WACA/WSDOT Meeting Minutes
For Wednesday, June 4, 2014

Day/Time: Wednesday, June 4, 2014 at 9:30 AM – Noon
Location: WACA’s Office in Des Moines

In attendance:
Mike Polodna, WSDOT
David Jones, WSDOT
Rob Shogren, Lafarge
Michael Craig, Concrete Nor’ West
Tamson Omps, CalPortland
Kevin Wolf, CalPortland
Craig Matteson, CPM-Oldcastle
Monica Jones, Lafarge
Steve Wittstock, CPM-Oldcastle
Dave Burg, Ash Grove
Allan Kramer, Lehigh
Scott Di Loreto, BASF
Bruce Chattin, WACA

Next WACA Meeting Date:
Wednesday, September 10, 2014 at WSDOT HQ Mats Lab, Main Conf Room, 9:30 AM – Noon

Future WACA Meetings Dates:
Wednesday, December 3, 2014 at WACA’s Office in Des Moines, 9:30 AM – Noon

Meeting Minutes are available at:
http://www.wsdot.wa.gov/Business/MaterialsLab/WACAMinutes.htm

New Issue: Quality Control Plans – David Jones
WSDOT is moving towards requiring QC plans from material suppliers. Discuss how this will affect WACA members.

6/4/14 – David Jones introduced himself to the group as the Assistant State Materials Engineer – Materials Quality and begin the discussion concerning Quality Control Plans (QCP) for both Aggregates and Concrete. The Department is going to require a QCP plans. The specification requirements for QCP’s will be in the form of things that need to be included in the QCP to be acceptable. David requested that the WACA members email him at jonesda@wsdot.wa.gov with what it is that they are currently doing for Quality Control, so he can begin the process of putting a draft specification together. The Department will be adopting the Western Alliance for Quality Transportation Construction (WAQTC) program for its Tester Qualification Program and will require the materials suppliers testers are also WAQTC or ACI Qualified as part of their QCP’s. It will take the Department about a year and half to two years to transition over to WAQTC. The Oregon DOT program was raised an example of program that works and should be looked.

Action Plan: everyone email David Jones current QC practices. David will look at the Oregon DOT process and take all this information to draft a specification for review.
Issue: WACA/WSDOT Priorities – Kurt Williams
Discuss results of poll of the group’s priorities.

6/4/14 – We received 6 votes, 2 of these were from the same company. The results were handed out. We will keep the results in mind as we work forward.

3/15/14 - Kurt reported that with WSDOT reducing staffing levels that they have fewer resources to address the issues discussed at this meeting. He proposed that WSDOT compile a list of active issues and conduct a poll of the group’s priorities. We could then work on the highest priorities and table the remaining issues.

Issue: Standard Specification 9-23.8 Waterproofing – Jason Brewer/Scott Diloreto
Are changes needed to this specification? Should WSDOT be specifying ASTM C 1585 instead of ASTM C 642?

6/4/14- This one came out of the survey as the lowest priority. There was a brief discussion of the issue. The Department is not interested in utilizing a European test procedure and asked if there were other National Standards.

3/5/14 – Kurt Williams stated that the proposed specification DIN 1048 is not usable. Jason Brewer will have a discussion with Prakash Surali to see if CRD C48 can be used instead.

12/11/13 – Mike and Scott have worked on the spec. Mike still needs to review the test procedure proposed by BASF (DIN 1048 Part 5).

Action Plan: Scott Di Loreto will contact Jason to get a list of other test procedures to consider.

Issue: Acceptance of Pumped Concrete – Bruce Chattin
It is well known that pumping can change the air content of the concrete. WSDOT requires that sampling be conducted from the end of the delivery system, after the concrete is pumped, and leaves it to the contractor to determine how to get it there within the required specification.

6/4/14 – This item came up number one on the survey. Bruce reported that he was not been able to find any performance standards for pumping equipment. He suggested going to the AGC structures team to discuss Best Management Practices and having the pumper, concrete supplier and contractor all at a pre-pour meeting to discuss all the issues. Bruce didn’t recall talking with Mark Gaines concerning the action item. David Jones agreed to ask Mark where we were with the specifications and when the next AGC Structures Team.

