

## 2015 AASHTO Right-of-Way and Utilities Subcommittee Utility Project Scoping and Coordination Presentation - Notes

### Slide 1 (2015 AASHTO Right-of-Way and Utilities Subcommittee)

- Utility Project Scoping and Coordination
  - Jennifer McCleve, P.E.
  - Larry Ditty

### Slide 2 (Introduction)

- Go over the report introduction
  - On May 5, 2003, the Subcommittee of Right of Way and Utilities voted to adopt an organization of councils in technical aspects of Right of Way and Utilities.
  - Chairs for the Right of Way & Utilities Technical Councils were appointed by the AASHTO Right of Way and Utilities Subcommittee Executive Chairman.
  - The TCs were reorganized in 2013 and the Utility Project Scoping & Coordination Technical Council was created.

### Slide 3 (Objectives)

- The objectives of the Technical Council are to:
  - encourage and facilitate broader participation among the state DOT's
  - allow people, who have a special interest in some technical aspect of utility project scoping and coordination to meet to compare notes and share ideas for improvement
  - use the ideas to help the Subcommittee plan for future work efforts, research and conference programs
  - provide an annual report on current issues for the Subcommittee's Executive Board meeting in January on the council's discussions and activity.

### Slide 4 (Utility Project Scoping & Coordination)

- Go over the elements of Utility Project Scoping and Coordination.
  - The elements of utility project scoping and coordination with utility company stakeholders when developing and executing a project include, but not be all inclusive of, the following:
    - ❖ How the project development process (planning and design) incorporates utility involvement.
    - ❖ How the project execution process (construction) is impacted by utility involvement.
    - ❖ How each process interacts and addresses utility matters.
    - ❖ Involves existing utility infrastructure, proposed and relocations.
    - ❖ The three C's (Communications, Coordination and Cooperation) are important factors.

### Slide 5 (Technical Council Members)

- Members – The council includes 33 members from DOTs, the FHWA, Consultants and Academia. Below is a breakdown of the membership with full roster attached (Exhibit A).
  - 22 State DOTs personnel (representing 18 DOTs)
  - 1 FHWA DOT personnel
  - 9 Consultant personnel (representing 6 Consultant firms)
  - 1 Academia personnel
- Have members that are in attendance introduce themselves

### Slide 6 (Annual Report Reviews) (20 minutes) - Review the reports for 2013 and 2014

- Go over the reports items
  - Council Items
  - Recommendations
  - Appendix A: Member Contact List
  - Appendix B: Survey Results

**Slide 7 (Council Items)**

- Go over the council items
  - Quarterly Meetings
  - Surveys
  - Subcommittees
  - Summary

**Slide 8 (Quarterly Meetings)**

- Go over the meeting items
  - Buy America, Prior rights, Casing of utilities, Locating of underground utilities, Utility delays/contractor claims, Utility Abandonment, Inventory of State Coordination Policies, Website, Utility Conflict and Inspection Practices

**Slide 9 (Surveys)**

- Go over the survey items
  - Prior Utility Property Rights, Contractor Claims, Abandonment of Underground Utility Facilities, Utility Coordination Policies, Buy America, Subsurface Utility Engineering and about posting State policies on a secure website. Buy America, Prior Rights, Subsurface Utility Engineering and Delay Claims. Utility Relocation Coordination Training and Master Agreements

**Slide 10 (Subcommittees)**

- The Council will create subcommittees to do further research.
- So far, the council has created a group for SUE Scope of Work Standards. It consists of 9 members and they are working to create a standard scope of work for SUE.

**Slide 11 (Summary)**

- The report identifies recommendations for session topics for the annual meeting and for research topics.
- The council will continue to have quarterly meetings to compare notes, share ideas and use council subcommittees as needed.

**Slide 12 (Recommendations)**

- Annual Meetings Session Topics
- Research Projects
- Other Recommendations

**Slide 13 (Annual Meeting Session Topics)**

- Delay Claims – How road construction is impacted by utility relocation delay and how DOTs manage those impacts.
- Prior Rights – How DOTs manage utility company property rights, the relocation of those facilities or the management of those facilities when left in place.
- Alternative Bidding
- Utility Coordination Best Practices: Project Case Studies
- Master Agreement Utilization for Utility Coordination on DOT Projects
- Buy America – How are we doing with it?

**Slide 14 (Research Projects)**

- Subsurface Utility Engineering (SUE) – Need research to determine how SUE is best employed in the coordination and execution of road project development.
- Buy America – Need research to develop Buy America standards.
- Utility Conflict – Need research to determine utility conflict risk levels.
- Utility Inspection Practices – Need to develop a protocol to improve utility inspecting techniques.
- Buy America - Utility Best Practices (submitted for a NCHRP 20-7 research project by Richard Manser on April 25, 2013 and again by the Technical Council on 9/12/2013). The request is still with the Executive Board for approval.

