**EXCAVATION**

1. Install units as close as possible to fixtures being served.
2. Width and length of excavation shall be minimum 12” deeper than the tanks on all sides.
3. Depth of excavation shall be 6” deeper than tank bottom.
4. Set the tank in well-packed crushed aggregate material approximately 3/4” size rock, sand, with no fines.

**UNIT INSTALLATION**

1. Lower and center the unit into hole.
2. Ensure the top of the inlet is level with finished grade.
3. Connect waste piping to the unit.
4. Connect vent piping to vent connection on sidewall of tank. If auxiliary vent is used, remove cap and install on inlet side vent.
5. Fill unit with water before backfilling to stabilize unit, check for leaks, and prevent float out during backfilling.

**AK-1 ANCHOR KIT INSTALLATION STEPS**

1. AK-1 Anchor Kit is required for installations in high water table conditions.
2. All pipes entering/exiting the separator shall be marked and tied with tie wire.
3. The rebar configuration shall be inspected prior to backfill.
4. The separator leak test shall be performed after the rebar configuration has been inspected.
5. The sand/oil separator concrete slab rebar shall be verified.

**BACKFILLING & FINISHED CONCRETE SLAB**

1. Preparation of sub grade per geotech recommendations.
2. Stability and compact sub grade to 95%.
3. Fill tank with water before backfilling to prevent float out during piping installation.
4. Before backfilling and pouring of slab secure cover and riser(s) if necessary, to the unit.
5. Backfill using crushed aggregate material approximately 3/4” size rock, sand, or sand with no fines.
6. Place 6” aggregate base under slab. Aggregate should be 3/4” size rock, or sand, with no fines.
7. Concrete to be 28 day compressive strength to 4000 PSI with 7.5%±1% air entrainment.
8. Concrete Pad shall be monitored for 30 minutes to confirm the concrete to be 28 day compressive strength to 4000 PSI with 7.5%±1% air entrainment.
9. Concrete Pad must extend at minimum of 6” outside the unit footprint.
10. Top of riser is level with finished grade.
11. Lower and center the unit into hole.
12. Riser to match service line size and type.
13. Adjustable adapters with riser to match service line size and type.

**DIFFUSION FLOW TECHNOLOGY**

The inlet diffuser splits influent into three paths, creating laminar flow and utilizing the entire liquid volume of the tank for efficient oil separation. The calibrated openings greatly reduce influent turbulence. The influent enters the main chamber without disturbing the existing oil or sand layers. The bottom of the outlet diffuser allows only effluent that is free of oil to exit the tank.

**ENGINEER SPECIFICATION GUIDE**

Striem Oil Reserv™ oil/sand separator model OS-75-113-JCW shall be lifetime guaranteed and made in USA of stainless, rotationally-molded polyethylene. Separator shall be furnished for below grade installation, with field adjustable riser setup, snap-in flow control and (2) vent connections. Separated flow rates shall be 75 GPM. Separator oil capacity shall be 93 gallons. Sand capacity shall be 11 gallons. Covers shall provide watertight trap seal and have a maximum 16,000 lbs load capacity.

**THIRD PARTY STRUCTURAL ANALYSIS**

This OS-75-113-JCW has been structurally analyzed in accordance with the requirements of IBC 2012/2015 and ASCE/SEI 7-16 for direct burial. The maximum burial depth and backfill material are specified in our installation instructions. This structural design has been reviewed and sealed by a professional engineer registered in the state of California. A sealed structural analysis report is available upon request.

**POLYETHYLENE OIL SEPARATOR**

Model Number: OS-75-113-JCW

Description: 75 GPM, 110 Gallon Capacity

Johnson County Wastewater Detail

**ALL PIPE EMBEDMENT IN ACCORDANCE WITH JCW STANDARDS**

**PROPRIETARY AND CONFIDENTIAL**

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