

**Summary Minutes Of The
AASHTO Virtis Opis Task Force Meeting**

January 11, 2012

Ft. Lauderdale, FL

Table of Contents

| | |
|--|---|
| Table of Contents..... | 1 |
| General Information – Meeting of the BRIDGEWare Task Force | 3 |
| General Discussion | 3 |
| Review Agenda / Assign minutes recorder..... | 3 |
| Prior business..... | 3 |
| Review October meeting minutes | 3 |
| Agenda Item VO-02: Financial overview and work plan summary | 3 |
| Update on Phase 15 | 3 |
| Update on Phase 16 | 3 |
| Update on Virtis/Opis Licensees (FY 11-12) | 4 |
| Product Report..... | 4 |
| Service Unit report | 4 |
| Support and Maintenance report..... | 4 |
| Incident and support summary | 4 |
| Progress on bug resolution | 4 |
| Enhancement list update..... | 4 |
| Developer Studio Service Pack | 4 |
| Update on 6.4..... | 4 |
| Progress and schedule review..... | 4 |
| Draft Alpha Test Plan..... | 4 |
| Beta Testing | 4 |
| Migration Wizard for Sybase database..... | 4 |
| Enhancements | 5 |
| NSG Library Guidance..... | 5 |
| Capacity Override | 5 |
| Spec documentation cost estimate..... | 5 |
| Bridge Explorer Customization update | 5 |
| R/C web and flange variation..... | 5 |
| Montana Corrugated Metal Deck – Phase 2..... | 5 |
| Adjacent Vehicle Rating | 5 |
| Additional Stringer and Floor-beam Configurations..... | 5 |
| 3D Analysis of Curved Multi-Girder Superstructure | 5 |
| List of enhancements that will be sent to agencies for SU solicitation | 5 |
| Agenda Item VO-09: Work Plan | 6 |
| FY 11 and FY 12 draft amendments | 6 |
| FY 13 draft work plan | 6 |
| Future work plans – “Automatic Ballot System” | 6 |
| Miscellaneous Topics | 6 |
| OkiePro DLL maintenance..... | 6 |
| TAG members | 6 |
| WisDOT Culvert maintenance | 6 |
| TAG Checklist..... | 7 |
| Third-party liaison | 7 |
| Research License Option..... | 7 |
| Std Engine Script..... | 7 |
| Formation of Reports TAG | 7 |



User Group7
 Summary Minutes from Santa Fe.....7
 User Forum.....7
Review Action item list from this meeting7
TF Executive Session as needed7
Summary of Upcoming Activities7



General Information – Meeting of the BRIDGEWare Task Force

Date: Wednesday, January 11, 2012

Participants:

| | | | |
|---------------------------------|--|---|------------|
| BRIDGEWare Task Force AASHTO | Alaeddin Mohseni | Project Manager | BRIDGEWare |
| SCOJD T&AA | Dan Buhler Wally Ballou | Manitoba T&GS Kansas DOT | |
| V/O Task Force | Tim Armbrecht Dean Teal Bryan Silvis Joshua Sletten Amjad Waheed Tom Saad | Illinois DOT Kansas DOT Virginia DOT Utah DOT Ohio DOT FHWA Liaison Midwest Resource Center | Chair |
| PONTIS Task Force | Mark Faulhaber Francois Ghanem Ralph Phillips | Kentucky DOT New York DOT Connecticut DOT | |
| Contractor | Jim Duray Herman Lee | Baker Baker | |

Notes Taker: Dean Teal

The October meeting minutes were approved pending these changes.

General Discussion

Began at 1:00 PM Wed.

Review Agenda / Assign minutes recorder

Following items were added to the Agenda by Baker.

1. Michigan enhancement for additional stringers and floor beam configurations
2. Curved girder estimate
3. List of enhancements that will be sent to agencies for SU solicitation

One item was added by Tim A.

1. Formation of Reports TAG

Dean Teal was assigned as the minutes recorder

Prior business

Review October meeting minutes

The contractor pointed out an error on page 8, item 4a – it states that Jim D informed --- but should read Herman L informed

It was noted that Attachment A needs editing

1. Remove Jeff Campbell and replace with Herman Lee
2. Remove Bridge Tech, Inc. and Jay Puckett

Agenda Item VO-02: Financial overview and work plan summary

Update on Phase 15

Baker summarized the report. Most of the User Interface work is complete for RC Culvert.

