



Appendix K

PROPOSED TRAFFIC

SIGNAL UPGRADES

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Table K-1	Clackamas County Traffic Signal Upgrade Proposals
Table K-2	City of Oregon City Notes on Clackamas County Traffic Signal Upgrade Proposals

Table K-1: Clackamas County Traffic Signal Upgrade Proposals

Clackamas County Installation Upgrades

Radio Interconnect Potentials

- 1. Beaver Creek Rd from Henrici to Meyers to CCC (3 Locations).....\$5400.00
- 2. Webster from Lake to Thiessen to Clackamas (3 Locations).....\$5400.00
- 3. Johnson Creek Blvd from Linwood to Bell and then to King @ Linwood to King @ Bell.....<<
.....(4 + 1 Milwaukie Loc's + OSM).....\$9000.00 <<
- 4. Oatfield from Oak Grove to Jennings (4 Loc's + OSM).....\$5000.00

Hardwire Interconnect/Phone Drops

- 1. 92nd Ave from Johnson Creek Blvd to Otty Rd (Interconnect Approx 3000').....\$5500.00
- 2. Johnson Creek Blvd @ Linwood (Phone Line Connection***). See Below
- 3. Oatfield Rd @ Concord (?) (Phone Line Connection***). See Below

*** With phone line connections, there is a minimal labor & equipment cost for initial setup, and regular monthly payments of about \$22.00/month indefinitely. Is there any way to offset the monthly phone bill utilizing a lump sum grant from the ITS fund? Just a thought. Anyway... (\$1500.00 total)

New Loops/Detection Upgrades

- 1. King Rd @ Linwood (New Cabinet – Complete).....\$14,000.00

New Loops/Detection Upgrades

- 1. Sunnyside Rd Main Street Loops from 86th to 93rd (66 Loops to Existing J-B's).....\$40,000.00
- 2. Johnson Creek Blvd @ Fuller (17 Loops to Existing J-Boxes).....\$10,000.00
- 3. Webster @ Clackamas (19 Loops to Existing J-Boxes).....\$10,000.00
- 4. Webster @ Lake (24 Loops to Existing J-Boxes).....\$10,000.00
- 5. Webster @ Thiessen (22 Loops to Existing J-Boxes).....\$10,000.00
- 6. King @ Linwood (20 Loops to Existing J-Boxes plus New J-Box Aprons).....\$10,000.00

New Poles with Conduit Network

- 1. King @ Linwood (3 Poles with Signals, Cabling, Conduit & J-Box Network).....\$90,000.00

City of Oregon City Installation Upgrades

Radio Interconnect Potentials

- 1. Warner-Milne from Linn to Kaen AND from Holmes/Hilda to McDonalds.....\$5400.00
- 2. 7th @ Washington to Monroe St (Tie into City Communication Line?).....\$4000.00

Hardwire Interconnect/Phone Drops

- 1. Holmes + Monroe + Washington @ 7th (Potential to tie into the City Comm Cable Network) ?

170/332 Control Equipment Upgrades

- 1. Molalla @ Gaffney (New Cabinet – Complete).....\$14,000

New Loops/Detection Upgrades

- 1. Molalla @ Gaffney (New Conduit, Cabling & Loops).....\$22,000
- 2. Molalla @ Clairmont (New Conduit, Cabling & Loops).....\$22,000
- 3. Molalla @ Warner-Milne (New Conduit, Cabling & Loops).....\$26,000
- 4. Washington @ 15th (New Loops & Cabling).....\$ 8,000
- 5. Washington @ 14th (New Loops & Cabling).....\$ 8,000
- 6. Warner-Milne @ Linn (22 Loops).....\$10,000
- 7. 7th @ Monroe St (16 Loops to Existing J-Boxes).....\$8,000
- 8. Beavercreek @ Fred Meyer (New Conduit, JB’s, Cabling & Loops)..... \$20,000
- 9. Molalla @ Holmes (Proposed to be Rebuilt in 2+ Years by City).....\$-----

New Poles with Conduit Network

- 1. Washington @ 14th.....\$ *****
- 2. Washington @ 15th.....\$ *****
- 3. Molalla @ Clairmont.....\$ *****
- 4. Molalla @ Gaffney.....\$ *****
- 5. Beavercreek @ Fred Meyers.....\$ *****

