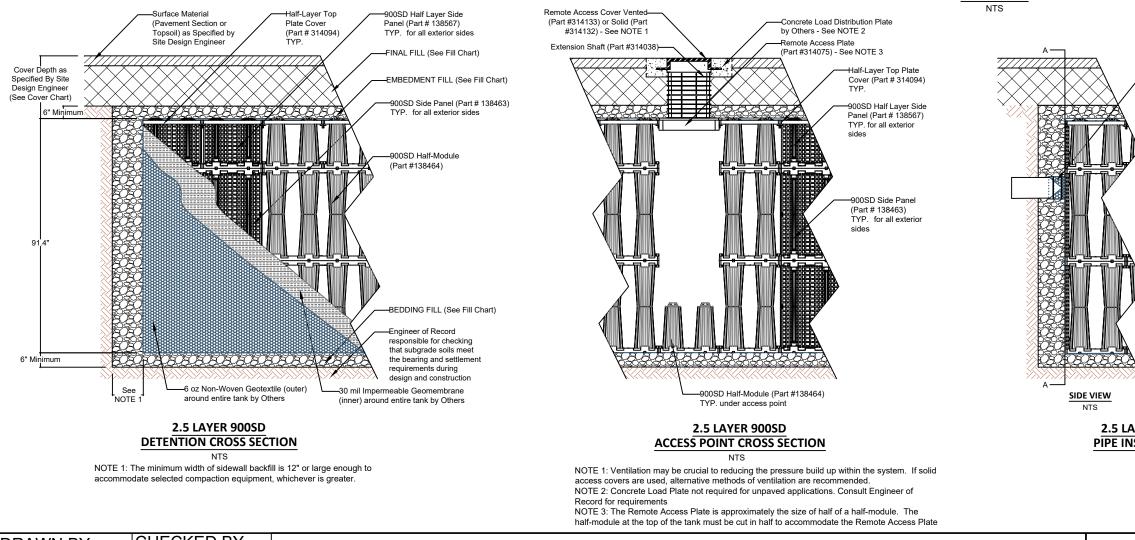
		FILL CHART				
Material Location	Description	Mat	terial C	Classification	Compaction/Density Requirement (NOTE 3)	Equipment Make (NOT
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	-		hnical Report and Site jineer's Plans	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. 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. 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.	Plate Compactor Roller - Static Mode Low Ground Pressure Tr Roller - Vibratory Mode Dump Trucks and Pans NOTE 1: Vehicles shall mal NOTE 2: Maximum track pr NOTE 3: Dump trucks and unloaded near the excavation
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	or	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	CHECKED BY
A Frye	J Jonke
DATE	REV.
09/30/2024	2

STORMBRIXX STANDARD DETAILS DETENTION SYSTEM - 900SD 2.5 LAYER

Fax (520) 421-9899

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
Dump Trucks and Pans	NOTE 3	

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DETAIL A

PIPE WRAP

shall make straight runs only across tank footprint.

track pressure 7 psi for tracked vehicles.

cks and pans shall not traverse or park over the system during construction. Backfill material may be temporarily excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.

-See Detail A -

Pipe Wrap

2020

Cut Geotextile/ Geomembrane and wrap around inlet/outlet pipe

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

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

Others

COVER	CHART
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Live Londing Condition	Cover Thickness (inches)		
Live Loading Condition	Minimum Maximum		
Non-Trafficked Areas	12	54	
(i.e. Landscaping)	12	54	
Passenger Vehicles Parking Lot			
(i.e. Gross Vehicle Weight	18	54	
<10,000 lbs)			
Passenger Vehicle Parking Lot			
with one weekly AASHTO HS-20	24	54	
vehicle			
Frequent AASHTO HS-20 Traffic	26	54	

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	24 inches (Note 2)		

NOTE 1: Cut inlet/outlet pipe hole prior to side panel installation NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels. NOTE 3: Contact ACO for guidance for inlet / outlet pipes larger than 24-inch diameter

Cut hole based on pipe diameter and slip-fit install pipe. See Pipe Diameter Chart

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

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

SECTION A-A NTS

aaa

2.5 LAYER 900SD **PIPE INSTALLATION**

NTS



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