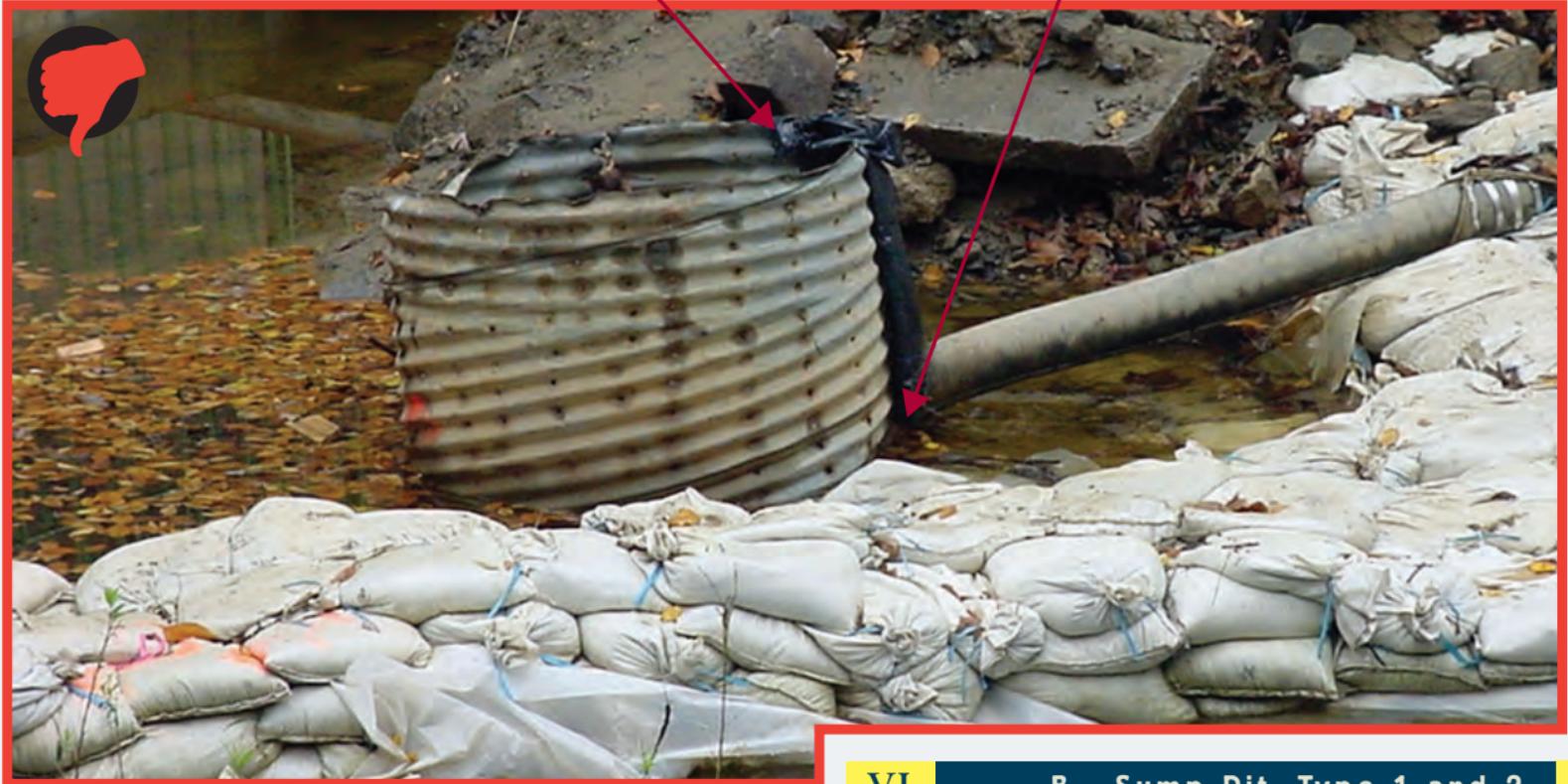
VI.

B. Sump Pit, Type 1 and 2

VI. PUMPING OPERATIONS

Needs wire mesh and geotextile.