***** Fill in the blanks..... ☺ (Figure about \$100,000.00 to &150,000.00 each)

City of Milwaukie Installation Upgrades

Radio Interconnect Potentials

- 1. Johnson Creek Blvd @ Precision Cast to JCB @ Linwood OSM.....\$1800.00

Hardwire Interconnect/Phone Drops

- 1. Harrison @ 32nd to ODOT Signal at Hwy 224 (Aerial Interconnect).....\$ 2000.00

170/332 Control Equipment Upgrades

- 1. Lake Rd @ Oatfield (New Cabinet – Complete).....\$14,000.00
- 2. Lake Rd @ International (New Cabinet – Complete).....\$14,000.00
- 3. Harrison @ 32nd (New Cabinet – Complete).....\$14,000.00
- 4. Harmony @ Linwood (New Cabinet – Complete).....\$14,000.00

New Loops/Detection Upgrades

- 1. Lake Rd @ International (22 Loops, Conduits, Cabling & JB’s).....\$30,000.00
- 2. Harmony @ Linwood (26 Loops).....\$11,000.00
- 3. 17th @ Milport (20 Loops Included in Complete Rebuild).....\$10,000.00
- 4. Harrison @ 32nd (22 Loops to Existing JB’s).....\$10,000.00

New Poles with Conduit Network

- 1. 17th @ Milport (Complete Intersection Rebuild Including New Loops).....\$120,000.00

City of Gladstone Installation Upgrades

Hardwire Interconnect/Phone Drops

- 1. Oatfield Rd from Webster thru Gloucester to 82nd Drive (2500’ Interconnect).....\$ 4500.00

170/332 Control Equipment Upgrades

- 1. 82nd Drive @ Oatfield (New Cabinet – Complete).....\$14,000.00
- 2. Portland Ave @ Gloucester (New Cabinet – Complete).....\$14,000.00

New Loops/Detection Upgrades

- 1. Portland Ave @ Gloucester (Conduit & 16 New Loops Complete).....\$22,000.00

City of Wilsonville Installation Upgrades

Radio Interconnect Potentials

1. Parkway Ave from Boeckman to Town Center Loop (Radio + OSM).....\$5000.00
2. Elligsen Rd from Parkway to Canyon Creek (Radio for 2 Locations).....\$3600.00

It is possible that we *may* be able to tie Elligsen @ Parkway Ave to Parkway @ Boeckman by Radio, but it depends upon site survey data & future development in the old Burns Brothers lot currently under construction. This would potentially save 1 phone line installation for the city.

We will wait & see, I reckon..... ☺

Hardwire Interconnect/Phone Drops

1. Wilsonville Rd from Brown to Kinsman (2500' Interconnect).....\$4500.00
2. Wilsonville Rd @ Meadows (Phone Drop).....\$ 500.00 +/-

170/332 Control Equipment Upgrades

1. Parkway @ Boeckman (New Cabinet – Complete).....\$14,000.00
2. Elligsen @ Parkway Center Dr (Under Construction – To Be Replaced).....\$ --- --- ---

New Loops/Detection Upgrades

1. Elligsen @ Canyon Creek (Main Street MICROWAVE DETECTION).....\$ 5,000.00
2. Parkway @ Boeckman (20 Loops and Saw Pocket Construction).....\$15,000.00

New Poles with Conduit Network

1. Elligsen @ Canyon Creek (Complete Signal less Cabinet, Service & Side St Loops)\$100,000.00

Table K-2: City of Oregon City Notes on Clackamas County Traffic Signal Upgrade Proposals

Radio Interconnect Potentials

County Project: Warner Milne from Linn to Kaen

City Project: TSP #R-44, Warner Milne Rd. From Beaver Creek Rd. to Leland/Linn Ave., 1 additional travel lane in each direction.

Timeline: 6-20 years

County Project: Molalla from Holmes/Hilda to McDonalds.

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005 for Willamette to Pearl and Barclay Hills Dr. to Holmes. The rest of Molalla is 6-20 years.

