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			nnical Report and Site ineer's Plans	Plate Compact or Static Roll up to 8-inch 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	Sand Country of Country of Country	AACUTO N4445			Plate Compact or Static Roll up to 8-inch loose lifts to densify
top of tank (NOTE 4) BEDDING FILL	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	or		fill. Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of the
Fill Immediately below the tank	Crushed Aggregate Diellus	A 1, A 2-4, A-3		1	Standard Proctor Maximum Dry Density is recommended.

NOTE 1: This layer can include pavement subbase

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.

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

CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Fill Depth over Tank (in)			
Plate Compactor	1,500	6			
Roller - Static Mode	12,000	18			
Low Ground Pressure Tracked Vehicles (NOTE 2)	20,000	14			
Roller - Vibratory Mode	12,000	24			
Dump Trucks and Pans	NOTE,3				

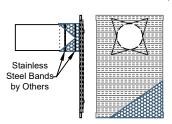
NOTE 1: Vehicles shall make straight runs only across tank footprint.

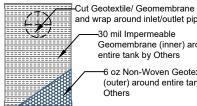
NOTE 2: Maximum track pressure 7 psi for tracked vehicles.

NOTE 3: Dump trucks and pans shall not traverse or park over the system during construction. 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





and wrap around inlet/outlet pipe -30 mil Impermeable Geomembrane (inner) around entire tank by Others 6 oz Non-Woven Geotextile (outer) around entire tank by

least 2 feet below the invert of the tank. **SIDE PANEL PIPE**

DIAMETER CHART

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

32-degree angle of internal friction and a maximum density of

120 lbs per cubic foot, and a seasonal groundwater elevation at

NOTE 2: Calculations assume backfill with a minimum

COVER CHART

Live Loading Condition Non-Trafficked Areas

(i.e. Landscaping) Passenger Vehicles Parking Lot (i.e. Gross Vehicle Weight

<10.000 lbs) Passenger Vehicle Parking Lot

with one weekly AASHTO HS-20

vehicle

Frequent AASHTO HS-20 Traffic

Cover Thickness (inches)

78

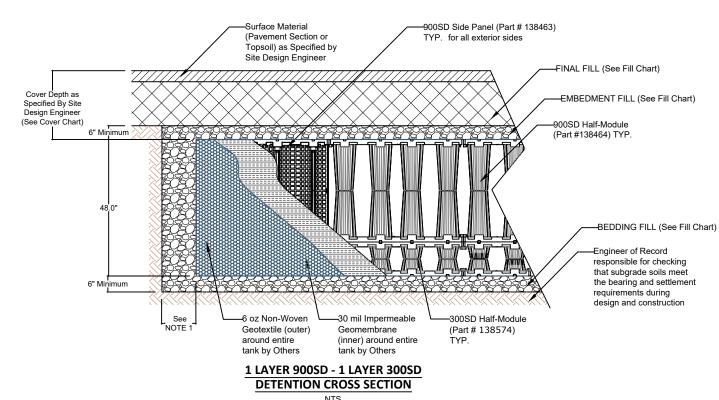
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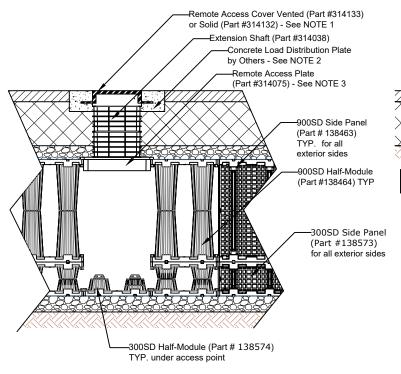
	Inlet/Outlet Pipe Diameter			
Module Type	Minimum	Maximum		
900SD	4 inches	24 inches (Note 2)		
300SD	4 inches	6 inches		

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



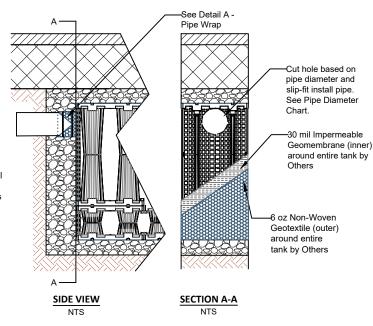
NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater.



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



1 LAYER 900SD - 1 LAYER 300SD PIPE INSTALLATION NTS

CHECKED BY DRAWN BY J Jonke A Frye DATE REV. 2 10/01/2024

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



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