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**From:** Williamson, Alec  
**Sent:** Thursday, January 22, 2009 9:36 AM  
**To:** Ludington, Chris (Consultant)  
**Cc:** Amiri, Ali; Struthers, James; Robison, Jim (Consultant); Clark, Gordon T. (Consultant); Preedy, Matt  
**Subject:** south portal schedule scenarios

Hi Chris-

I need three high clip schedule scenarios from you by Monday-

Scenario 1: South portal as originally envisioned with portal at 1st Ave margin and jet grouting or other stabilization in 1st Ave to King St.

Scenario 2: Bored tunnel portal moved north to King, with top down construction in 1st Ave between WOSCA and King

Scenario 3: South retained cut moved south with H2K design modified to allow for enough cover over the bored tunnel when it enters 1st Ave R/W

I am most interested in the schedule effects of these scenarios up to bored tunnel launch. The current schedule is probably closest to Scenario 1, but we did not adequately anticipate or plan for the problems we now see in 1st Ave just north of the portal- those issues need to be included in the schedule. Issues include extensive ground modification or replacement, possible tie backs in the bore circumference, and perhaps unacceptably high risk of settlement.

Let me know what I can do to help you with this- should we schedule a meeting so that you can adequately capture all of the schedule activities?

Matt- this is a heads up to you that these are some emerging issues that came up yesterday

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