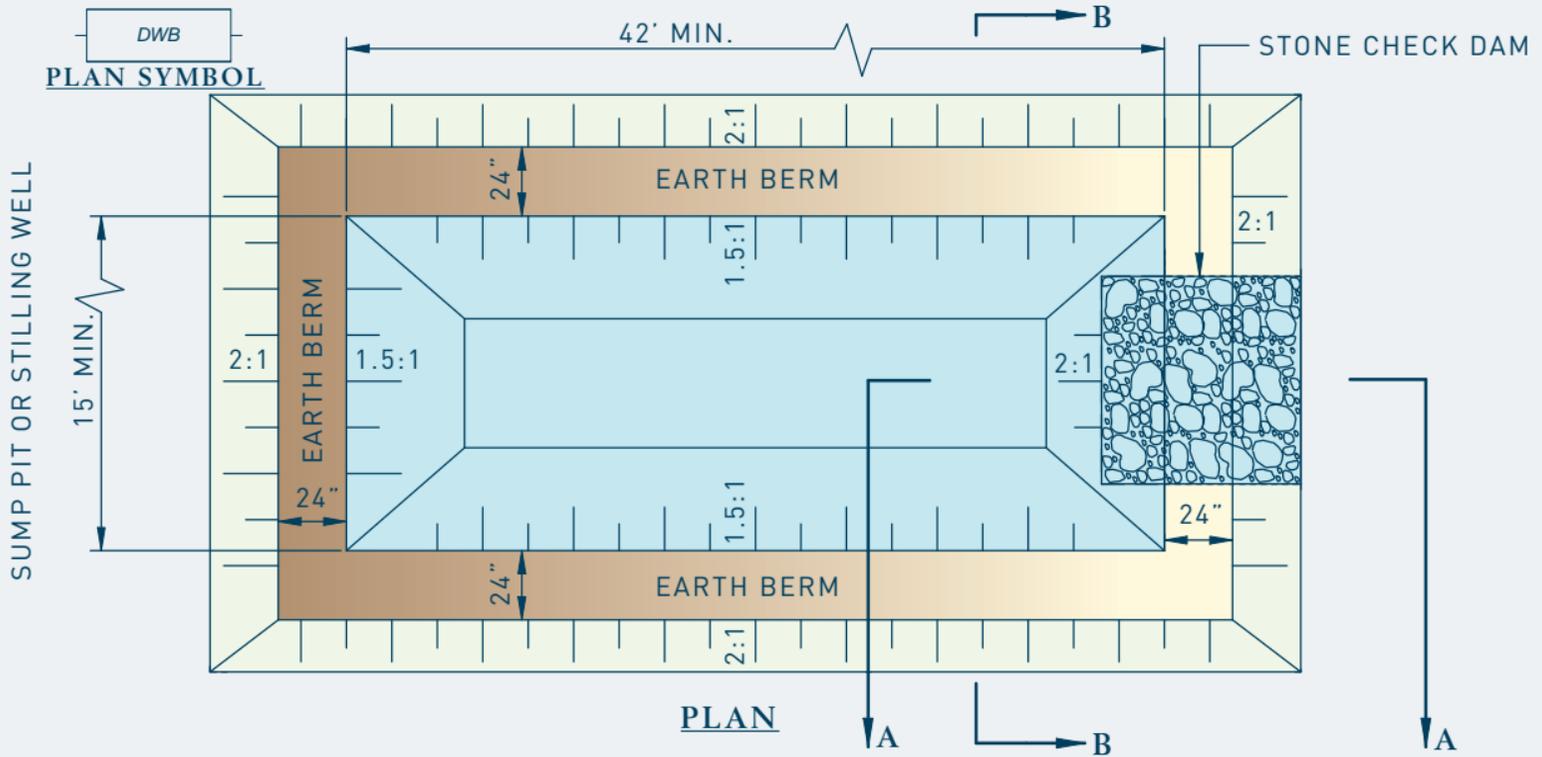
No stone or stone not high enough.



VI.

