

Project Tasks (Continued):

- 4 Draft policy and legislative changes
- Outreach efforts and meeting with stakeholders (ongoing)
- Draft manual revisions and host discussion meetings among stakeholders
- 7 Final report and technology transfer materials

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Project Data Collection:

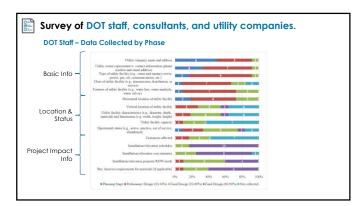
- Literature Review
- Review of policy and manuals
- Process Mapping with Roles & Responsibilities
- Survey across a range of stakeholders
- Participation in FHWA NHI Training
- Coordination with Other Ongoing Research
- Discussions with stakeholders and presentations at stakeholder events
- Meetings with lowa DOT staff

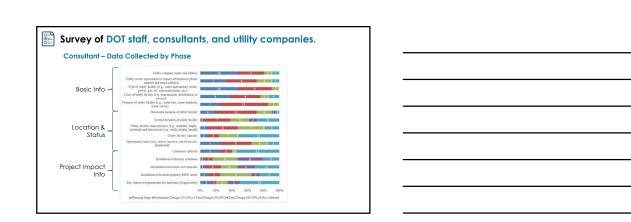
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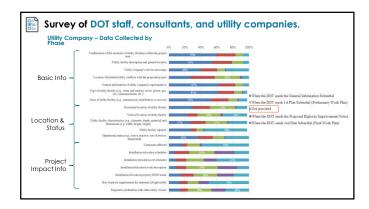


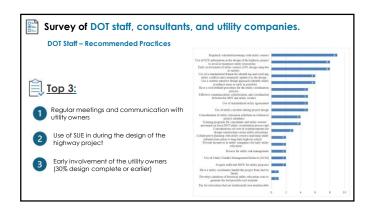
Review of lowa DOT documents and ma	
	POINT25 – Highway Design Development Process
Policy for Accommodating and Adjustment of Utilities on the Primary Road System	Planning Preliminary Design Final Final Policy Final Policy Final Policy Final Policy Final Final Policy Final Final Policy Final Fina
Project Development Process Manual: Guidelines for Implementing Iowa Department of Transportation's Project Development Process	72 1/2 1
Policy for Accommodating Utilities on the County and City Non-Primary Federal-Aid Road System	1988 - Frainding (1975) having 1992
 Instructional Memorandum 3.640 on Utility Accommodation and Coordination from the Local Systems Bureau to Counties and Cities 	With - Refer to Triscost With - Refer to Tri
and other documents	SOS: Pregura SOW Plant Submittal SOS: Pregura SOW Plant Submittal SOS: ROSE Acquisition
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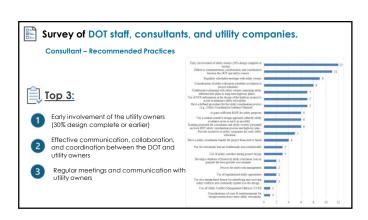


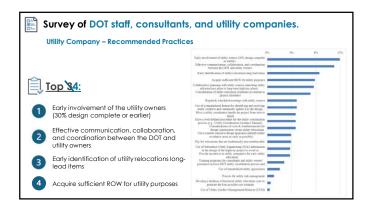


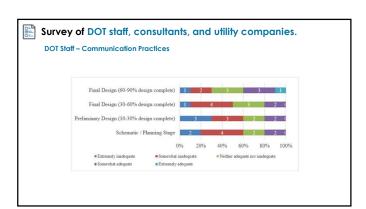


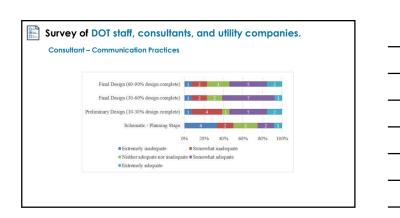


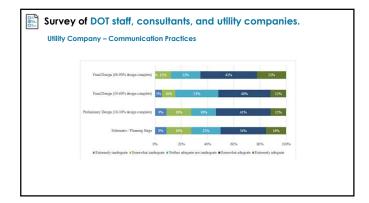


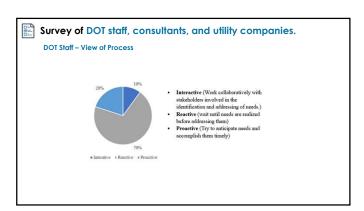


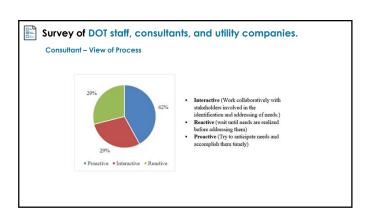




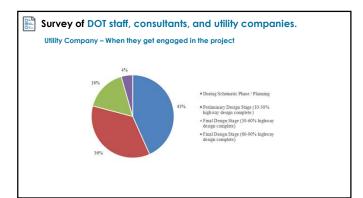








Survey of DOT staff, consulta	nts, and utility companies.
Utility Company - View of Process 2246 4559 **Proactive **Interactive **Reactive	Interactive (Work collaboratively with stakeholders involved in the identification and addressing of needs.) Reactive (wait until needs are realized before addressing them) Proactive (Try to anticipate needs and accomplish them timely)

