Utilities

The Sunrise Project area contains numerous utility facilities that could be affected by construction of the proposed project. The following sections identify service providers in the project area. Figure 58 through Figure 61 show the location of their facilities, including those potentially affected by the proposed project.

Water supply. Clackamas River Water District has two sets of main water transmission lines in the Sunrise Project area, one parallel to the UPRR line and one along OR 212/224. Sunrise Water Authority provides domestic and irrigation water from lines within street rights-of-way (Figure 58).

Sanitary sewer. Clackamas County Service District No. 1 has a main sewer trunk line extending along Kellogg Creek and Mount Scott Creek (east-west) across or near the Sunrise Project area. An extension of the trunk line is being built along Rock Creek from OR 212 to SE Sunnyside Road (Figure 58). A pump station is located at the southwest corner of SE Clackamas Road and SE 98th Street.

Stormwater management services. Clackamas County Sewer District No. 1 has small facilities connected to existing waterways (Mount Scott Creek, Phillips Creek, Dean Creek, Cow Creek, and other unnamed drainage ways). In some areas, these facilities consist primarily of "dry wells" that allow collected surface water to percolate into groundwater. The land use study area contains no large stormwater facilities.

Electric power. Portland General Electric has local electric service lines and power transmission lines in the project area (Figure 59).

Natural gas. Williams Northwest Pipeline has a transmission pipeline running generally north-south at the east end of the Sunrise Project area. A gas distribution facility east of SE 172nd Avenue connects the Williams and the NW Natural systems. Gas is transferred at the Gate Station east of SE 172nd Avenue between OR 212 and Armstrong Circle (Figure 60). The main transmission line runs parallel to OR 212/224 and north along SE 82nd Avenue. This regional distribution system is a key link between national supply and the Portland area market.

The Utilities Technical Report provides details on the following:

- Summary of financial impacts.
- Utility providers and locations, including Clackamas River Water District and Sunrise Water Authority, Clackamas County Service District No. 1, Portland General Electric, Northwest Natural, Williams Pipeline Company, Qwest, Level 3, and Comcast.
- Environmental consequences.

Telecommunications. A variety of providers supply services in the project area. Facilities include telephone cables, fiber-optic cables, TV cables, and cell towers (Figure 61).

Alternative 1–No Build

Alternative 1–No Build would have little to no direct utility impacts different from the alternatives and design options. Construction of the passing lane on OR 212 between Rock Creek Junction and SE Armstrong Circle at the OR 212/224 intersection may affect adjacent utilities.

Alternatives 2 and 3 and the Design Options

Alternatives 2 and **3** and the **design options** are expected to have very similar impacts on the following utility facilities:

- Water lines.
- Sewer lines and planned pump stations and treatment facility.
- Stormwater facilities.
- Electrical lines, distribution lines, and poles.
- Natural gas pipeline.
- Telephone lines, overhead and underground.

- Fiber-optic lines.
- Cable TV lines.
- Cellular telephone transmission towers.

Affected utilities would be required to relocate their facilities into designated Public Utility Easements acquired for that purpose. Utility providers typically pay for relocation or modification of their facilities within the right-of-way, unless the utility can prove a compensable prior property right or easement. Accordingly, where relocation of existing facilities within the right-of-way is required and the utility can prove a compensable property right or easement, the Sunrise Project would be required to reimburse the utility for the relocation cost. The physical and cost impacts are similar in magnitude among **Alternatives 2** and **3** and the design options, from $9.9 to $14.9 million. This number reflects additional research into costs following publication of the SDEIS.

Preferred Alternative

The impacts associated with the **Preferred Alternative** will be substantially the same as the impacts associated with **Alternative 2** and **Design Options C-2**, **D-3,** and a portion of **A-2** (the Tolbert overcrossing to SE Industrial Way). Unlike **Alternative 2** with those options, however, the **Preferred Alternative** will avoid the removal and replacement of the Williams Pipeline/NW Natural regional gas distribution gate station, and modification of KEX facilities. It is the intent of the project to avoid impacts to the Comcast hub station at SE 82nd Drive and SE Lawnfield Road. The **Preferred Alternative** will cost about $6 to $8 million less than **Alternative 2** or **3,** because it will avoid the two major utility impacts.

