



Lancaster County, South Carolina  
**Heath Springs Soccer Complex**

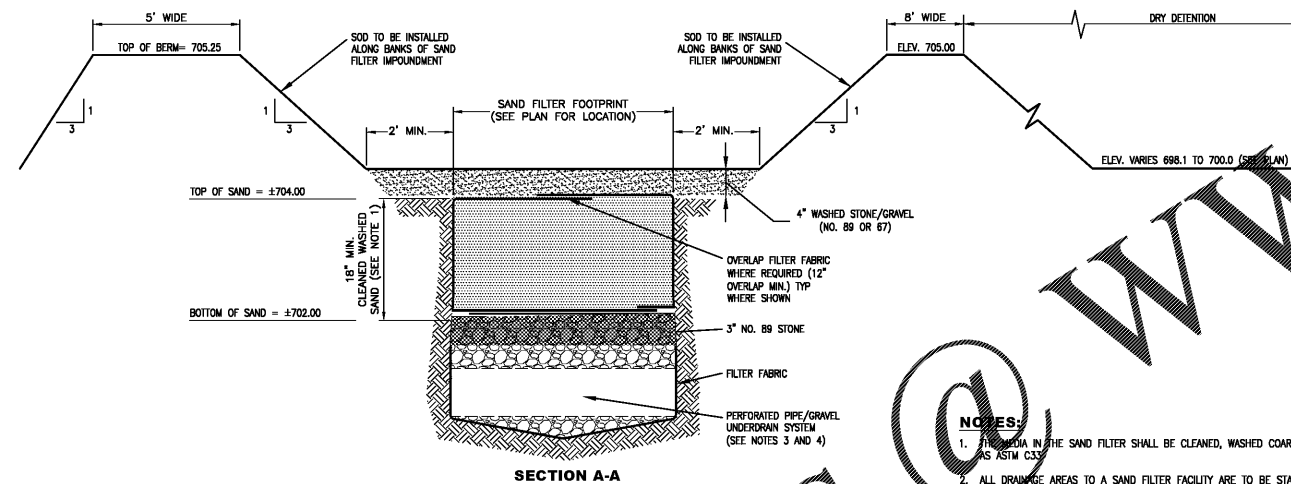
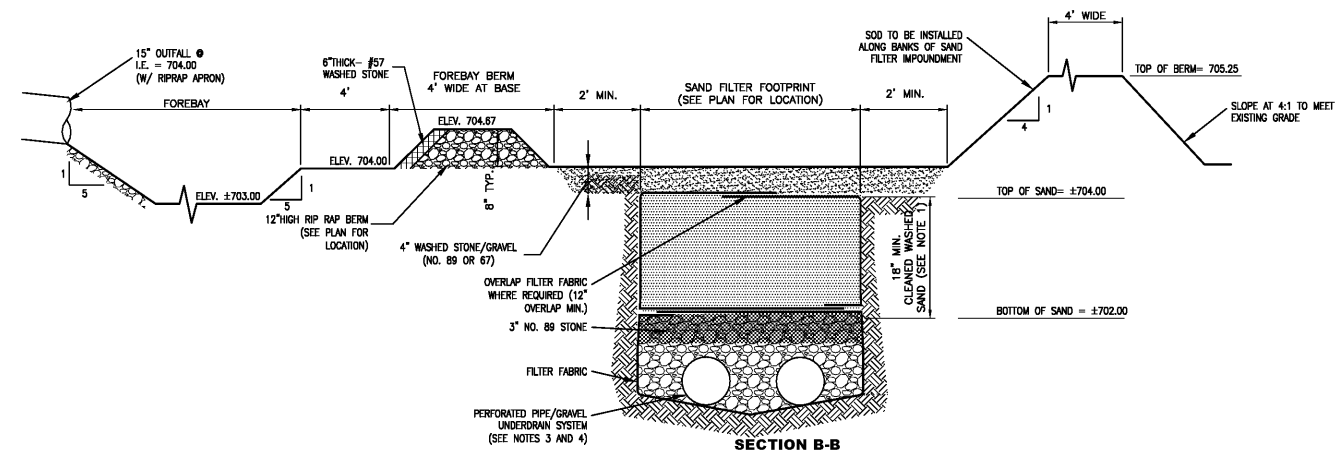
200 Boyd Faille Road  
Heath Springs, SC 29058

