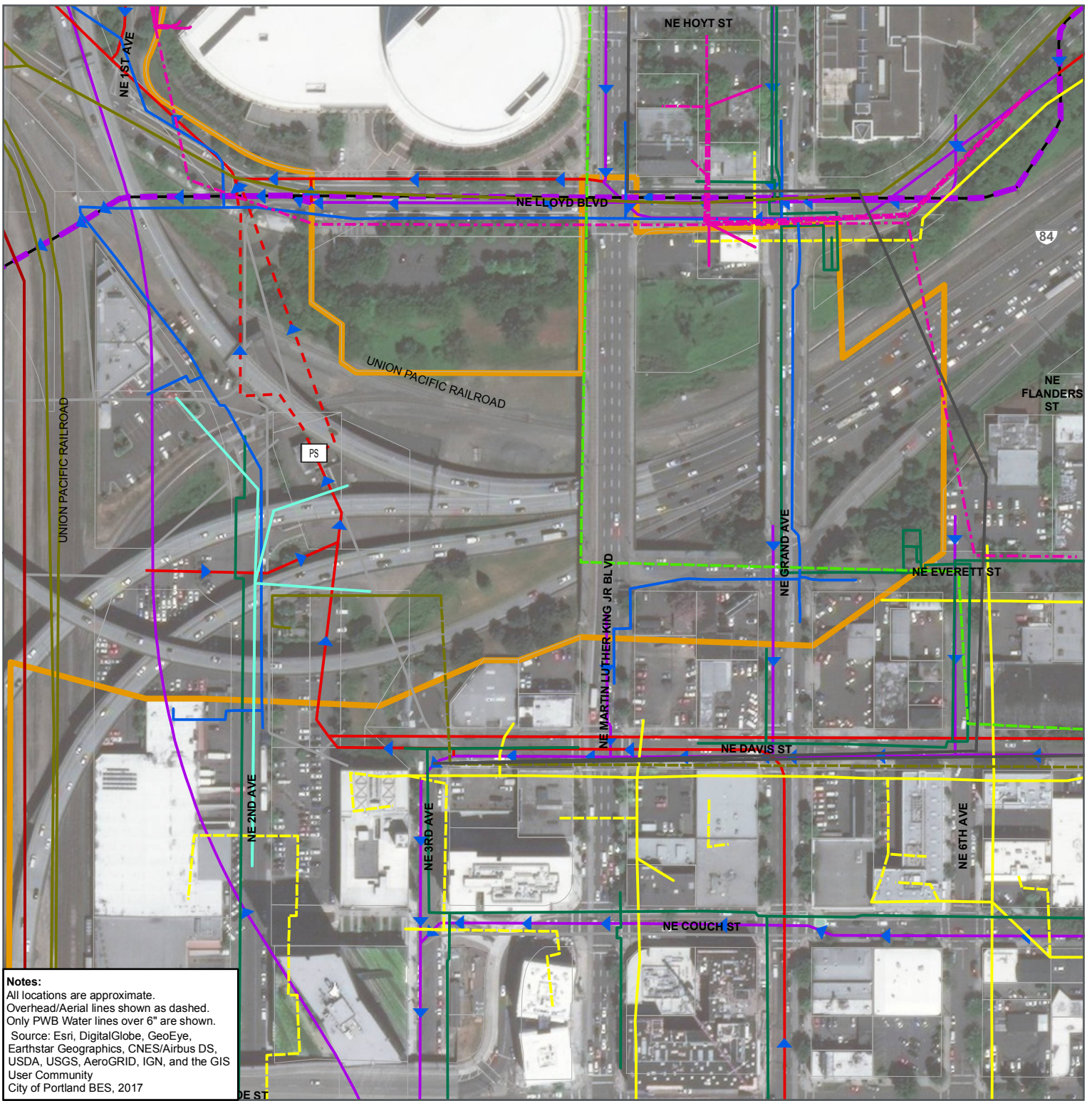




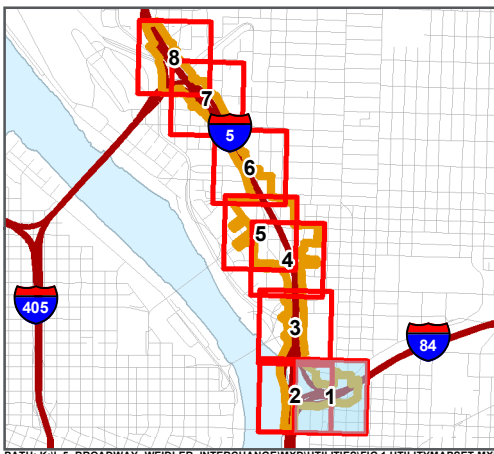
Appendix A. Utility Figures



Figure descriptions for the images in this appendix have been provided as alternative text usable by accessibility software. If needed, additional figure interpretation for this appendix is available from the ODOT Senior Environmental Project Manager at (503) 731-4804.



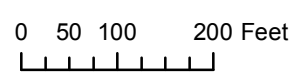
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

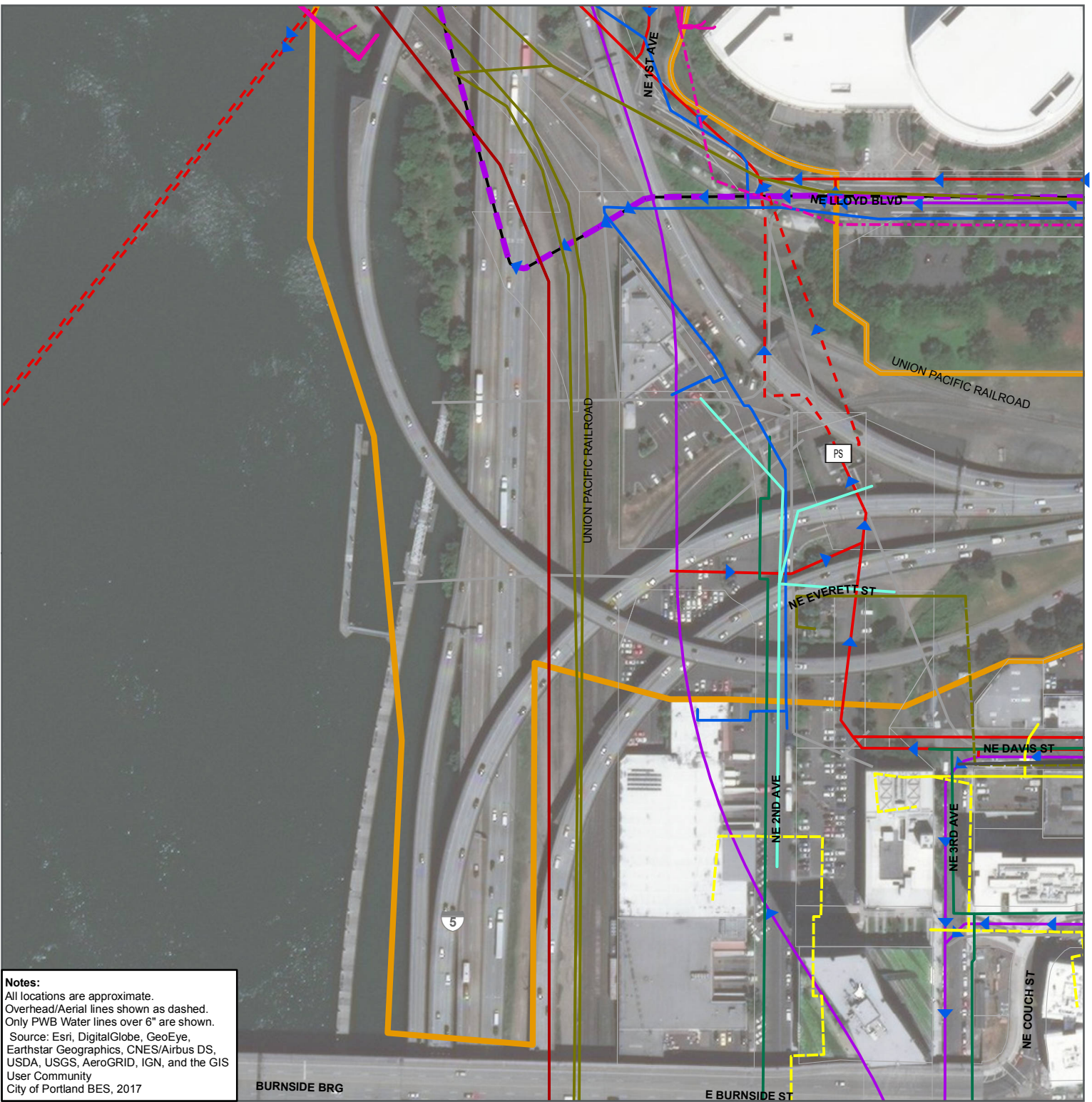


- Comcast Route
- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- PS Sewer Nodes
- ➔ Combined Gravity Main
- ➔ Sanitary Gravity Main
- ➔ Sanitary Pressure Main
- ➔ Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- Taxlots

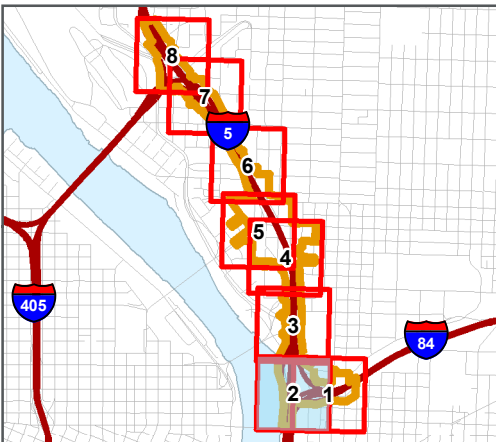
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 1





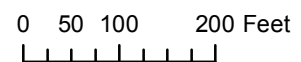
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

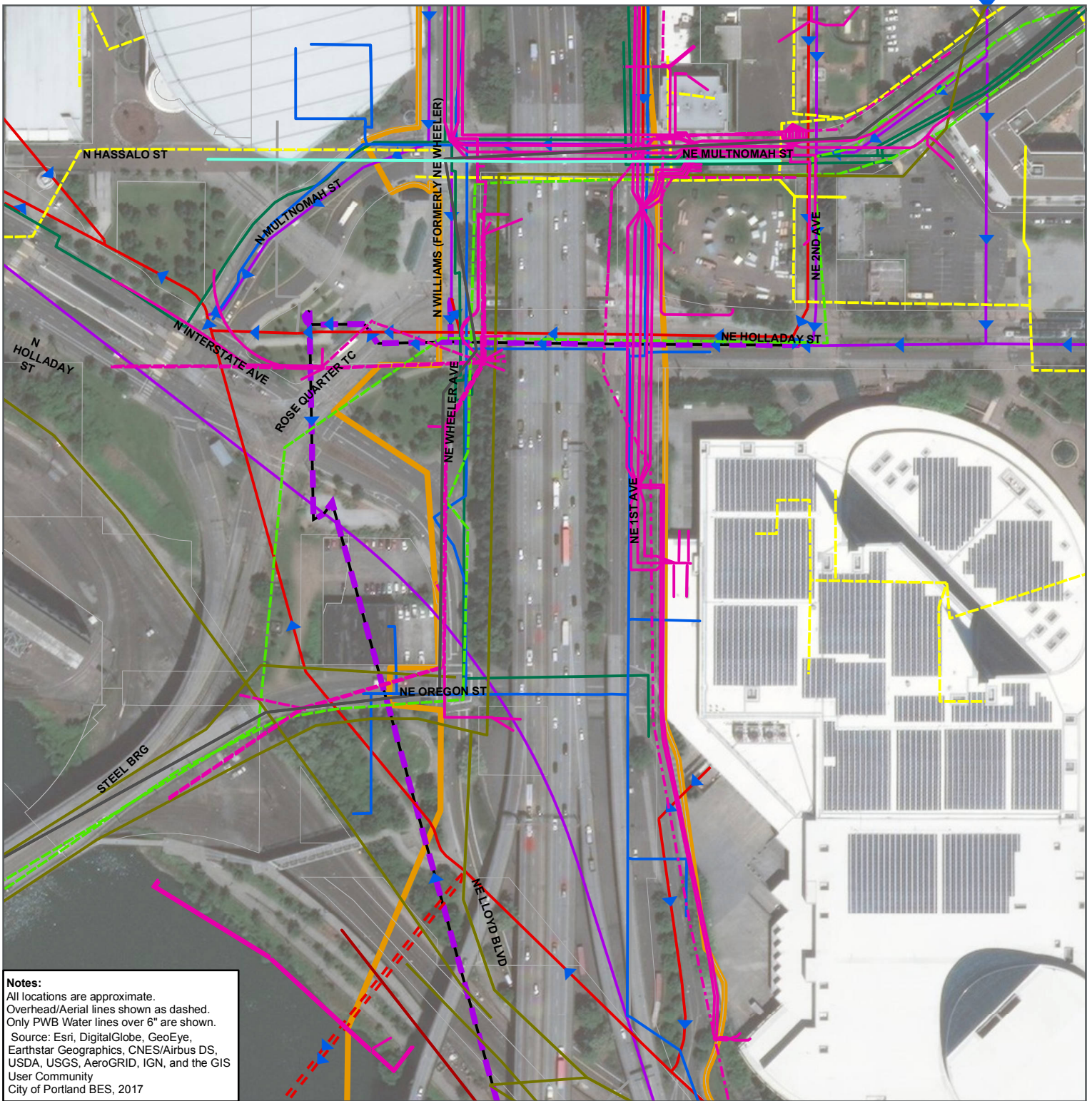


- Comcast Route
- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- PS Sewer Nodes
- Combined Gravity Main
- Sanitary Gravity Main
- Sanitary Pressure Main
- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- Taxlots

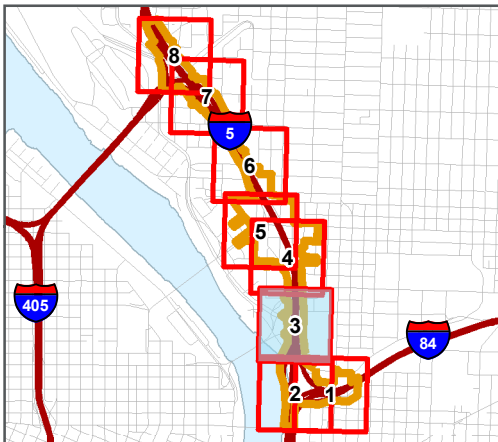
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 2





Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

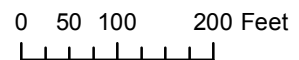


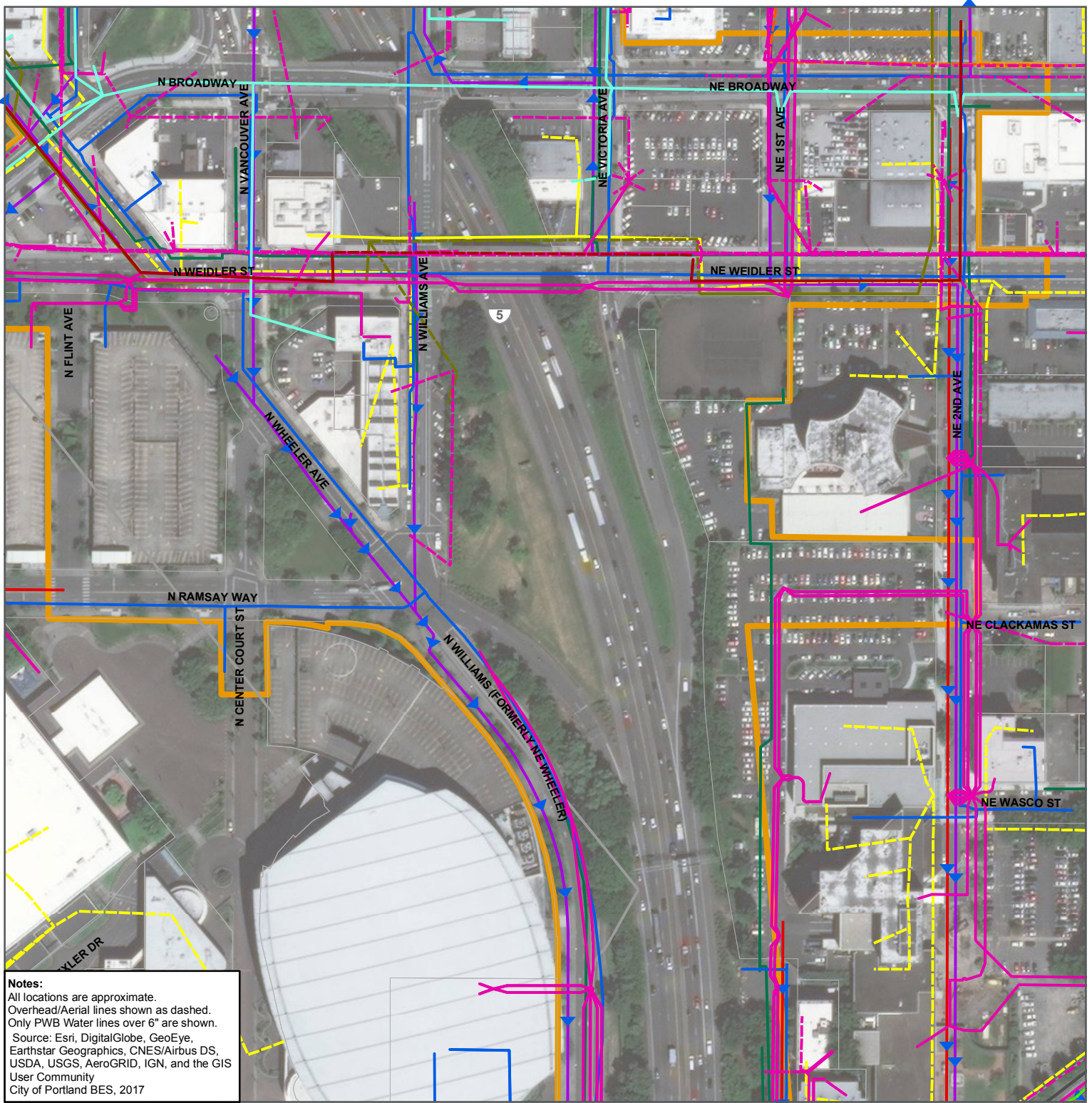
- Comcast Route
- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- Combined Gravity Main
- Sanitary Gravity Main
- Sanitary Pressure Main
- Combined Sewer Overflow Main
- Abandoned Main

- Project Area
- Taxlots

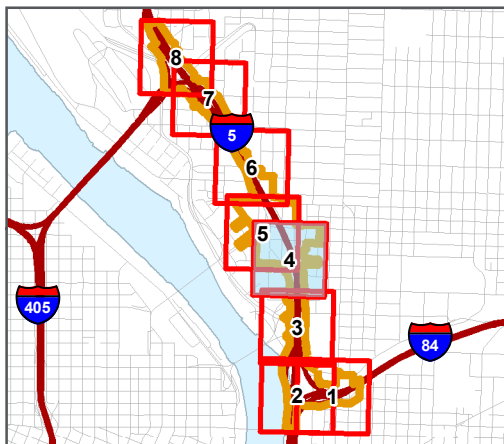
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 3





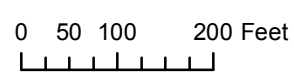
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

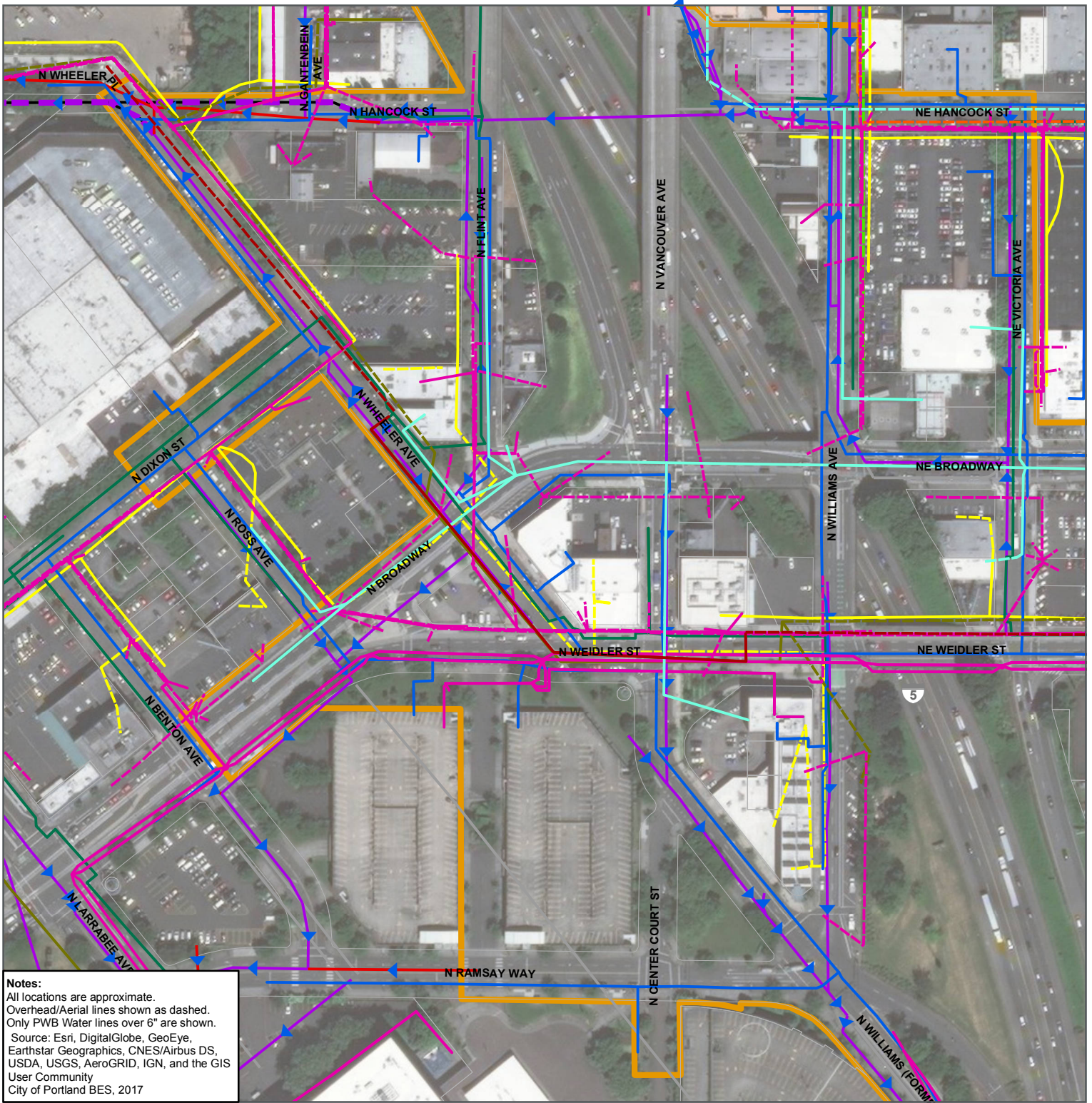


- Comcast Route
- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- Combined Gravity Main
- Sanitary Gravity Main
- Abandoned Main
- Project Area
- Taxlots

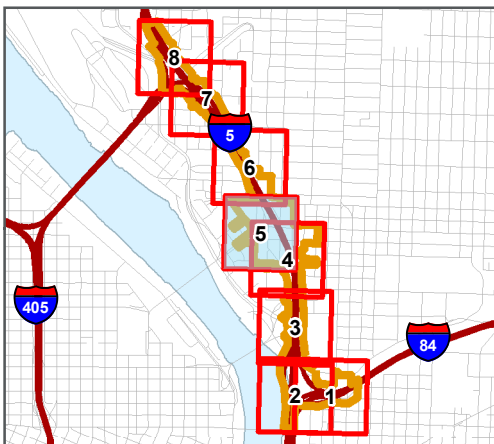
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 4





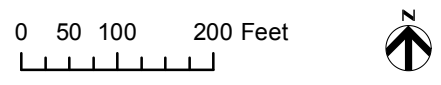
Notes:
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 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

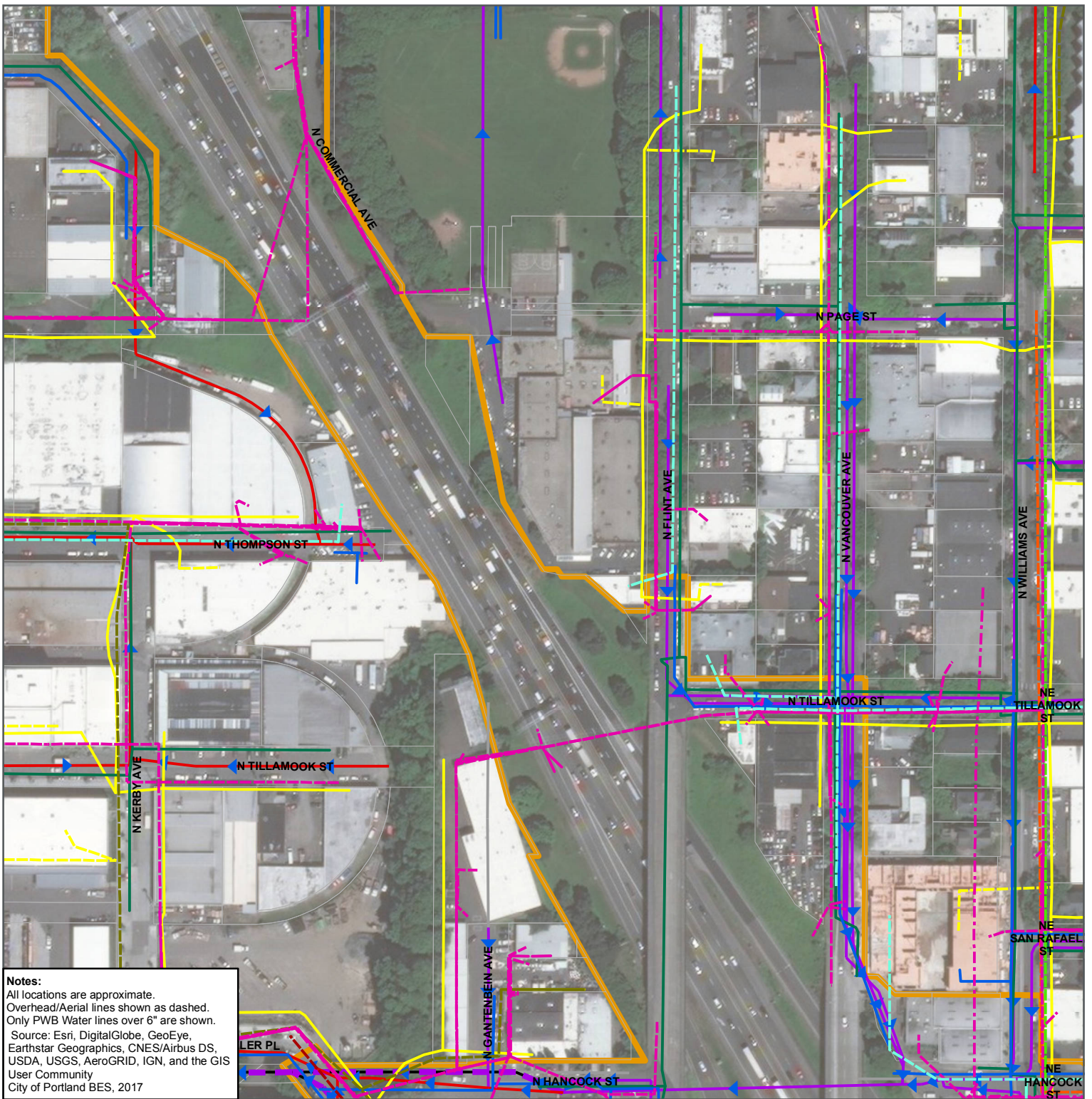


- Comcast Route
- CenturyLink Local Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- Combined Gravity Main
- Sanitary Gravity Main
- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- Taxlots

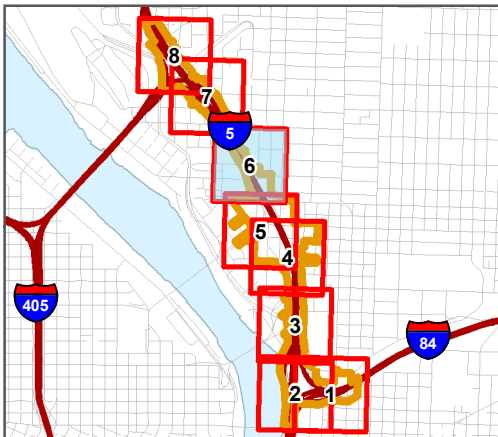
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 5





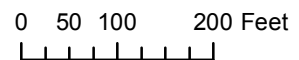
Notes:
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 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