3/5/14 Mark has received no comments on his proposal from the December 11, 2013 meeting.
Bob Raynes suggested a hose size requirement based on the aggregate size in the mix and thinks that ACI has a document covering this. It was also suggested to add a maintenance requirement.

12/11/13 – Mark Gaines presented proposed changes to WSDOT Standard Specification 6-02.3(10)A Preconstruction Meeting and to WSDOT Construction Manual Section 6-2.3B Bridge Deck Construction requiring that a representative of the pumping company attend the preconstruction meeting. Minor changes to the wording of the specification were made during the meeting. No one objected to the changes so Mark was going to take the changes to the WSDOT/AGC meeting on Friday 12-13-13 and implement them if they are in agreement.

Bruce Chattin proposed adding language requiring the pumping equipment to be in “good working order”. Kurt stated that WSDOT would need an enforceable standard and asked if there was one available. No one knew of such a standard. WACA will propose spec language to enforce “good working order”.

Action Plan: Mark will check with Bruce Chattin and move forward with the proposed spec if they are in agreement, and will address pump maintenance at a later date. David Jones will check with Mark Gaines and have him contact Bruce with specification changes and when the next AGC Structures Team meeting is.

Issue: WSDOT Standard Specification 1-06.3 Manufacturer’s Certification of Compliance – Greg McKinnon

Greg McKinnon of Stoneway Concrete inquired if the “corporate official” part of this specification applies to concrete.

The Manufacturer’s Certificate of Compliance must identify the manufacturer, the type and quantity of material being certified, the applicable Specifications being affirmed, and the signature of a responsible corporate official of the manufacturer and include supporting mill tests or documents. A Manufacturer’s Certificate of Compliance shall be furnished with each lot of material delivered to the Work and the lot so certified shall be clearly identified in the certificate.”

6/4/14 – This item came up number two on the survey. Mike Polodna and David Jones reviewed CalPortland’s Dupont Plant with Kevin Wolf and Tamson Omps. Based on that review Mike revised the draft specification and included in the handout materials. The next step is to move the revised specification up through the Construction office for approval and inclusion in the specifications. It was decided to move it forward.


12/11/13 – Observe operation of a concrete plant in Dupont to determine how to proceed.

Action Plan: Mike will forward the specification on through David for review and final approval by the Construction Office.
**Issue: Changes to the Concrete Mix Design Form – Mike Polodna**

Items to be addressed include: location to enter chloride ion content; location for more break data and ACI 318 equations; add checkbox for 4000A mixes; contractor to indicate whether they are using Combined Gradation to include the NMS, or AASHTO Gradations; update the Notes section; clean up confusion on ASR results.

3/5/14 - Mike Polodna handed out the proposed mix design form that had been previously distributed for review and testing. Craig Matteson had previously submitted review comments, which have been addressed. Two other changes were proposed today: require Mix Design Density for all mixes, not just Concrete Pavement; Clarify that specific gravity for aggregates shall be in SSD conditions. Both of these changes will be made.

12/11/13 – Mike Polodna handed out proposed changes to the mix design form and asked for comments. He will make an electronic version available on the WSDOT forms website and asked people to experiment with it and let him know what they think.

**Action Plan:** Issue complete. The updated form will be available on WDOT website.

**Issue: Proposed Changes to Cement Acceptance Program (CAP) – Kurt Williams**

Review the proposed changes to CAP.

3/5/14 - WSDOT met with the cement producers and other interested parties on January 31 and reviewed the proposed changes. The changes will be distributed at the June meeting.

12/11/13 – Kurt proposed meeting with the cement suppliers before the next meeting to review the changes.

**Action Plan:** Issue complete. Changes in progress.

**Issue: Proposed Changes to the Pervious Concrete Specification – Bruce Chattin**

6/4/14 – This item came out third out of six on the survey list. At this point the Cities and Counties are using pervious concrete more than the state. Tamson Omps of CalPortland suggested that City of Auburn as having a good specification. They have a maximum W/C ratio, maximum aggregate size voids in the mix design per ASTM C 29. The flow test has been used. The Quality Acceptance tests are Unit weight and cores for depth. Compressive strength testing is reported to be problematic, as a result of the load distribution on the surface of the pervious concrete.

