

**2) PS&E time** Plans submitted for letting are being reviewed for practical design at CO. Ideally, the core team (including the CO – Design Technical Support Engineer) has revisited or is currently revisiting all projects and making any revisions necessary to meet practical design before PS&E submittal. Just as the Districts, CO's job is to deliver the STIP. The CO Program Delivery PS&E review team is comprised of the following:

Dave Nichols	Jim Smith	Travis Koestner
Kathy Harvey	Charles Pursley	Ralph Rankin
Jay Bestgen	Bruce Green	
Paul Kelly	Tim Redmond	
Randy Hitt	Mike Stelzleni	

Each CO-Design Technical Support Engineer is required to review the final scope submitted at PS&E time by their respective District/s. The following is a list of some of the routine issues seen at PS&E time that we have been working with District staff to correct.

- Super pave on minor routes
- Bridge approach slabs on minor routes
- Full depth shoulders
- Shoulder paving on minor routes
- Pavement thicknesses exceeding existing
- Optional and Alternate pavement not used
- Bridge replacement projects with large quantities of pavement replacement
- Bridge widths excessive on minor routes
- Temporary bypasses
- Bridge stage construction instead of road closure
- Bridges design frequencies too high
- Bridge lengths longer than existing
- Safety zones on minor routes
- Un-balanced earthwork

A CO- Design engineer's final estimate is prepared for all projects before bid letting. The District PS&E estimate (bid history estimate) is compared to the CO-Design engineer's final estimate (cost based estimate) and the STIP program estimate (determined a variety of ways through the scoping process). Generally, projects submitted for letting with an CO-Design engineer's estimated cost 10% or more different than the STIP program budget are discussed with the District before bid opening to give the District a chance to make decisions impacting their current and future programming needs.

A project can be considered awardable when the CO – Design engineer's final estimate is similar to the contractor bid confirmed low. A project can be rejected if the bid is determined excessive when compared to the CO- Design engineer's final estimate, not when compared to the program estimate or the District PS&E estimate.