County Project: 7th @ Washington to Monroe St.

City Project: 7th St. Corridor Plan from Center to Harrison.

Timeline: 2004-2005

Hardwire Interconnect / Phone Drops

County Project: Holmes @ Molalla

City Project: TSP #R-42, Molalla Ave from Willamette to Pearl, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005

County Project: Washington @ 7th

City Project: 7th St. Corridor Plan from Center to Harrison.

Timeline: 2004-2005

170/332 Control Equipment Upgrades

County Project: Molalla @ Gaffney (New cabinet – complete)

City Project: TSP #R-65, Molalla Ave/Gaffney Lane, Traffic signal modification and provision of SB and NB left turn storage as described in the Molalla Avenue Blvd and Bikeway Improvement plan.

Timeline: 2006-2007 with MTIP funding (funding uncertain), 6-20 years without MTIP funding.

New Loops/Detection Upgrades

County Project: Molalla @ Gaffney (New conduit, Cabling And Loops)

City Project: TSP #R-65, Molalla Ave/Gaffney Lane, Traffic signal modification and provision of SB and NB left turn storage as described in the Molalla Avenue Blvd and Bikeway Improvement plan.

Timeline: 2006-2007 with MTIP funding (funding uncertain), 6-20 years without MTIP funding.

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005 for Willamette to Pearl and Barclay Hills Dr. to Holmes. The rest of Molalla is 6-20 years.

County Project: Molalla @ Clairmont (New conduit, Cabling And Loops)

City Project: TSP #R-64, Molalla Ave/Clairmont Way, Traffic signal modification and provision of SB and NB left turn storage as described in the Molalla Ave Blvd and Bikeway Plan.

Timeline: 6-20 years

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005

County Project: Molalla @ Warner Milne (New conduit, Cabling And Loops)

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005 for Willamette to Pearl and Barclay Hills Dr. to Holmes. The rest of Molalla is 6-20 years.

County Project: Washington @ 15th (New conduit, Cabling And Loops)

City Project: TSP #R-5, Washington St/15th St., Intersection and signal modification to provide exclusive LT lanes with protected phasing on the Washington St. approaches, corridor signal interconnect.

Timeline: 1-5 years

County Project: Washington @ 14th (New conduit, Cabling And Loops)

City Project: TSP #R-5, Washington St/15th St., Intersection and signal modification to provide exclusive LT lanes with protected phasing on the Washington St. approaches, corridor signal interconnect.

Timeline: 1-5 years

County Project: Warner Milne @ Linn Ave. (22 loops)

City Project: TSP #R-35, Warner Milne, Warner Parrott, Leland, Linn, and Central Point, Realign offset intersections.

Timeline: 1-5 years

County Project: 7th @ Monroe St. (16 loops to existing J-boxes)

City Project: 7th St. Corridor Plan from Center to Harrison.

Timeline: 2004-2005

County Project: Beaver creek @ Fred Meyer (New conduit, JB's, Cabling, and Loops)

City Project: Urban Renewal Plan, Beaver creek from Molalla to Fir St.

Timeline: 2005-2006

County Project: Molalla @ Holmes

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 2004-2005

New Poles With Conduit Network

County Project: Molalla @ Clairmont

City Project: TSP #R-64, Molalla Ave/Clairmont Way, Traffic signal modification and provision of SB and NB left turn storage as described in the Molalla Ave Blvd and Bikeway Plan.

Timeline: 6-20 years

County Project: Molalla @ Gaffney

City Project: TSP #R-65, Molalla Ave/Gaffney Lane, Traffic signal modification and provision of SB and NB left turn storage as described in the Molalla Avenue Blvd and Bikeway Improvement plan.

Timeline: 2006-2007 with MTIP funding (funding uncertain), 6-20 years without MTIP funding.

City Project: TSP #R-42, Molalla Ave from Dewey St. to HWY 213, Phase 2 of 2 – Molalla Ave Boulevard and Bikeway Improvement Plan

Timeline: 6-20 years.

County Project: Beaver Creek @ Fred Meyers

City Project: Urban Renewal Plan, Beaver Creek from Molalla to Fir St.

Timeline: 2005-2006