3/5/14 – WSDOT has not received the proposed changes.

12/11/13 – Bruce will send proposed changes to Kurt.
**Issue: Proposed Changes to 9-03.1(1) General Requirements – Kurt Williams**

ASTM C 1293 sampling and testing must be coordinated through the WSDOT State Materials Laboratory, Materials Quality Assurance Section utilizing the ASA (Aggregate Source Approval) process. Cost of sampling, testing, and processing will be borne by the source owner. The test results from ASTM C 1293 will be submitted to WSDOT when completed.

3/5/14 – WSDOT proposed adding a requirement that test results from ASTM C 1293 shall be submitted to WSDOT. See the changes above. No one voiced opposition.

**Action Plan: Issue complete. Specification change is in progress.**

**Issue: Proposed Changes to WSDOT Concrete Cylinder Test Reports – Craig Matteson**

Adding the concrete producer’s truck ticket number to the WSDOT transmittal and test report would greatly simplify matching contractor testing to WSDOT testing in the case of low breaks or other issues.

3/5/14 – Craig Matteson proposed that this be a high priority issue.

**Action Plan: To be incorporated into the new QC Plans Issue.**

**Issue: 4 X 4 Concrete Mixes – Peter Balick**

Peter stated that when using 4 X 4 concrete mixes on panel replacements the mix sets up so quickly that there is no time to have both the contractor and WSDOT do much testing. It was suggested that a test panel could be required and that these issues could be addressed in a special provision.

6/4/14 – Michael Craig, Nor’West did not want to take this off the agenda as it is an issue needs to be addressed. David Jones stated that this issue is on his desk to address and agreed to keep it on the agenda and report the progress. A general discussion occurred David mention the possibility of addressing it through mix design data for ASTM C 666. It was asked what durability level would be used and it was suggested that use a durability factor of 50%. It was also suggested that ACI would allow for a 1% reduction in air content if you have a compressive strength at 28 days of 6,000 psi. It was suggested that we didn’t want to raise the compressive strength for panel replacement jobs.

**Action Plan: David Jones will be working this issue and will report back to the Group.**

**New Issue: Statistical Acceptance of Concrete Aggregates – Bruce Chattin**

Similar to previous attempts to apply statistical analysis to acceptance to concrete products delivered, aggregates will have the same unequal applications specifically, with sampling, risk
and reward to the producers (all and none) and any bonuses are paid to the contractor not to supplier that earned them.

6/4/14 – Steve Wittstock pointed out it is possible to get a bonus for concrete pavement under Standard Specification section 5-05 (air content and compressive strength), only to have it taken away under aggregate evaluation in section 3-04. David suggested that the testing of concrete aggregates might also fall under our new QCP program for aggregates.

Other Issues raised at Meeting:

New Issue: Type IL Cement

6/4/14 – Fifteen to eighteen states allow.

New Issue: ACI is eliminating Section 5.3.2 in ACI 318 and consolidating this type of information in ACI 301.

6/4/14 - This requires a change in Standard Specification section 6-02.3(2)A Contractor Mix Design.
**Tabled Items**

**Issue: Trial Batches for Concrete Overlay Mixes in WSDOT 6-09.3(B & C – Craig Matteson**

The original concern about trial batches has been resolved. The remaining issue is whether a slag overlay will be included in the specifications.

3/5/14 Kurt Williams stated that the draft specification has been sent to the bridge office. Mark Gaines stated that the bridge office is looking at performance specs for all of their overlay mixes. Mark said that there are no overlays scheduled for 2 years, so this is a low priority for them.

12/11/13 – Kurt discussed this with the bridge office and they are going to performance specs for the overlay mixes. Rob Shogren will propose tests to include in the performance specs. A permeability limit will need to be included. Mark Gaines inquired about bond testing and will investigate if this should be included. Kevin Wolf said that ODOT used to run bond testing and no longer does so.

**Action Plan:** Action is required by the Bridge Office to change overlay mixes to performance specifications. Table this issue until