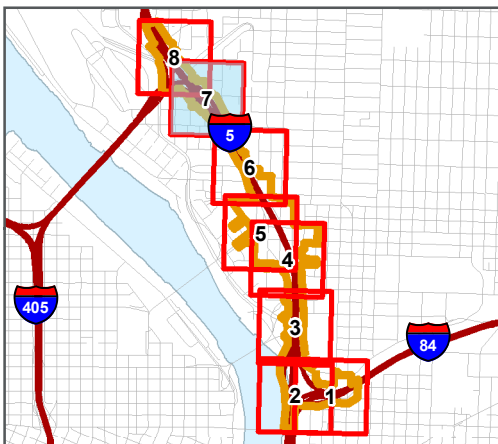
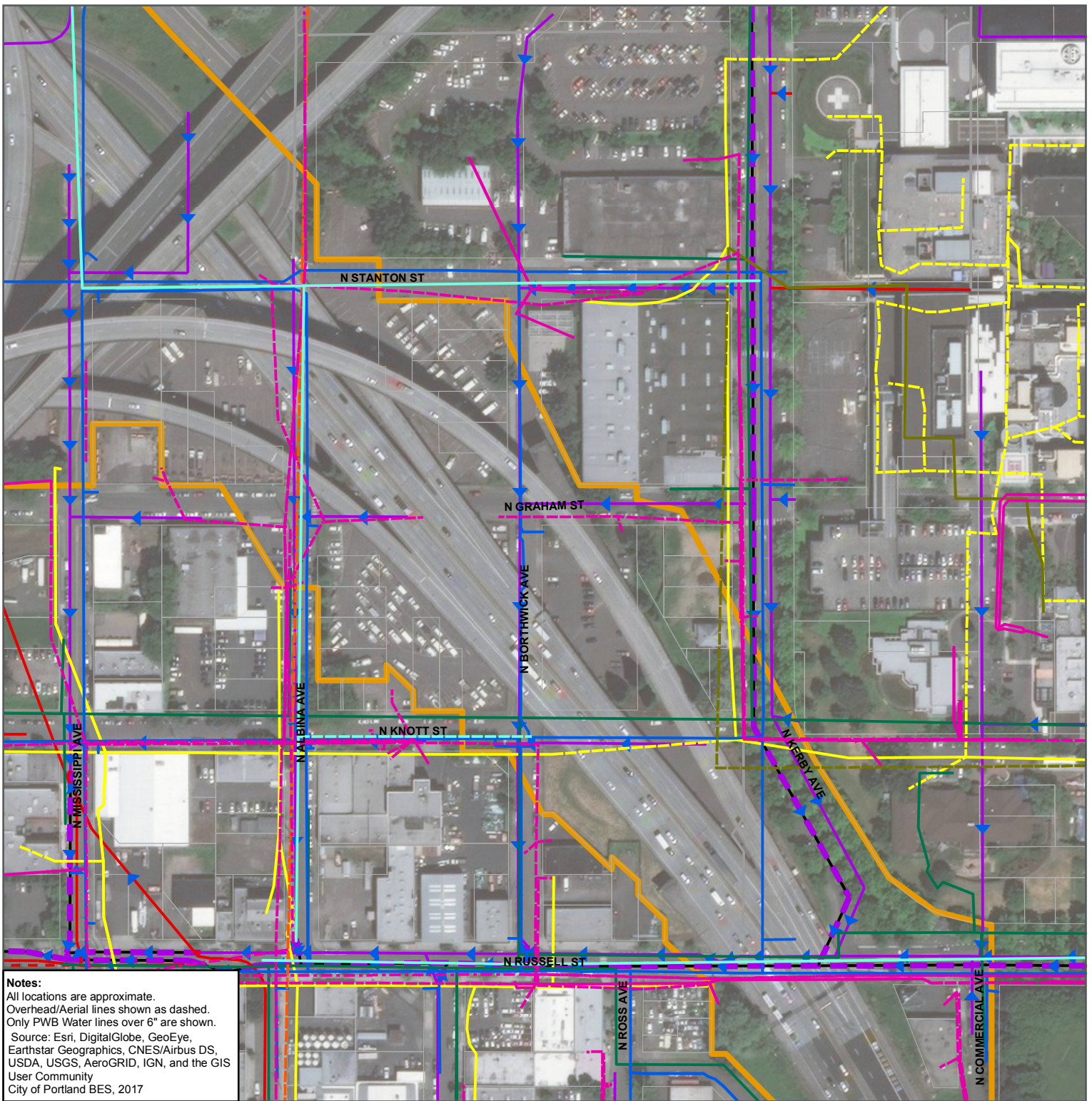


- Comcast Route
- CenturyLink Local Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- ▶ Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- Taxlots

ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 6





- Comcast Route
- CenturyLink Local Line
- Level 3 Line
- NW Natural Gas Line
- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- ▶ Sanitary Pressure Main
- ▶ Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- Taxlots

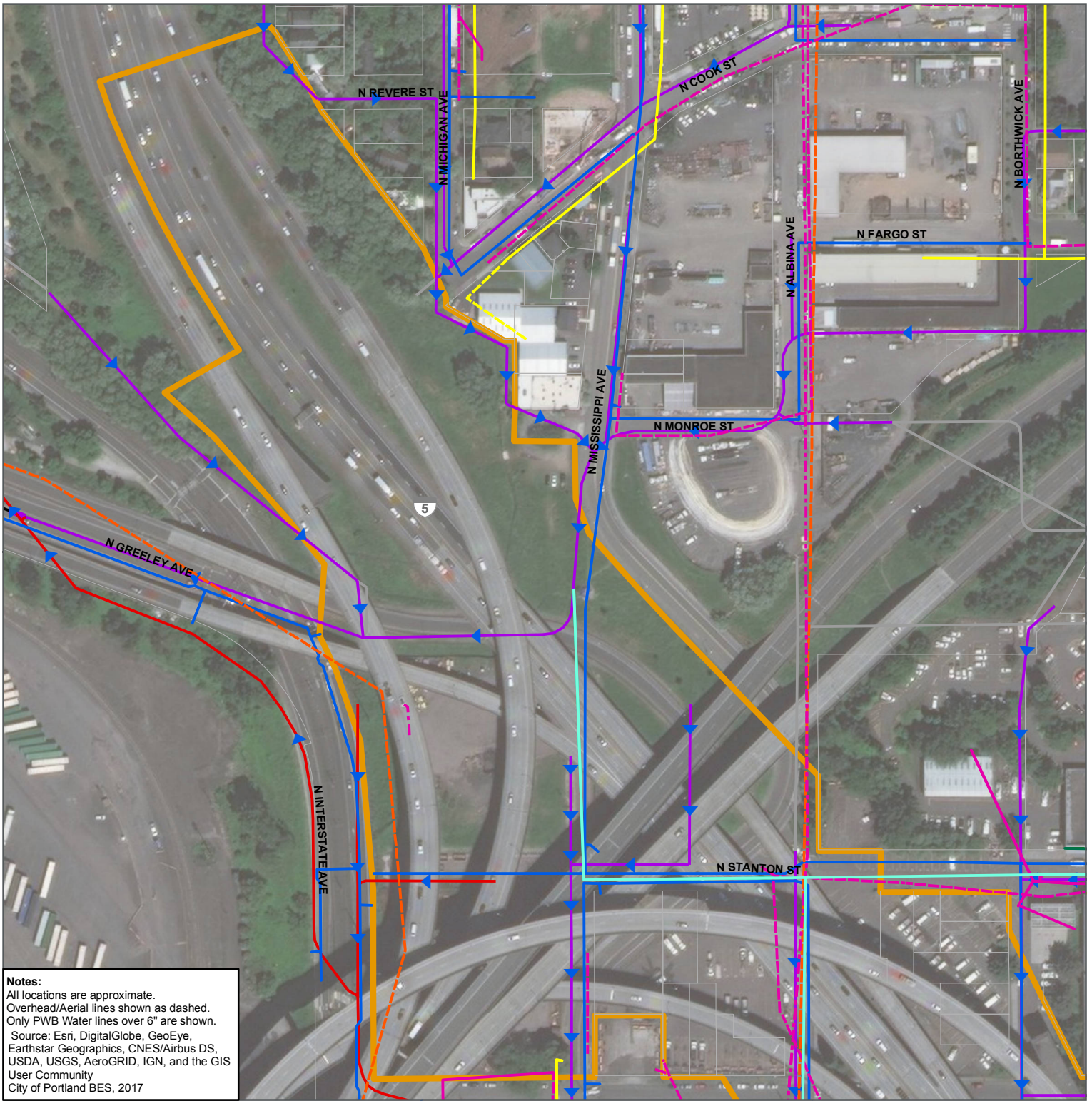
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 7

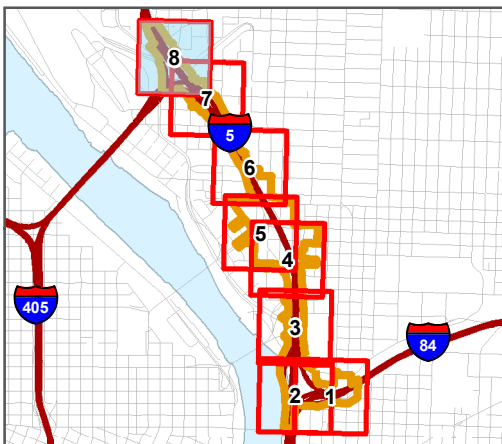


0 50 100 200 Feet





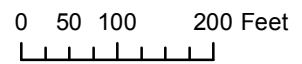
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

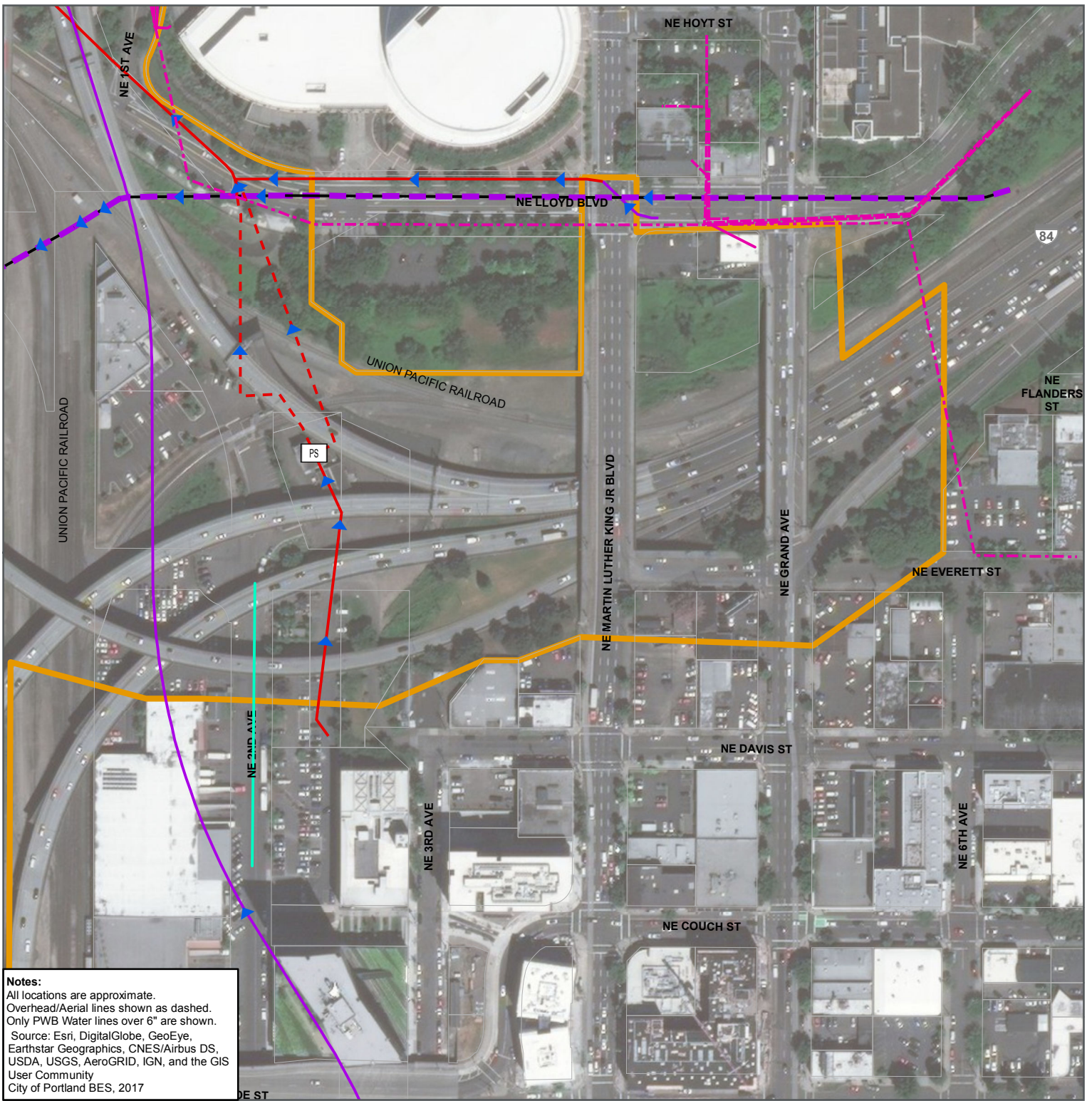


- Comcast Route
 - CenturyLink Local Line
 - NW Natural Gas Line
 - PGE Line
 - PWB Water Distribution Line
 - PacifiCorp Line
 - ▶ Combined Gravity Main
 - ▶ Sanitary Gravity Main
 - ▶ Combined Sewer Overflow Main
 - Abandoned Main
- Project Area
 - Taxlots

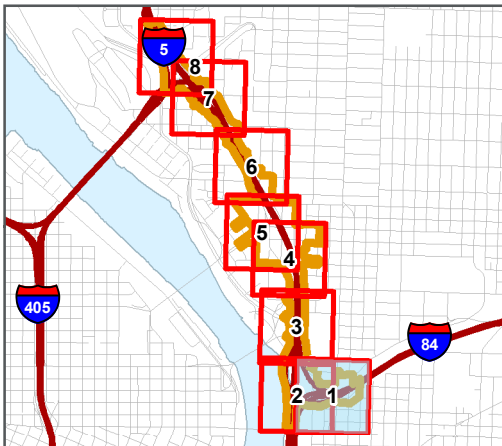
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES

FIGURE 1 - 8





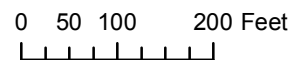
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