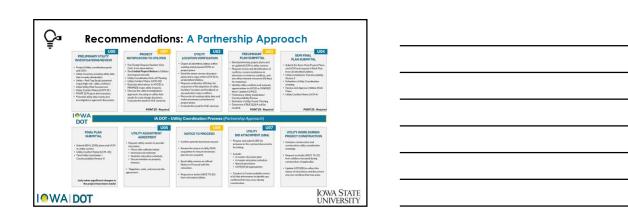


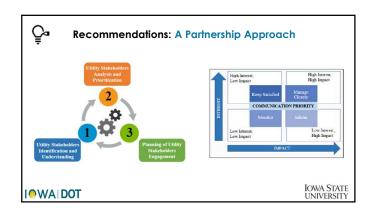


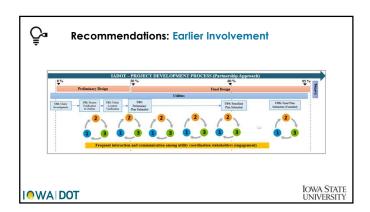
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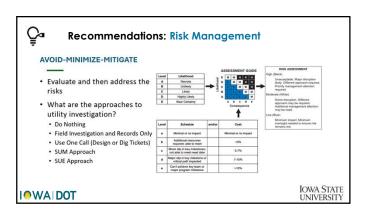












Timing	Constructability Review Focus/Considerations for Utilities	
[D02] – Field Exam Plans (30% design completion) or once the preferred alternative has been selected.	Conducting a constructability review at this stage helps identify omissions, design errors, or potential areas where utility impacts should be avoided before proceeding with a detailed design. Making geometric changes increases in difficulty after this point, so this review provides the optimal opportunity to avoid relocations.	
[D05] – Plans to ROW or when design is 60% complete	Although opportunities to avoid utility conflicts should have decreased by this point, conducting a constructability review at this stage should help identify necessary minor design changes to mitigate conflicts.	
90% design completion	A review at this stage should include reviewing all utility relocation packages, especially the ones that will occur during construction. The review should evaluate the feasibility of proposed utility relocations, focusing on pakings, esquencing, any dependencies, maintenance of traffic plans, site access, and other construction-related factors. These details should be communicated to the construction contractor, preferably during a pre-bid meeting, to avoid problems during the construction phase and ensure protect success.	

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Research: Conclusions

- Key issues highlighted within this study include:

 1. Utility-Related Delays: Utility relocations are a significant cause of project delays and increased costs, as evidenced by both national reviews and IADOT-specific data.

 2. Inefficient Current Practices: Existing methods often prioritize utility relocation late in the design process, leading to inefficiencies and strained relationships with utility stakeholders. There may be little or no consideration of design alterations to avoid utility impacts.

 3. Lack of Stakeholder Trust and Engagement: The inefficient practices, lack of communication, and adversarial approach in utility coordination breed a lack of trust and engagement among stakeholders.

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Research: Conclusions

- To address these issues, the following recommendations are proposed:

 1. Best Practices: Early coordination, accurate utility data collection, and fostering partnerships are essential strategies to improve project timelines and outcomes. The Partnership Approach is further discussed below.

 2. Early Integration of Utility Stakeholders: Incorporate utility companies into the early stages of project development to identify potential conflicts and develop collaborative solutions. This includes conducting preliminary reviews of utilities in the project area, performing utility risk assessments, and engaging utility stakeholders early in the process.

 3. Improved Data Collection and Sharing: Establish standardized procedures for acquiring and sharing precise utility location and attribute information. This involves using Subsurface Utility Engineering (SUE) techniques, verifying utility information with utility owners, and updating project plans based on accurate utility data.

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Research: Conclusions

- 4. Enhanced Coordination Methods: Develop clear roles and responsibilities for all stakeholders involved in utility coordination and project development. This includes strategically engaging with all utility coordination stakeholders, conducting utility-related constructability reviews, and implementing Utility Conflict Management (UCM)
- constructability reviews, and improvements of processes.

 5. Policy and Legislative Revisions: Update LADOT policies and guidelines to reflect the proposed improvements in utility coordination practices. This includes revising utility accommodation policies, holding non-responsive utilities accountable, and leveraging the lowa Code to incentivize timely utility relocations.

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Research: Conclusions

The Partnership Approach outlines eight core principles that stakeholders should adopt to effectively implement the suggested changes and best practices. These principles are:

Positive and collaborative relationships
Avoid, minimize, and mitigate utility conflicts when feasible
Reliable utility data for better project decisions
Timely and proactive engagement of utility coordination stakeholders
Normalize treating utilities as 'business partners'
Everyone Knows Where Everyone Goes
Reinforce the 3Cs: Communication, Coordination, and Cooperation
Shared vision and accountability for success among utility coordination stakeholders

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