FILL CHART

Material Location	Description	Material Classification			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				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	l or	AASHTO M43 3, 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

Cover Depth as

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.

-900SD Side Panel (Part # 138463)

-900SD Half-Module

(Part #138464)

-FINAL FILL (See Fill Chart)

-EMBEDMENT FILL (See Fill Chart)

BEDDING FILL (See Fill Chart)

Engineer of Record responsible for checking that subgrade soils meet the bearing and settlement

requirements during design and construction

TYP. for all exterior sides

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

-30 mil Impermeable

(inner) around entire

Geomembrane

tank by Others

2 LAYER 900SD

DETENTION CROSS SECTION

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

Surface Material (Pavement

by Site Design Engineer

0303030303030303030

6 oz Non-Wover

around entire

tank by Others

selected compaction equipment, whichever is greater.

Geotextile (outer)

Section or Topsoil) as Specified

CONSTRUCTION EQUIPMENT CHART

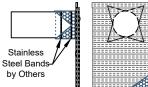
Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)	
Plate Compactor	1,500	6	
Compact Track Loader (NOTE 2)	7,500	6	
Rubber-Tired Skid Steer (NOTE 3)	7,500	14	
Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	14	
Roller - Static Mode	12,000	18	
Roller - Vibratory Mode	12,000	24	
Dump Trucks and Pans	NOTE 5		

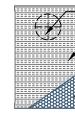
NOTE 1: Vehicles shall make straight runs only across tank footprint.

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

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

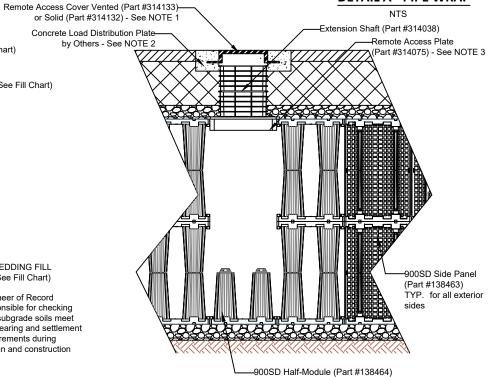
longer than 24 hours.





Cut Geotextile/ Geomembrane 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

DETAIL A - PIPE WRAP



COVER CHART

Live Leading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas	12	72	
(i.e. Landscaping)	12		
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	72	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	24	72	
vehicle			
Frequent AASHTO HS-20 Traffic	26	72	

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

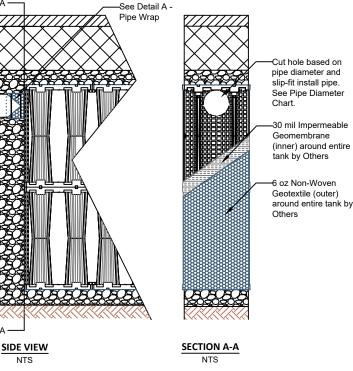
foot, and a seasonal groundwater elevation at least 2 feet below the

SIDE PANEL PIPE DIAMETER CHART

Inlet/Outlet Pipe Diameter				
Minimum	Maximum			
4 inches	24 inches (Note 2)			

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



2 LAYER 900SD PIPE INSTALLATION NTS

2 LAYER 900SD 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.

TYP. under access point

NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer of Record for requirements 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

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

STORMBRIXX STANDARD DETAILS 900SD SYSTEM - 2 LAYER - DETENTION



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