- Utility Coordination Best Practices for Design Build and Alternative Bidding (submitted a request for a research project on 9/12/2014)
  - It was selected by AASHTO this year for a NCHRP 20-07 project.
- Dig Law Revisions & Impacts (submitted a request for a research project on 9/12/14)
- Utility Impact Analysis and Subsurface Utility Engineering (submitting a request for a NCHRP 20-5 research project)

#### **Slide 15 (Other Recommendations)**

- The Council recommended that the Subcommittee develop a website for the Council to store documents.

#### **Slide 16 (Appendix A: Member Contact List)**

- The member contact list is in the report as appendix A and on the TC's website.

#### **Slide 17 (Appendix B: Survey Results)**

- The survey results are in the report as appendix B.

#### **Slide 18 (Sub-council Report)**

- SUE Standard Scopes of Work
- NCHRP 20-5 - Proposed Research Needs Statement

#### **Slide 19 (SUE Standard Scopes of Work)**

- The purposes are:
  - to gather information about the Scopes of Services from current Subsurface Utility Engineering (SUE) Contracts used by State Departments of Transportation who currently have Statewide Contracts, Districts and Regional Contracts and also Individual Specific Project Scopes requiring SUE Service.
  - to compile and consolidated common language, like thinking, like scope terminology to start the foundation of a Standard SUE Scope that could be used by State DOTs who have SUE Contracts and this Common Scope could serve as a guideline for those States who don't have SUE Contracts, but would like to Develop a SUE Program in the future.

#### **Slide 20 (Research Needs)**

- Enhanced Utility System Mapping for utility risk mitigation; Challenges to State Transportation Departments in developing a Scope of Services.

#### **Slide 21 (Objective)**

- To create a scope of services with clear work tasks, universal terminology and well defined accuracy guidelines. Organize the scope without references to other standards (it should be a stand-alone document). Provide the suggested scope to States using enhanced utility mapping services and follow up for their comments, and try to build consensus on the issues stated above.

#### **Slide 22 (Summaries)**

- Go over the list DOT's that provided summaries.
  - Florida Department of Transportation
  - Georgia Department of Transportation
  - Maryland State Highway Administration
  - Nevada Department of Transportation
  - New Hampshire Department of Transportation
  - New York State Department of Transportation
  - South Carolina Department of Transportation
  - Virginia Department of Transportation
  - Washington State Department of Transportation
  - City of Lenexa, KS (Submitted by Jim Anspach)
  - Michigan Department of Transportation
  - Nebraska Department of Transportation

- Idaho Department of Transportation
- Ohio Department of Transportation, District 7

### **Slide 23 (Sub-Council Report Details)**

- Go over the report details
  - Utility risk can be significantly mitigated by using proven best practice procedures for depicting existing utilities accurately on design and construction documents. A fully researched, comprehensive inventory of utilities, accurately geo-located, will identify potential utility problems early and aid in crafting resolutions. Unfortunately there is inconsistent use of the enhanced utility mapping techniques on many projects. A carefully prepared Scope of Services document can do much to rectify these problems by helping DOT's to the request deliverables of useful accuracy at reasonable cost.
  - A need exists to clarify what services the DOTs are actually using (compared to the stated scope of service), and to produce an updated scope of service document which mirrors those requirements. A review of international practices should be conducted because utility related issues are not unique to the U.S. Utility mapping produced by combined geophysical methods

### **Slide 24 (Future Topics & Research Areas)**

- Discussion Topic: Subsurface Utility Engineering and Utility Infrastructure Mapping Scopes
- Perception that Scope should concentrate on deliverables and work product reliability measures/meta data, not techniques and technologies used.
- Call to Action: Open Discussion, Agree or Disagree ... Comments

### **Slide 25 (Future Topics & Research Areas)**

- Notes: Subsurface Utility Engineering and Utility Infrastructure Mapping Scopes

### **Slide 26 (Future Topics & Research Areas)**

- 2014 Revisited: Notes
  - SUE, Impacts of Dig Law revisions, Utility Coordination Training, Alternative Bid Projects and utility Coordination Best Practices

### **Slide 27 (Future Topics & Research Areas)**

- 2013 Revisited: Notes
  - Buy America, Delay Claims, Prior Rights and SUE

### **Slide 28 (Future Topics & Research Areas)**

- SHRP2 Products:
  - Round 6
    - R01B – Utility Locating Technologies
    - R15B – Identifying and Managing Utility Conflicts
  - Round 5
    - R01A – 3D Utility Location data Repository
  - Round 3
    - R15B – Identifying and Managing Utility Conflicts

### **Slide 29 (Future Topics & Research Areas)**

- SHRP2 Products:
- Implementation Successes
- Round 6 Products – application launch May 29, 2015

### **Slide 30 (Future Topics & Research Areas)**

- Open Discussion: Future Topics

### **Slide 31 (Future Topics & Research Areas)**

- Open Discussion: Research Areas

### **Slide 32 (Summary & Questions)** (10 minutes)

- Go over summary and take questions.