CONSTRUCTION EQUIPMENT CHART

DETAIL A

Others

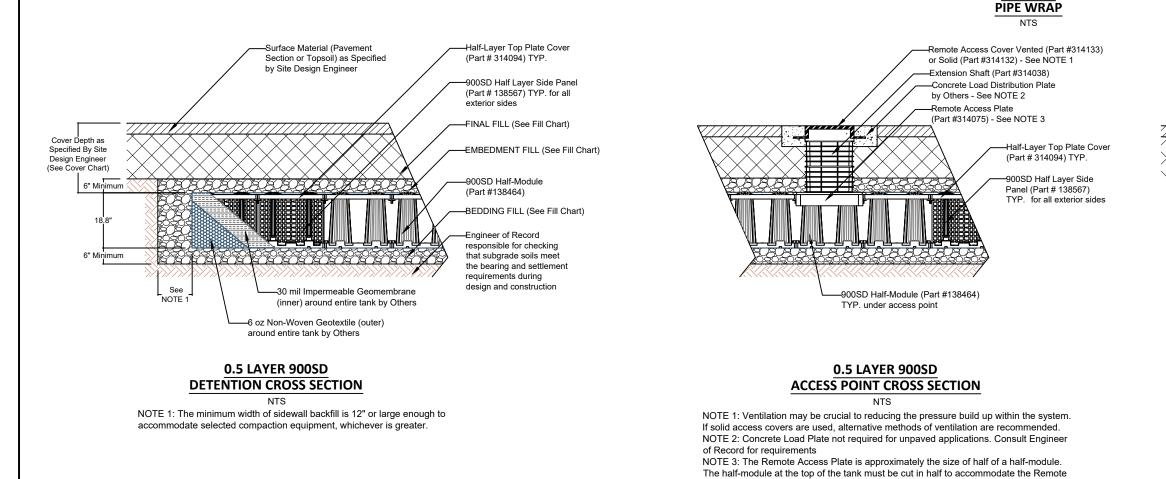
| Material Location | Description | Mate | erial Clas | ssification | Compaction/Density Requirement (NOTE 3) | Equipment Make (NOTE 1) | Maximum Gross Vehicle Weight (lbs) Min | nimu |
|---|---|--------------------------------|------------|--|---|--|--|------------------------------------|
| | | | | | Plate Compact or Static Roll loose lifts to densify fill. | Plate Compactor | 1,500 | |
| | | | | | Use at least two full passes of the equipment to level | Compact Track Loader (NOTE 2) | 7,500 | |
| | | | | | the layer. Continue until 24 inches of total fill thickness | Rubber-Tired Skid Steer (NOTE 3) | 7,500 | |
| | | | | | | Low Ground Pressure Tracked Vehicles (NOTE 4) | 20,000 | |
| | | | | | has been placed above the tank. For AASHTO M145 soils, | Roller - Static Mode | 12,000 | |
| FINAL FILL | Suitable Fill Materials as noted in the | See Project Ge | otechni | ical Report 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 | | | eer's Plans | Density is recommended. | Dump Trucks and Pans | NOTE 5 | |
| embedment fill layer. (NOTE 1 and 2) | on the Site Design Engineer's Plans | | | | 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 2: Maximum ground pressure = 5 psi NOTE 3: Maximum axle load = 5,250 lbs NOTE 4: Maximum ground pressure = 7 psi NOTE 5: Contact ACO for more information regardir NOTE 6: Backfill material may be temporarily unload longer than 24 hours. | | |
| 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 , 357, 4, 467, 5, 56, 57 | Plate Compact or Static Roll 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 | entire tank t | inlet/ ermea rane (by Ot |

FILL CHART

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. | |
| 12/23/2024 | 3 | |

STORMBRIXX STANDARD DETAILS DETENTION SYSTEM - 900SD 0.5 LAYER

Access Plate

COVER CHART

Maximum Gross Vehicle Weight (lbs) Minimum Fill Depth over Tank (in) 14 14 18 24

material 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

-30 mil Impermeable Geomembrane (inner) around

entire tank by Others

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

| Live Loading Condition | Cover Thickness (inches) | | |
|--------------------------------|--------------------------|---------|--|
| Live Loading Condition | Minimum | Maximum | |
| Non-Trafficked Areas | 12 | 78 | |
| (i.e. Landscaping) | 12 | /8 | |
| Passenger Vehicles Parking Lot | | | |
| (i.e. Gross Vehicle Weight | 18 | 78 | |
| <10,000 lbs) | | | |
| Passenger Vehicle Parking Lot | | | |
| with one weekly AASHTO HS- | 24 | 78 | |
| 20 vehicle | | | |
| Heavy 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.

SIDE PANEL PIPE **DIAMETER CHART**

| Layer Height | Inlet/Outlet Pipe Diameter | | | | |
|--------------|----------------------------|-----------|--|--|--|
| Layer neight | Minimum | Maximum | | | |
| 0.5 | 4 inches | 10 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 10-inch diameter