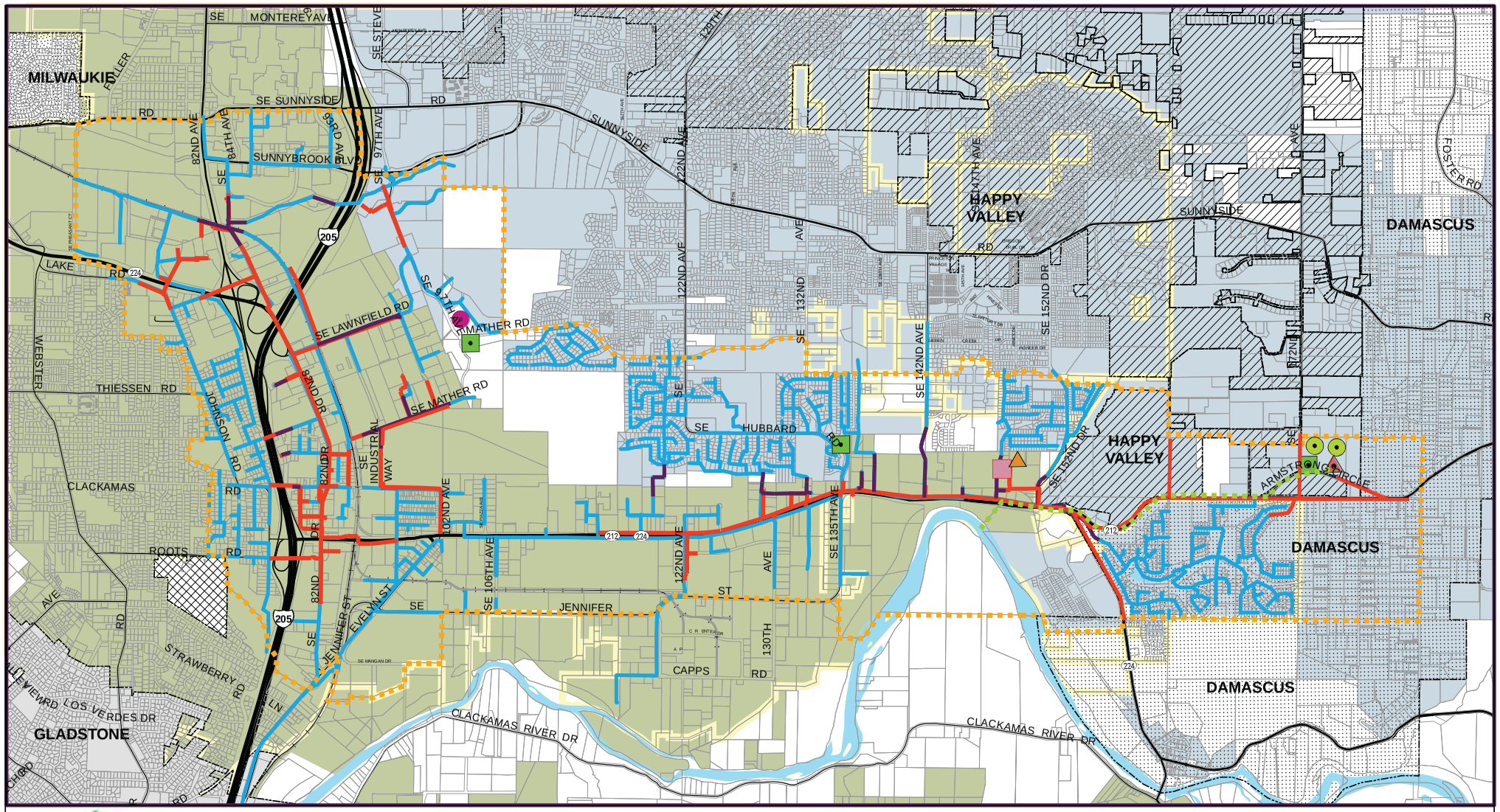
Indirect Effects

No indirect effects would be expected, because no other projects of a similar magnitude are planned for the area.

Mitigation Measures for the Preferred Alternative

No utility mitigation measures will be required or proposed for the **Preferred Alternative**. The construction specifications will contain measures to ensure that the construction procedures for relocations will minimize disruptions to services.

When identifying who will pay for the costs of relocating utilities, it is assumed that all permitted utilities that require relocation or modification within the public right-of-way are at the expense of the utility provider, unless the utility can prove a compensable prior property right or easement. Accordingly, where relocation of existing facilities within the right-of-way is required and the utility can prove a compensable property right or easement, the utility will be reimbursed for the relocation cost. The project shall be responsible to make the utility facility whole for all reimbursable utility relocations.



