REEDY RIVER BASIN SEWER TUNNEL
Access Shaft Starter Tunnel & Geotechnical Investigation
Geotechnical Investigations
# Geotechnical Investigation - June 2016

<table>
<thead>
<tr>
<th>Boring</th>
<th>Depth to Rock [ft]</th>
<th>Elevation [ft]</th>
</tr>
</thead>
<tbody>
<tr>
<td>*B-4</td>
<td>11.9</td>
<td>831.8</td>
</tr>
<tr>
<td>B-21</td>
<td>12.5</td>
<td>840.5</td>
</tr>
<tr>
<td>B-22</td>
<td>12.5</td>
<td>830</td>
</tr>
<tr>
<td>B-20</td>
<td>30.0</td>
<td>909</td>
</tr>
</tbody>
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*from Terracon study*
Access Shaft Established

- Borings B-4, B-21, and B-22 were located adjacent to shaft location.
- B-20 located near Ridgeland Drive, approximately 400ft from the shaft location.
Geologic Profile After Investigation Results
Proposed Solution
Starter Tunnel Design

- Rib and lagging ground support required for mixed face conditions
- Excavation will involve drill and blast methods and mechanical excavation
Tunnel Shield

- Support of excavation via ribs and lagging for mixed ground conditions
Tunnel Shield

- Tunnel shield serves to protect workers in unstable ground
- Advanced in 4-foot intervals ahead of excavation
Cleveland Park Drive | Swamp Rabbit Trail
Upcoming 60” Crossing of Cleveland Park Drive

- Closure of Cleveland Park Drive beginning on January 14, 2019
- Public safety during crossing
- Swamp Rabbit Trail will be detoured temporarily
- Approximately 60 day total duration