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# TYPICAL SECTION DETAILS FOR COMBINATION MEDIA FILTER /HAZARDOUS SPILL BASINS 2 THROUGH 7, AND 9

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

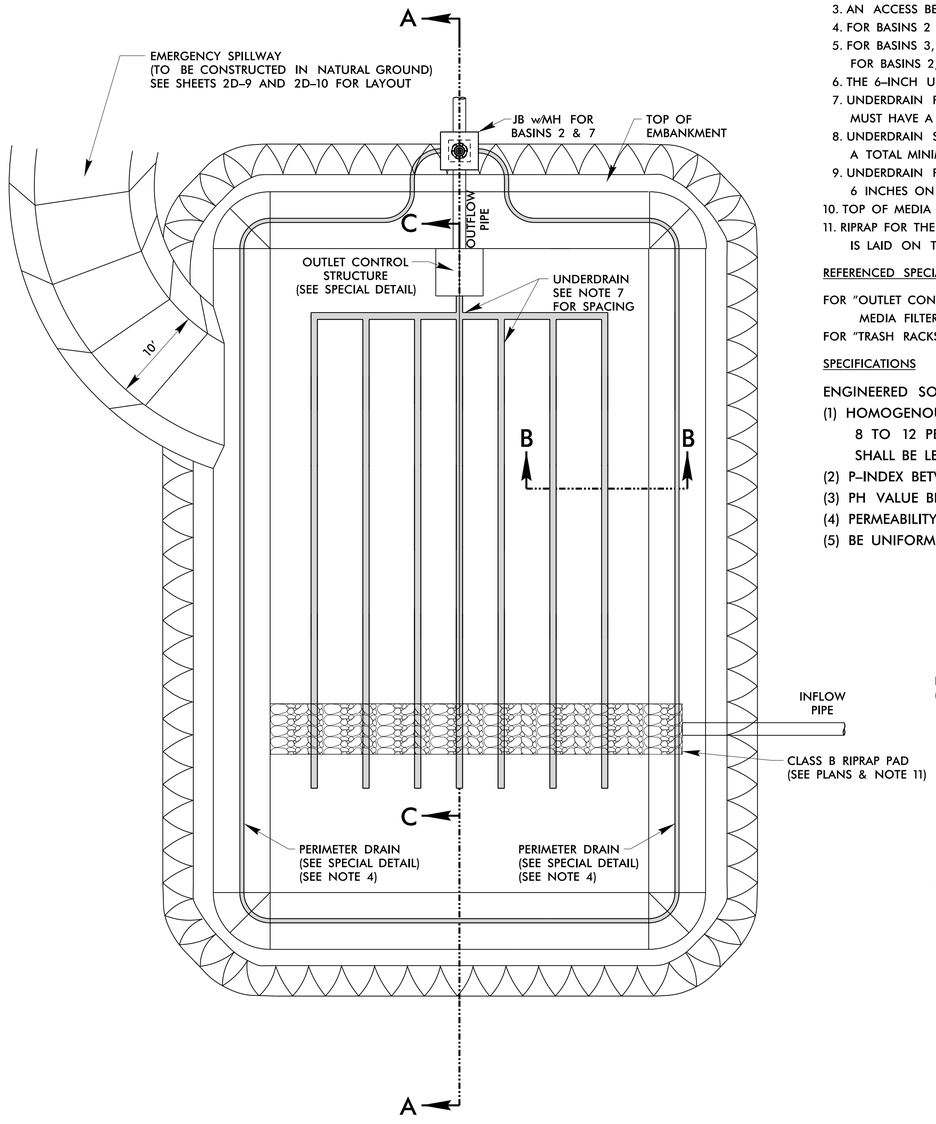
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-2525C | 2D-3 |
| R/W SHEET NO. | |

HYDRAULICS ENGINEER
1/10/2018
NORTH CAROLINA PROFESSIONAL SEAL 23993 ENGINEER MAX S. PRICE
DocuSigned by: Max S. Price

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

*NOT TO SCALE*

## PLAN




NOTES

1. FOR BASIN LAYOUTS AND DIMENSIONS, SEE DETAILS ON SHEETS 2D-9 & 2D-10.
2. AN EMERGENCY SPILLWAY SHOULD BE INCORPORATED WHERE SITE PERMITS.
3. AN ACCESS BERM SHOULD BE PROVIDED FOR MAINTENANCE.
4. FOR BASINS 2 AND 7 INSTALL AN AGGREGATE PERIMETER DRAIN (SEE SPECIAL DETAIL) ON A 0.3% GRADE FROM A JB w/MH.
5. FOR BASINS 3, 4, 5, AND 9 INSTALL A PERMEABLE FILTER FABRIC.
   FOR BASINS 2, 6, AND 7 INSTALL A 30-MIL IMPERMEABLE LINER AND A PERMEABLE FILTER FABRIC.
6. THE 6-INCH UNDERDRAIN IS THE PRIMARY DRAWDOWN DEVICE.
7. UNDERDRAIN PIPES SHOULD BE PLACED A MAXIMUM OF 5 FEET FROM THE EDGE OF THE BASIN AND MUST HAVE A MAXIMUM OF 10 FEET BETWEEN THE PERFORATED UNDERDRAIN PIPES.
8. UNDERDRAIN SHOULD BE BEDDED ON A THIN LAYER OF NO.57 WASHED STONE AND BACKFILLED TO A TOTAL MINIMUM STONE DEPTH OF 12 INCHES.
9. UNDERDRAIN PERFORATED PIPE HOLES ARE 3/8 INCH IN DIAMETER AND LONGITUDINALLY SPACED 6 INCHES ON CENTER ALONG 4 ROWS.
10. TOP OF MEDIA FILTER MUST BE LEVEL.
11. RIPRAP FOR THE INFLOW PIPE EXTENDS ACROSS THE ENTIRE LENGTH OR WIDTH OF THE BASIN (SEE PLANS) AND IS LAID ON TOP OF THE MEDIA FILTER.

