CONCRETE PAVEMENT PATCH DETAIL

TYPICAL TRENCH DETAIL NOTES:
1. prior to forming the sewer system, the existing pavement shall be cut back over undisturbed ground as directed by the engineer.
2. pickup of the trench upward shall be done by forming the existing ground line or by forming the trench.
3. any excavation in the gravel or rock excavation as directed by the engineer.
4. ones used for trench excavation may be installed, they shall be installed in the same pieces for the typical trench, by means of setting the concrete.
5. when forming the pavement shall be removed by the contractor to a thickness equal to the required depth of the pavement.
6. the structural thickness of the new sewer shall be in the finished surface for the project sewer.
7. the new sewer shall be installed in the finished surface for the project sewer.
8. the new sewer shall be installed in the finished surface for the project sewer.
9. the new sewer shall be installed in the finished surface for the project sewer.
10. the new sewer shall be installed in the finished surface for the project sewer.

TYPICAL DUCTILE IRON SEWER TRENCH DETAIL
**LIFT STATION DETAIL**

**SANITARY SEWER CLEANOUT**

---

**LIFT STATION WITH WET WELLS**

**GUARDPOST NOTES:**


2. 3' GLASS REFLECTORS SHALL BE INSTALLED AT THE TOP OF ALL GRAND POSTS, ON BOTH SIDES OF THE STATION.

3. GUARD POSTS SHALL BE CORNER TYPE TREATED WITH GLASS REFLECTORS AFTER CONSTRUCTION. 

4. ELEVATION THROUGH DRAWING SHEET 1 OF 4 IS PROVIDED FOR INTER-SECTION.

**LIFT STATION NOTES:**

1. LIFT STATION SHALL BE A SQUARE HUNTER PROVIDE 24X24-MODEL, 10' ON TINES SPACED 4' ON TINES SPACED 4'.

2. PUMPS SHALL BE SIZED FOR 200,000 GALLONS PER HOUR. PUMPS SHALL BE ELECTRICALLY MOUNTED AS NECESSARY AND WITH A FILTER, SUMP, AND BUCKET OF 200 GALLONS.

3. THE FOLLOWING ELECTRICAL EQUIPMENT, OR EQUIVALENT EQUIPMENT, SHALL BE SUPPLIED WITH THE LIFT STATION, WITH ALL ARRAYS COMPLIANCE FOR THESE ITEMS:

   a. ONE 10 HP MOTOR TO UNLOADER WITH A 30,000 GALLONS PER HOUR. 

4. PUMP TO BE SUPPLIED WITH A MANUFACTURER'S RECOMMENDED LUBRICATION. 

**BREAKAWAY GUARDPOST DETAIL**

**SEWER SERVICE LATERAL CONNECTION**

NOT AS BUILT
### Thrust Block Details

#### Notes:
1. Thrust blocks are to be concrete, class W, poured in place between the settees and instrument braces.
2. The minimum dimensions of the hole for setting of the thrust blocks are as noted to accommodate the thrust.
3. Thrust blocks are to be fixed with the eye of the main brace, horizontally.
4. The minimum cover of the thrust blocks, before pouring concrete, shall be 12 inches as noted.
5. The thrust blocks shall be placed in a vertical position. The extent and quality of backfilling shall be as required by the contractor.

#### Thrust Block Minimum Size Table

<table>
<thead>
<tr>
<th>Thrust Block Diameter</th>
<th>Thrust Block Height</th>
<th>Thrust Block Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>4.4</td>
<td>6.4</td>
</tr>
<tr>
<td>10</td>
<td>5.6</td>
<td>8.0</td>
</tr>
</tbody>
</table>

#### Thrust Block Cost per Thrust Block

<table>
<thead>
<tr>
<th>Thrust Block Diameter</th>
<th>Thrust Block Height</th>
<th>Thrust Block Width</th>
<th>Cost Per Thrust Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>4.4</td>
<td>6.4</td>
<td>$1.00</td>
</tr>
<tr>
<td>10</td>
<td>5.6</td>
<td>8.0</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

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**Note:**
- The future south main, lift stations, pipes, and cisterns are not shown for construction, but are shown here for informational purposes only.