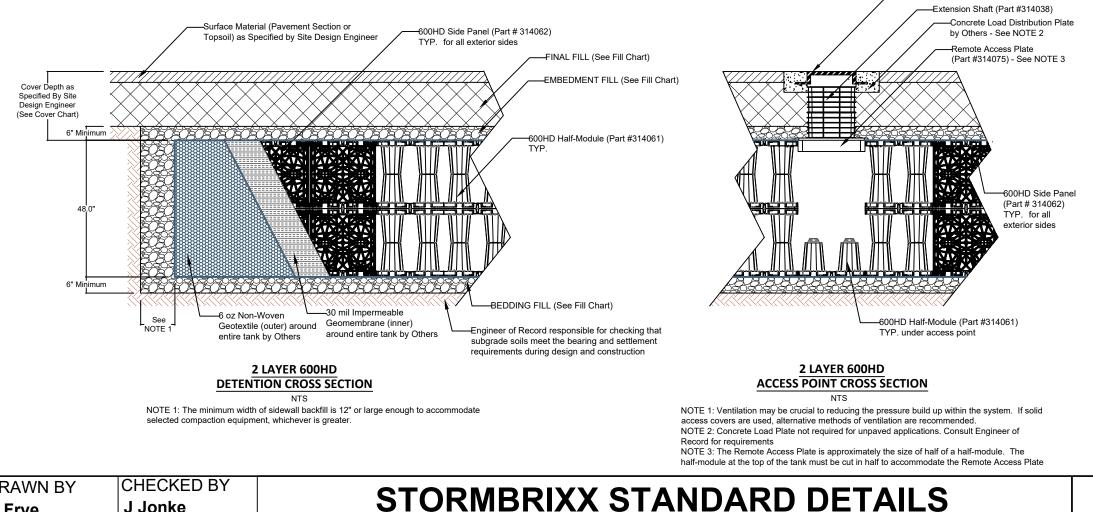
FILL CHART				CONSTRUCTION EQUIPMENT CHART		
Material Location	Description	Material Cla	assification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs)
				Plate Compact or Static Roll up to 8-inch loose lifts to densify	Plate Compactor	1,500
				fill. Use at least two full passes of the equipment to level the	Roller - Static Mode	12,000
				layer. Continue until 24 inches of total fill thickness has been	Low Ground Pressure Tracked Vehicles (NOTE 2)	20,000
				placed above the tank. For AASHTO M145 soils, a minimum	Roller - Vibratory Mode	12,000
FINAL FILL	Suitable Fill Materials as noted in the	See Project Geotechnical Report and Site		of 95% of the Standard Proctor Maximum Dry Density is	Dump Trucks and Pans	NOTE 3
Fill starting from the top of the Project Geotechnical Report and noted embedment fill layer. (NOTE 1 and 2) the Site Design Engineer's Plans	Design Engineer's Plans		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.	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. E unloaded near the excavation. Material shall not be stockpiled near the excavation for longer the Cut Ge and wr		
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	AASHTO M43 3, 357, 4, 467, 5, 56, 57	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.	Stainless Steel Bands by Others	

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.



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

600HD SYSTEM - 2 LAYER - DETENTION

Fill Depth over Tank (in)		
6		
18		
14		
24		

struction. Backfill material may be temporarily longer than 24 hours.

-Cut Geotextile/ Geomembrane and wrap around inlet/outlet pipe

by Others

DETAIL A

PIPE WRAP

NTS

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

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

-6 oz Non-Woven Geotextile (outer) around entire tank

cov	ED	CЦ	ΛDT
LUV	EN	СП	ANI

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	130	
Landscaping)	12	130	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	130	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	20	130	
vehicle			
Frequent AASHTO HS-20 Traffic	22	130	
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-25	24	130	
vehicle			
Frequent AASHTO HS-25 Traffic	26	130	

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

Inlet/Outlet Pipe Diameter		
Minimum	Maximum	
4 inches	15 inches	

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE : Contact ACO for guidance for inlet / outlet pipes larger than 15-inch diameter

