

**DEPARTMENT OF TRANSPORTATION - District 4 Toll Bridge Program**

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July 31, 2009

Contract No. 04-0120F4

04-SF-80-13.2 / 13.9

Self-Anchored Suspension Bridge

Letter No. 05.03.01-004780

Michael Flowers  
Project Executive  
American Bridge/Fluor, A JV  
375 Burma Road  
Oakland, CA 94607

Dear Michael Flowers,

**Submittal 1233, Rev. 0 & 1 - June 2009 Proposed Revision Schedule**

The Department has completed review of Submittals ABF-SUB-001233R00 and ABF-SUB-001233R01, "June 20, 2009 Proposed Revised Schedule." The monthly schedule presentation was held on July 15, 2009, and a revised schedule was submitted on July 25, 2009. It is noted that Submittal 1233R01 supersedes Submittal 1233R00. The current schedule forecast for project completion is over 12 months beyond the current accepted project completion date of August 8, 2013. The majority of these impacts to project completion are associated with OBG east end issues. It is recognized that the proposed June revision schedule includes ABF's current estimate of OBG east end shop drawing and fabrication durations without an allocation of responsibility for the increase in durations. The Department will continue to work with ABF to develop mitigation measures and other workarounds in an effort to minimize project impacts regardless of responsibility. The June schedule revision is found to be "Accepted as Noted" with the following comments:

**CATEGORY B:****B1. Unsubstantiated Changes in Activity Original Durations**

- Original Durations (ODs) were modified on 248-activities without explanation. For example, no explanation was provided for changing the OD from 120-days to 715-days for Activity W2FAB000180, "Fabricate Spherical Bushing Ring Bearing (Hinge K) - W2 Cap Beam." Provide explanation of original duration changes ([See ActivitiesWithModifiedOD.pdf](#)).
- Many of these changes affect the critical path and/or are associated with east end OBG fabrication. Substantiation, justification and mitigation of potential impacts have not been provided as requested in State Letter 05.03.01-004355 dated June 15, 2009. Example activities include:

Activity ID	Name	Previous OD (days)	Current OD (days)	OD Delta (days)
L14WGFAB025	Lift 14 West - Fabrication of Parts / Components	50	99	49
L14WGPAI045	Blast Cleaning & Painting (Prime) - Lift 14W	10	24	14
L14WGPAI050	Blast Cleaning & Painting (Final Coats) - Lift 14W	12	25	13
L14WGPAI055	Blast Cleaning & Painting (Final Coats) - Lift 14E	12	25	13
L14WGPAR025	Lift 14 West - Parts Assembling	60	123	63
L14WGSEG025	Lift 14 West - Segment Assembling	65	159	94
L14WGSHO065	Lift 14 West - Assemble to Lift	20	38	18
L14WGSHO075	Lift 14 - Assemble to Crossbeam 19	10	12	2

## **B2. Prepare Vessel Activities**

The "Prepare Vessel" activities associated with the shipments have been removed from the June 2009 schedule and show that a vessel can be inspected and loaded as soon as the components are ready. A vessel should not be loaded until it has been prepared per the sea transportation plan. ABF elected to prepare a separate sea transportation plan for each permanent works voyage. The June 2009 schedule does not include these submittals. Add the "Prepare Sea Transportation Plan" and reinstate "Prepare Vessel" activities for each shipment.

## **B3. CCO 67 Additional T1 Tower Base Template**

The June 2009 schedule does not include the fabrication of the second base template that is currently in fabrication at ZPMC. The Department is especially interested in knowing the planned delivery date. Add the remaining pertinent activities associated with the second T1 Tower base template.

## **B4. Activity Coding for Added Activities in Main Schedule**

69-activities were added in the June 2009 schedule without regard to the naming convention established during the development of the baseline schedule. Revise activity IDs according to the established naming convention.

## **B5. Shear Leg Crane Resource**

- ABF has re-evaluated the activities that were originally using the Shear Leg and have determined that there are 82-activities that no longer require its use. Review these activities and apply the appropriate resources.
- ABF defined the resource units as hours when resource leveling was introduced in the January 2008 schedule. The newly added Shear Leg Crane resource (SLC) is assigned as a non-labor resource with a limit of 1/day which means 1 hour/day and not 1 shearleg/day as ABF intended. Therefore, the resource limit needs to be changed to 8 or 16/day. The remaining resource units for the activities using the shear leg will also need to be revised.

## **B6. Statusing CT Approve Activities**

There are currently numerous "CT Approve" activities starting on June 20, 2009 (data date) that have actually been approved. It is important to prevent out of sequence activities and improper forecasting. A list of the "CT Approve" activities and their approval dates per PMIV is provided in the attachment ([See CTApprovedDates.pdf](#)).

## **B7. Activities with Duration Greater than 20 Days**

There are numerous activities scheduled to begin within six months with durations greater than 20 days ([See Greatherthan20Days\\_June2009.pdf](#)). The attached spreadsheet indicates which of these activities require more detail. These activities need to be detailed so that better projected schedule dates are provided and improve the reliability of the schedule. It is suggested that ABF choose a block or grouping of activities on a monthly basis which need to be broken down and make the necessary adjustments, and/or discuss this list at our weekly meetings and agree which items need further breakdown.

## **B8. East End Details**

OBG fabrication for the East End has yet to be detailed out to the same level of detail as Lifts 1-11. It is noted that ABF is planning to add detail to the existing East End fabrication activities in future revisions. This is a necessary step prior to evaluating any changed conditions.

**B9. Bid Item Costs**

The contract requires that the total of all activity costs equal the total contract bid amount. The deletion of numerous activities in recent months has caused the total activity costs in the June 2009 schedule to be approximately \$361M less than the contract price. This information is used in the quarterly DRB updates; therefore, it is important that it is updated.

**B10. Active Activities With No Progress This Period**

This submission contains 189 active activities which report no progress during the reporting period (See attachment Activities With No Progress This Period June 2009). Fabrication activities should normally have a diminishing remaining duration until delivery. These activities should be checked to see that the status was not overlooked. The narrative should contain an explanation for the lack of progress in specific areas of the work and include a plan to correct the slippage.

**B11. Temporary PWS Systems Start**

The schedule currently shows that the cable system temporary work cannot begin until OBG and crossbeam erection is completed. It is our understanding that the temporary PWS system can actually begin after erection of the Tower and Lift 12. This could be a time savings of approximately two months. Review and revise logic accordingly.

**B12. Bike Path Installation**

The Schedule shows installation of bike paths for Lifts 13 and 14 prior to "install & weld east Anchorage BG fill-in." As requested in Item B9 of State letter 05.03.01-004407, revise accordingly.

**B13. Lift 12 Box Girder Fill In Piece**

The corner assembly for Lift 12 segment B & C will be installed in the field after cable compaction. Add the appropriate activities and appropriate logic ties.

ABF's recent efforts to achieve a revised project schedule are recognized. As previously agreed, an acceptable project schedule is required to be updated and submitted monthly. In addition, ABF is required to submit a proposed revision schedule whenever a change in the future portion of the schedule modifies logic, adds or deletes activities, or alters activities, sequences, or durations. Proposed changes to the accepted schedule should be discussed during the weekly meetings to expedite reviews.

Sincerely,



GARY PURSELL  
Resident Engineer

Attachment

cc: Don Ross, Bill Shedd  
file: 05.03.01, 26.05