Update on Phase 16

The contractor summarized the report. The following items were called to the attention of the Task Force

- FP5 is about half way developed.
- It looks like the TM tasks will be coming in slightly under budget. Some TM funding may need to be shifted, but does not require an amendment and can be tracked in meeting minutes.
- Travel costs will be coming in close to budget.
- Overall the contractor didn't feel that there will be any surprises.
- It was noted that the move to JIRA will be a TM1 cost but indicated this will neither cost much nor go over budget.



Update on Virtis/Opis Licensees (FY 11-12)

Product Report

Three agencies haven't renewed Virtis, Opis or both products yet.

Service Unit report

The Task Force agreed that this report is still not accurate – to call out just a few of the obvious items:

- Alabama and Virginia SU's haven't been deducted for the slab system enhancement
- Illinois SU's don't appear to have enough in the donated column.

Ala stated that 78 SU's still need to be transferred from SU's to the V/O account.

Support and Maintenance report

Incident and support summary

The contractor indicated that we have 5 critical bugs including the late addition by Bryan last week.

- 10459
- 10642
- 10837
- 10960
- 11135

The contractor confirmed that all of the bugs included in the report made the deadline for their fixes to be included in the 6.4 release.

Progress on bug resolution

The contractor presented this handout: There was no discussion to follow.

Enhancement list update

Enhancement List discussion:

- The contractor indicated that VI# 9359, Point Load Capacity for Pin and Hanger is no longer slated for version 6.4; it will be in a later release (not yet determined). They also indicated that the task has increased in scope and the originally estimated cost is not correct anymore. A new estimate was not available at that time. See 'Enhancements' for discussion of additional work required.

Bucket List discussion:

- As our bigger tasks wind down over the next 2 years it is felt that we can add entire buckets to the work plan as Task Force funded enhancements. In particular, bucket #9343 (Substructure – Original Functionality Missing) and the Maintenance Bucket were mentioned.
- It was agreed that the VSE Bucket # 9349 can be removed being this engine will not be supported any further. Any enhancements made to the VSE will have to be agency funded.

- VI # 7974 that is currently in the VSE bucket will be moved to the Maintenance Bucket. This bucket currently doesn't have a number.

Developer Studio Service Pack

The contractor informed the Task Force that they have moved to the latest Developer Studio Service Pack, 2010 SP1.

Update on 6.4

Progress and schedule review

The 6.4 progress report was presented by the contractor. They indicated that it was proceeding on schedule with 5 of the smaller enhancements already alpha tested. It was reported that they should finish development by the end of March.

The big 3 will be finished in the following order:

1. Culvert
2. 3D
3. Drilled Shafts

The beta build will proceed the last week of May as long as they stay on the current schedule.

Bryan asked the contractor "what would have happened to the schedule if they hadn't started development on the big 3 above earlier"?

The contractor indicated they would most certainly not be on schedule. Starting early was a good decision.

Draft Alpha Test Plan

The Draft Alpha Test Plan can be viewed in SharePoint and Alpha Test Plan will be sent to the Task Force around the end of January.

Beta Testing

In order to keep all the enhancements and features the Task Force wants in version 6.4, the scheduled release is moved back to August 17th. Based on the new release date, beta testing should begin the last week of May.

The new release schedule forces the beta testing to the end of May. We will be asking the TAG who can participate if we start Tuesday May 29th at 1:00 PM (day after Memorial Day) and test through Friday afternoon about 5 PM.

Migration Wizard for Sybase database

Sybase will not be supported anymore. It was thought that this warning was in last year's catalog or in the newsletter.

- The Task Force recommends not including the Sybase migration wizard in 6.4



Enhancements

NSG Library Guidance

An email chain between the Contractor and two user states was reviewed that explained that the truck library didn't work for user defined trucks in a way that was acceptable. It was found that in order for a user to enter a user defined truck and have it available for future use the user needed full Read/Write/Delete library privileges. The contractor indicated that the current privilege set up was not correct and needed refining.

It was felt that the Task force could use TM1 to fund this. The contractor indicated that it may be as simple as adding/modifying one line of code.