B. Sump Pit, Type 1 and 2

VI. PUMPING OPERATIONS

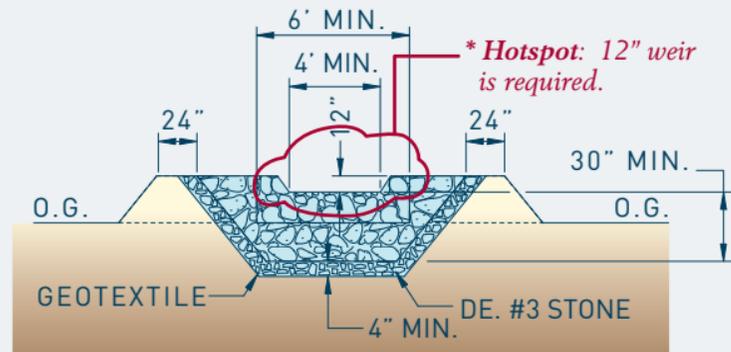
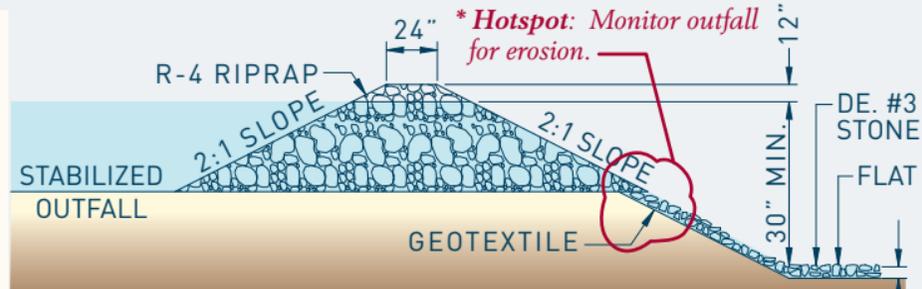


VI. PUMPING OPERATIONS

NOTES

1. A DEWATERING BASIN (DWB) IS USED TO REMOVE SEDIMENT FROM SEDIMENT-LADEN WATER PUMPED FROM A CONSTRUCTION SITE BEFORE THE WATER RE-ENTERS THE WATERWAY. THE DWB SHALL HAVE A MINIMUM TOP WIDTH OF 15' AND A MINIMUM DEPTH OF 2.5'. THE MINIMUM TOP LENGTH SHOWN IN THE PLAN IS USED ONLY FOR QUANTITY CALCULATIONS BY THE ENGINEER. THE ACTUAL TOP LENGTH IN THE FIELD SHALL BE CALCULATED BY THE EQUATION:

$$\text{TOP LENGTH (FEET)} = 24' + 0.1 \times Y$$
2. THE OUTFALL FROM THE BASIN TO THE RECEIVING WATERS SHALL BE STABILIZED. PUMPING INTO THE DWB SHALL CEASE WHEN THE EFFLUENT FROM THE BASIN BECOMES SEDIMENT-LADEN.
3. A SUMP PIT OR STILLING WELL (SEE STANDARD SHEETS) SHALL BE USED IN CONJUNCTION WITH A DWB. THE BASIN MAY BE BYPASSED INTO THE STABILIZED OUTFALL IF THE WATER BEING PUMPED IS NON-SEDIMENT-LADEN, DIRECT DISCHARGE TO THE RECEIVING WATERS SHALL CEASE AND BE REDIRECTED TO THE DWB WHEN EFFLUENT FROM THE PUMP BECOME SEDIMENT-LADEN.
4. MAINTENANCE MUST BE PERFORMED IN ORDER FOR THE DWB TO FUNCTION PROPERLY, ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED DISPOSAL AREA WHEN THE BASIN IS FILLED TO WITHIN 12" (33) FROM THE CREST.
5. WHEN USED IN CONJUNCTION WITH A COFFERDAM, DEWATERING SHALL BEGIN NO SOONER THAN 12 HOURS AFTER COFFERDAM INSTALLATION IN ORDER TO ALLOW SEDIMENT PRODUCED DURING INSTALLATION TO SETTLE COMPLETELY.

