Materials & Tests Updates

2017 Contract Administration Workshops

Laboratory Consolidation and Concrete Design

Brian Hunter, PE – State Lab Operations Manager
Labotary Consolidation

• Why Consolidate?

- Better utilization of limited laboratory staff
- Standardization of laboratory operations
- Increasing our overall efficiency
What is different?

• Central Laboratory
  ➢ **One** manager will have the oversight of Technical Workgroups within the central laboratory
    ❖ Mehdi Haeri will oversee the Central Laboratory

• Regional Laboratories
  ➢ **Oversite** will be by **one** manager
    ❖ David Dunn will oversee the Regional Laboratories
Central Laboratory Workgroups

- **Structural Materials**
  - Day to day operation overseen by Sharon Freeman
    - Concrete, Metals, Plastics, Cementitious Related Tests
    - Concrete Mix Designs
    - Chemical Testing

- **GeoMaterials**
  - Day to day operation overseen by C. K. Su
    - Aggregate and Soil Related Tests

- **Asphalt Materials**
  - Day to day operation overseen by (Vacant)
    - Asphalt Related Tests
    - Asphalt Mix Designs
Central Laboratory Contact Information

NCDOT Materials and Tests Unit
1801 Blue Ridge Road
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https://connect.ncdot.gov/resources/Materials

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C. K. Su
GeoMaterials Supervisor
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cksu@ncdot.gov

Vacant
Asphalt Materials Supervisor
(919) 329-4063
Regional Laboratories

Current Locations
- Williamston
- Fayetteville
- Matthews
- Statesville
- Asheville

Future Locations
- Burgaw
- Greensboro or Lexington
Regional Laboratory Contact Information

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David Dunn
Regional Laboratory Engineer
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Vacant
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Vacant
Statesville Regional Lab Supervisor
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Vacant
Fayetteville Regional Lab Supervisor
(910) 486-1729

Vacant
Asheville Regional Lab Supervisor
(828) 298-0956

Ryan Richardson
Matthews Regional Lab Supervisor
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Concrete Mix Design Process

- **Current Process**

  - Concrete producer submits a mix design on the form 312U to be added to the HiCAMS database for that particular plant.
  
  - Contractor submits requested mixes to be used on a contract, on the form 312R, to the Resident Engineer’s office.
  
  - Resident Engineer forward the 312R to the Concrete Mix Design Engineer at the Materials and Tests Unit, who then assigned them in HiCAMS.
Concrete Mix Design Process

- **Current Issues with the process**
  - Who is the Concrete Mix Design Engineer now?
  - Limited staff
  - Need mix design assigned to project yesterday!
Concrete Mix Design Process

• **How are we going to fix the process?**

  ➢ New email account for all concrete mix design requests to go through.  
    [Concretedesigns@ncdot.gov](mailto:Concretedesigns@ncdot.gov)

  ➢ Several folks at the Materials and Tests Unit will have access to this account

  ➢ Developing a new concrete mix assignment process
Concrete Mix Design Process

• **What will the new process be?**

  ➤ At the beginning of the project the contractor will let the Materials and Tests Unit know which concrete plants they intend to use on the project.

  ➤ All approved mix designs assigned at these plants will be assigned to the contract.

  ❖ RE will not need to pass the request along

  ❖ No need to send a 312R every time the plant changes a material.