Capacity Override

The handout provided by the Contractor indicates what values would appear in the table and where they would be placed to alert the user a capacity has been overridden.

- This is expected to go in the 6.5 work plan.
- Using asterisks instead of additional columns to indicate override values would still require updates to every table and have a similar cost. Override values in separate columns are more visible.
- Will be added to the list of enhancements that will be sent to agencies for SU solicitation.

Spec documentation cost estimate

This is currently not in a work plan

- Will be added to the list of enhancements that will be sent to agencies for SU solicitation

Bridge Explorer Customization update

This enhancement would add 10 customizable fields

- Will be added to the list of enhancements that will be sent to agencies for SU solicitation.
- Since fields are customizable, there could be some confusion if Consultants are not using the same labels as the agencies they are working for.

R/C web and flange variation

The contractor presented the dialog between him and Caltrans. At one time Michigan had asked Caltrans if they would share the costs on a similar enhancement (thicker PS webs). The Task force considered cost sharing if additional Service Unit funding was provided.

Montana Corrugated Metal Deck – Phase 2

The additional funding to include this feature (tentatively in 6.5) was discussed during the work plan discussion.

- The Task force previously agreed to fund Phase 2 of this enhancement

Adjacent Vehicle Rating

This was VI #10776

- The TAG reviewed this enhancement and commented back to the Contractor. A handout provided contained the summary of TAG comments and Contractor responses.
- Due to the TAG comments the Contractor was asked to suspend work on this enhancement until further notice.
- Tim has a concern that the enhancement work as a result of the TAG comments may not do what was originally intended when this enhancement was proposed. Tim asked for extra time to review with the Michigan DOT and Bala Sivakumar (HNTB) to determine the effect of the TAG comments.

Additional Stringer and Floor-beam Configurations

This was requested by Michigan. Michigan could possibly model using truss but wants to do it as floor-beam. This enhancement would not impact the 3D estimate as the 3D enhancement does not include floor systems.

3D Analysis of Curved Multi-Girder Superstructure

This enhancement builds on the 3D analysis currently being developed in 6.4

The big questions presented when you model curved bridges

- Should they be modeled flat?
- Should we enter forces by hand?

The contractor indicated the Spec's say that superelevation is not required and their in-house engineers do not include.

These questions will be run past the TAG for more input.

It was agreed that this estimate provides a good workable solution. The estimate included structures with both a tangent and curved portion and was developed for concentric girder spacing. It was felt this would be a good start for the first phase. When this mockup gets run past the TAG, they will be reminded what the original intent was for this enhancement and additional enhancements generated will be put in a future enhancement bucket.

List of enhancements that will be sent to agencies for SU solicitation

1. Spec Document
2. Capacity Override
3. Bridge Explorer Customization

Adjourned for the day at 5:10

Resumed at 8:10 Thursday

Agenda Item VO-09: Work Plan
FY 11 and FY 12 draft amendments

Amendment 3 Draft 2 (FY11)

The increased costs for this amendment are for drilled shaft and culvert which were driven by TAG comments

- The Drilled Shaft enhancement is going to use the Florida Pier approach
- There is no change in cost for either culvert or drilled shafts after the TF meeting in Santa Fe.
- The Amendment includes the changes to the Project Schedule previously agreed to.
- Ala verified that the money for this enhancement is available for this work
- All that is need to be done with this amendment is to remove the "Draft"

The Task Force recommends the paperwork is sent to the SCOJD and proceed with this amendment.

The Contractor wanted to modify FP1 by adding in 2 additional lines.

The bottom of page 3 explains the 5 FP tasks that have been added (FP's 18, 19, 20,21 and 22)

FP14 on page 16 will be reduced.

- This was requested by Michigan (LRFR item to calculate the lane load one time)
- Michigan wanted this be removed
- Being SU's were donated for this work, the additional funds will be held by the Task Force for future Michigan work

The Task Force recommends the paperwork is sent to the SCOJD and proceed with this amendment.

FY 13 draft work plan

The new work plan format was presented

- The Contractor went through the work plan one page at a time

Comment on the new format

- It appears that the FP numbers fell in line a lot better than the TM numbers did.