CLACKAMAS COUNTY
GEOGRAPHIC INFORMATION SYSTEMS

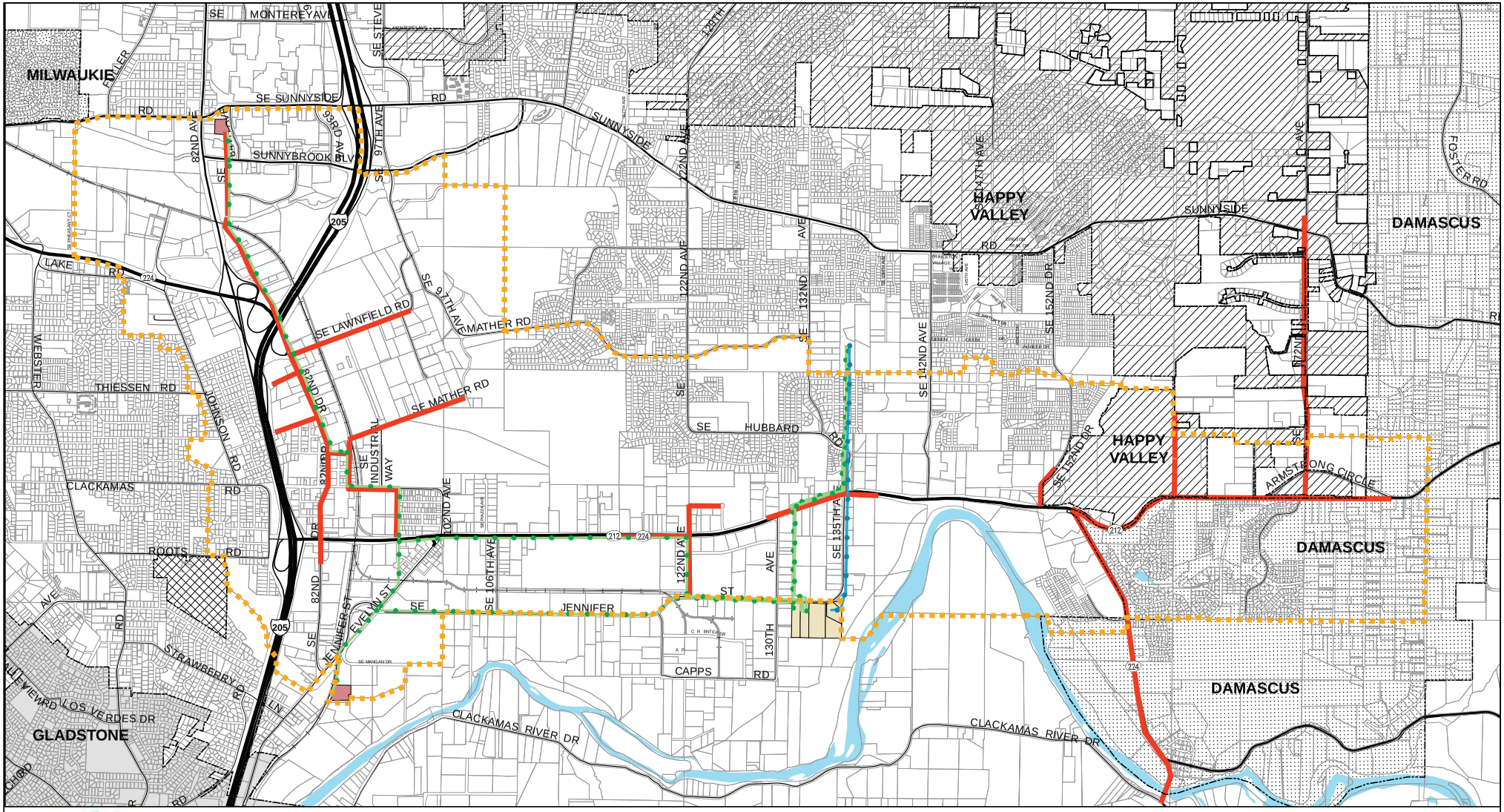
1:24,000

- Land Use Study Area
- Clackamas County Service District I
- Clackamas River Water (CRW)
- Sunrise Water Authority (SWA)
- Potentially Impacted Water Lines
- Potentially Impacted Sewer Lines
- Existing Sewer Lines
- CRW Water Reservoir
- CRW Proposed Reservoir
- SWA Future Water Supply Line
- SWA Pump Station
- SWA Future Pumping Station
- SWA Future Water Treatment Facility
- SWA Future Wells

