Material Location Material Classification Equipment Make (NOTE 1) Maximum Gross Vehicle Weight (lbs) Description Compaction/Density Requirement (NOTE 3) 1,500 Plate Compact or Static Roll up to 8-inch loose lifts to densify Plate Compactor Roller - Static Mode 12,000 fill. Use at least two full passes of the equipment to level the Low Ground Pressure Tracked Vehicles (NOTE 2) 20.000 layer. Continue until 24 inches of total fill thickness has been Roller - Vibratory Mode 12.000 placed above the tank. For AASHTO M145 soils, a minimum **FINAL FILL** Suitable Fill Materials as noted in the of 95% of the Standard Proctor Maximum Dry Density is Dump Trucks and Pans NOTE 3 See Project Geotechnical Report and Site Fill starting from the top of the Project Geotechnical Report and noted on recommended. NOTE 1: Vehicles shall make straight runs only across tank footprint Design Engineer's Plans embedment fill layer. (NOTE 1 and 2) NOTE 2: Maximum track pressure 7 psi for tracked vehicles. the Site Design Engineer's Plans NOTE 3: Dump trucks and pans shall not traverse or park over the system during construction. Backfill material may be temporarily After 24 inches of fill is placed, place fill in accordance with unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours. the engineer of record's relative compaction requirement or to 95% of the Standard Proctor Maximum Dry Density whichever is greater. EMBEDMENT FILL Plate Compact or Static Roll up to 8-inch loose lifts to densify Fill Immediately Surrounding the sides and \square Ð top of tank (NOTE 4) Sand-Gravel Mixtures or Open-Graded AASHTO M145 AASHTO M43 fill. Use at least two full passes of the equipment to level the or A-1, A-2-4, A-3 8, 357, 4, 467, 5, 56, 57 | layer. For AASHTO M145 soils, a minimum of 95% of the Stainless BEDDING FILL Crushed Aggregate Blends Steel Bands Fill Immediately below the tank Standard Proctor Maximum Dry Density is recommended. -30 mil Impermeable Geomembrane by Others (NOTE 4) (inner) around entire tank by Others **DETAIL A** 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. **PIPE WRAP** 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 NTS Remote Access Cover Vented (Part #314133) or Solid (Part #314132) - See NOTE 1 Extension Shaft (Part #314038) -Concrete Load Distribution Plate -Surface Material (Pavement Section or -300HD Side Panel (Part #138461) by Others - See NOTE 2 Topsoil) as Specified by Site Design Enginee TYP. for all exterior sides Remote Access Plate -FINAL FILL (See Fill Chart) (Part #314075) - See NOTE 3 -EMBEDMENT FILL (See Fill Chart) Cover Depth as Specified By Site Design Engineer (See Cover Chart) -BEDDING FILL (See Fill Chart) 300HD Side Panel 6" Minimum (Part #138461) TYP. for all Engineer of Record responsible for exterior sides 12'1 checking that subgrade soils meet the bearing and settlement requirements during design and construction 6" Minimum -30 mil Impermeable Geomembrane -300HD Half-Module (Part # 138462) TYP. -300HD Half-Module (Part # 138462) (inner) around entire tank by Others See TYP, under access point -6 oz Non-Woven Geotextile (outer) around entire tank by Others 1 LAYER 300HD 1 LAYER 300HD **DETENTION CROSS SECTION** ACCESS POINT CROSS SECTION NOTE 1: The minimum width of sidewall backfill is 12" or large enough to accommodate NOTE 1: Ventilation may be crucial to reducing the pressure build selected compaction equipment, whichever is greater. 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 STORMBRIXX STANDARD DETAILS **J** Jonke A Frye **300HD SYSTEM - 1 LAYER - DETENTION** DATE REV. 0 10/01/2024

FILL CHART

Fill Depth over Tank (in)
6
18
14
24

CONSTRUCTION EQUIPMENT CHART

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

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

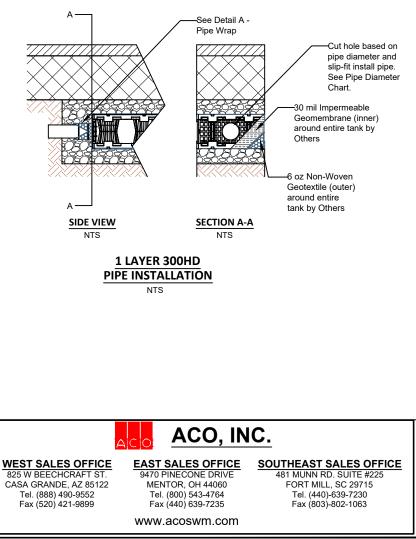
Live Londing Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum	Maximum	
Non-Trafficked Areas (i.e.	12	134	
Landscaping)		154	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	134	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	20	134	
vehicle			
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**

Inlet/Outlet Pipe Diameter			
Minimum	Maximum		
4 inches	6 inches		

NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation. NOTE 2: Contact ACO for guidance for inlet / outlet pipes larger than 6-inch diamete



COVER CHART