Revisions:  
△ PER SCDHEC SUBMITTAL 01/28/2021

Proj. No.: 80703  
Date: 10/09/2020

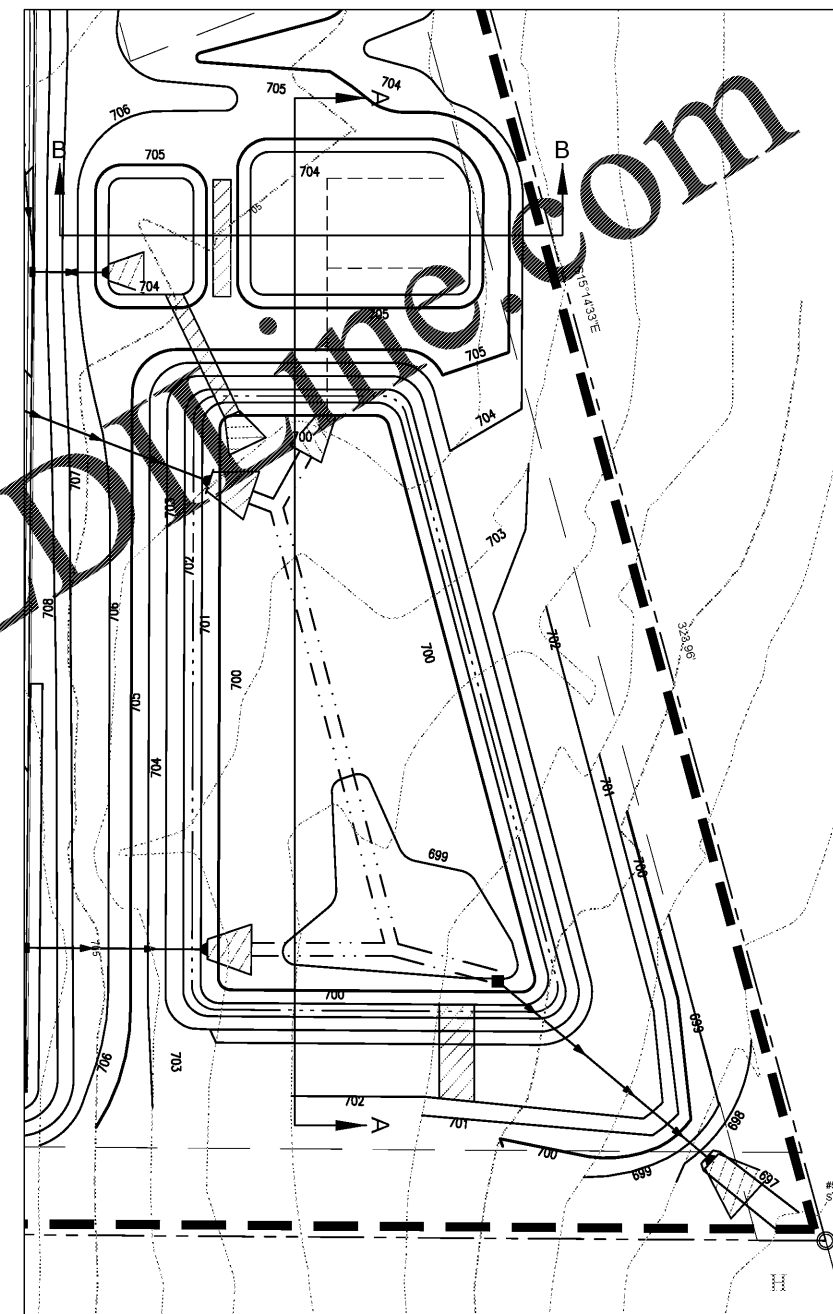
Sheet Name:  
Southeast Pond  
and Sand Filter  
Cross Sections

**L-509**



**NOTES:**

1. CLEAN OUTS IN THE SAND FILTER SHALL BE CLEANED, WASHED COARSE MASONRY SAND SUCH AS ASTM C33.
2. ALL DRAINAGE AREAS TO A SAND FILTER FACILITY ARE TO BE STABILIZED PRIOR TO INSTALLATION OF SAND.
3. UNDERDRAIN PIPES SHOULD BE MIN. 6" PERFORATED SCHEDULE 40 PVC (PER AASHTO M278) OR DOUBLE WALL HDPE (PER AASHTO M252). PERFORATIONS SHOULD BE 3/8" SPACED 3" ON CENTER ALONG 4 LONGITUDINAL ROWS SPACED 90° APART. UNDERDRAIN PIPES SHALL BE SLOPED AT 0.00% WITHIN THE SAND FILTER FOOTPRINT AND HAVE A MAXIMUM SPACING OF 10 FEET ON CENTER.
4. GRAVEL FOR UNDERDRAIN SHALL BE WASHED 57 STONE, 67 STONE OR AS APPROVED BY THE ENGINEER OF RECORD. PROVIDE 4" MIN. GRAVEL COVER OVER 6" UNDERDRAIN.
5. CLEAN OUTS IN THE UNDERDRAIN SYSTEM ARE TO BE PROVIDED EVERY 50' MINIMUM. CLEAN OUTS SHALL HAVE WATER TIGHT, VANDAL PROOF CAPS AND EXTEND 6" ABOVE THE SURFACE. SEE PLAN FOR LOCATION.
6. SAND FILTER IS LOCATED A MINIMUM OF 100' FROM ANY WATER SUPPLY WELL.
7. LOCATION OF SEASONALLY HIGH GROUNDWATER ELEVATION NOT FOUND.
8. FOREBAY SHALL BE LINED WITH AN IMPERMEABLE MEMBRANE TO BE INSTALLED PER THE MANUFACTURER RECOMMENDATIONS.
9. MAXIMUM WATER SURFACE PER ROUTING COMPUTATIONS IN SOUTHEAST DRY DETENTION BASIN:  
1YR-24HR STORM = 699.55  
2YR-24HR STORM = 700.13  
10YR-24HR STORM = 701.04  
25YR-24HR STORM = 701.49  
100YR-24HR STORM = 701.94  
PERIMETER BERM = 703.0



**2** SOUTHEAST DETENTION WITH SURFACE SAND FILTER SECTIONS  
SCALE: NTS

**1** Plan View  
SCALE: 1" = 20'