FILL CHART

Material Location	Description	Mat	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		fill. Use at least two full passes of layer. Continue until 24 inches of placed above the tank. For AASH1 of 95% of the Standard Proctor M recommended. After 24 inches of fill is placed, plathe engineer of record's relative companies.		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 -
EMBEDMENT FILL Fill Immediately Surrounding the sides and					Plate Compact or Static Roll up to 8-inch loose lifts to densify	
top of tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded	AASHTO M145	or	AASHTO M43	fill. Use at least two full passes of the equipment to level the	
BEDDING FILL	Crushed Aggregate Blends	A-1, A-2-4, A-3	31	3, 357, 4, 467, 5, 56, 57	layer. For AASHTO M145 soils, a minimum of 95% of the	
Fill Immediately below the tank					Standard Proctor Maximum Dry Density is recommended.	
(NOTE 4)						

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.

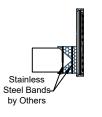
NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation

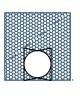
CONSTRUCTION EQUIPMENT CHART

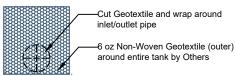
Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)	Fill Depth over Tank (in)
Plate Compactor	1,500	6
Roller - Static Mode	12,000	18
Low Ground Pressure Tracked Vehicles (NOTE 2)	20,000	14
Roller - Vibratory Mode	12,000	24
Jump Trucks and Pans NOTE,3		

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

NOTE 3: Dump trucks and pans shall not traverse or park over the system during construction. Backfill material may be temporarily







-Cut Geotextile and wrap around

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. NOTE 2: Calculations assume backfill with a minimum 32-degree

angle of internal friction and a maximum density of 120 lbs pe

cubic foot, and a seasonal groundwater elevation at least 2 feet

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)

Maxim

78

78

6 oz Non-Woven

Geotextile (outer)

-Cut template hole

diameter and slip-fit install pipe. See Pipe

based on pipe

Diameter Chart.

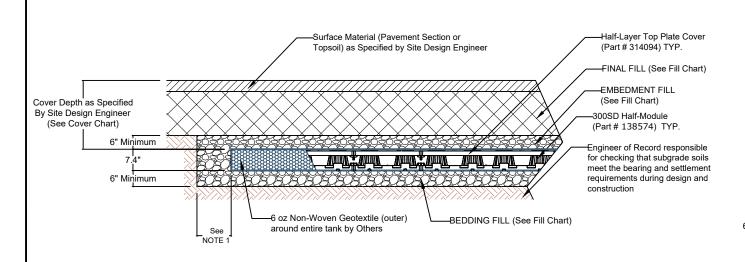
Others

around entire tank by

Disco I a series	Pipe Diameter			
Pipe Location	Minimum	Maximum		
Module	4 inches			
Remote Access Unit	6 inches	15 inches (See Note 2)		

NOTE 1: Cut inlet / outlet pipe hole prior to Module and Remote Access Unit installation NOTE 2: If the 600HD Remote Access Unit with Adapter Plate (Part #138140) is used, outlet pipes up to 18-inches in diameter may be installed.

DETAIL A PIPE WRAP



INFILTRATION CROSS SECTION

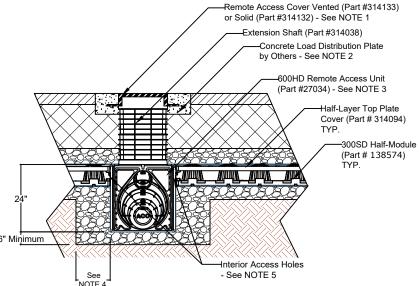
NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater

NOTE 2: Side panels are not required along 300 half layers.

0.5 LAYER 300SD

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

unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.



0.5 LAYER 300SD ACCESS UNIT CROSS SECTION

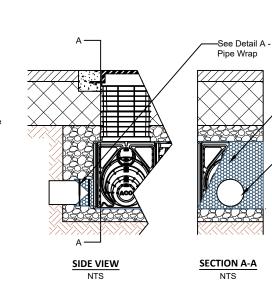
NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended.

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

NOTE 3: To accommodate the Remote Access Unit, half-modules may need to be cut in half. See the project-specific layer orientation drawings for more information.

NOTE 4: The minimum width of sidewall backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater. NOTE 5: Contractor to cut template holes on interior panels to allow water flow and

tank access. Unless otherwise specified in the project drawings, cut 4" diameter template holes near the top of the Remote Access Unit on the three interior sides.



0.5 LAYER 300SD PIPE INSTALLATION

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

STORMBRIXX STANDARD DETAILS **300SD SYSTEM - 0.5 LAYER - INFILTRATION**



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