



Intelligent Compaction

ICPF Technical Working Group Meeting

Web Meeting and Teleconference

Thursday, March 23, 2009

8:30 a.m. – 9:30 a.m. E.D.T.

Attendees: Team Members of the MSDOT IC Field Demonstration
Moderators: George Chang (Transtec Group, TG, PI), Bob Horan (AI, Facilitator)
ICPF Team - David White (ISU, Co-PI), Larry Michael (LLM Asphalt Consultant, Co-PI)
Participants:
MSDOT - Randy Battey, James Williams, Scott White
FHWA-MS - Mike Cribb, Douglas MacDonald
Contractor - Rick Croy, Dunn Roadbuilders
Roller Vendors - NA

Purpose

- Discuss Project Objectives
- Develop Work Plan
- Plan/Schedule Activities
- Coordinate Work/Responsibilities

Agenda

Time*	Topic	Topic Leader(s)
07:30 am	Introduction	Chang
07:35 am	Update from DOT/Contractor <ul style="list-style-type: none">• Project Objectives/Goals• Dates/ Test Site and Meeting Locations• Contractor Support/Change Order/SP• DOT Personnel Support• Open House? PR Dept?	Battey
07:50 am	Logistics and Activities <ul style="list-style-type: none">• Rollers and tech support• ISU Geotech mobile lab• Research Team / Travel Details	Horan
08:10 am	Experiment Plan <ul style="list-style-type: none">• Required Info for Preparing Experiment Plan• Responsibilities of all parties	White
08:25 am	<ul style="list-style-type: none">• Follow up Action Items• Date/Time for Next Web Meeting?	Chang
08:30 am	Adjourn	

- E.D.T.

Summarized Minutes Action Items

Note: Action items are highlighted in **Yellow**.

(George) Briefly demonstrated the IC demo webpage for this project for communication among all parties. This webpage will be constantly updated to provide real time information on this project (<http://www.intelligentcompaction.com/index.php?q=node/150>).

Update from DOT/Contractor (Randy/Rick/Scott/James)

- Project Objectives/Goals (Randy)
 - Focus IC on stabilized base (soil cement) and, if permissible, asphalt base materials
 - (Scott/James) Subgrade work would start next week (March 30) for this 4-mile project. By one week before May 11, there should be sufficient work done for the stabilized base (~ 7-day curing time) – and ready for asphalt paving. **Will keep the IC research team updated on the progress of the construction.**

- Dates/ Test Site and Meeting Locations (Rick/Scott/James)
 - First choice is the week of May 11; if rain delays, will shift it to June 1. (Note: this may conflict with the NYSDOT demo if it is also delayed.)
 - Will meet at the MSDOT field office (6716 Highway 184) for daily briefing during the demo.

- Contractor Support/Change Order/SP
 - Local contacts for communicating with the roller shipping
 - Randy Adams (601) 433-2345, Scott White (601) 735-1122, Rick Croy (601) 433-2345
 - The research team may need help to assemble/de-assemble IC roller shell kits if necessary.

- DOT Personnel Support
 - (Randy) **MSDOT will schedule a FWD (Jill or Dynatest) and an operator to supplement the ISU field testing once the test dates are confirmed.** The load platen may be adjusted to meet the testing requirements: 450-mm plate for soil/subbase, and 300-mm plate for asphalt. The purpose of the FWD is to correlate its deflections and back-calculated layer moduli to IC roller measurement values.

- Open House? PR Dept?
 - (Randy) **MSDOT will tentatively conduct an Open House** (Notes by George: normally on a Thursday during the demo week – a 2-hour in-door presentation on IC introduction and the week's findings followed by 2-hr onsite demonstration – the sessions are normally separated by a lunch break). Will send out invitation once the date/location is confirmed.

- (James/Scott) A PR reporter will be invited to the Open House.

Logistics and Activities

- Rollers and tech support (Bob)
 - Will select two rollers in case of any accidental break-down.
 - Sakai single drum pad foot roller with smooth shell kit installed. Already locked in and shipping estimate was obtained. May also look into a double drum asphalt roller for the mini-demo if shipping cost can be covered by other source.
 - Case/Ammann single drum pad foot roller – not confirmed yet. Will contact Case/Ammann again.
 - Caterpillar single drum pad foot roller – local preference. Research team will discuss it further and contact Caterpillar for availability.
- ISU Geotech mobile lab (Dave)
 - The ISU mobile lab is self-contained and just need a safe parking location that is a central location of the testing locations.
 - Dave's cell phone no. is (515) 290-1080
 - (Rick/Scott) Suggest park the ISU mobile lab near the bridge in the middle of project.
- Research Team / Travel Details
 - The research team and ISU lab (with 4-5 staff) will arrive at the field site the day (normally on a Sunday) before the demonstration.
 - The research team and ISU lab will generally stay for the entire week on site.
 - (Larry) Warn that the scheduling may be an issue due to 5 IC demos to be completed this summer.

Experiment Plan (Dave)

- Required Info for Preparing Experiment Plan
 - (James) Will perform lab test and (soil cement) mix design for this project. Expect to establish strength gain curves and reduce days (from normally 7-day) for strength gain. Will pass on results to the research team.
- Experiment plan
 - Will perform IC on multiple lifts of the construction layers from the ground up. Before stabilized base testing, map the underlying stabilized subgrade using a single drum IC roller. Before asphalt paving, map the underlying stabilized base using a double drum IC roller.
 - Switching roller shell kit would cost a day of down time. Suggest using one pad foot single drum IC roller from one vendor (Case/Ammann or Caterpillar) and another smooth, single drum roller from the other vendor (Sakai).
 - (Dave) Will provide a one-page day-to-day experiment summary.

- (George) Will update the experimental plan (currently assuming Case/Ammann and Sakai rollers will be used) and produce a 4-page field summary sheets with all onsite contacts and experiment schedule.
- Responsibilities of all parties
 - Responsibilities of all parties involved in this study are described in the experimental plan.

Wrap up

- (George) Will send out meeting minutes. Will communicate via emails and phone calls before the demo. Next brief web meeting is likely to be one week before the demo.