FILL CHART

Material Location	Description	Ma	terial C	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	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 top of tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded	AASHTO M145		AASHTO M43	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
BEDDING FILL Fill Immediately below the tank (NOTE 4)	Crushed Aggregate Blends	A-1, A-2-4, A-3	or		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.

-30 mil Impermeable

(inner) around entire

tank by Others

900SD Side Panel (Part # 138463)

-900SD Half-Module

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

Surface Material

6 oz Non-Woven

Geotextile (outer)

1 LAYER 900SD

DETENTION CROSS SECTION

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

around entire

tank by Others

selected compaction equipment, whichever is greater.

(Pavement Section or

Site Design Engineer

Topsoil) as Specified by

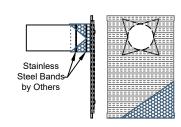
CONSTRUCTION EQUIPMENT CHART

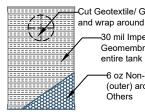
Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Fill Depth over Tank (in)	
Plate Compactor	1,500	6	
Roller - Static Mode	12,000	18	
Low Ground Pressure Tracked Vehicles (NOTE 2)	20,000	14	
Roller - Vibratory Mode	12,000	24	
Dump Trucks and Pans	NOTE.3		

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.





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

SIDE PANEL PIPE DIAMETER CHART

COVER 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. 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

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

below the invert of the tank.

Cover Thickness (inches)

78

78

78

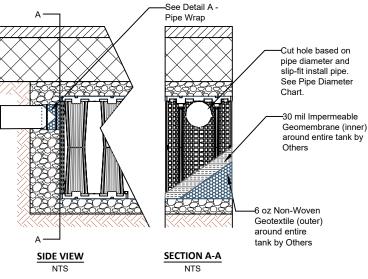
78

12

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

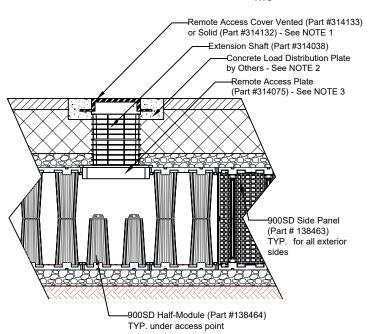
NOTE 1: Cut inlet / outlet pipe hole prior to side NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels.

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



1 LAYER 900SD **PIPE INSTALLATION**

DETAIL A PIPE WRAP



1 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. 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. 2 10/01/2024

STORMBRIXX STANDARD DETAILS 900SD SYSTEM - 1 LAYER - DETENTION



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