

Appendix I - Queuing Analysis

TABLE 1
Future Conditions (2027) 30th Highest Hour Queue Analysis

| Intersection | Approach | Lane Group | Existing Storage (feet) | Queue Length (feet) |
|---------------------------------------|------------|-----------------|-------------------------|---------------------|
| US 101 and Salishan Drive | | | | |
| | Eastbound | Left/Thru/Right | -- | 100 |
| | Westbound | Left/Thru/Right | -- | 100 |
| | Northbound | Left | 250 | 100 |
| | | Thru | 1200 | 1320 |
| | | Right | 250 | 160 |
| | Southbound | Left | 250 | 170 |
| | | Thru | 1900 | 2010 |
| | | Right | 250 | 90 |
| US 101 and Drift Creek Road | | | | |
| | Westbound | Left/Right | -- | 40 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left | 150 | 40 |
| | | Thru | -- | -- |
| US 101 and Siletz Highway | | | | |
| | Westbound | Left/Right | -- | 70 |
| | Northbound | Thru | -- | -- |
| | | Right | 250 | 0 |
| | Southbound | Left | 250 | 30 |
| | | Thru | -- | -- |
| US 101 and Immonen Road | | | | |
| | Westbound | Left/Right | -- | 30 |
| | Northbound | Thru | -- | -- |
| | | Right | 200 | 20 |
| | Southbound | Left | 200 | 20 |
| | | Thru | -- | -- |
| US 101 and Gleneden Beach Road | | | | |
| | Eastbound | Left | -- | 90 |
| | | Right | 150 | 20 |
| | Northbound | Left/Thru | -- | -- |
| | Southbound | Thru | -- | -- |
| | | Right | 50 | 130 |
| US 101 and Lancer Street | | | | |
| | Eastbound | Left/Thru/Right | -- | 50 |
| | Westbound | Left/Thru/Right | -- | 20 |
| | Northbound | Left | 250 | 20 |
| | | Thru/Right | -- | -- |
| | Southbound | Left | 250 | 20 |
| | | Thru/Right | -- | -- |
| US 101 and Willow Drive | | | | |
| | Eastbound | Left/Thru/Right | -- | 30 |

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| Intersection | Approach | Lane Group | Existing Storage (feet) | Queue Length (feet) |
|---|------------|-----------------|-------------------------|---------------------|
| | Westbound | Left/Thru | -- | 50 |
| | | Right | 100 | 80 |
| | Northbound | Left | 250 | 20 |
| | | Thru/Right | -- | -- |
| | Southbound | Left | 250 | 70 |
| | | Thru/Right | -- | -- |
| US 101 and Otter Crest Loop North | | | | |
| | Eastbound | Left/Right | -- | 70 |
| | Northbound | Left/Thru | -- | 780 |
| | Southbound | Thru/Right | -- | -- |
| US 101 and Otter Crest Loop South | | | | |
| | Eastbound | Right | -- | 70 |
| | Northbound | Left | 100 | 20 |
| | | Thru | -- | -- |
| | Southbound | Thru | -- | -- |
| US 101 and North Beaver Creek Road | | | | |
| | Eastbound | Left/Thru/Right | -- | 80 |
| | Westbound | Left/Thru/Right | -- | 60 |
| | Northbound | Left | 250 | 10 |
| | | Thru/Right | -- | -- |
| | Southbound | Left | 250 | 10 |
| | | Thru/Right | -- | -- |
| US 101 and Bay View Road | | | | |
| | Eastbound | Left/Thru/Right | -- | 20 |
| | Westbound | Left/Thru/Right | -- | 60 |
| | Northbound | Left | 150 | 10 |
| | | Thru/Right | -- | -- |
| | Southbound | Left | 150 | 20 |
| | | Thru/Right | -- | -- |
| US 101 and Wakonda Beach Road | | | | |
| | Westbound | Left/Right | -- | 20 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left/Thru | -- | 10 |
| US 101 and Yachats River Road | | | | |
| | Westbound | Left/Right | -- | 20 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left/Thru | -- | 10 |
| US 101 and Lori Lane | | | | |
| | Westbound | Left/Right | -- | 20 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left | 100 | 10 |
| | | Thru | -- | -- |
| US 20 and Western Loop | | | | |
| | Eastbound | Left/Thru | -- | 10 |

