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 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 top of tank (NOTE 4) BEDDING FILL Fill Immediately below the tank	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 up to 8-inch 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 4)					3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1

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.

-6 oz Non-Woven

Geotextile (outer) around

600HD Side Panel (Part # 314062)

TYP. for all exterior sides

-30 mil Impermeable Geomembrane (inner) around entire tank by Others

entire tank by Others

Half-Layer Top Plate Cover

-600HD Half-Laver Side Panel

-600HD Half-Module

(Part #314061) TYP.

Engineer of Record

requirements during design and construction

responsible for checking

that subgrade soils meet

the bearing and settlement

-BEDDING FILL (See Fill Chart)

-FINAL FILL (See Fill Chart) -EMBEDMENT FILL (See Fill Chart)

TYP. for all exterior sides

(Part # 314094) TYP.

(Part # 314095)

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 (Pavement Section

or Topsoil) as Specified by Site

1.5 LAYER 600HD

DETENTION CROSS SECTION

selected compaction equipment, whichever is greater.

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

Design Engineer

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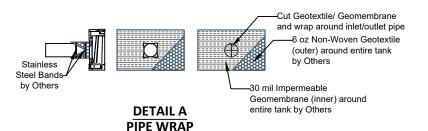
CONSTRUCTION EQUIPMENT CHART

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.



Remote Access Cover Vented (Part #314133) or Solid (Part #314132) - See NOTE 1

NTS

COVER CHART

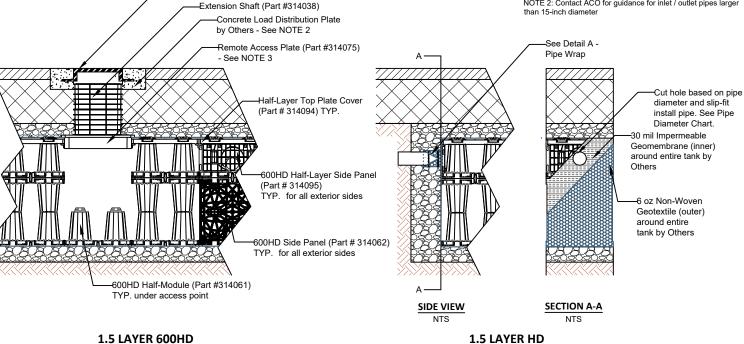
Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	124	
Landscaping)	12	134	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	134	
<10,000 lbs}			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	20	134	
vehicle			
Frequent AASHTO HS-20 Traffic	22	134	
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-25	24	134	
vehicle			
Frequent AASHTO HS-25 Traffic	26	134	

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

Layer Height	Inlet/Outlet Pipe Diameter			
Layer neight	Minimum	Maximum		
0.5	4 inches	10 inches		
1	4 inches	15 inches		

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger



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

ACCESS POINT CROSS SECTION

DRAWN BY	CHECKED BY
A Frye	J Jonke
DATE	REV.
10/01/2024	0

STORMBRIXX STANDARD DETAILS **600HD SYSTEM - 1.5 LAYER - DETENTION**



PIPE INSTALLATION

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