REFERENCED SPECIAL DETAILS

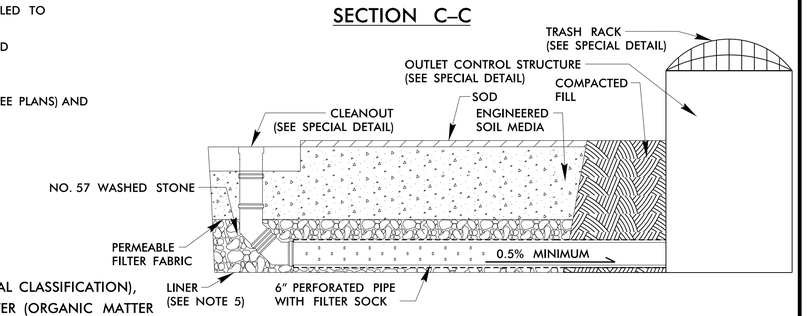
FOR "OUTLET CONTROL STRUCTURE DETAILS FOR COMBINATION MEDIA FILTER /HAZARDOUS SPILL BASINS 2 THROUGH 7, AND 9" SEE SHEET 2D-4
FOR "TRASH RACKS, CLEANOUT, & AGGREGATE PERIMETER DRAIN DETAILS" SEE SHEET 2D-7

SPECIFICATIONS

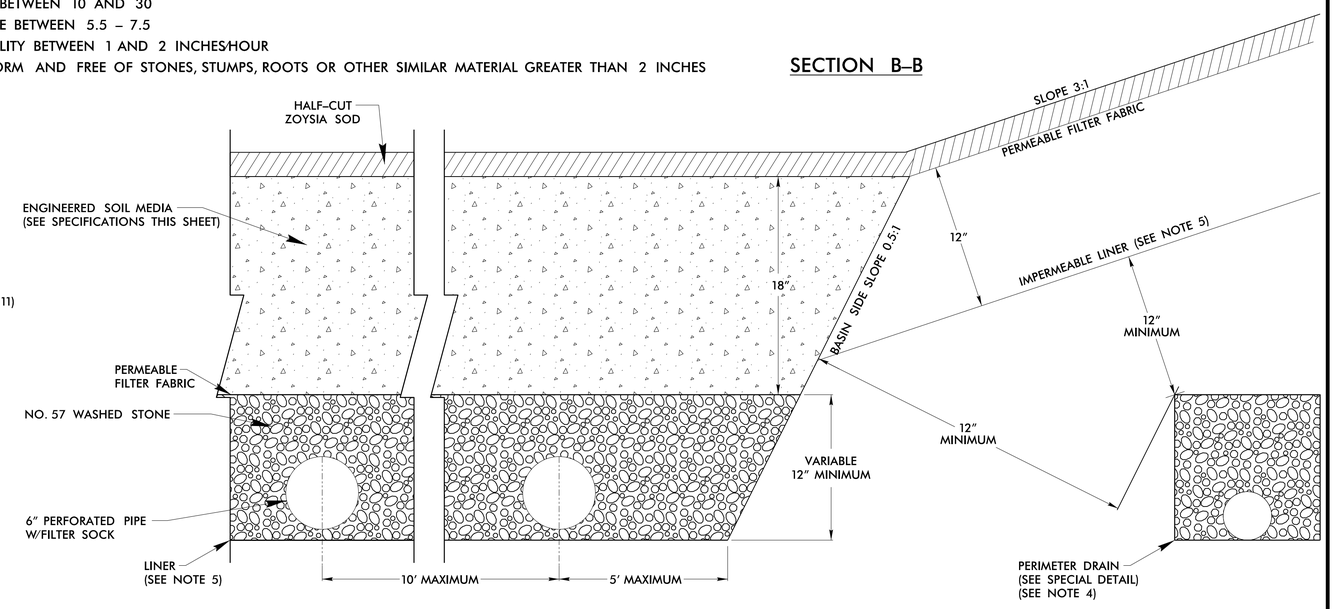
ENGINEERED SOIL MEDIA SHALL CONSIST OF:

(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
(5) BE UNIFORM AND FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR MATERIAL GREATER THAN 2 INCHES

## SECTION C-C

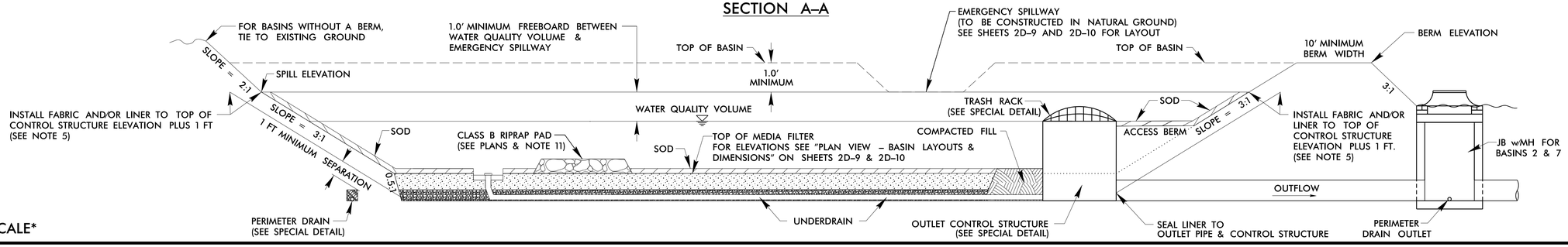



## SECTION B-B




## PROFILE

### SECTION A-A

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