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|---|------------|-----------------|-------------------------|---------------------|
| | Westbound | Thru/Right | -- | -- |
| | Southbound | Left | 100 | 10 |
| | | Right | | 10 |
| US 20 and Business 20 (west) | | | | |
| | Eastbound | Thru/Right | -- | -- |
| | Westbound | Thru/Right | -- | -- |
| | Northbound | Left/Right | -- | 240 |
| US 20 and OR 229 | | | | |
| | Eastbound | Left | 250 | 170 |
| | | Thru | -- | -- |
| | Westbound | Left | 250 | 50 |
| | | Thru | -- | -- |
| | | Right | 250 | 60 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left/Thru/Right | -- | 330 |
| Business 20 (west) and Business 20 | | | | |
| | Eastbound | Left/Thru | -- | 10 |
| | Westbound | Thru/Right | -- | -- |
| | Southbound | Left/Right | -- | 60 |
| US 20 and Olalla Lake Road | | | | |
| | Eastbound | Left | 250 | 10 |
| | | Thru | -- | -- |
| | Westbound | Thru/Right | -- | -- |
| | Southbound | Left/Right | -- | 10 |
| US 20 and Business 20 (east) | | | | |
| | Westbound | Left | -- | 30 |
| | | Right | -- | 10 |
| | Northbound | Thru | -- | -- |
| | | Right | 100 | 0 |
| | Southbound | Left | 100 | 10 |
| | | Thru | -- | -- |
| OR 18 and Old Scenic Highway 101 | | | | |
| | Eastbound | Left | 200 | 90 |
| | | Thru | -- | -- |
| | Westbound | Thru | -- | -- |
| | | Right | 200 | 40 |
| | Southbound | Left/Right | -- | 90 |
| OR 18 and Bear Creek Road | | | | |
| | Eastbound | Thru/Right | -- | -- |
| | Westbound | Left/Thru | -- | 10 |
| | Northbound | Left/Right | -- | 60 |
| OR 18 and North Bank Road | | | | |
| | Eastbound | Left/Thru | -- | 700 |
| | Westbound | Thru/Right | -- | -- |

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| Intersection | Approach | Lane Group | Existing Storage (feet) | Queue Length (feet) |
|---|-----------------|-----------------|-------------------------|---------------------|
| | Southeast bound | Left/Right | -- | 40 |
| OR 18 and Slick Rock Road | | | | |
| | Eastbound | Thru/Right | -- | -- |
| | Westbound | Left | 100 | 10 |
| | | Thru | -- | -- |
| | Northbound | Left/Right | -- | 30 |
| OR 229 and Pikes Camp Road | | | | |
| | Eastbound | Left/Right | -- | 10 |
| | Northbound | Left/Thru | -- | 0 |
| | Southbound | Thru/Right | -- | -- |
| OR 229 and Logsdan Road | | | | |
| | Westbound | Left/Right | -- | 300 |
| | Northbound | Thru/Right | -- | -- |
| | Southbound | Left/Thru | -- | 160 |
| Otter Crest Lookout and Otter Crest Loop | | | | |
| | Eastbound | Left/Thru/Right | -- | 40 |
| | Westbound | Left/Thru/Right | -- | 60 |
| | Northbound | Left/Thru/Right | -- | 40 |
| | Southbound | Left/Thru/Right | -- | 70 |
| | Northwest bound | Left/Thru/Right | -- | 30 |
| Otter Crest Loop and 1st Street | | | | |
| | Eastbound | Left/Thru/Right | -- | 30 |
| | Westbound | Left/Thru/Right | -- | 10 |
| | Northbound | Left/Thru/Right | -- | 10 |
| | Southbound | Left/Thru/Right | -- | 0 |

Note:

Queue lengths not reported for free-flowing and uncontrolled movements.

Queue lengths rounded up to the nearest ten feet.

Existing storage for through-lanes displayed only when queue is expected to surpass the distance to the next intersection.