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 NOTE 2: Maximum track pressure 7 psi for tracked vehicles. embedment fill layer. (NOTE 1 and 2) 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 Sand-Gravel Mixtures or Open-Graded AASHTO M145 AASHTO M43 fill. Use at least two full passes of the equipment to level the top of tank (NOTE 4) 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 BEDDING FILL Crushed Aggregate Blends Fill Immediately below the tank Standard Proctor Maximum Dry Density is recommended. (NOTE 4) NOTE 1: This laver can include pavement subbase Steel Bands 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. by Others 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 **DETAIL A PIPE WRAP** 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 Half-Layer Top Plate Cover by Others - See NOTE 2 Topsoil) as Specified by Site Design Engineer (Part # 314094) TYP -600HD Remote Access Unit -FINAL FILL (See Fill Chart) (Part #27034) - See NOTE 3 -EMBEDMENT FILL Half-Layer Top Plate (See Fill Chart) Cover Depth as Specified Cover (Part # 314094) By Site Design Engineer -300SD Half-Module TVD (See Cover Chart) (Part # 138574) TYP. -300SD Half-Module (Part # 138574) 6" Minimum Engineer of Record responsible ŤΥΡ for checking that subgrade soils meet the bearing and settlement 6" Minimum requirements during design and construction -BEDDING FILL (See Fill Chart) 6" Minimum See NOTE -30 mil Impermeable Geomembrane terior Access Holes (inner) around entire tank by Others See - See NOTE 5 NOTE 4 -6 oz Non-Woven Geotextile (outer) around entire tank by Others 0.5 LAYER 300SD 0.5 LAYER 300SD ACCESS UNIT CROSS SECTION DETENTION 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 up within the system. selected compaction equipment, whichever is greater. If solid access covers are used, alternative methods of ventilation are recommended. NOTE 2: Concrete Load Plate not required for unpaved applications. Consult Engineer NOTE 2: Side panels are not required along 300 half layers. of Record for requirements NOTE 3: To accommodate the 600HD 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. CHECKED BY DRAWN BY STORMBRIXX STANDARD DETAILS **J** Jonke A Frye **300SD SYSTEM - 0.5 LAYER - DETENTION** DATE REV.

Compaction/Density Requirement (NOTE 3) 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

FILL CHART

Description

Material Classification

Material Location

0

10/01/2024

Maximum Gross Vehicle Weight (lbs)

1.500

12,000

CONSTRUCTION EQUIPMENT CHART

Equipment Make (NOTE 1)

Plate Compactor

Roller - Static Mode

Fill Depth over Tank (in)
6
18
14
24

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

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

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

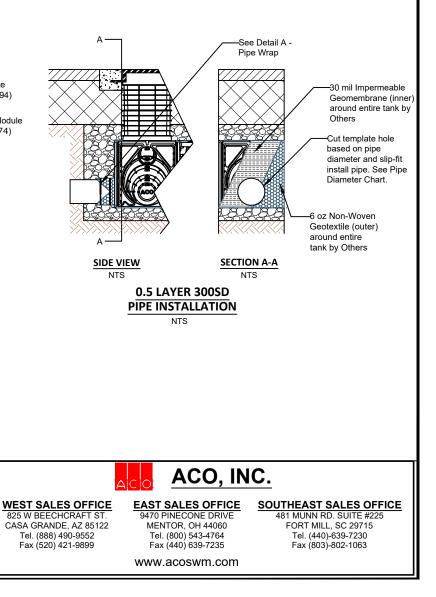
COVERCIART			
Live Loading Condition	Cover Thickness (inches)		
	Minimum	Maximum	
Non-Trafficked Areas (i.e. Landscaping)	12	78	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	78	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	24	78	
vehicle			
Frequent AASHTO HS-20 Traffic	26	78	

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.

PIPE DIAMETER CHART

Pipe Location	Pipe Diameter		
	Minimum	Maximum	
Module	4 inches		
Remote Access Unit	6 inches	15 inches (See Note 2)	
NOTE 1: Cut inlet / and Remote Acces			

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.



COVER CHART