The Contractor was asked if they can get this work completed by the 2013 June 30th release. The Contractor felt that they could but did not have any excess capacity. TAG reviews, as in the past, could push them past the June 30th target.

Bryan asked whether the Contractor can find any ways to increase their capacity to advance any of the high priority requested enhancement and/or SU work if VDOT was

willing to provide funding. The Contractor was asked if they can hire more staff.

The Contractor indicated that they have authorization to hire 2 more people and are actively trying to fill those positions. But keep in mind, new hires do not hit the ground running and take some time to train.

The Task Force asked if we should leave some buffer room in the work plan for TAG comments. It was felt that if the TAG comments push the work load up past capacity we will possibly have to have a Phase 1 and Phase 2 release. Bryan expressed his feelings that he didn't like to have a Phase 1/2 approach and would rather see all work done in the same work plan. The Task Force agreed with Bryan.

A discussion was started by Ala to change how we do contracts.

- Break out large items into separate contracts in an attempt to stop extending work plans
- The Task Force insisted on keeping contracts linked to releases

The Contractor was asked how much excess capacity he thought they had in the 6.5 proposed work plan. They felt they only had 6 hours.

The Task Force agreed to leave all the items in the 6.5 work plan and create 2 contracts

1. Annual MSE Contract
 - o TM
 - o Integration Testing
 - o Fixed Price Maintenance
 - o Validation Testing
2. 6.5 Release Contract (contains everything else)

The 6.5 release contract will have an earlier start date with an end date of June 30th, 2013. This is with the understanding that the Task Force may want to make modifications (a flexible contract).

Future work plans – "Automatic Ballot System"

Deferred to April meeting

Miscellaneous Topics

OkiePro DLL maintenance

The Contractor will contact Oklahoma about updating the dll's for 6.3.

TAG members

Dean will send the Task Force a matrix of TAG member responsibilities.

WisDOT Culvert maintenance

The Contractor wanted to know what version of the culvert engine to use in 6.4



- Version 10 had a list of updated functionality but did not have a firm release date.
- The Task Force asked the Contractor if any of the TAG comments were reflected in version 10, and if not the Task force could simply incorporate version 9. The contractor indicated they were not.

- Have this TAG give a presentation at this year's VOBug with recommendations.
- People in the TAG need to cover all 3 products (Virtis, Opis, Substructure).
- A list of structure types will be needed being reports could be different.

It was agreed to use culvert version 9

TAG Checklist

The Contractor was told to proceed laying out checklists for other tasks as shown in handout provided at the meeting.

Third-party liaison

Josh was asked to be the Task Force member to serve as the 3rd party liaison.

The following 3rd party vendors were listed:

- Brian Goodrich with BridgeTech
- Benden Schaefer with BRASS
- Richard Pickings with BridgeSight, Inc.
- Ron Love with Bentley
- Intergraph (we did not know the contact)

Research License Option

This topic came up in Santa Fe and was in response to cover the research use in the Contractor's office. We discussed whether this needed to be expanded to cover universities and whether it needed to be in the catalog.

The issue on the fee for a Research License is support. The consultant license gets support through the state agency. It was felt that this will not be a good solution for a research license and we would have to increase the fees to cover support.

The Task Force discussed using the academic license which uses limited spans and limited number of girders. The Task Force didn't feel this solution would cover the need either.

It was suggested to add a note under the Work Station License that would read "For Research, a pro-rated option may be available upon request"

Std Engine Script

A script was proposed by the Contractor to change all VSE requests to the AASHTO engine
The Task Force directed the Contractor to get this work done and in 6.4.

Formation of Reports TAG

Amjad was asked to chair a newly formed Reports TAG.

- Have one face to face meeting to start with and maybe one to conclude.

User Group

Summary Minutes from Santa Fe

The Contractor will distribute the Word version for comments.

User Forum

Dean previously forwarded sample layouts to the Task force for comment. Access control was discussed. It was proposed that Agencies would request logons and provide credentials to Consultants. Site fees are believed to be fairly modest and will be billed annually. Todd Thompson, SDDOT, and Beckie Curtis, MIDOT, were asked to moderate.

Review Action item list from this meeting

Dean read the action items recorded during the meeting

TF Executive Session as needed

No Executive session

The meeting was adjourned on 1-12-2012 at 4:30 P.M.

