One Design

But two standard sizes (28ft and 45ft) and many options to choose from depending on project needs
Flowsheet Options

Conventional MBR or high-rate using concentrated oxygen
Options for delivering supplemental O2 depending on AOR

- Option 1 - Membrane air scour
- Option 2 - Air/Mazzei
- Option 3 - O2/Mazzei
- Option 4 - O2/Speece Cone

- 93% concentrated O2
- Safe - on demand O2 generation
- VSA technology
Supplemental O2 System

Saturation Device

IR Pump

MBR

Conc. O2

PCI DOCS80

Speece Cone
- Process Intensification
- Modular
- Ready to operate
How do we do it?

This is how.

Use flexible zones and standard subsystems as building blocks.
As an Example

Four Zone 2 Stage System with Dual MBR Zones, Anoxic and Sludge Storage
### Tule River Tribe

Tribal project, new reservation treatment facility for residence, commercial building and casino.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Inflow</th>
<th>Effluent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>75,000 gpd</td>
<td></td>
</tr>
<tr>
<td>BOD</td>
<td>300 mg/L</td>
<td>5 mg/L</td>
</tr>
<tr>
<td>TN</td>
<td>40 mg/L</td>
<td>10 mg/L</td>
</tr>
<tr>
<td>NH3</td>
<td>28 mg/L</td>
<td>1 mg/L</td>
</tr>
<tr>
<td>TP</td>
<td>8 mg/L</td>
<td>N/A</td>
</tr>
</tbody>
</table>
**Turks & Caicos Day Resort**

Land based Cruise Center. Replaced failing SBR system

- **Flow:** 24,000 gpd
- **BOD Inf | Eff:** 500 mg/L | 10 mg/L
- **TN Inf | Eff:** 140 mg/L | 30 mg/L
- **NH3 Inf | Eff:** 112 mg/L | 1.5 mg/L
- **TP Inf | Eff:** 15 mg/L | 10 mg/L
Sturbridge Travel Center

Travel Center with motel. Replaced to failing RBC system

Flow: 25,000 gpd

BOD Inf | Eff: 400 mg/L | 10 mg/L

TN Inf | Eff: 60 mg/L | 5 mg/L

NH3 Inf | Eff: 45 mg/L | 1 mg/L

TP Inf | Eff: 8 mg/L | N/A