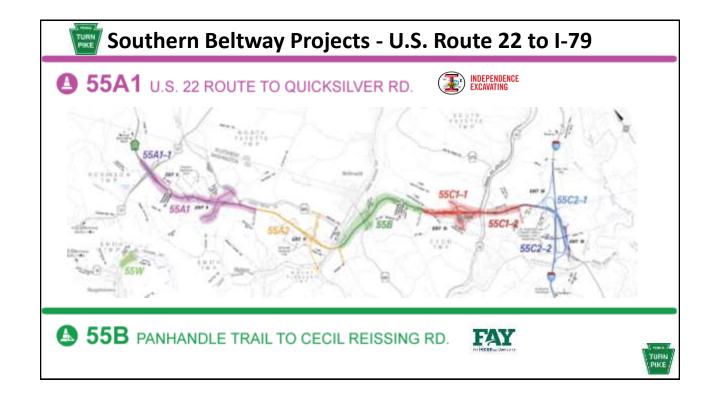
# **Just-In-Time Training**







## **Just-In-Time Training: JIT2**

#### **Contract Special Provision**

F27.00 PORTLAND CEMENT CONCRETE PAVEMENT TRAINING (ITEM: 4000-0048)

- 1. **DESCRIPTION** Just-in-time training (**JIT2**) is a formal class for joint training of Contractors, Commission employees, their agents, subcontractors and consultant inspectors that will be associated with the construction or rehabilitation of Portland cement concrete pavement projects.
- 2. SCOPE The training shall include, but not be limited to, concrete pavement basics, pre-paving considerations, long-life concrete pavement concepts, materials, best practices for concrete pavement construction, monitoring standard and innovative paving equipment and operations, quality control, measurement and materials testing protocols and procedures, available tools and software for monitoring work, and troubleshooting.



## JIT2 Participants



















### **JIT2 Attendees**

#### **Prime Contractor**

Owner

Project Manager

#### **Paving Contractor**

Owner

Project Manager

**Equipment Superintendent** 

Paving Superintendent

Paving Foreman

Paver Operator/Mechanic

**Paving Crew and Finishers** 

QC Manager

Concrete Plant Operator

QC Technicians (Plant and

Field)

Surveyors

#### **Sub-Contractors**

Saw and Sealing Contractor

Cement Supplier

Flyash/Slag Supplier

Admixture Supplier

Aggregate Supplier

Dowel Bar and Tie Bar Supplier

Joint Seal Supplier

**Trucking Companies** 

#### **Ownership**

Project Engineer

Assistant Project Engineer

Materials Supervisor

Materials Manager

Roadway Designer

#### **Consultant Engineering Firm**

Project Engineer

Project Manager

Inspector In Charge

Field Inspection Staff





## JIT2 Section 55A1







Presenters: John Becker, P.E. and Richard Jucha, P.E. **PA Chapter ACPA** 



## **JIT2 Section 55B**

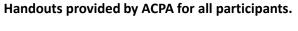




Presenters: John Becker, P.E. and Richard Jucha, P.E. - PA Chapter ACPA Gordon Smith, P.E. - National Conc. Pavement Technology Center, Iowa State University

### **Reference Materials**











## **JIT2 Purpose/Focus**

#### ➤ Review Best Practices in Concrete Technologies

## **Topics Discussed**

- 1. Explanation of the JIT2 Training
- Identify the Responsible Parties and Their Function
- 3. Review the Project
- 4. Discuss the Process for Concrete Paving
- 5. Discuss the Long Life Concrete Mix Design

- 6. Review the Plan for Concrete Placement
- 7. Quality Control Testing (Field and Plant)
- 8. Safety
- 9. Best Practices
- 10. Trouble Shooting
- 11. Open Questions and Discussion



# Participants Comments (JIT2 Benefits)

- Identified the Agencies Expectations
- Characteristics of Long Life Conc. Pavement
- Identified the persons involved and their rolls
- Improved understanding of placement plan
- Good Quality Control Discussion
- Helped to improve communication
- Helped get everyone on the same page
- Focused on paying attention to the details

## (JIT2 Concerns)

- Better participation/attendance by Contractor and Agency Representatives
- Review of Producer QC Plan



#### **Lessons Learned**

#### First Day of Paving – Sec. 55A1

- 1. Basic review of field acceptance testing protocol.
  - ✓ Contractor unclear concerning location of acceptance testing.
- 2. Review of documentation required by field inspection staff.
  - ✓ The need to send the individual batch tickets with each truck to the paver.
- 3. Need for additional review of the AASHTO T318 test protocol and resulting data.
  - ✓ Point of sampling and comparability to plant W/C Ratio





## Thank you

Sec. 55A1 JIT2 training pictures Courtesy of Rich Jucha, ACPA