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**From:** Brenda Bohlke [bmbohlke@hotmail.com]  
**Sent:** Friday, April 17, 2009 8:39 AM  
**To:** White, John; Reilly, John  
**Cc:** Preedy, Matt; Greco, Theresa  
**Subject:** RE: Bored Tunnel Contracting Options Schedules: Issues that have Arisen Since Meeting Yesterday

John, Matt and Teresa

Having read through the options.

Just the quick review and clarification of the Workshop Panels' recommendations:

Although it may not have been clear in the summary report. At no time did the panel recommend that the tbm extraction pit. We thought the north portal should be developed as a portal and allow the tbm to drive into the portal structure. We never understood the need for an extractioni pit

South Portal was recommended with a DBB for the reasons stated in the report. However, there could be some early contractor involvement to bring in some innovations on the alternative methods of construction. GCCM as noted in the options memorandum may or may not be available given the time to bid out all subcontracts and the limit of 30% on the prime....the limit was clear based on the configuration and the responsibility for delivering the launch structure in time.

Let me know if you want to talk about this today and what time (as suggested in your email) below. I am available..just let me know what time to block out. I am available until 7:00 pm EDT.

Anxious to hear how the portal session worked out.  
Regards.

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Subject: FW: Bored Tunnel Contracting Options Schedules: Issues that have Arisen Since Meeting Yesterday  
Date: Wed, 15 Apr 2009 15:50:36 -0700  
From: WhiteJH@wsdot.wa.gov  
To: bmbohlke@hotmail.com; jjreils@attglobal.net  
CC: PreedyM@WSDOT.WA.GOV

Just thought I'd send a couple things your way that describe the discussions we have had this week over contracting approach. Within the attached e-mail is a Word document that captures the different packaging/delivery options the team was going to further assess. On top of that you can follow the e-mail chain below over some dialogue that followed the meeting and a reminder I sent our managers.

6/19/2009

The goal is to work through this exercise and have it inform/justify our decision-making related to packaging. The team is going to present draft schedules for the different options by COB Monday 4/20, then we hope to meet as a group on Friday 4/24 to review the pros/cons/issues of the different approaches. We're hoping to meet with yourselves early the week of the 4/27, since we need to brief Ron and others later in the week, ahead of the conference and forum on 5/4 and 5/5.

I'll be honest that and say that at this point I do not concur with a couple of the options/sub-options at this point in time, but I am keeping an open mind and letting people to their work and see if any of it changes my mind. Please feel free to share any preliminary thoughts by e-mail.

John

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**From:** White, John  
**Sent:** Wednesday, April 15, 2009 9:06 AM  
**To:** Preedy, Matt; Everett, Susan; Greco, Theresa  
**Subject:** RE: Bored Tunnel Contracting Options Schedules: Issues that have Arisen Since Meeting Yesterday

I just wanted to share a few thoughts between us.

I see this as a necessary exercise to both inform and help document our recommendation to Ron and Jerry. That said, I want to make sure we are all clear that this is not a democratic vote by any means, we (meaning the 4 of us) will be solely responsible for the ultimate recommendation, which is highly unlikely to have 100% consensus. Remember, our recommendation will need to meet our execs expectations, and that is meeting a very aggressive schedule. I have significant reservations on some of the approaches advocates for in the discussion, but will be patient and wait to see the outcome of the scheduling effort first. Some of the approaches advocated for will almost certainly push us beyond open in 2015 (which we are expected to come as close as possible to meeting), others will likely create too much risk due to too many overlapping contracts within the tunnel.

Ultimately there is probably quite a bit of risk any which way we go with this (right?), but we know that and are thus responsible for managing and allocating risk strategically as we move forward, to ensure we achieve successful bids. There are plenty of national/international joint ventures delivering \$800M +/- projects, so it's not like there is not precedent. The problems primarily center around risk management/allocation, bonding, and insurance.

