1. The Stormvault Coalescing Plate Separator System (lamella) is manufactured using high-grade aluminum.
2. For water quality discharge to storm system/unit requiring diversion/bypass system, see Jensen diverter structure.
3. Some internal components not shown for clarity.
4. Each vault section has an access lid unless shown otherwise.
5. All internal components installed by Jensen unless otherwise specified.
6. For units requiring water quality diversion/bypass system, see Jensen diverter structure.
7. Panel details and panel wiring drawings available to support optional level alarm sensor system installation.

**Construction Notes:**
1. All dimensions are in fractional inches.
2. Contractor to verify all dimensions of all precast pieces in field.
3. Verify dimension and condition of removable aluminum frame and media packs before installation.
4. Verify Subbase/Subgrade elevation before placing precast components or backfilling.
5. Apply Butyl Mastic and/or grout to seal joints of structure.
6. Apply load to mastic seal in joints of vault to compress sealant if necessary. Unit must be water tight, holding water up to flowline invert (minimum).
7. Contractor to flow seal inlet and discharge pipes to vault/Manhole wall if no boot connection specified.
8. Block and/or grout pack beneath frames and covers to match finished grade.
9. Top and Bottom slabs and wall thicknesses shall be designed for specific project installation depths.

**Materials:**
1. Precast vault materials and manufacturing methods shall conform to all applicable ASTM and ASSHTO specifications.

**Material List - Provided With Unit:**

<table>
<thead>
<tr>
<th>QTY</th>
<th>Component Description</th>
<th>Material Provider</th>
<th>Responsible Installer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6&quot; Ø Inlet Pipe</td>
<td>Jensen</td>
<td>Contractor</td>
</tr>
<tr>
<td>1</td>
<td>6&quot; Ø Outlet Pipe</td>
<td>Jensen</td>
<td>Contractor</td>
</tr>
<tr>
<td>2</td>
<td>6&quot; Ø Inlet and Outlet Vertical Pipe and Tee</td>
<td>Jensen</td>
<td>Jensen</td>
</tr>
<tr>
<td>1</td>
<td>Removable Coalescing Framework Assembly</td>
<td>Jensen</td>
<td>Contractor</td>
</tr>
<tr>
<td>1</td>
<td>Fixed Coalescing Framework Assembly</td>
<td>Jensen</td>
<td>Jensen</td>
</tr>
<tr>
<td>2</td>
<td>Oil &amp; Grease Sorbent Mats or Pads</td>
<td>Jensen</td>
<td>Jensen</td>
</tr>
<tr>
<td>1</td>
<td>72&quot; x 60&quot; Access Riser</td>
<td>Jensen</td>
<td>Jensen</td>
</tr>
<tr>
<td>72&quot; x 60&quot; Clear Opening Hatch</td>
<td>Jensen</td>
<td>Jensen</td>
<td></td>
</tr>
<tr>
<td>72&quot; x 60&quot; Access Riser</td>
<td>Jensen</td>
<td>Jensen</td>
<td></td>
</tr>
<tr>
<td>24&quot; Cast Iron Framer and Cover</td>
<td>Jensen</td>
<td>Jensen</td>
<td></td>
</tr>
</tbody>
</table>

**Project Name:**

City, State

**City, State:**
521 Dunn Circle, Sparks, NV 89431-6312
877-309-0934, Fax (775) 445-2013
www.jensenengineeredsystems.com

**Specifications:**

- Water Quality Treatment Flowsheet: SVCPS-3/8-100
- Target Influent Concentration: 150 mg/L
- Target suspended particles size to be removed: 43.69 μm (2.0 Standard Deviation 2.0)
- Spacing between lamella plates: 3/8 x 28.8" Long Aluminum Plates
- Number of lamella plates per stack: 3
- Number of lamella plates: 120

**Lamella Plates Treatment Performance Notes:**
1. The Stormvault Coalescing Plate Separator System (lamella) is effective in reducing oil droplets down to 15 mg/L and TSS concentration down to 50 mg/L in the effluent flow.

**Lamella Plate Design Assumptions:**

- Mean Oil Drop Size: 15 mg/L
- Target Effluent Concentration: 200 mg/L
- Specific Gravity of Sediment Particle: 2.65
- Temperature of Operation: 65°F
- Sediment Particle Size Distribution: Log-normal distribution with standard deviation 2.0
- SCALE: 1" = 40"