Figure 58

Sewer and Water Systems

Sunrise Project, I-205 to Rock Creek Junction



CLACKAMAS COUNTY
GEOGRAPHIC INFORMATION SYSTEMS

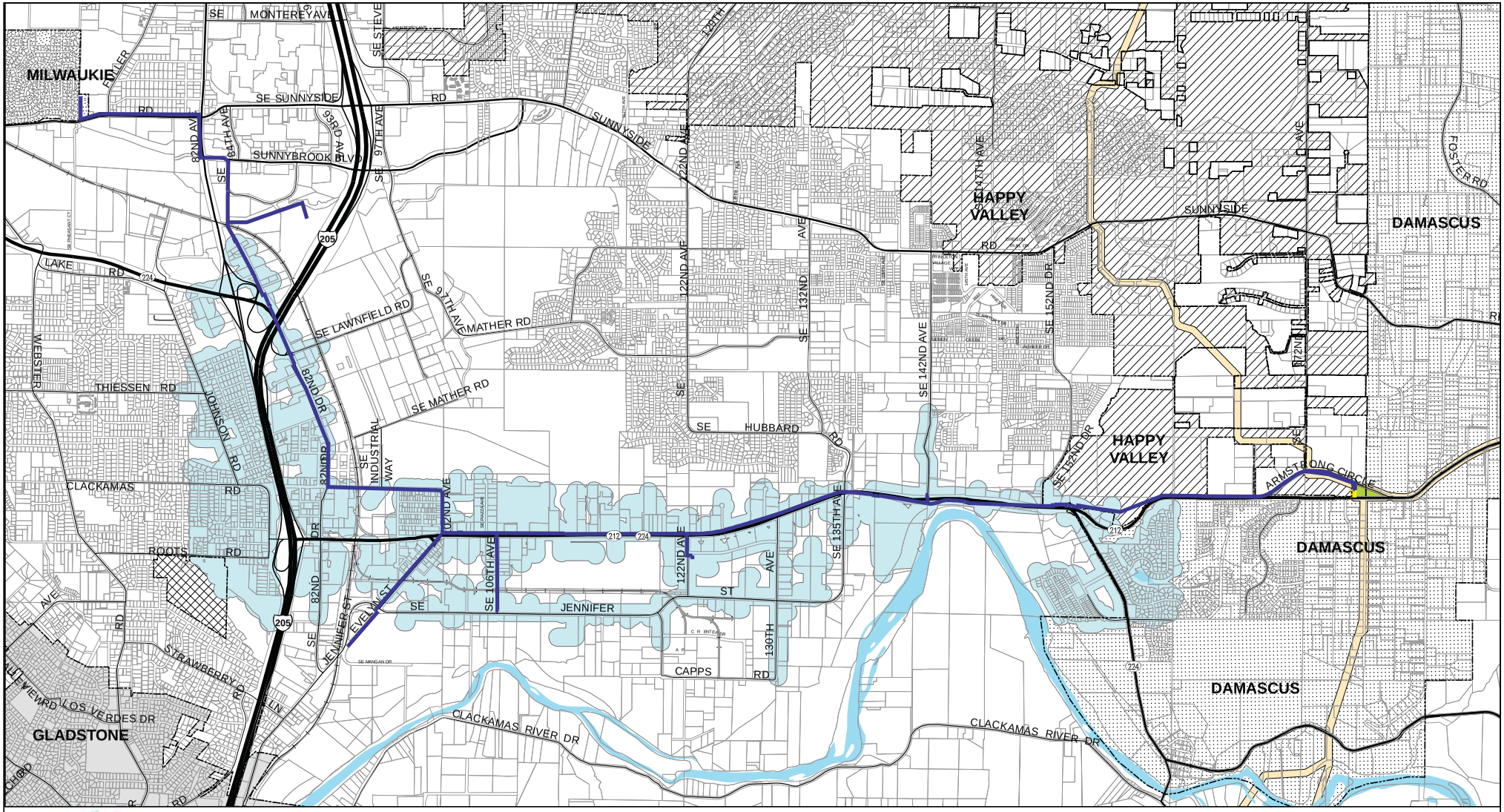
1:24,000

Land Use Study Area
Distribution Line Impacts
115 KW Mainline
230 KW Mainline
Carver Substation
PGE Substations