John

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**From:** Jarnagan, Harry (Consultant)  
**Sent:** Wednesday, April 15, 2009 5:56 AM  
**To:** Preedy, Matt; Everett, Susan  
**Cc:** White, John; Greco, Theresa; Phelps, Don (Consultant); Oblas, Vic (Consultant); Ludington, Chris (Consultant); Smith, Brian (Consultant)  
**Subject:** Bored Tunnel Contracting Options Schedules: Issues that have Arisen Since Meeting Yesterday  
**Importance:** High

Matt and Susan,

Shortly after our group meeting yesterday, Don Phelps, Vic Oblas, Chris Ludington, Brian Smith, and I met to commence work on the various contracting options schedules that are required to be reviewed early next week. Per your direction, we are making you aware of the following issues. I would have preferred to meet with you personally, but your schedules for the next few days did not show any available time for this, so I am sending these to you via this email:

1. UTILITIES:

- There may be a case to be made for including utilities relocation scope into the South Portal TBM Launch

contract. This is because:

- We won't know the definite scope of utilities relocation required until an appropriate level of design is completed by the DB Contractor.
  - It's possible that utilities will not require relocation per se, but only will need to be supported in-place.
- One possible method of managing utilities relocation would be to:
    - Complete a higher level of design for the utilities than for other portions of the tunnel to ensure a more complete knowledge of the required utilities relocation scope.
    - Plan to relocate the utilities in the field in advance.
    - In the RFP documents to the short-listed DB Contractors, strictly define the South Portal limits and indicate that utility interferences will be cleared within that envelope.
    - Associated with the bullet immediately above, tell the short-listed DB Contractors in the RFP document that they proceed at their own risk if they choose to work outside of the defined South Portal limits.
  - In addition to the utilities in the immediate area of the TBM launch site, it's likely that the City will require the relocation of utilities in that area where the tunnel is vertically close (i.e., from King to vicinity Cherry Street). These utilities could be affected by the tunnel settlement trough, and soil grouting could infiltrate the utility lines. Vic Oblas' experience on the Bus Tunnel was that the City required utility relocation along Third Avenue for similar reasons then, and it's likely that this will be repeated on our tunnel project.

2. TBM EXTRACTION PIT: It makes no sense to include the TBM Extraction Pit scope anywhere but in the North Portal scope. Options 1A and 1B envision that the Extraction Pit scope be included with the tunnel bore contract, and this is not advisable.

3. NORTH-TO-SOUTH TUNNEL BORE: One option not fully investigated, but which might have advantages, is to launch the TBM at the North Portal, and then drive southward. One advantage to consider is that there are no utilities to relocate in advance in that area, allowing more time to deal with the utilities in the South Portal footprint. There may be right-of-way acquisition disadvantages. The team suggests that this option be investigated along with the other options.

4. NO SEPARATE SCHEDULE FOR OPTION 1C: Option 1C is very similar in concept to Option 1B, so the schedule development team is not planning to present a separate schedule for 1C.

5. TIME FOR NEXT REVIEW MEETING: Don Phelps and Vic Oblas will both be fully engaged in a tunnel workshop on Wednesday and Thursday of this week, and both of them have unavoidable conflicts on Friday. They request that the timing of the next schedule review meeting be moved to the afternoon of Tuesday, April 21st, instead of Monday, April 20th.

Please let us know if you have any comments on the above. Thanks.

***Harry Jarnagan***  
***Deputy Program Manager***

***Alaskan Way Viaduct &  
Seawall Replacement Program  
Seattle, WA***

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Cell: 209-327-8577***

--Forwarded Message Attachment--

Subject: Meeting Minutes and White Board Photos from Tunnel Contract Discussion of 4/14/09

6/19/2009

Date: Wed, 15 Apr 2009 05:30:52 -0700  
From: JarnagH@consultant.wsdot.wa.gov  
To: RigsbyM@consultant.wsdot.wa.gov; WhiteJH@wsdot.wa.gov; PreedyM@WSDOT.WA.GOV;  
WilliAR@WSDOT.WA.GOV; EverettS@WSDOT.WA.GOV; PhelpsD@consultant.wsdot.wa.gov;  
ParkerHa@consultant.wsdot.wa.gov; DyerB@WSDOT.WA.GOV; GrecoT@WSDOT.WA.GOV;  
ConteR@consultant.wsdot.wa.gov; OblasV@consultant.wsdot.wa.gov  
CC: LudingC@consultant.wsdot.wa.gov; SmitBr@consultant.wsdot.wa.gov

Attached below are my minutes of the subject meeting held yesterday, plus photos of the white board notes made during the meeting. Request that the addressees on this email review these minutes and let me know if you have any comments or questions.

Thanks.

<<Bored Tunnel Contracting Options Meeting Minutes (Draft) 4-14-09.doc>>

**Harry Jarnagan**  
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