

Good day Materials Techs & Engineers!!! Welcome to another fun filled day with WSDOT!!!

As we begin to gear up for construction season, there are few topics that have popped up over the last construction season that need to be discussed.

There was and still is a considerable amount of interest of how Class 3000, Commercial Concrete, Job Site Mix and Prepackaged Concrete are defined and when it can be used.

Tip 1 Class 3000 Concrete:

Class 3000 Concrete must have Batch Plant approval, Mix Design approval and source approvals for cement, aggregate, and other admixtures per Stand Sec 6-02.3(2)A; however, Commercial Concrete can be substituted for Class 3000 for specific uses outlined in Stand. Spec. 6-02.3(2)B. Sign Post Foundations that have slip base foundations are considered structural and must have concrete that complies with the plan sheets of the contract and the standard plans that are referenced regardless of quantity. The Standard Plans that covered and are included with this are G-22.10-00, G-24.40-00, G-24.50.00 and G-25.10-00. Pre-packaged or “bagged” concrete is not Class 3000 concrete and can not be used as such.

Tip 2 Commercial Concrete:

Commercial Concrete does not require Batch Plant approval, Mix Design approval, or source approvals for cement, aggregate, and other admixtures per Stand Spec 6-02.3(2)B; however, it does require as a minimum a Batch Plant facility and Truck Delivery per Stand Spec. 6-02.3(5)A and B with the Truck Delivery ticket having at least the batching facility, date and quantity batched per load. Job Site Mix, Prepackaged or “bagged” concrete does not meet the specifications of Commercial Concrete and can not be used as Commercial Concrete.

Tip 3 Job Site Mixing:

Job Site mix is not a mix design and also not a class of concrete it is a process; however, it requires written permission from the Project Engineer in accordance with WSDOT Standard Specification 6-02.3(4)B, and it shall include a mix design, batching and mixing procedures and a list of equipment performing the job-site mixing. Job Site mixing using Prepackaged or “bagged” concrete is allowed for a limited number of applications in small quantities and for non-structural items per WSDOT Standard Specifications 6-02.3(4)B and requires documentation in accordance with the WSDOT Construction Manual Section 9-5.2C. The WSDOT HQ Materials Lab and HQ Construction are working on formalizing an acceptance process for prepackaged concrete, but for now the Prepackaged or “bagged” concrete will need to be approved on a RAM. When submitted on a RAM, the State Materials Laboratory may require a preliminary sample consisting of a bag of concrete mix.

Standard Specification 6-02.3(4)B – Jobsite Mixing

An addition to the section for “timber or steel tube sign posts (without slip/breakaway base)” and defines the Engineer as “The State Materials Lab”.

If you have any questions, please e-mail us or call.

Thanks for your time,
Craig Robertson
RAM Engineer
360.709.5403

PS If you wish not to receive this type of stuff in the future or know others that might enjoy it, then just let me know and I will add or delete as necessary.