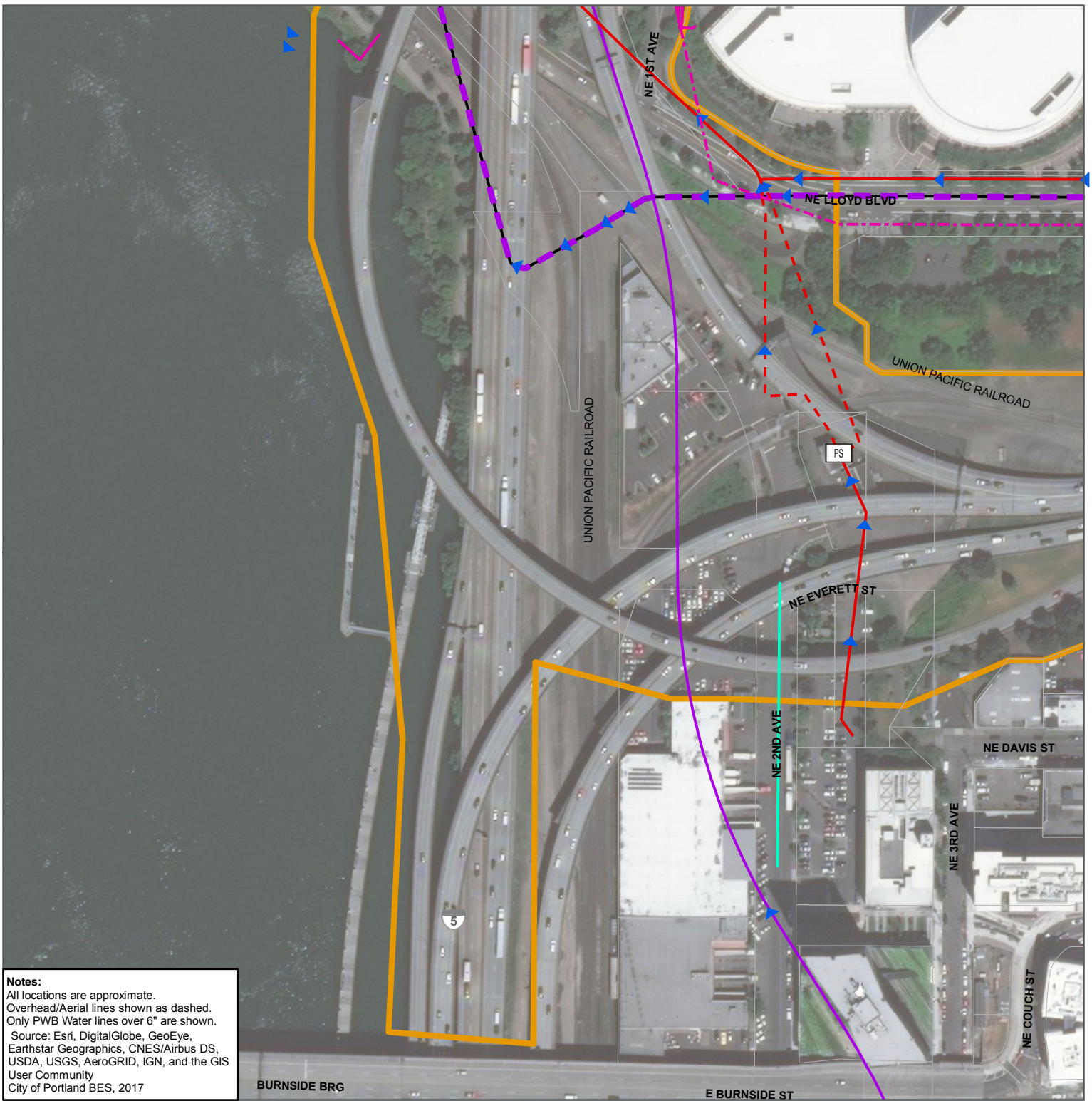


- CenturyLink Local Line
- PacifiCorp Line
- PS Sewer Nodes
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- -▶ Sanitary Pressure Main
- ▲ Combined Sewer Overflow Main
- Project Area
- Taxlots

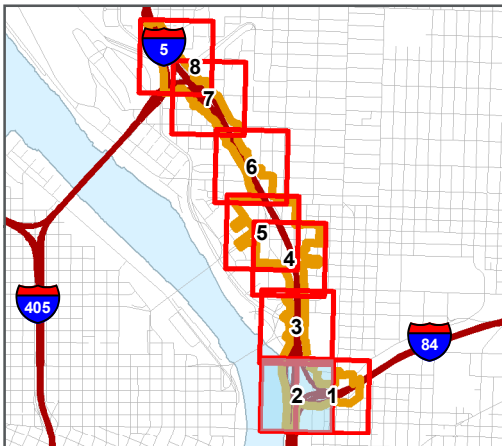
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 1





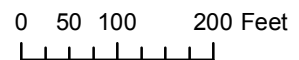
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

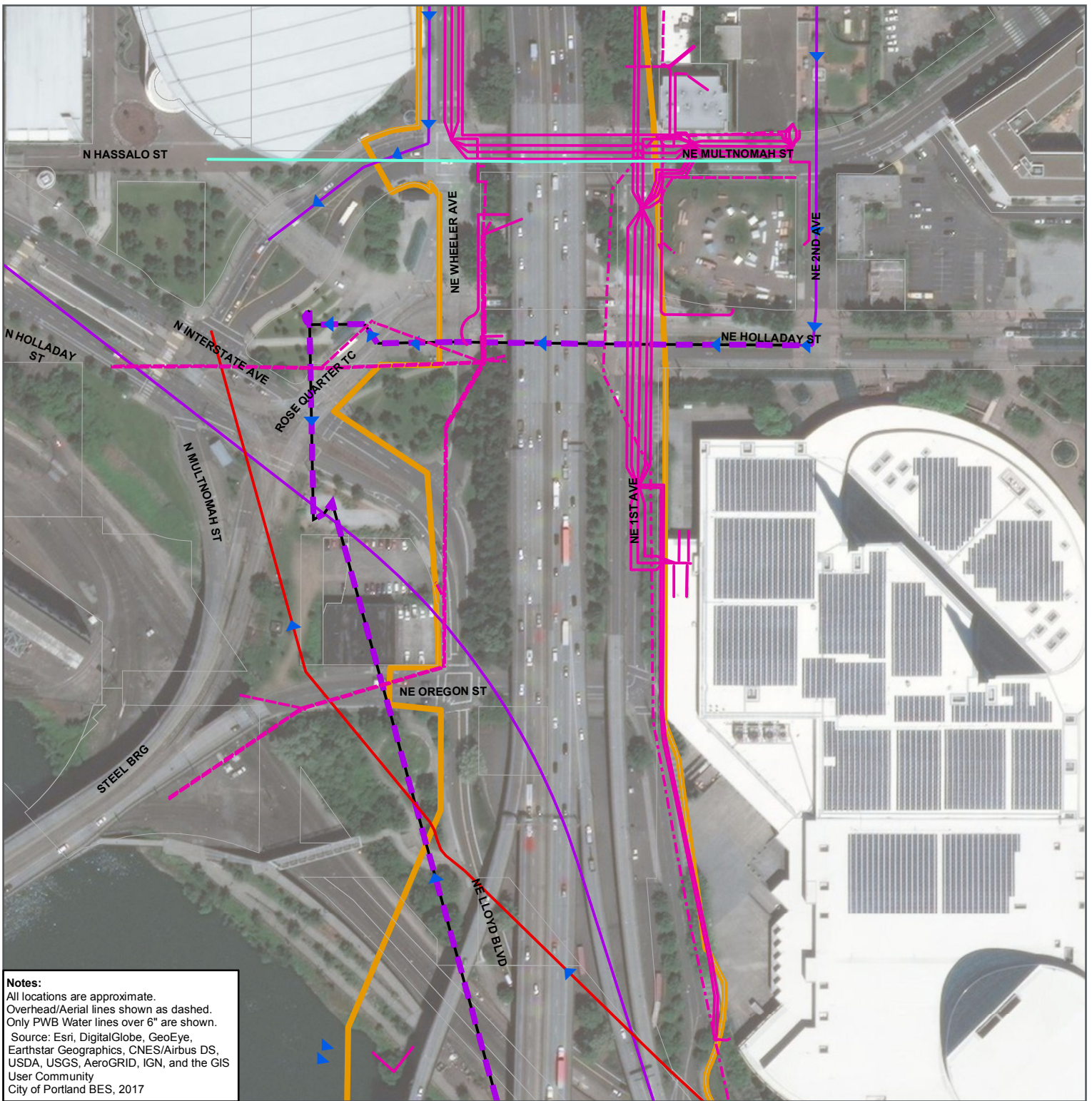


- CenturyLink Local Line
- PacifiCorp Line
- PS Sewer Nodes
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- ▶ Sanitary Pressure Main
- ▶ Combined Sewer Overflow Main
- Project Area
- Taxlots

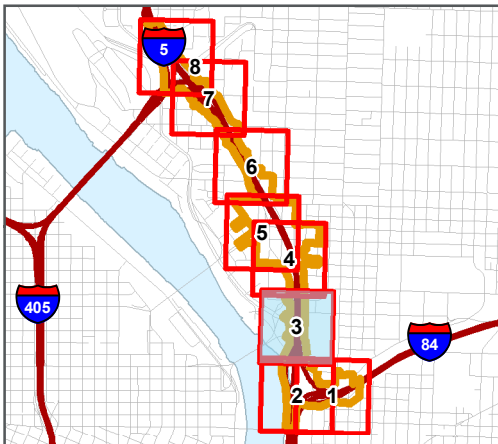
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 2





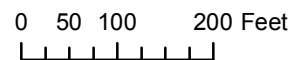
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

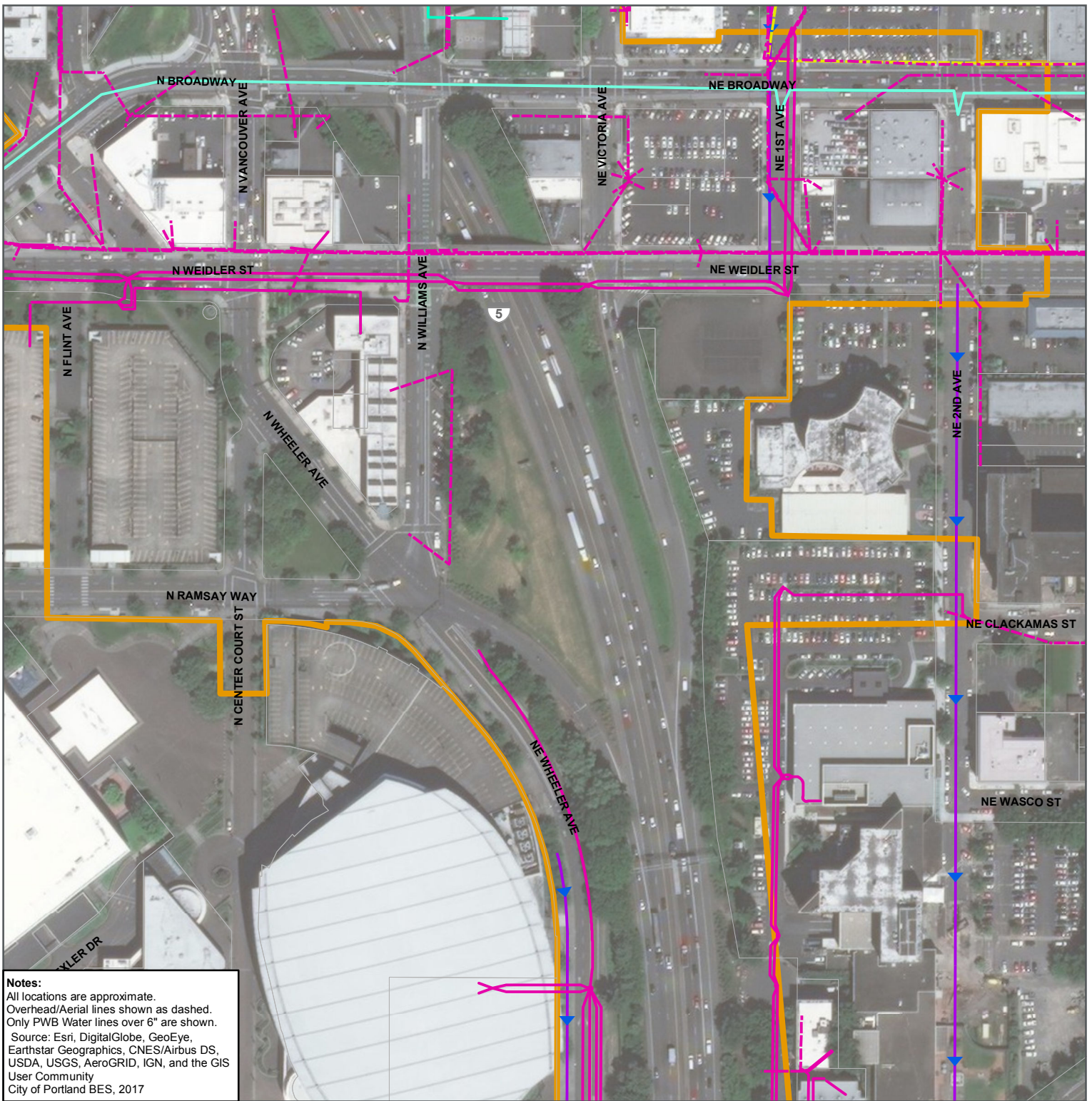


- CenturyLink Local Line
- PacifiCorp Line
- Combined Gravity Main
- Sanitary Gravity Main
- Combined Sewer Overflow Main
- Project Area
- Taxlots

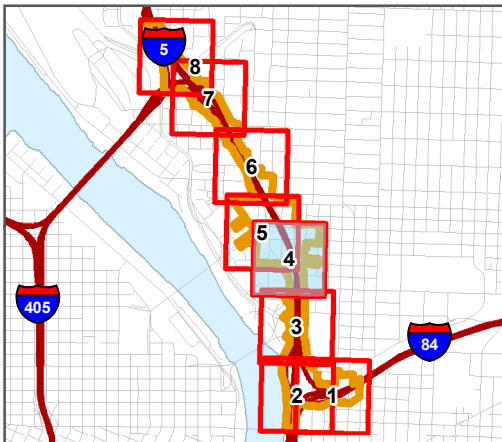
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 3





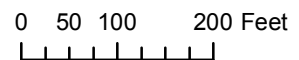
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye,
 Earthstar Geographics, CNES/Airbus DS,
 USDA, USGS, AeroGRID, IGN, and the GIS
 User Community
 City of Portland BES, 2017

