

Q&A for . . .

Comp Book/Plan Summary Boxes for Construction

Q: Will you be able to copy and paste the quantity? Or will you have to actually type quantity in if it's the same quantity as original plan?

A: Working with the Excel files, you will be able to copy/paste as needed.

Q: Where is the backup for "plan quantity" items? And where will plan quantity analysis go with the FE? It used to be in the comp book.

A: The backup is in the QTDSRD MicroStation file and the Excel file provided for the summary box.

Q: In the old comp books, the CEI was not to use colors for documentation. Is this the case or do we use red now to document changes?

A: The intent is to keep the same color markup convention:

- a) The PA and staff shall work in Black ink or Black pencil.
- b) The Initial Reviewer shall work in Red ink or Red pencil.
- c) The Overviewer shall work in Blue ink or Blue pencil.
- d) The DFEM shall work in Green ink or Green pencil.

Q: We would like to see end STA on area chain shapes or dimension?

A: The begin and end station are reported for every linear element and shape.

Q: Normally asphalt items are not documented in the field by area. Is the asphalt report going to change?

A: No, the asphalt will still be documented on the Asphalt Reports. The areas that may need changing are if the Design area needs changing.

Q: Has the requirement changed for black ink revisions only? When copies of the plans are made the red won't be shown.

A: These are the Excel files and will be able to show colors. You will not be able to see the colors on the plan sheets.

Q: The CEI's do not have access to MicroStation. Is that going to hinder us?

A: Not at this time. Paper markups will be allowed just as they are now.

Q: When this is implemented, the CEI will need to have MicroStation software, correct?

A: Eventually, I would imagine. However, it is not required at this time.

Q: Prep and Doc (now CPAM) indicates Final Plans in Black Ink or Black Pencil only. Any other colors are considered a procedural error. Is this requirement going to change?

A: Same color markup convention, see answer above.

Q: Will CEI's be required to have MicroStation? If so, will the Department be providing user training?

A: Eventually, I would imagine. However, it is not required at this time. The Department will be able to provide for in-house staff, but not consultants.

Q: How is the state going to afford the training for construction personnel to learn MicroStation.. and afford to pay for all the seats?

A: We already have licenses in the contract with Bentley. The training will most likely be provided through webinars and in house staff.

Q: And will any changes be needed for signed and sealed documents?

A: Yes, there is a new way for electronic signatures

Q: What about those FE staff and CCEI staff that do not have MicroStation on their computers?

A: The software can be loaded on in-house machines but CCEI will have to purchase and install.

Q: How about CEI who do not have MicroStation because they are not designers?

A: see answer above.

Q: What if there are any revisions from field? Are these electronic files be revised as well and will we work based on these revised sheets?

A: Yes you will revise the Excel Templates and then update the Link Data Manager(LDM) in MicroStation.

Q: Which position will be responsible for using MicroStation?

A: Would be an Office personnel capable of using MicroStation

Q: Will this presentation be made available on the web somewhere?

A: Yes. The webinar/link will be posted on the Construction Office's web page as well as on the ECSO website with the other 2 webinars related to the new summary box implementation.

Q: Prep & Doc Manual requires black ink only. Is this procedure going to be revised?

A: This procedure will stay the same, in the webinar we used other colors to reflect changes made by the District Final Estimates Office.

Q: Will all these files (CADD and Excel) be provided to the CEI's and Contractors at letting?

A: Yes.

Q: Will the CEI be required to purchase MicroStation software?

A: Yes

Q: We submit a hard copy of the final as-built but final estimates will have to pull up the electronic plans from where in order to see our excel updates? What gets scanned by who as far as the Excel workbook goes?

A: The new Digital Delivery process will include a Signed and Sealed PDF (s) of the plans, a zip file containing the specs, a zip file containing the CADD files, and a zip file of the Calculations folder. They will all be provided to bidders.

Q: So 29 original SQ pages printed out are probably doubled printed pages by the time the final estimate is completed and new SQ sheets are printed for the final as-builts?

A: Yes, but keep in mind you will just print to PDF for an electronic output.

Q: So how is it that you measure 13.6 tons of asphalt?

A: That was just an example shown. The BOE requires that the tonnage items be calculated in design to the tenth of a ton.

Q: Most of the Construction PA's do not have CADD.....will CO be providing that

A: The licenses are there for in-house staff. However, the Department cannot provide for the consultants as well.

Q: Our asphalt is not always reported exactly as the designer breaks down the areas but it appears we are to track and document each change to tonnage for each area??

A: No, you will just place the final tonnage quantity in the Final field. The Webinar showed the change for each area but this example should have been shown for Plan Quantity item and not the tonnage item.

