

## Overview of the Use of Geotechnical Baseline Reports

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This presentation will provide an overview of the development and application of Geotechnical Baseline Reports (GBRs) as a contract document to identify, allocate, and manage subsurface project risks. Ground related risks continue to dominate claims, cost escalation, and schedule delays on projects regardless of the contract delivery system. GBRs are an evolving approach to provide a contractual basis for the allocation of risk by defining site conditions that should be anticipated and included within the contractual obligations and cost for executing a project. Historically, GBRs were developed and applied for use in the tunnel and underground construction industry but are now being used as a risk allocation tool on surface transportation and infrastructure projects. Hence the differences, as well as similarities between underground and surface projects and how GDR's are applied, will be discussed. The presentation will cover what a GBR is and what a GBR is not, and examples of baseline statements will be provided. How GBR's integrate with other contract documents will be presented, and their use in resolving differing site condition claims. The presentation will conclude with a discussion of the use of GBRs in traditional contract delivery methods such as design bid build and alternative contract delivery models.

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Dr. Conrad Felice is serving as the Washington State Department of Transportation owners representative and Geotechnical Design Manager for the over \$2.5 billion I-405 Corridor Program. He is also the Owner and Managing Principal at C. W. Felice, LLC, and an Adjunct Professor in the Department of Civil & Coastal Engineering at the University of Florida. He is a professional engineer registered in 15 states and four provinces in Canada. Dr. Felice is a current trustee for the Deep Foundation Institute, a Fellow of the American Society of Civil Engineers, a board-certified geotechnical engineer within the ASCE Geo-Institute, and a past member of the Committee on Geological and Geotechnical Engineering for the National Research Council, U.S. National Academy of Sciences. Academically he earned a B.S. and Ph.D., in civil engineering from Ohio University and the University of Utah, respectively and an M.S. in facilities management from the Air Force Institute of Technology.