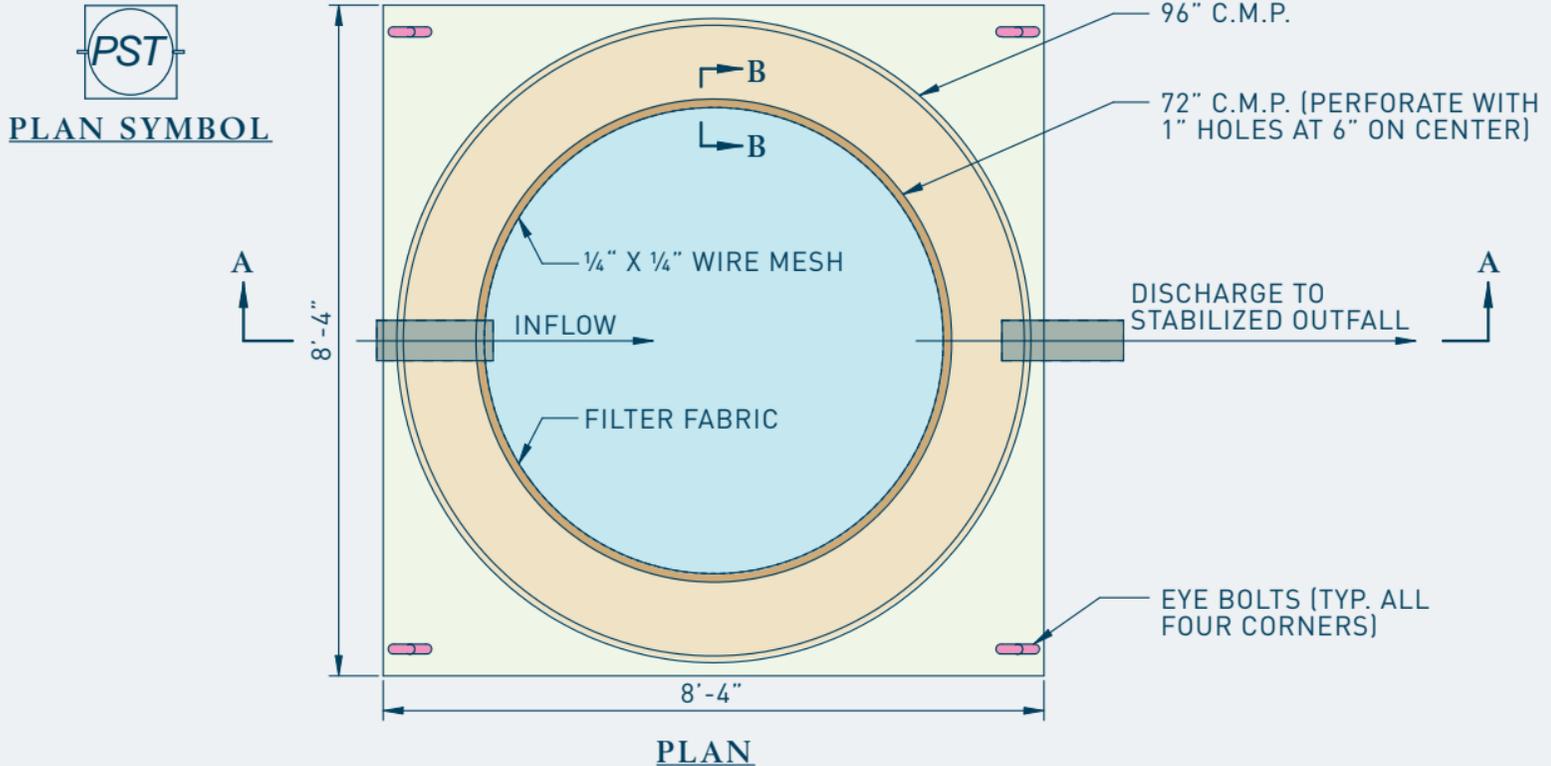


VI. PUMPING OPERATIONS

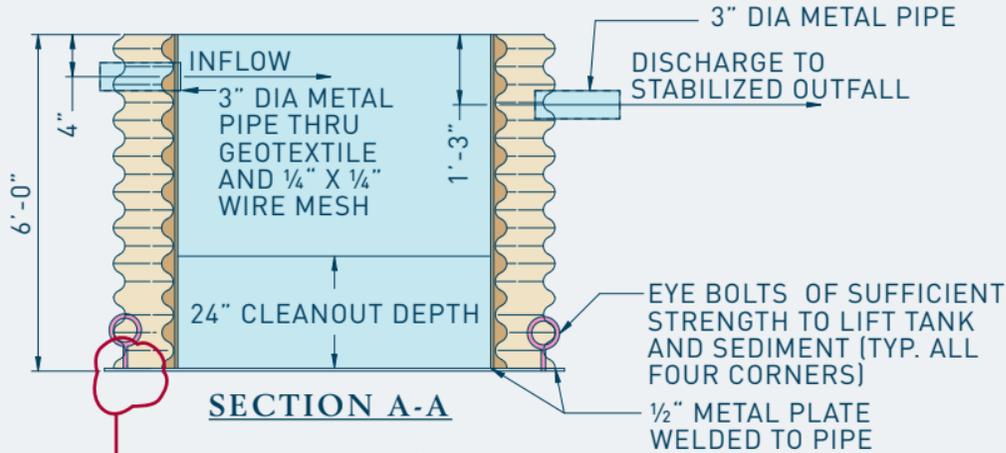
VI.C - Maintenance

- Throughout the Project construction period, the Contractor shall maintain the dewatering basin to its original dimensions and function.
- The Contractor shall remove all accumulated sediment when the basin is filled to one-half of its original basin.

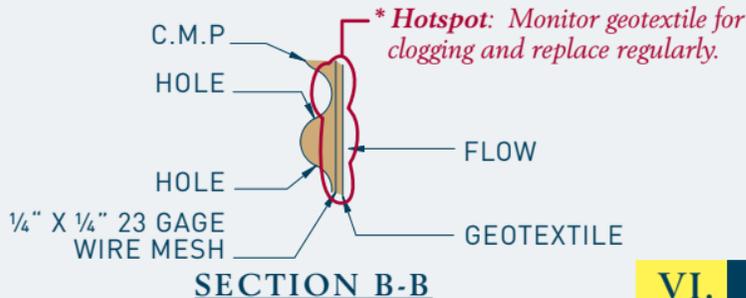
VI. PUMPING OPERATIONS



VI. PUMPING OPERATIONS



* *Hotspot: Monitor welds for leakage.*



NOTES

1. THE PORTABLE SEDIMENT TANK SHOWN MAY BE USED IN SITES WHERE SPACE IS LIMITED TO CONSTRUCT A DEWATERING BASIN.
2. THE MAXIMUM PUMP DISCHARGE INTO THIS TYPICAL PORTABLE SEDIMENT TANK SHALL BE 425 GALLONS PER MINUTE. THE FILTER FABRIC SHALL BE REPLACED WHEN THE PORTABLE SEDIMENT TANK CAN NO LONGER ALLOW THIS FLOW RATE, WHEN THERE IS A TEAR, OR WHEN DIRECTED BY THE ENGINEER.
3. SEVERAL UN-CONNECTED OR CONNECTED IN PARALLEL PORTABLE SEDIMENT TANKS MAY BE USED WHEN A HIGHER FLOW RATE IS NEEDED TO DE-WATER THE JOB.

VI. PUMPING OPERATIONS

VI.D - Maintenance

- The Contractor shall make any required repairs to the portable sediment tank to ensure that the portable sediment tank functions as intended.
- The Contractor shall remove the sediment when it accumulates to a depth of 24" in a tank designed according to Standard Construction Detail, Portable Sediment Tank, and when it accumulates to one-third of the portable sediment tank height for an alternate design. All sediment collected in the portable sediment tank shall be disposed of in an approved disposal area or as approved by the Engineer.



VI. PUMPING OPERATIONS



Dewatering bag. Acceptable alternative.



CCR approved base.

Bag to be laid flat at grade.

VI.

D. Portable Sediment Tank