CONSTRUCTION EQUIPMENT CHART

entire tank by Others

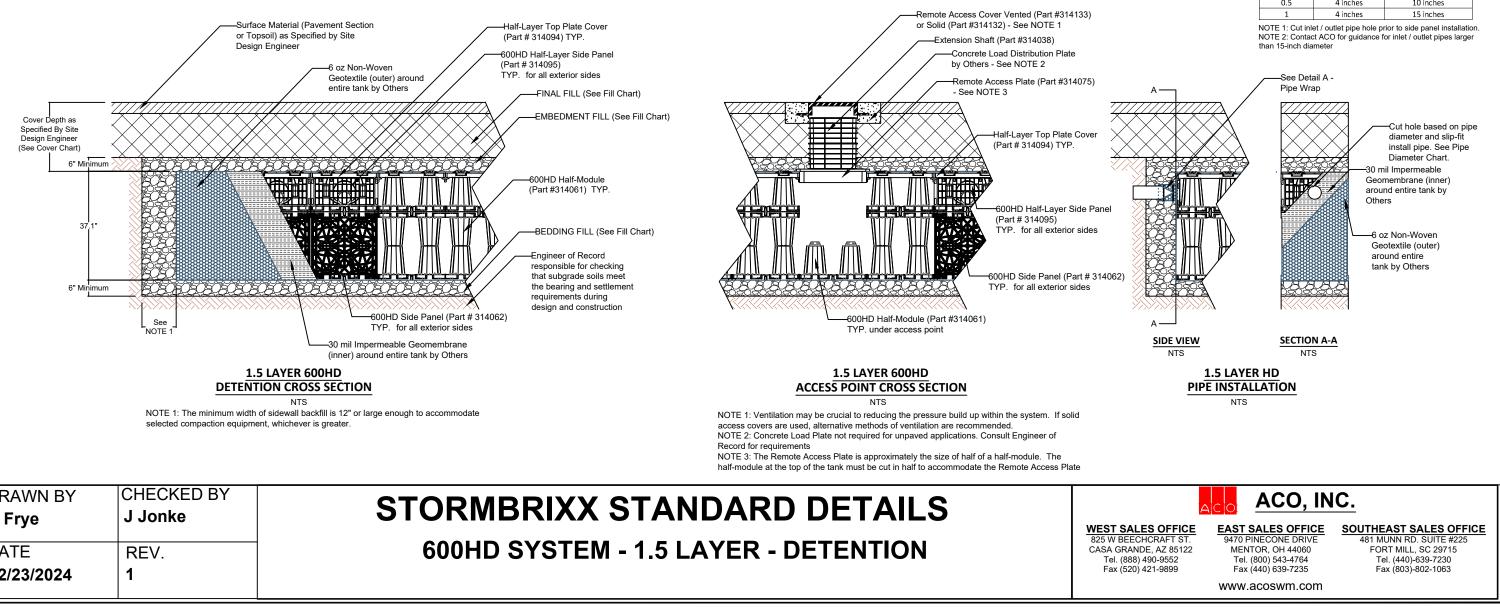
Description	Mate	rial Classification		Compaction/Density Requirement (NOTE 3)	Equipment Make (NOTE 1)	Maximum Gross Vehicle Weight (lbs) Mini	
•				Plate Compact or Static Roll loose lifts to densify fill.	Plate Compactor	1,500	
					Compact Track Loader (NOTE 2)	7,500	
					Rubber-Tired Skid Steer (NOTE 3)	7,500	
					Low Ground Pressure Tracked Vehicles (NOTE 4)	20,000	
	See Project Geotechnical Report and Site				Roller - Static Mode	12,000	
Suitable Fill Materials as noted in the			and Site	a minimum of 95% of the Standard Proctor Maximum Dry	Roller - Vibratory Mode	12,000	
Fill starting from the top of the Project Geotechnical Report and noted				Density is recommended.	Dump Trucks and Pans	NOTE 5	
				with the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximum			
Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-3	orl) M43 7, 5, 56, 57	Use at least two full passes of the equipment to level the layer. For AASHTO M145 soils, a minimum of 95% of		6 oz Non-W	
	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans Sand-Gravel Mixtures or Open-Graded	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans Sand-Gravel Mixtures or Open-Graded AASHTO M145	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans Sand-Gravel Mixtures or Open-Graded AASHTO M145 or AASHTC	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans Sand-Gravel Mixtures or Open-Graded Crusher Aggregate Blends	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends AASHTO M145 A-1, A-2-4, A-3 Crushed Aggregate Blends	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer'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. 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. 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 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 acro NOTE 2: Maximum ageloade = 5,260 lbs NOTE 4: Maximum ageloade = 5,260 lbs NOTE 4: Maximum ageloade = 5,260 lbs NOTE 4: Maximum ageloade = 5,260 lbs NOTE 6: Contact ACO for more information regardin requirement or to 95% of the Standard Proctor Maximum Dry Density - whichever is greater. Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends AASHTO M145 A-1, A-2-4, A-3 a or AASHTO M43 a, 357, 4, 467, 5, 56, 57 Plate Compact or Static Roll Inose 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 Bando	

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.

FILL CHART

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



DETAIL A

PIPE WRAP NTS

DRAWN BY	CHECKED BY
A Frye	J Jonke
DATE	REV.
12/23/2024	1

num Fill Depth over Tank (in)				
6				
6				
14				
14				
18				
24				

naterial may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for

-Cut Geotextile/ Geomembrane and wrap around inlet/outlet pipe -6 oz Non-Woven Geotextile

(outer) around entire tank

Geomembrane (inner) around

COVER CHART

Live Loading Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum Maximum		
Non-Trafficked Areas (i.e.	12	134	
Landscaping)			
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			