Q: That is nice but it will put those people doing two year projects let this year in a disadvantage.

A: There will be continued training available when your project comes to a close.

Q: Will the District FE offices be expecting only the electronic files for quantities (no hard copies will be required)?

A: We expect there to be a long transition period. Hard copies, as you use today, will be accepted for quite some time.

Q: Please discuss structures qtys.

A: There is also a summary box for Structures items so the same basic process will be used.

Q: Will the Q&A's for this webinar be made available also?

A: Yes.

Q: How will the long training times taking attention away from ongoing projects be addressed? Who will be responsible for using MicroStation?

A: Training will be available as hand-on training at first with on-line training available at a later date. This training will be incorporated into the procedures and handbook.

Q: Thickness adjustments are not Change Orders they are line item adj.

A: correct.

Q: Can we add sheets to this excel workbook for our plan qty analysis, etc.?

A: Yes.

Q: Does all the final backup, designer backup, etc. get inserted in the plans or just kept on a share drive so everyone can access?

A: This will not be placed in the plans. They will remain with the project directory.

Q: When the final plans get stored in EDMS what happens to all the hyperlinks?

A: When converting to PDF the hyperlinks should convert also.

Q: What is the expectation for documentation for field measurements? Are they to be provided to the DFEO in hard copy or everything electronic?

A: Field measurements will be electronic.

Q: Do we still need to physically red check the final quantities on the final plans prior to submission to final estimates?

A: Yes

Q: Can you add more worksheets to the excel file given? (i.e. plan qty analysis sheet)

A: Yes.

Q: Will there be hands on training available specific to the whole new documentation procedure. Excel -LDM- to MicroStation to the final as built etc?

A: Yes.

Q: FYI Colors were defined in the Review and Administration Manual. PA and Staff - black ink or black pencil, Initial Reviewer Red Ink or Red Pencil, Overviewer Blue Ink or Blue Pencil, DFEM is Green Ink or Green Pencil. Per a recent meeting in District 1 - Field personnel is black only

A: That is correct these marking conventions will stay the same.

Q: When is the next training?

A: Not yet scheduled. We expect another session this fall.

Q: As a CSS, I do not have the power to sign and seal drawings so, will there be a CADD Technician added to the CEI staff?

A: The Project Manager would have that capability, just as in-house project the resident would sign and seal changes.

Q: Who would be required to maintain these summary boxes?

A: Final quantities would be recorded by field personnel or District Final Estimates Offices.

Q: Will software be provided by the Department? (The cost of MicroStation is approximately \$10,000 not including updates).

A: No.

Q: Who will be required to be trained in the future?

A: Anyone that may need to know how to document the changes to the Summary Box Templates.

Q: If there are two people i.e. CSS and CADD Technician maintaining the files, is it easy to upload another Overrun/Underrun Spreadsheet. In other words, the CADD Technician will not be keeping track of these quantities so he would have to be informed somehow?

A: The O's/U's report can be produced in an Excel format at anytime.

Q: All pay items are not plan quantities so, there will be potentially a lot of explanations for those as well.

A: The Templates Final Backup Worksheet is flexible enough to accommodate multiple inputs.

Q: Current computation books have back up attached and if you look at their quantity totals, the designer always seems to round up (Example: 42.1 LF and they show 43 LF). So, the MicroStation excel spreadsheets will more than likely have a lot of changes just because the designer has rounded up their quantity. What would you put for an explanation – Plan error?

A: There shouldn't be a big issue with the rounding.

Q: As a CSS, I do not have the power to sign and seal drawings so, will there be a CADD Technician added to the CEI staff?

A: Not necessarily, the Signing & Sealing will be performed by a Licensed P.E.

Q: Who would be required to maintain these summary boxes?

A: The CADD Office would be responsible for the updating of the layout or formatting, Construction offices would be responsible for qty and data input into them other than Designer data or information.

Q: Will software be provided by the Department? (The cost of MicroStation is approximately \$10,000 not including updates). The Department has licenses in a pool for in-house folks, CCEI and Contractor would have to purchase separately.

Who will be required to be trained in the future?

A: The training would reach out to those that would input data into the Summary Boxes.

Q: If there are two people i.e. CSS and CADD Technician maintaining the files, is it easy to upload another Overrun/Underrun Spreadsheet. In other words, the CADD Technician will not be keeping track of these quantities so he would have to be informed somehow?

A: Yes you could output the O's/U's multiple times if needed, but the information would need to be combined into one output.

Q: All pay items are not plan quantities so, there will be potentially a lot of explanations for those as well.

A: No problem, the O's/U's has room in the Excel file to add lines or continue to input data.