FILL CHART

Material Location	Description	Material Classification		lassification	Compaction/Density Requirement (NOTE 3)
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans		nnical Report and Site ineer's Plans	Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended. After 24 inches of fill is placed, place fill in accordance with the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximum Dry Density - whichever is greater.
EMBEDMENT FILL Fill Immediately Surrounding the sides and top of tank (NOTE 4) BEDDING FILL Fill Immediately below the tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	or	13 357 4 467 5 56 57	Plate Compact or Static Roll loose lifts to densify fill. Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.

NOTE 1: This layer can include pavement subbase

Specified By Site

Design Engineer

(See Cover Chart)

NOTE 2: If open-graded aggregates are used for embedment fill, fines migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface. NOTE 3: See Construction Equipment Table for more information for construction equipment limitations.

-30 mil Impermeable

(inner) around entire

Geomembrane

tank by Others

1 LAYER 900SD - 1 LAYER 300SD

DETENTION CROSS SECTION

NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate

-900SD Side Panel (Part # 138463)

-300SD Half-Module

(Part # 138574)

-FINAL FILL (See Fill Chart)

-900SD Half-Module

(Part #138464) TYP.

EMBEDMENT FILL (See Fill Chart)

-BEDDING FILL (See Fill Chart)

Engineer of Record

requirements during design and construction

responsible for checking

that subgrade soils meet

the bearing and settlement

TYP. for all exterior sides

NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation

Surface Material

-6 oz Non-Woven

Geotextile (outer)

selected compaction equipment, whichever is greater.

around entire

tank by Others

(Pavement Section or

Site Design Engineer

Topsoil) as Specified by

CONSTRUCTION EQUIPMENT CHART Equipment Make (NOTE 1) Maximum Gross Vehicle Weight (lbs) Minimum Fill Depth over Tank (in) 1.500 Compact Track Loader (NOTE 2) 7,500 7,500

Rubber-Tired Skid Steer (NOTE 3) Low Ground Pressure Tracked Vehicles (NOTE 4) 20.000 14 12,000 Roller - Static Mode 12.000 Roller - Vibratory Mode 24 Dump Trucks and Pans NOTE 5

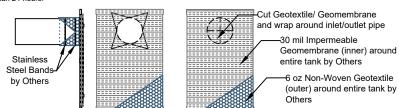
NOTE 1: Vehicles shall make straight runs only across tank footprint.

NOTE 2: Maximum ground pressure = 5 psi NOTE 3: Maximum axle load = 5,250 lbs

Plate Compactor

NOTE 4: Maximum ground pressure = 7 psi
NOTE 5: Contact ACO for more information regarding dump truck and pan traffic during construction.

NOTE 6: Backfill material may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.



DETAIL A - PIPE WRAP

Remote Access Cover Vented (Part #314133) or Solid (Part #314132) - See NOTE 1 Extension Shaft (Part #314038) -Concrete Load Distribution Plate by Others - See NOTE 2 -Remote Access Plate (Part #314075) - See NOTE 3 900SD Side Panel (Part # 138463) TYP. for all exterior sides -900SD Half-Module (Part #138464) TYP 300SD Side Panel (Part #138573) for all exterior sides -300SD Half-Module (Part # 138574)

> 1 LAYER 900SD - 1 LAYER 300SD **ACCESS POINT CROSS SECTION**

NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended. NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer

NOTE 3: The Remote Access Plate is approximately the size of half of a half-module. The half-module at the top of the tank must be cut in half to accommodate the Remote Access Plate

COVER CHART

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas	12	78	
(i.e. Landscaping)	12		
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	78	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	24	78	
vehicle			
Frequent AASHTO HS-20 Traffic	26	78	

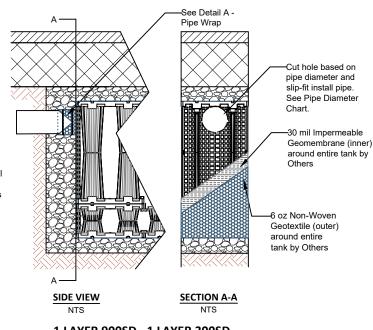
NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on an asphalt-surfaced pavement with a 30 degree load distribution NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum density of 120 lbs per cubic foot, and a seasonal groundwater elevation at least 2 feet below the invert of the tank.

SIDE PANEL PIPE DIAMETER CHART

	Inlet/Outlet Pipe Diameter				
Module Type	Minimum	Maximum			
900SD	4 inches	24 inches (Note 2)			
300SD	4 inches	6 inches			

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels

NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter



1 LAYER 900SD - 1 LAYER 300SD PIPE INSTALLATION

CHECKED BY DRAWN BY J Jonke A Frye DATE REV. 12/23/2024

STORMBRIXX STANDARD DETAILS 900SD/300SD SYSTEM - 1 LAYER - DETENTION



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