Connecting Palo Alto

XCAP Meeting
Churchill Ave – Closure with Mitigation
Option 1

Tunnel/Undercrossing Information:

- **Tunnel Width**
  - 20-foot width under the crossing
  - 10-foot on ramps

- **Ramp Slope**: 8% slope maximum slope
  - 30-foot ramp segments and 5-foot flat landings @ 30’

- **Height**: 8 to 10-foot clearance
  - Arched Design so side walls at 8 foot and center height 10 foot
Churchill Ave – Closure with Mitigation
Option 2

Tunnel/Undercrossing Information:

- **Tunnel Width:** 10 foot
  - 10-foot width under the crossing
- **Ramp Slope:** 8% slope maximum slope
  - 30-foot ramp segments and 5-foot flat landings @ 30’
- **Height:** 10-foot clearance
  - Arched Design so side walls are 8 foot and center height 10 foot
California Avenue Undercrossing
Existing Condition

Tunnel/Undercrossing Information:

- Tunnel Width: 8 foot
  - 8-foot width under the crossing
- Ramp Slope: 12% slope maximum slope
  - 12.3% measured in field
- Height: 8-foot clearance
Homer Avenue Undercrossing
Existing Condition

Tunnel/Undercrossing Information:

- Tunnel Width: 20 foot
- Ramp Slope: 1:12 or max of 8.33%
  - 7.34% measured in field
- Ramp Width 8.5 - 9.5 foot varies
- Height: 8 foot & 3 inches clearance
Churchill Ave – Closure with Mitigation

Tunnel Information:

- Ramp Slope: 8% slope maximum slope
  - 30-foot ramp segments and 5-foot flat landings @ 30’
Churchill Ave – Closure with Mitigation
Cost Information

<table>
<thead>
<tr>
<th>Alternative</th>
<th>Construction</th>
<th>Right of Way</th>
<th>Utility Support</th>
<th>Escalation (2025)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1</td>
<td>$ 9.7M</td>
<td>$1.6M</td>
<td>$4.3M</td>
<td>$3.0M</td>
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<tr>
<td>Option 2</td>
<td>$ 11.5M</td>
<td>$3.2M</td>
<td>$5.2M</td>
<td>$3.9M</td>
</tr>
</tbody>
</table>

- Option 1 - $ 17M - $21M
- Option 2 - $22M - $27M
Questions?