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		nical 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	AASHTO M43	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.

-300SD Half-Module

(Part # 138574) TYP.

(Part # 314094) TYP.

Half-Layer Top Plate Cover

-900SD Half-Module

(Part #138464)

-900SD Side Panel (Part # 138463)

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

-FINAL FILL (See Fill Chart)

-Surface Material

(Pavement Section or

Site Design Engineer

Topsoil) as Specified by

-6 oz Non-Woven

Geotextile (outer)

around entire

selected compaction equipment, whichever is greater.

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

1 LAYER 900SD - 0.5 LAYER 300SD

DETENTION CROSS SECTION

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

CONSTRUCTION EQUIPMENT CHART

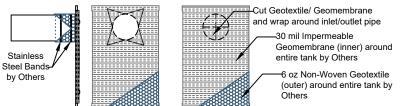
Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)		
Plate Compactor	1,500	6		
Compact Track Loader (NOTE 2)	7,500	6		
Rubber-Tired Skid Steer (NOTE 3)	7,500	14		
Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	14		
Roller - Static Mode	12,000	18		
Roller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

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



DETAIL A - PIPE WRAP

TYP. for all exterior

sides

-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 -Half-Layer Top Plate Cover (Part # 314094) TYP. -300SD Half-Module (Part # 138574) TYP. -900SD Side Pane —900SD Half-Module (Part # 138463) (Part #138464)

1 LAYER 900SD - 0.5 LAYER 300SD **ACCESS POINT CROSS SECTION**

TYP. under access

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 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

	Inlet/Outlet Pipe Diameter				
Module Type	Minimum	Maximum			
900SD	4 inches	24 inches (Note 2)			
300SD	4 inches	4 inches			
NOTE 4 0 411 41 41 41 41 41 41 41 41 41 41 41 41					

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

SIDE PANEL PIPE DIAMETER CHART

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

below the invert of the tank.

Frequent AASHTO HS-20 Traffic

Cover Thickness (inches)

78

78

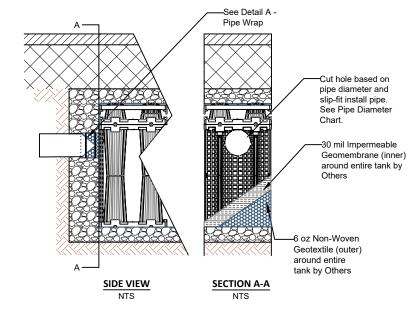
78

12

26

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: 0.5-layer 300SD module does not have side panels. Pipe may be set between top plate cover and bottom of module body. Contact ACO for guidance.

NOTE 4: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter



1 LAYER 900SD - 0.5 LAYER 300SD PIPE INSTALLATION

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

STORMBRIXX STANDARD DETAILS SYSTEM - 900SD 1 LAYER - 300SD 0.5 LAYER - DETENTION



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