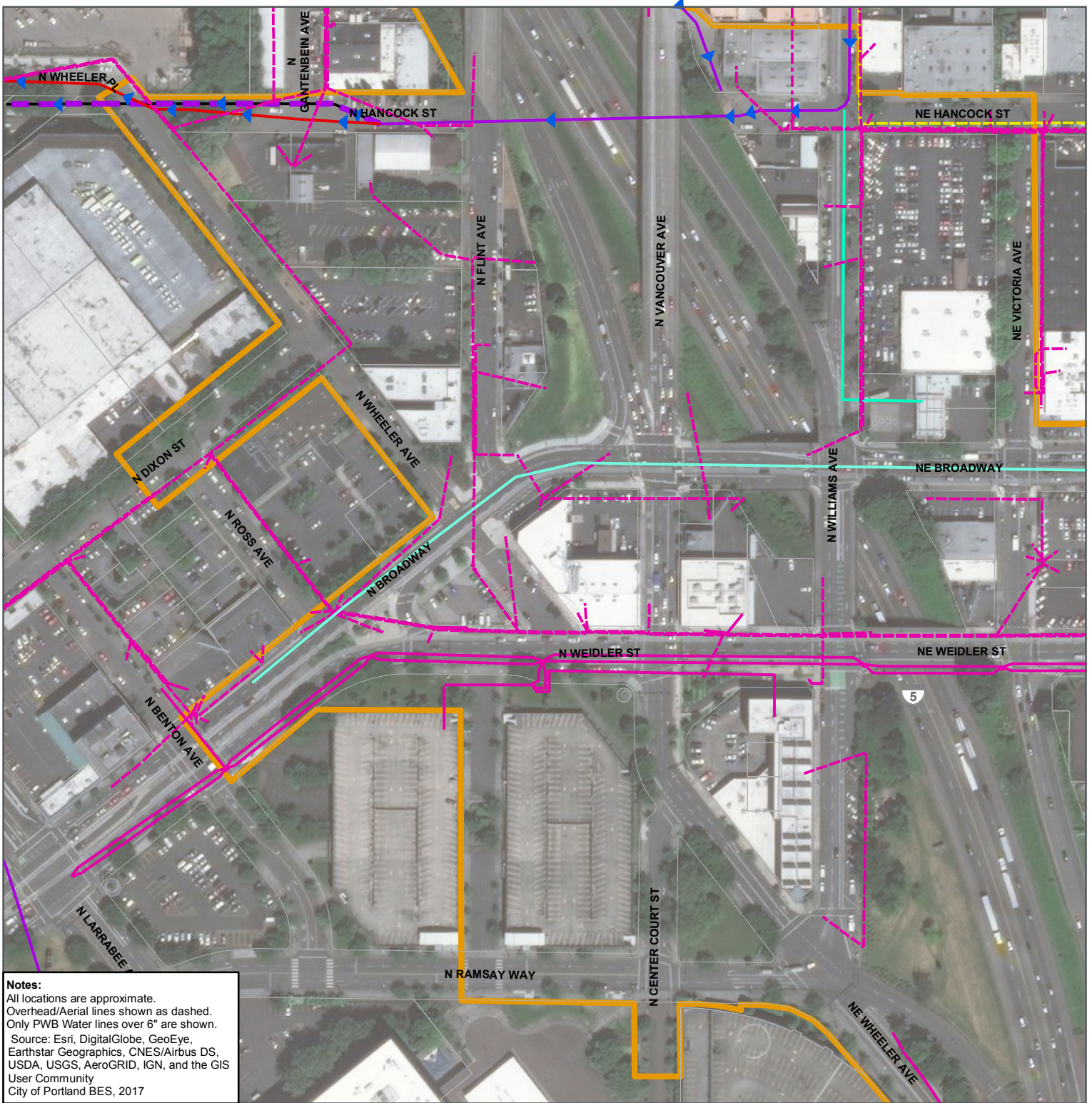


- CenturyLink Local Line
- PGE Line
- PacifiCorp Line
- Combined Gravity Main
- Project Area
- Taxlots

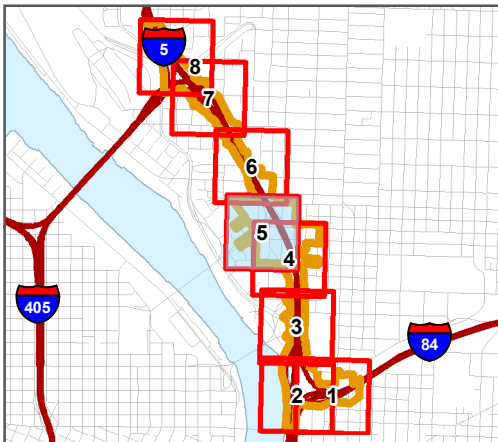
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 4





Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017



- CenturyLink Local Line
- PGE Line
- PacifiCorp Line
- Combined Gravity Main
- Sanitary Gravity Main
- Combined Sewer Overflow Main
- Project Area
- Taxlots

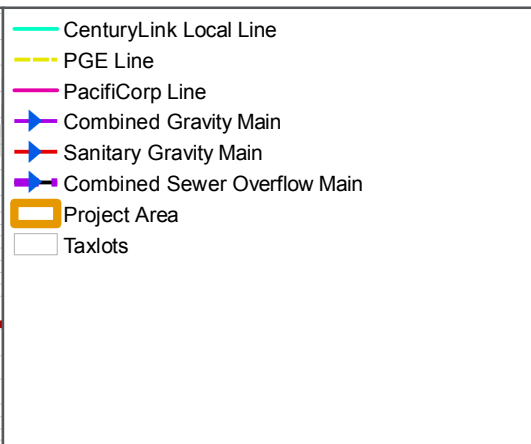
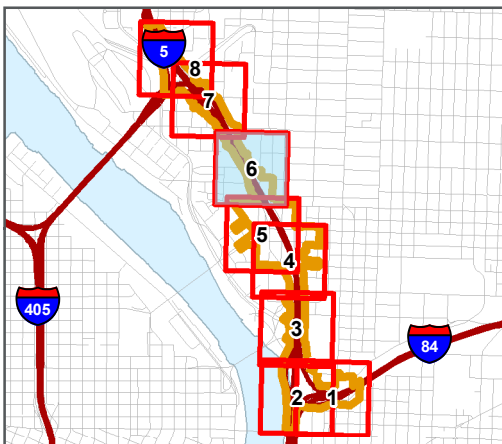
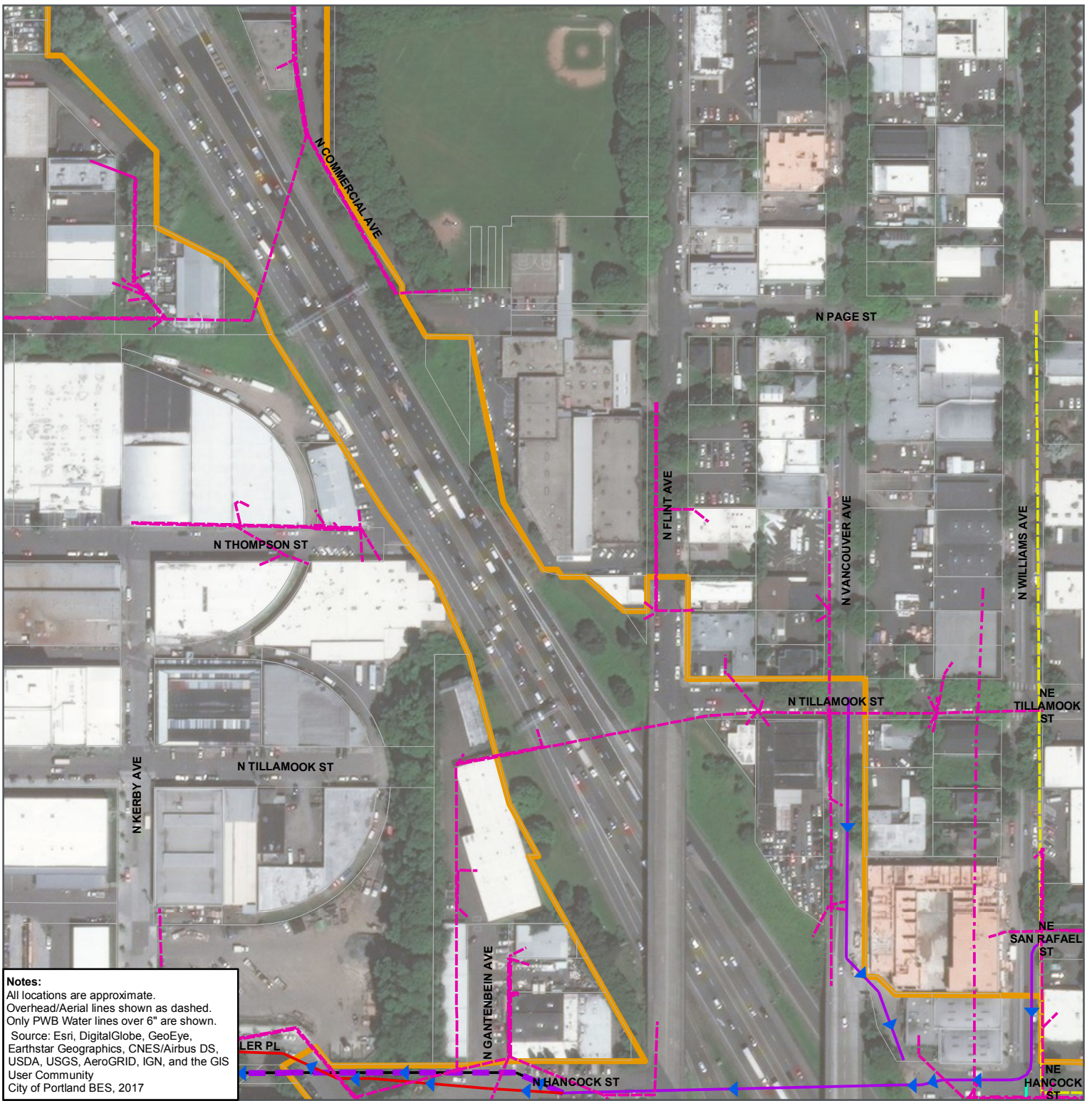
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 5



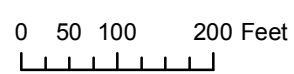
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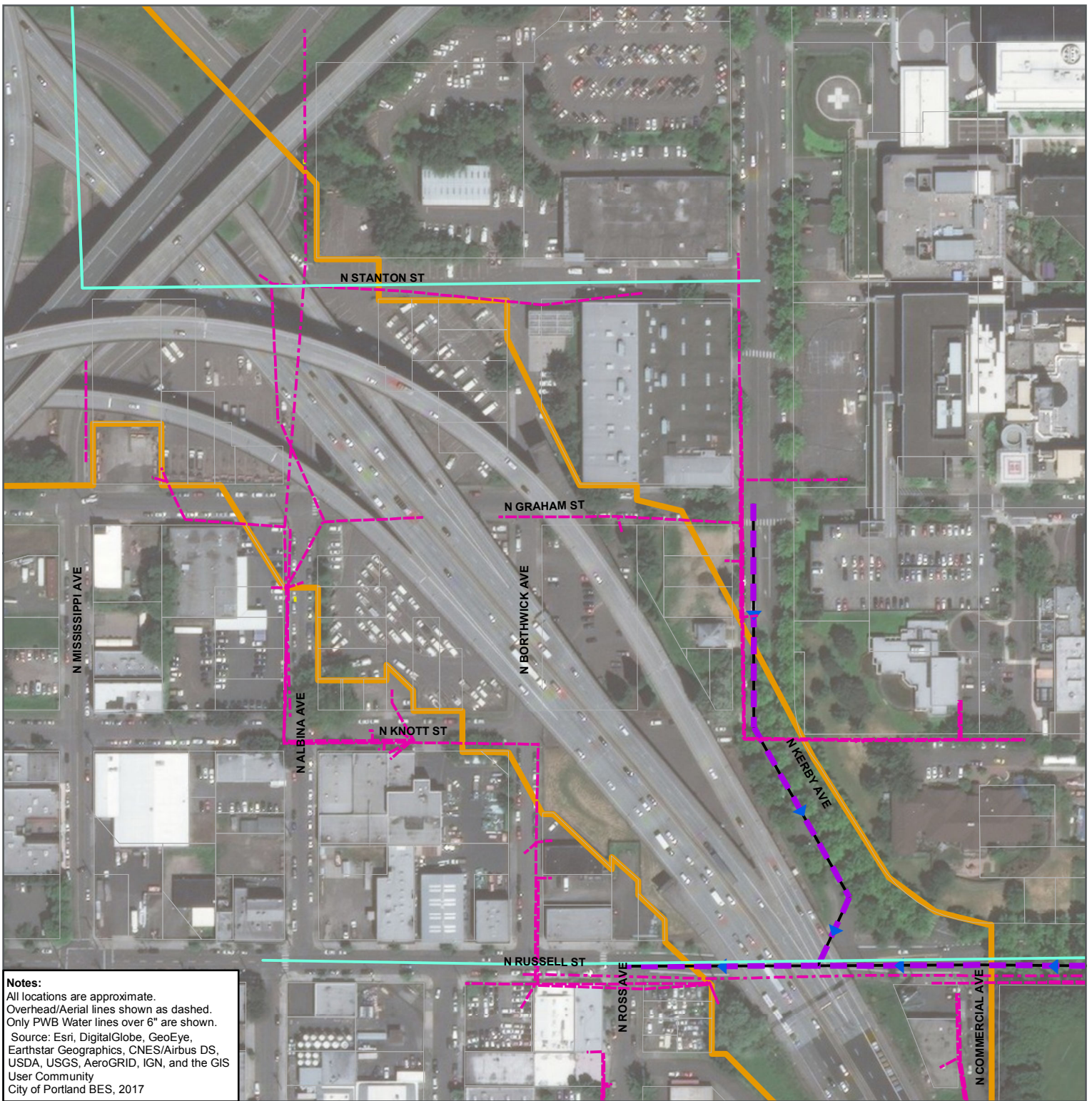




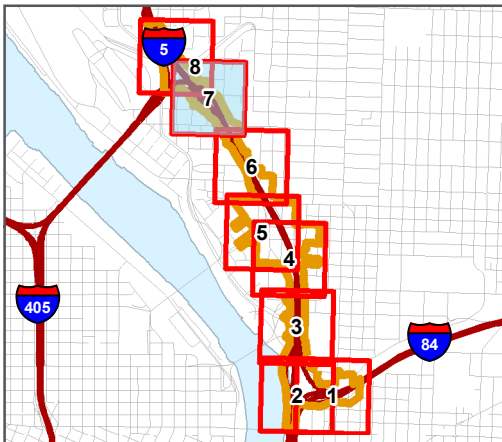
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 6





