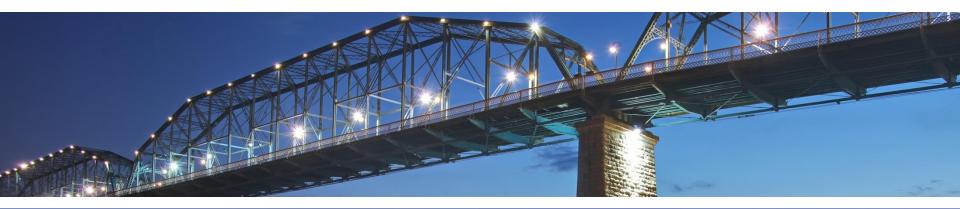


### Committee on Right of Way, Utilities and Outdoor Advertising Control 2019 Annual Meeting

Chattanooga, Tennessee April 28–May 2, 2019



Utility Locating Technologies R01B Feasibility of Mapping & Marking Underground Utilities by D0Ts



#### **Heather Howe**

Heather.C.Howe@odot.state.or.us



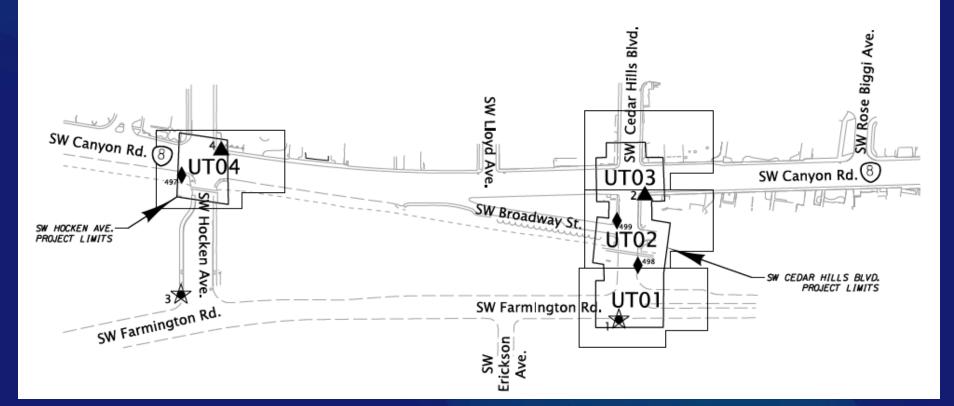
### **Oregon DOT** Establishing a SUE Program

- Backing of ODOT's Chief Engineer
- Recruited multi-skilled team of staff
- Created an initial set of documents
- Outreach to key stakeholders
- Went hunting for projects





### **Project Area** OR 8: Hocken to Short





**Overall Project Scope** OR 8: Hocken to Short

- Signal replacement
- Roadway geometry adjustment
- Create a left turn lane
- Improvements to sidewalks and curb ramps, illumination, drainage and water quality treatment elements



R01B: Why OR 8? OR 8: Hocken to Short

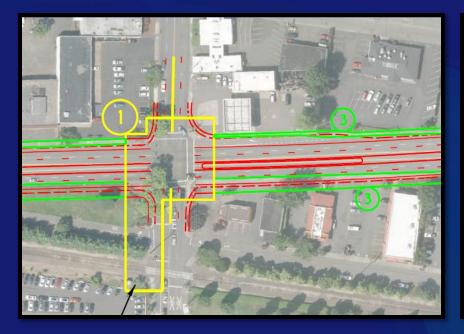
- Located in the Portland-Metro area
- Project scope was a good fit
- Good mix of existing features to test MCGPR and TDEMI
- Reasonable sized project, appropriate for our first SUE project

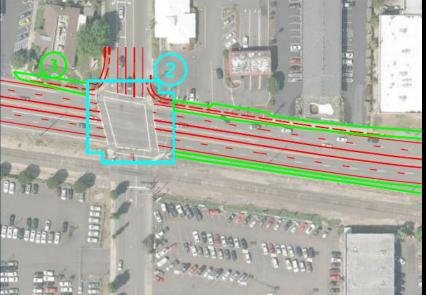


### R01B: Why OR 8? OR 8: Hocken to Short

#### Intersection at SW Cedar Hills Blvd

#### Intersection at SW Hocken Ave







### **R01B: Trying Something New** OR 8: Hocken to Short



### **R01B Project** OR 8: Hocken to Short

- Field work 300 man hours, approx.
  - MCGPR IDS
     Stream EM system
  - TDEMI A Geonics EM-61 MK2A

 Data analysis – 800 man hours, approx.





### **R01B Project Challenges** OR 8: Hocken to Short

- Overcoming internal processes needed to execute a contract
- Maintaining the delivery schedule



## Increased knowledge and awareness of SUE methods and applications



- Availability of tools
- Benefits SUE can provide
- Risk mitigation
- Acknowledgement of uncertainty



# MCGPR and TDEMI are complex and complicated

- Field work is safer and quicker
- Equipment is easy to use
- Data processing requires more time and skill





### SUE requires new contract language and dedicated procurement processes



- Start early
- Distinguish SUE from utility coordination
- Meet procurement team face-to-face
- Conduct outreach
- Know your end game



### At the onset of project development – Always be thinking SUE

- Timing is key
- Evaluate the project's complexity early
- Engage the utility coordinator
- Determine needs –
   2D or 3D





#### Never forget, cost is king

- Project leaders want to know "what's my bottom line"
- Track every project to build a cost history
- Every job is different





## Need for prequalified contractor list to expedite procurement process



- RFP process is long
  Establish standard contract language
  Mako it pasy for
- Make it easy for project leaders to use



### **Oregon DOT's Next Steps**

- Update our procurement and contracting documents
- Develop new tools and refine our existing ones
- Expand stakeholder outreach and education efforts
- Look for projects





### **Connect with us**