Figure 59

Major Electric Power System
Portland General Electric

Sunrise Project, I-205 to Rock Creek Junction



CLACKAMAS COUNTY
GEOGRAPHIC INFORMATION SYSTEMS

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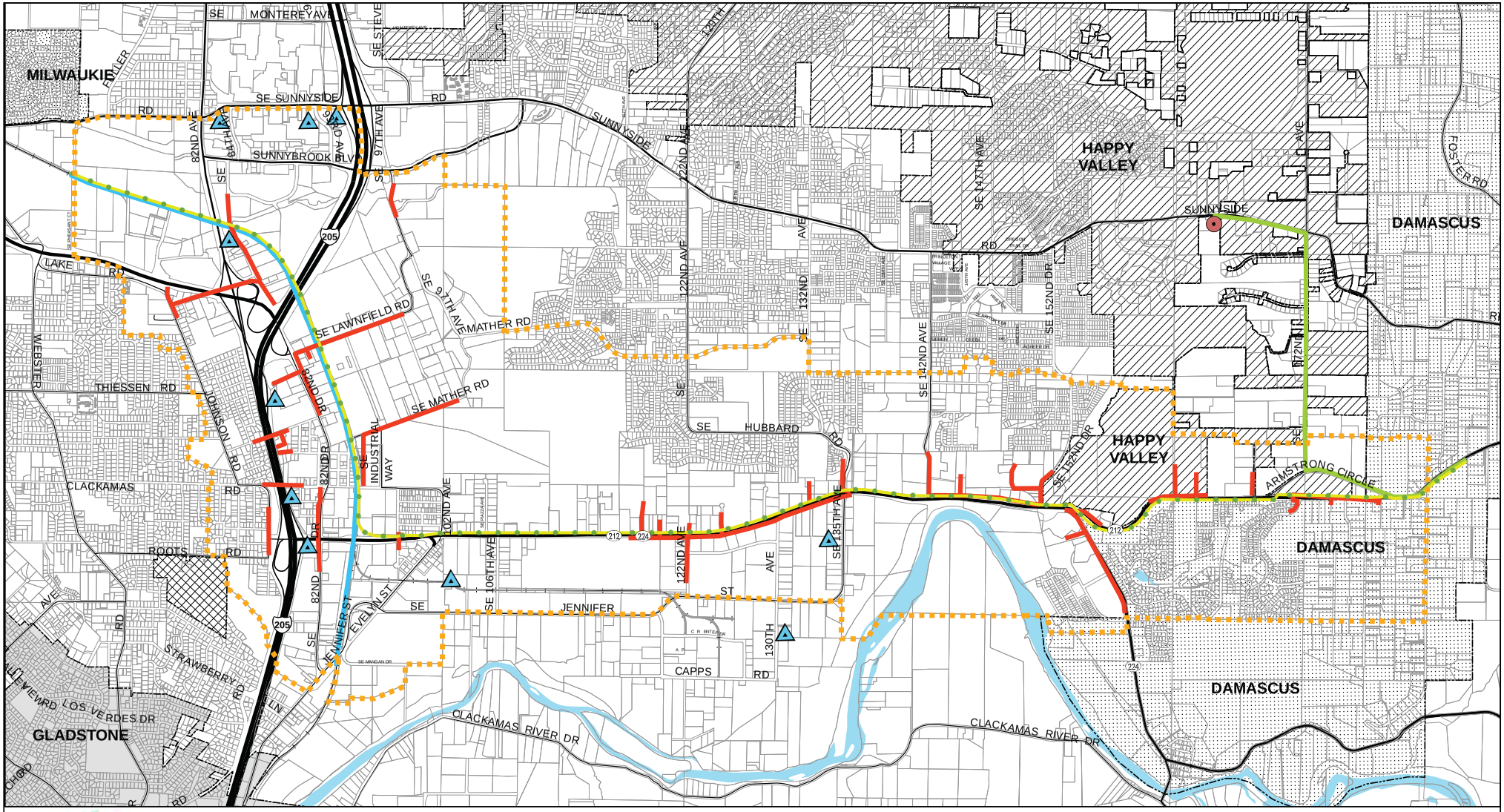
Land Use Study Area
NW Natural Distribution
Williams Pipeline Distribution
Williams Pipeline
Local Gas Service Area
NW Natural Transmission Lines

Figure 60

Natural Gas Service

Sunrise Project, I-205 to Rock Creek Junction



CLACKAMAS COUNTY
GEOGRAPHIC INFORMATION SYSTEMS

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Land Use Study Area
Telecom and Cable TV Impacts
Level 3 to Sacramento
Level 3 to Boise
Verizon Fiber Optic Cable
Verizon Switching Station
Cell Towers

Figure 61

Telecommunications and Cable Lines

Sunrise Project, I-205 to Rock Creek Junction