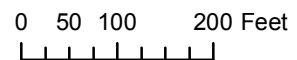
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye,
 Earthstar Geographics, CNES/Airbus DS,
 USDA, USGS, AeroGRID, IGN, and the GIS
 User Community
 City of Portland BES, 2017

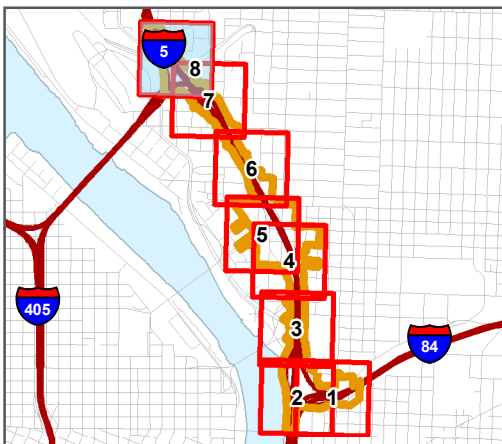
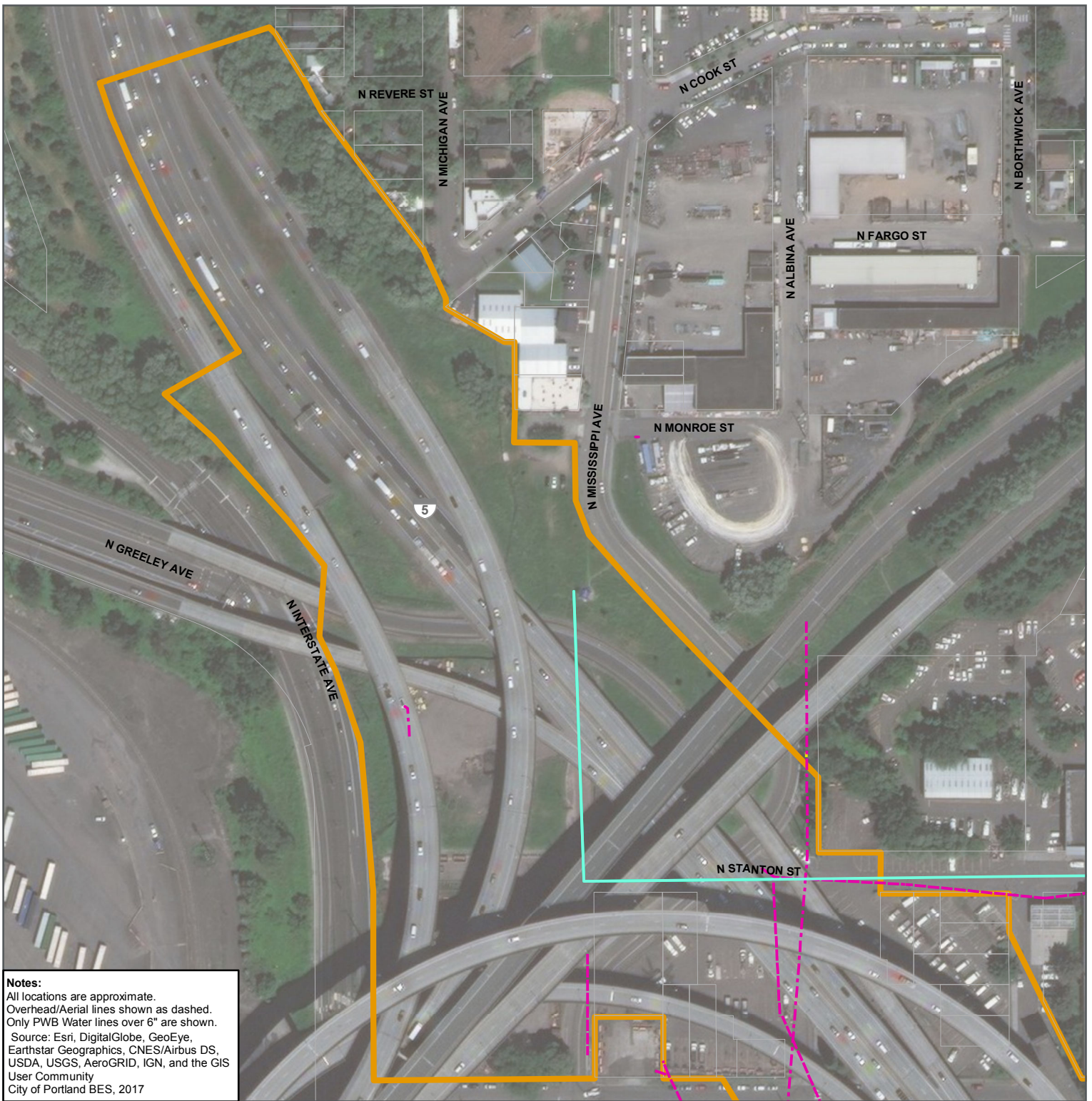


- CenturyLink Local Line
- PGE Line
- PacifiCorp Line
- Combined Sewer Overflow Main
- Project Area
- Taxlots

ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 7

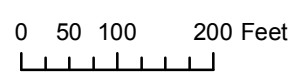


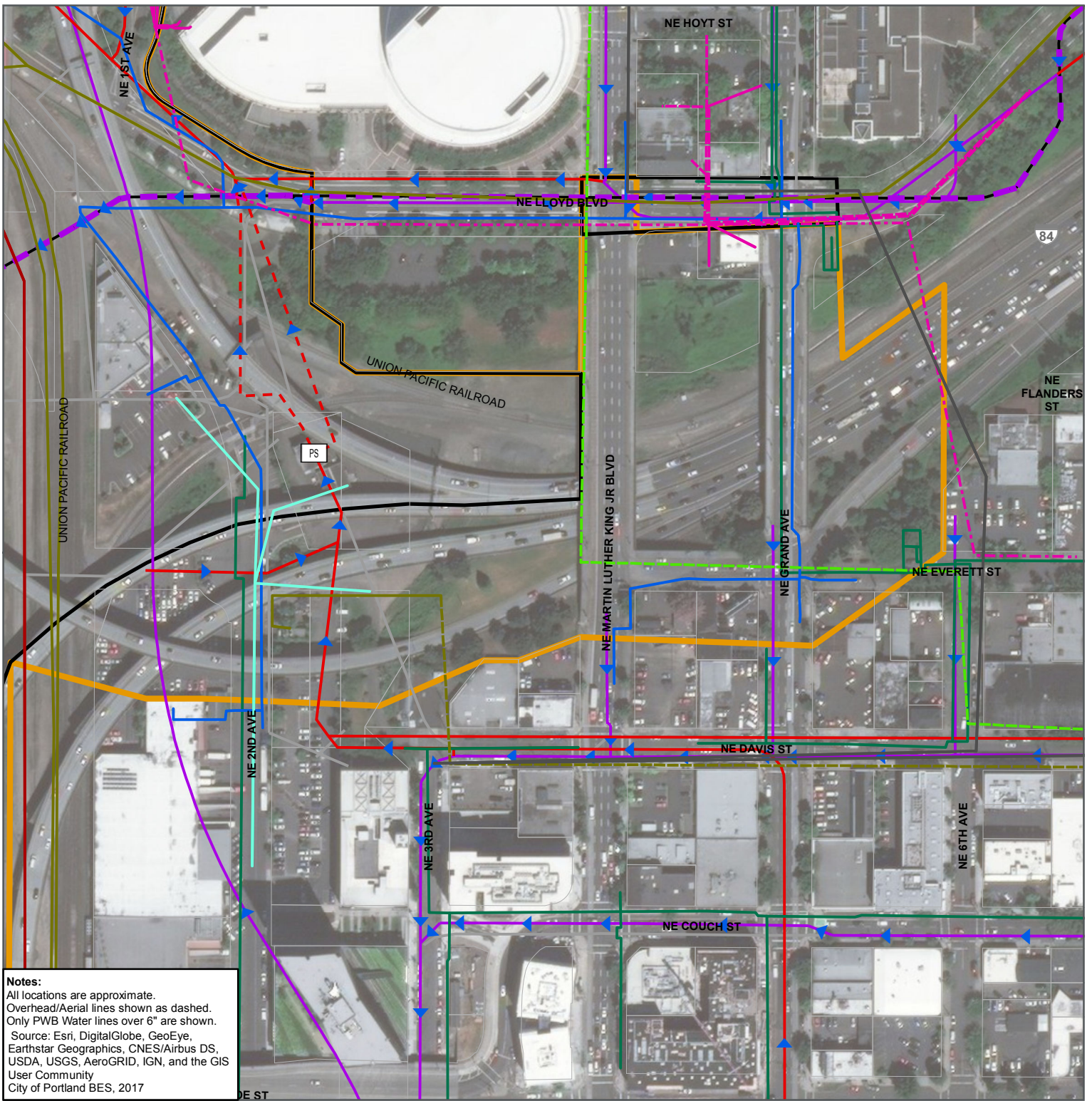


- CenturyLink Local Line
- PGE Line
- PacifiCorp Line
- Project Area
- Taxlots

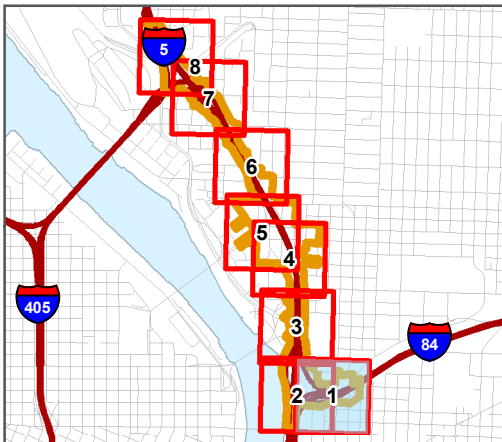
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT MAJOR UTILITIES

FIGURE 2 - 8





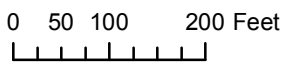
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

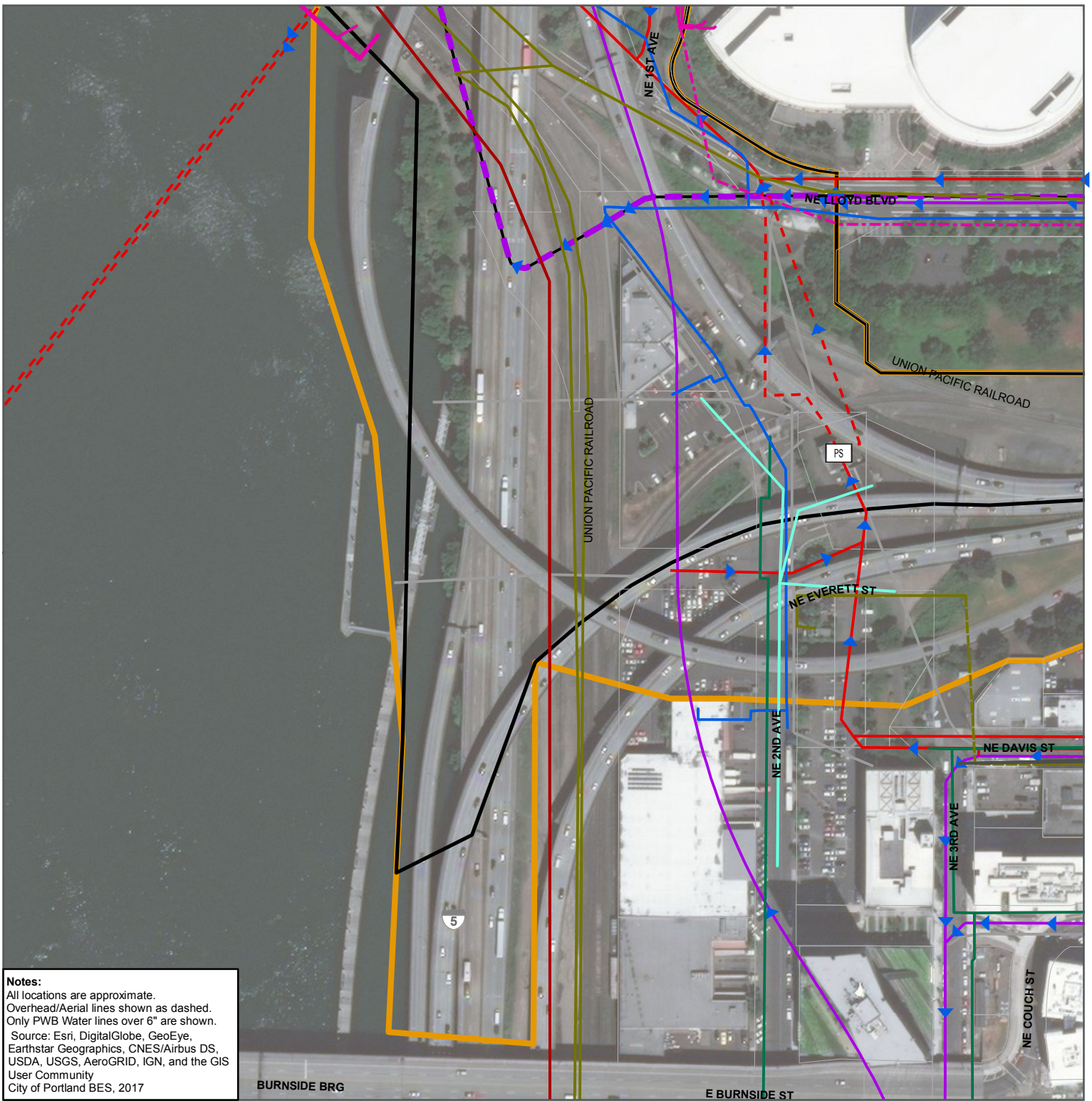


- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- PS Sewer Nodes
- Combined Gravity Main
- Sanitary Gravity Main
- - - Sanitary Pressure Main
- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary
- Taxlots

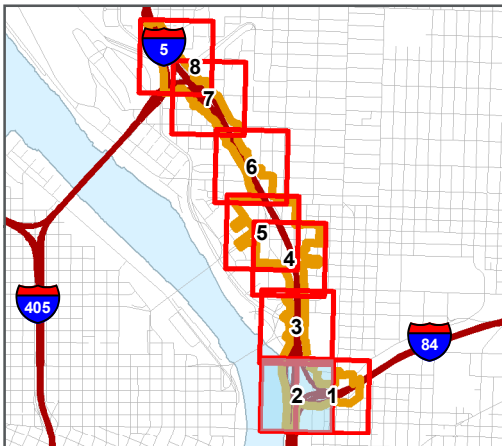
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 1





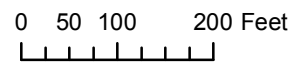
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

