

KYTC IC Project - Meeting # 1

FHWA Intelligent Compaction HMA In-Place Density Study

- KY IC Field Project

Date: April 23, 2014, Time: 1:00PM-2:00PM EDT

Attendees:

George Chang, Transtec Group (PI of the FHWA IC project)

David Hunsucker, UKY

Clark Graves, UKY

Paul Looney, KYTC

Allen Myers, KYTC

Adam Clements, KYTC

Adam Ross, KYTC

Jason Siwula, KYTC

Mike Law, Scotty's Contracting & Stone

Jonathan Kemp, Scotty's Contracting & Stone

Kenny Reynolds, Scotty's Contracting & Stone

Summary and Action Items

The followings were covered:

- Introduction of the FHWA IC – HMA In-Place density project
- IC field project activities: ½ day setup/verification/trial runs (IC/GPS vendors only), 3 days field IC demo, ½ day Open House
- Responsibilities of FHWA IC team, IC/GPS vendors, DOT, and paving contractor

The candidate project:

- The project is located at I-65 in Hart County between Horse Cave and Munfordville (MP 58 – MP 65).
- Paving is under way in the median that consists of full depth widening and will continue throughout the summer 2014.
- The following is the typical section for this portion of the job (***) indicates the lifts of asphalt to be constructed:
 - 1.5" 0.38A CL\$ 76-22 (Fall 2015)
 - 3.0" 1.0D CL4 76-22 ***
 - 3.5" 1.0D CL4 64-22 ***
 - 4.5" 1.5D CL4 64-22 ***
 - 4.5" 1.5D CL4 64-22 ***
 - 6" ATDB
 - 7" DGA
- The target layer construction for this FHWA IC study will be on the base course or intermediate course of the asphalt layers.
- Day time operation is expected.
- The tentative schedule for this FHWA IC study is in around mid-July 2014. The exact dates shall be confirmed 6-8 weeks prior to IC demo.

DOT - KYTC:

- KYTC will coordinate with the district and paving contractor to provide at least one nuclear density gauge and an operator during the 3-day IC field demo.
- KYTC will coordinate with the district and paving contractor to provide 2-3 coring rigs during the latter half of Day 2 IC field demo to obtain 60 cores within a 1500-ft test section marked by the FHWA IC team.
- KYTC will consider providing FWD and GPR tests within the above 1500-ft test section on Day 2.
- KYTC will coordinate with the district asphalt labs conduct bulk density of the 60 cores taken from this project and complete testing within 3 weeks and provide the results to the FHWA IC team. NB: these operations and core results will not replace the current acceptance tests.
- KYTC will select a facility (either a district office or community center) near the jobsite for the Open House on Day 4 (8AM to noon) of the IC field demo. KYTC will provide the address to the FHWA IC team. The facility would hold 40+ participants with an adjacent parking facility for the static show-and-tell of IC/GPS/LWA-a equipment. Once FHWA IC team prepares an online webpage for the online registration, KYTC will broadcast it to the KYTC staff, cities/counties, APA, contractors, and etc. to promote the event.
- KYTC will designate a key contact for this IC demo and Open House.

Contractor - Scotty's Contracting & Stone:

- Contractor will provide schedule update and select the exact week for the IC field demo after this demo is approved by the FHWA.
- Contractor will work with KYTC project manager and FHWA team to select 2 IC rollers to replace their breakdown and intermediate roller during IC field demo.
- Contractor will designate a key contact person (with cellphone number) to coordinate with the IC vendors for IC roller shipment to the job, preferably 2-3 days to the IC field demo.
- Contractor will provide 2 roller operators to be trained to operation two IC rollers. The training is expected to be ½ to 1 hour prior to the Day 1 paving.
- Contractor will provide fuel and water for the two IC rollers during IC field demo.
- Contractor will determine the rolling patterns after the IC rollers blended into the rolling train. FHWA IC team will not dictate any requirements.
- Contractor will mobilize the 2 IC rollers to the Open House facility before 8AM on Day 4, provided the distance between the jobsite and Open house is reasonably close. A contractor's representative is encouraged to participate the open house and share his/her experiences with IC.

FHWA IC team:

- The FHWA IC team will obtain the approval from FHWA regarding this IC field demo project with 2-3 days.
- Once it is approved, The FHWA IC team will:
 - provide an IC special provision to KYTC
 - finalize the dates and IC roller sections with the KYTC/Contractor
 - prepare a project webpage to facilitate communication
 - coordinate subsequent web meetings to get IC/GPS vendors involved.

Next Meeting

FHWA IC team will poll the next meeting – tentatively in late May or early June, 2014.