

SUBSURFACE UTILITY ENGINEERING WORKSHOP

Workshop Sponsored by the
Hawaii'i Local Technical Assistance Program
in cooperation with
the Hawaii State Department of Transportation,
University of Hawaii's Department of Civil Engineering,
and Federal Highway Administration

When: December 8-9, 1998 (one and one-half day session)
Where: East West Center, 1777 East West Road
Jefferson Hall, Pacific Room
Time: 8:00 AM - 4:30 PM (day one), 8:00 am - 12:00 pm (day two)
Cost: FREE!!

WHAT IS SUE?

Subsurface Utility Engineering (SUE) is an engineering process for accurately locating and mapping underground utilities. It utilizes new and existing technologies. Major components are designating, locating and data management. It is important to obtain information about the soils and underground obstructions (e.g., utilities, hazardous waste, storage tanks, etc.). In the past the only way to accurately determine what was under the ground was to dig with a backhoe. This, in itself, often caused utility lines to be cut or damaged. Now, with SUE, underground utilities can be accurately located much earlier, safer and inexpensive.

WHY USE SUE?

SUE benefits both highway agencies and utilities -

- Unexpected conflicts with utilities are eliminated because the exact location of all utilities is known and accurately shown on the construction plans.
- Unnecessary utility relocations are avoided because accurate utility information is available to the highway designers early enough in the development of a project to design around many potential conflicts.

This workshop will cover a variety of subsurface utility engineering related topics, including technical aspects, utility coordination, contract administration options, integration with existing practices, partnering, costs and cost sharing issues, and benefits.

AGENDA

DAY 1

8:00 - 8:15	Introduction
8:15 - 9:00	Overview of the History of Subsurface Utility Engineering
9:00-10:00	Basic Tenets of SUE - Utility Quality Levels and the pending ASCE Standards
10:00 - 10:15	Break
10:15 - 11:00	Technical Aspects of Mapping - Geophysical Methods, Excavation Methods, Survey/Plotting Methods
11:00 - 12:00	The SUE Professional's Tasks - Anatomy of a typical project
12:00 - 1:00	Lunch
1:00 - 1:30	Film
1:30 - 2:00	History of SUE in Hawaii
2:00 - 3:00	Use of SUE in other States
3:00 - 3:15	Break
3:15 - 4:00	Case Studies of projects
4:00 - 4:30	Individual discussions

DAY 2

8:00 - 9:00	Cost Savings over Traditional Methods of Utility Risk Management - Purdue Study
9:00 - 9:30	Contracting Methods - Bringing SUE to the Project
9:30 - 10:00	Development of an Expression of Interest/RFP/SUE specifications/Provider Qualification
10:00 - 10:15	Break
10:15 - 11:00	Partnering/Cost and Risk Allocations
11:00 - 11:30	The future of SUE
11:30 - 12:00	Discussion of upcoming projects in Hawaii - Identification of Concerns/Hurdles

TARGET AUDIENCE: Federal, State and local government agencies, public and private utility owners, design consultants, contractors.