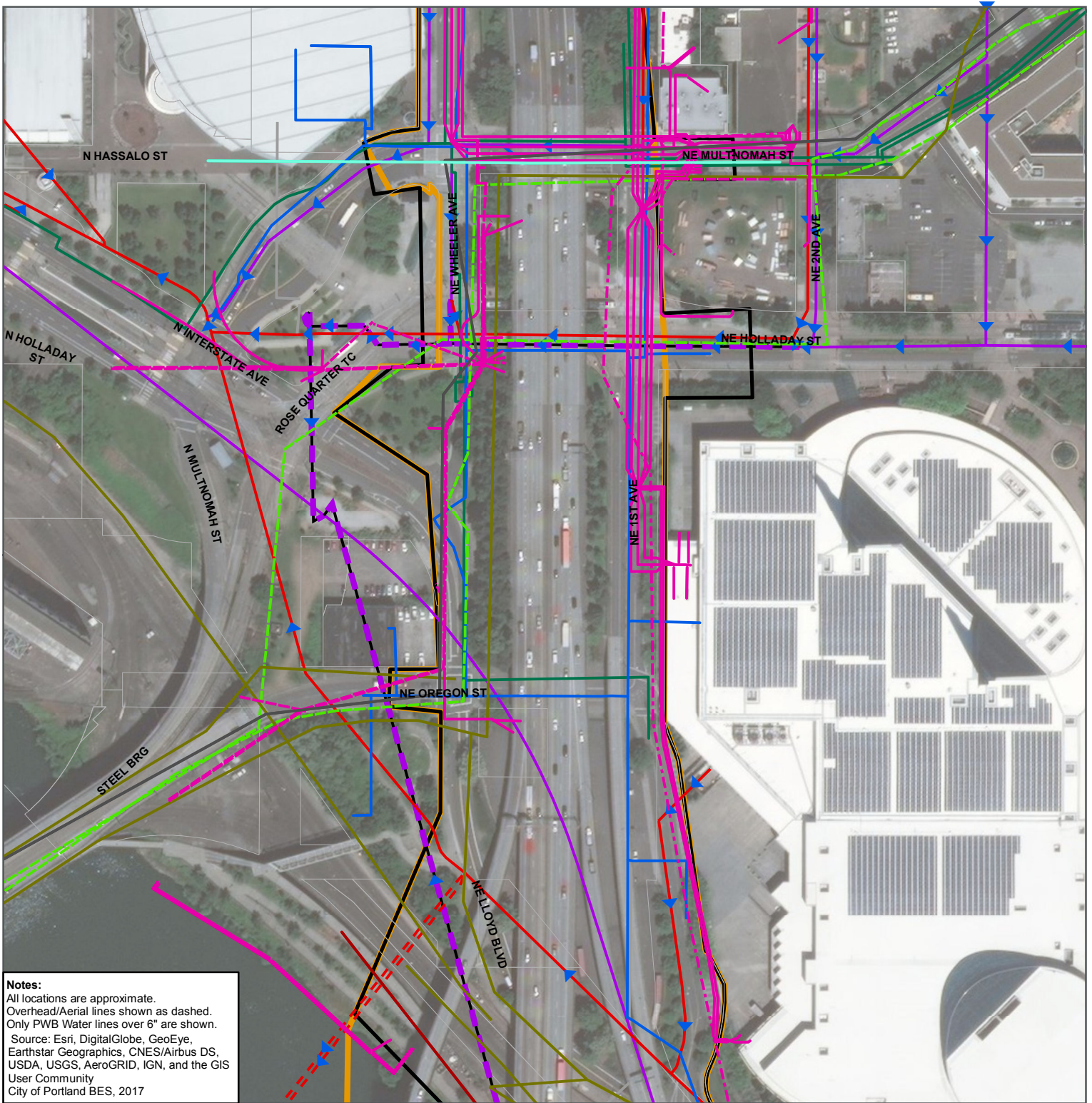


- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- PS Sewer Nodes
- Combined Gravity Main
- Sanitary Gravity Main
- Sanitary Pressure Main
- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

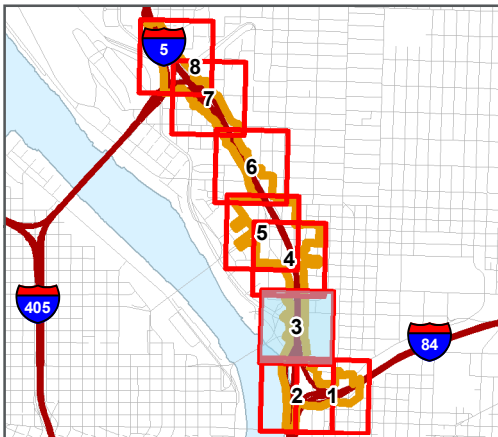
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 2





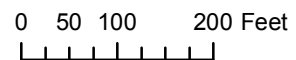
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
 Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
 City of Portland BES, 2017

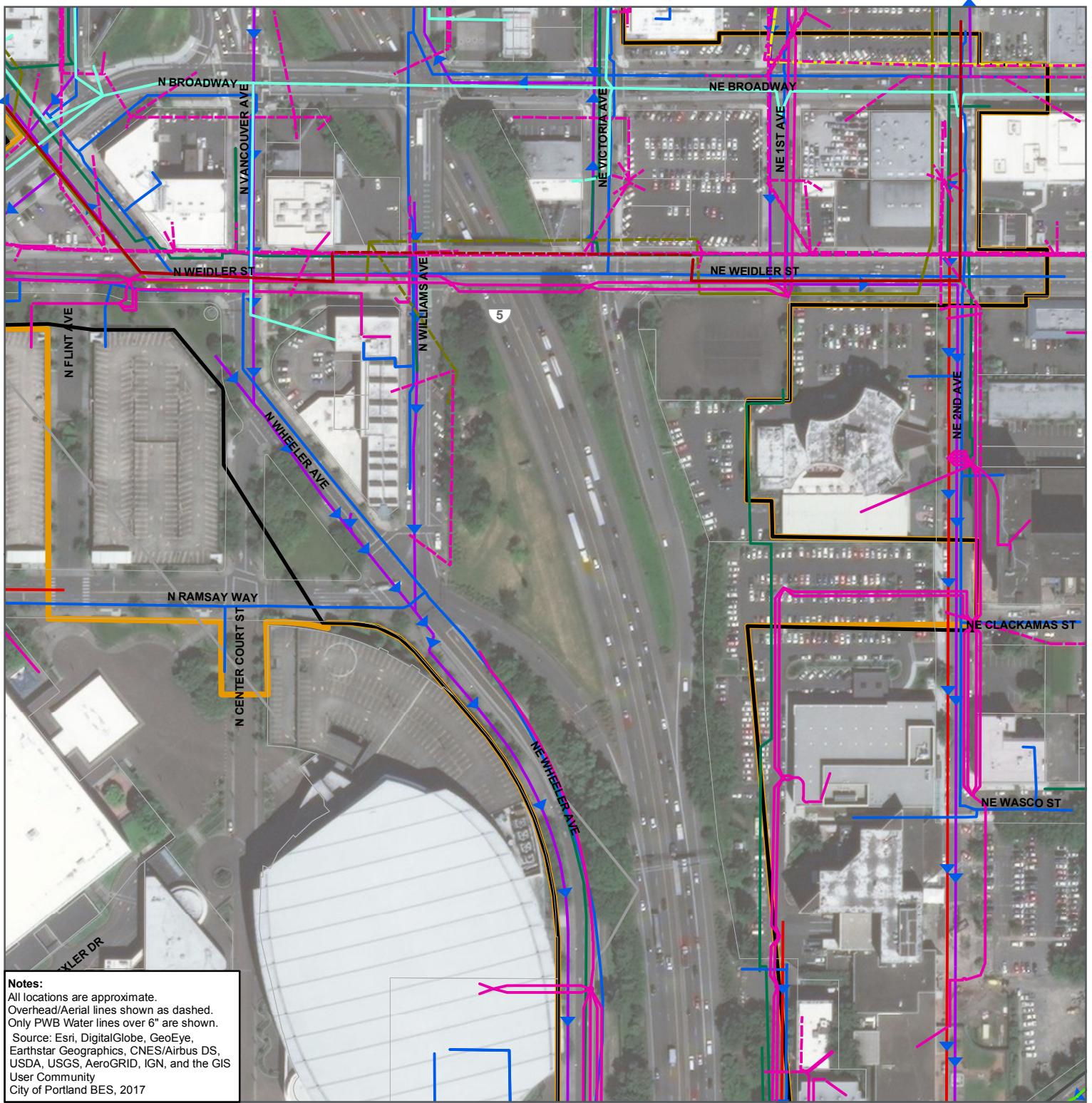


- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- ▶ Sanitary Pressure Main
- ▶ Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

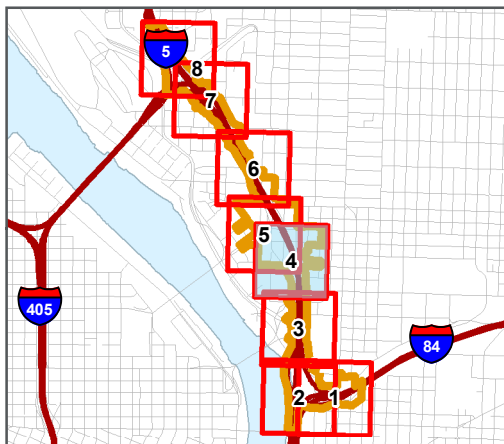
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 3





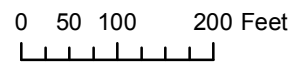
Notes:
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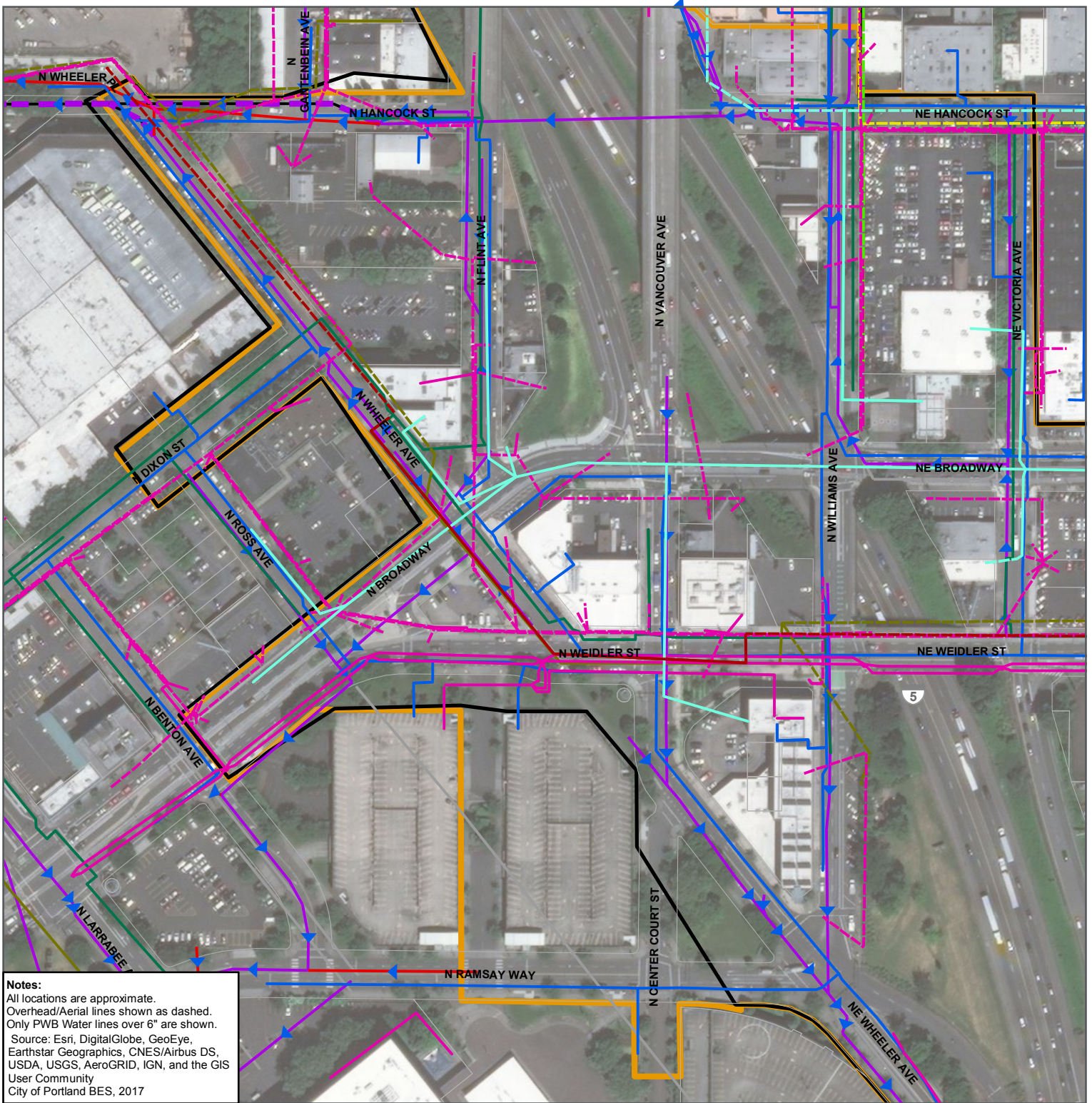


- CenturyLink Local Line
- CenturyLink National Line
- Level 3 Line
- Non Level 3 Line
- NW Natural Gas Line
- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- ➔ Combined Gravity Main
- ➔ Sanitary Gravity Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

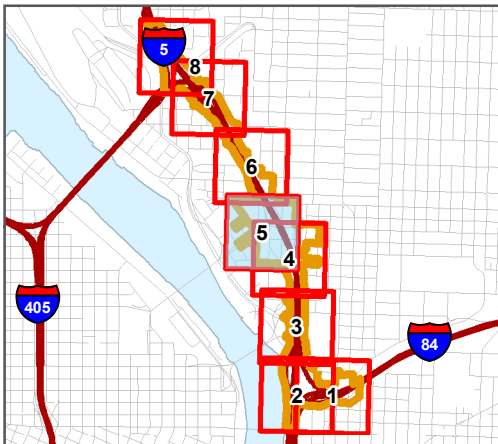
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 4





Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
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 City of Portland BES, 2017



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- PacifiCorp Line
- Verizon Line
- Combined Gravity Main
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- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

