

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE



FROM Brent A. Story, PE, State Design Policy Engineer

DATE August 2, 2010

TO Distribution

SUBJECT CES and new Detailed Estimate Report in TRAQS

On March 1, 2010, the Chief Engineer's Office/Engineering Services implemented the new Trns*port Cost Estimation System (CES). The new system requires that all pay-items and quantities be entered into the CES software by design offices (or consultants) responsible for their respective plan elements. The Project Manager prompts each office (or consultant) to update quantities at strategic points in the PDP and the Office of Engineering Services prices the pay-items for in-house projects.

Concurrently with CES, the decision was made to remove the Detailed Estimate Sheet from future construction plan sets. This was done to reduce repetition of pay-items in the plans and the probability of errors in transmission; to eliminate redundancy in the plans. With the exception of structural plan sheets, pay-item numbers will only be shown in the contract proposal and subsequent plan sheets titled "Quantities Revised/Added by Amendment" and "Quantities Required on Construction". These changes were implemented with the March 1, 2010 release of the Plan Presentation Guide (PPG).

Since that time, District Construction Engineers have expressed a desire to continue to receive a hard-copy of the proposed pay-items and quantities for checking of the plans at field plan review and prior to the development of the bid proposal. Therefore, a new report has been created in TRAQS that provides the same format as a Detailed Estimate sheet, but in report format.

The report can be accessed through TRAQS by going to *Active Reporting/Div of Preconstruction/CES/DETAILED ESTIMATE*. The only information that must be entered is the PI Number of the desired project. Once the report appears, simply click on the printer icon for "Export to PDF for Printing" to save as a PDF file and to print.

The report should be produced by the Project Manager at the time of submitting plans for Final Field Plan Review and Final Plans Submission to Contracts Bidding Administration.

For reference, attached is the email (dated 2/2/10) implementing CES, and the description of past and current practices involving including pay-item numbers in the plans.

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From: Curtis, Gloria on behalf of Ross, Gerald
Sent: Tuesday, February 02, 2010 3:30 PM
To: Buchan, Ben; Golden, Keith; Howell, Thomas; McMurry, Russell; Story, Brent; Liles, Paul; Hilliard, Bobby; VanMeter, Darryl; Wishon, Ron; McDuffie, Todd; Mahoney, Robert; Kantner, Neil; Collins, Tony; Brewer, George; Smith, Alan; Millen, David; Rountree, Bill; Sheffield, Joe; Thomas, Brent; Griffin, Ralph (Sandy); Durrence, Glenn; Saxon, Brad; Odom, Dennis; Sager, Kent; Comer, DeWayne; Moore, David; Poole, Bryant; Lobdell, Mike; Lee, Scott; Zahul, Kathy; Baker, Jeff; Alexander, Angela; Bowman, Glenn; Copeland, Howard (Phil); McKissick, Gene; Gable, Terry; Kordys, Scott; Rice-Singleton, Genetha; Pitts, Eric; Hoge, David
Subject: Trns*port CES

Beginning March 1, 2010, all construction estimates for GDOT projects whether for Concept Cost Estimates, Annual Cost Estimates, PFPR Estimates, FFPR Estimates, and the Designer's Final Plan Cost Estimates shall be determined using Trns•port CES. The Cost Estimation System (CES) is a primary module for Trns•port for preparing Construction Cost Estimates. It is fully integrated with the other modules of the Trns•port system which has many key benefits to the Department.

The Office of Engineering Services will be preparing all **GDOT designed** Construction Cost Estimates in CES. The Project Team Members will have to enter pay items and quantities in CES and Engineering Services will enter unit costs. The current cost estimating program, DETEST, should not be used after March 1, 2010

All estimates for **Consultant designed** projects will be prepared by the Design Consultants at Project milestones and annually. The Office of Engineering Services will prepare the Final Plan cost estimate 18 weeks prior to Letting.

The template for all updated milestone costs shown on the ROADS website shall be submitted by the Project Manager to the Office of Engineering Services on each project at project milestones and annually. The template should not be used for the Final Plan Cost Estimate.

[http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/OtherResources/Programmed_Cost_Estimate Master_Form.pdf](http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/OtherResources/Programmed_Cost_Estimate_Master_Form.pdf)

Additionally, there are documents on Pccommon relating to the process, access to CES, etc. It is under the folder "CES (TrnsPort)".

Please forward to your staff.

If you have any questions, contact Ron Wishon or Gene McKissick with the Office of Engineering Services.

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Pay-items #s in the Plans

Date: August 2, 2010

Past Practice:

Final Plans (pre-bid)

1. Summary of Quantity Sheets were generated and updated by designer during Preliminary and Final Plan development.
2. Pay-items were generated out of the old Detailed Estimate Program and from cross reference from Mean Item Index.
3. Detailed Estimate Sheet was generated from merging TXT file into MicroStation (**Pay-items included**).
4. The Office of Construction Bidding Administration (CBA) cross referenced the Summary of Quantity Sheets against the Detailed Estimate Sheet and built the proposal from the pay-items listed on Detailed Estimate Sheet. CBA sends "Project Plans Review Discrepancy List" to designer if needed to correct discrepancies.

Advertisement/Notice to Contractors (4 wks prior to Letting)

1. Revisions to plans and proposal by Amendment-To-Contractors (**pay-items included**).
2. Designer submits Use-On-Construction (UOC) Revision to plans after the award (see below).

Post Award

Revision to plans by UOC Revision included:

- a) Letter to Contractor
- b) Revision Summary Sheet
- c) Quantities Revised/Added by Amendment (**pay-items included**)
- d) Quantities Required on Construction (**pay-items included**)
- e) Detailed Estimate (**pay-items included**)
- f) Summary of Quantities
- g) Plan Sheets (**pay-items included on signal plan sheets and bridge plan sheets**)

Current Practice:

Final Plans (pre-bid)

1. Summary of Quantity Sheets are generated and updated by designer during Preliminary and Final Plan development.
2. Designer generates pay-items from the Cost Estimation System (CES).
3. The Office of Construction Bidding Administration (CBA) converts CES to PES.
5. CBA cross references the Summary of Quantity Sheets against the PES to build the proposal. CBA sends "Project Plans Review Discrepancy List" to designer if needed to correct discrepancies.

Advertisement/Notice to Contractors (4 wks prior to Letting)

1. Revisions to plans and proposal by Amendment-To-Contractors (**pay-items included**).
2. Designer submits Use-On-Construction (UOC) Revision to plans after the award (see below).

Post Award

Revision to plans by UOC Revision to include:

- a) Letter to Contractor
- b) Revision Summary Sheet
- c) Quantities Revised/Added by Amendment (**pay-items included**)
- d) Quantities Required on Construction (**pay-items included**)
- e) Summary of Quantities
- f) Plan Sheets (**pay-items will continue to be on bridge/structural plan sheets**).