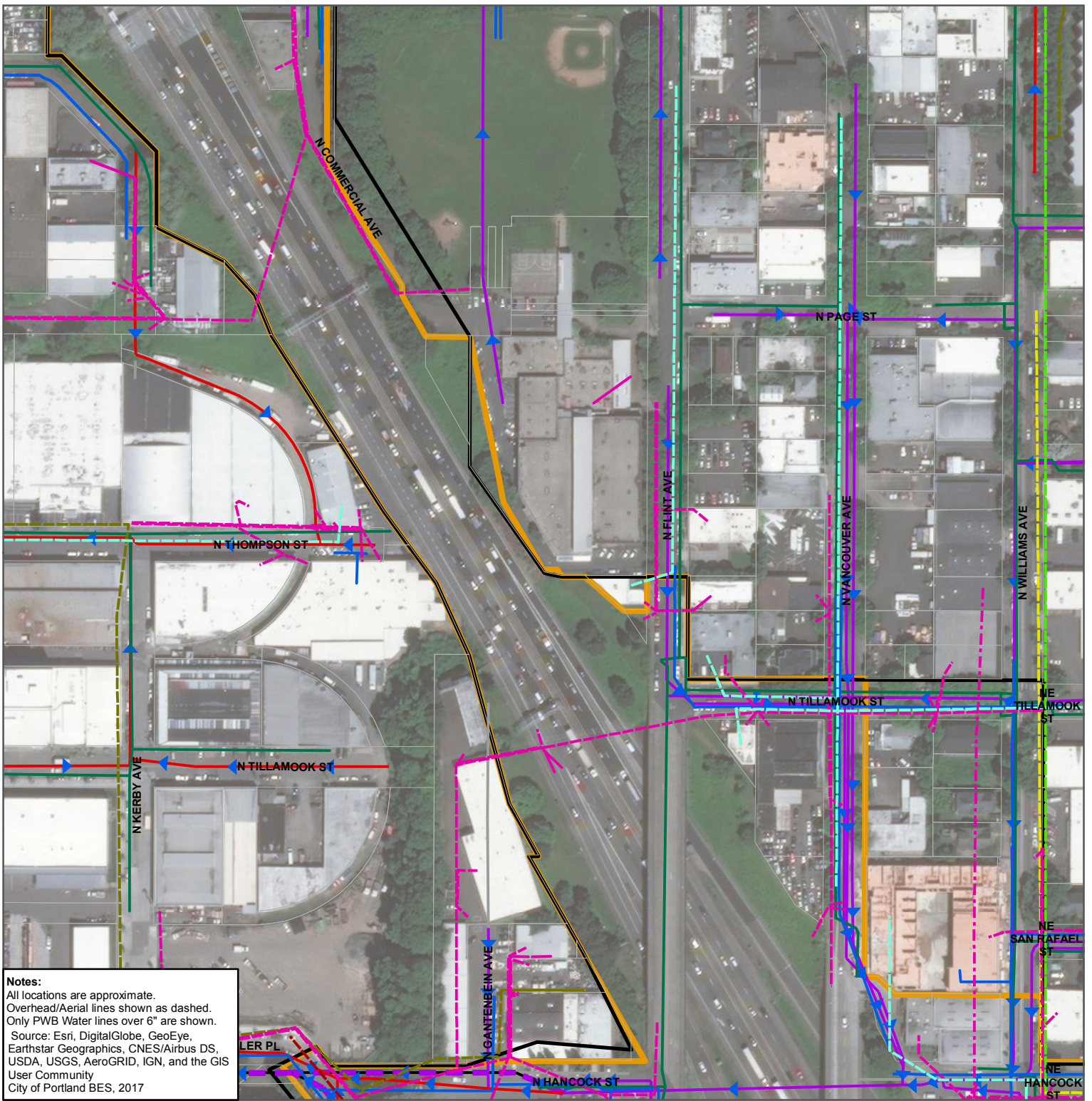
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 5

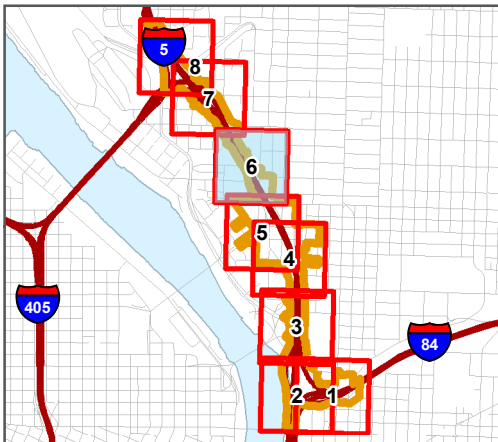


0 50 100 200 Feet





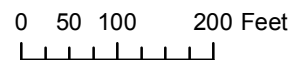
Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
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 City of Portland BES, 2017

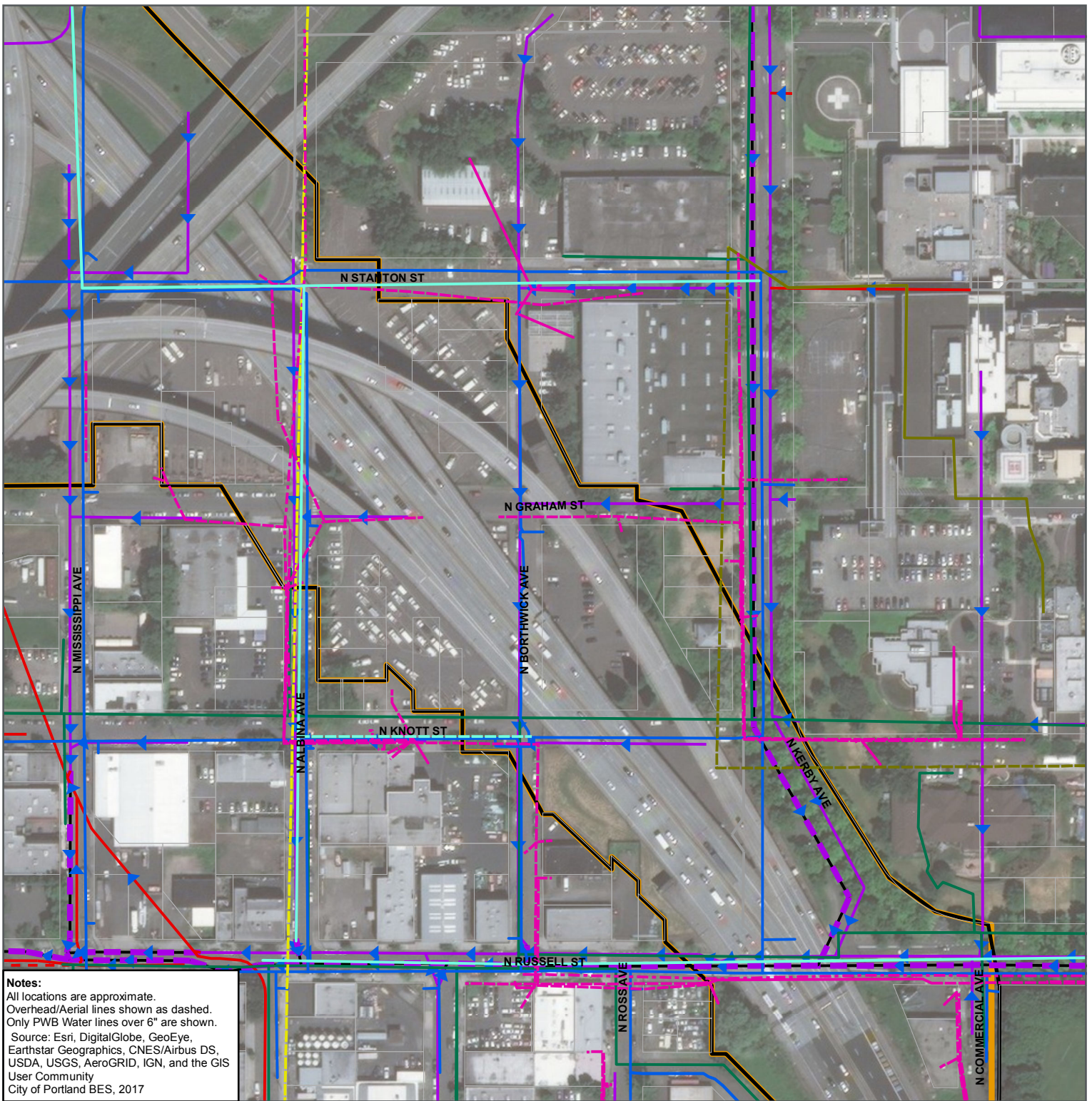


- CenturyLink Local Line
- Level 3 Line
- Non Level 3 Line
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- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Verizon Line
- ▶ Combined Gravity Main
- ▶ Sanitary Gravity Main
- ▶ Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

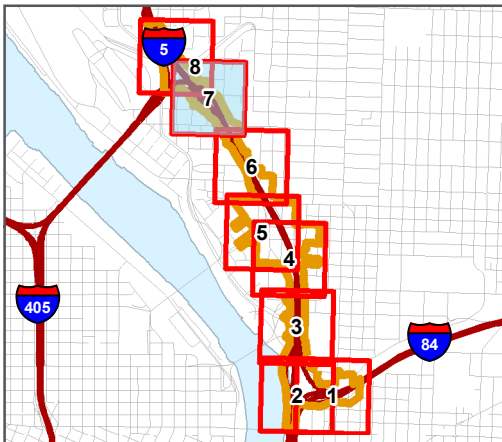
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 6






Notes:
 All locations are approximate.
 Overhead/Aerial lines shown as dashed.
 Only PWB Water lines over 6" are shown.
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 City of Portland BES, 2017




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- Level 3 Line
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- PGE Line
- PWB Water Distribution Line
- PacifiCorp Line
- Combined Gravity Main
- Sanitary Gravity Main
- Sanitary Pressure Main
- Combined Sewer Overflow Main
- Abandoned Main
- Project Area
- API Boundary for Utilities
- Taxlots

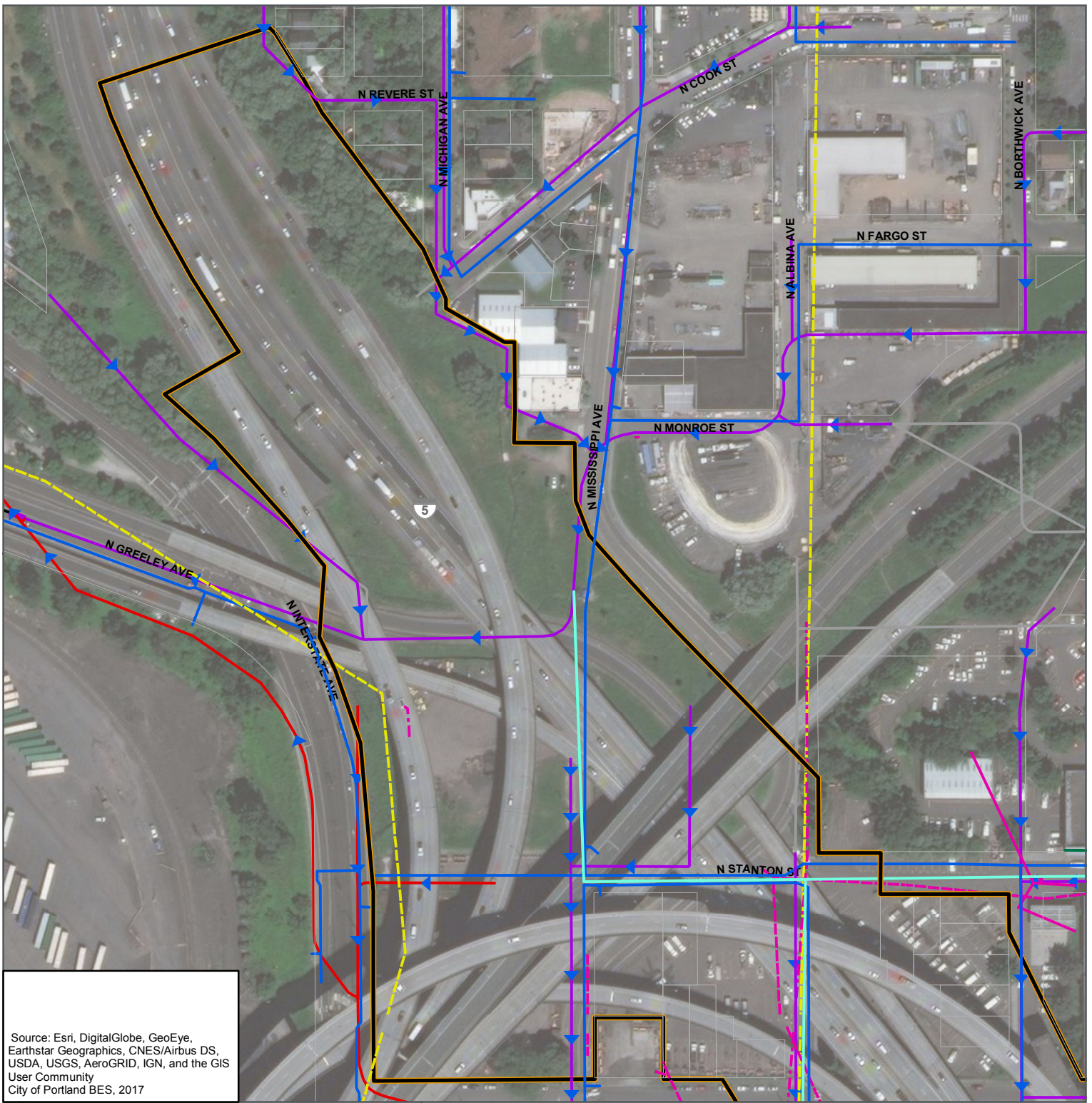
ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT
UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 7

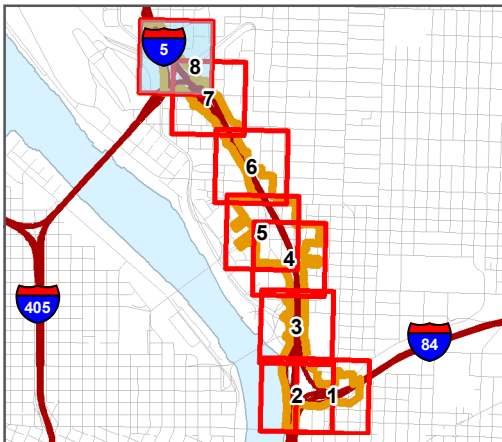

Oregon Department of Transportation

0 50 100 200 Feet





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
City of Portland BES, 2017



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- Project Area
- API Boundary for Utilities
- Taxlots

ODOT I-5 ROSE QUARTER IMPROVEMENT PROJECT UTILITIES AREA OF POTENTIAL IMPACT

FIGURE 3 - 8

