

## MSDOT IC Demonstration - On-Site Contact List

Last name	First name	Affiliation	Telephone	Email
ICPF Project Team				
Chang	George	Transtec Group, Inc. (main contact)	512-451-6233 C 512-659-1231	gkchang@thetranstecgroup.com
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Merritt	Dave	Transtec Group, Inc.	512-451-6233	dmerritt@thetranstecgroup.com
White	David	ISU	515-294-1463 C 515-290-1080	djwhite@iastate.edu
Gieselman	Heath	ISU Geotechnical Mobile Lab	C 515-450-1383	
Gallivan	Lee	FHWA	317-226-7493	Victor.Gallivan@fhwa.dot.gov
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MacDonald	Douglas	FHWA		douglas.macdonald@fhwa.dot.gov
State DOT				
Batthey	Randy	MSDOT–Head Quarter (MO Materials)	601-359-7650 C 601-946-7846	randyb@mdot.state.ms.us
Williams	James	MSDOT–Head Quarter (MO Geotech)		jwilliams@mdot.state.ms.us
White	Scott	Region 5, Materials Engineer	C 601-410-4032	scwhite@mdot.state.ms.us
Smith	Mark	Region 5 (roller delivery contact)	601 735-1122	
Roller Vendors				
Rakowski	Stan	Sakai	C 717-437-5400	s-rakowski@sakaiamerica.com
House	David	Sakai distributor – Stribling Equipment	228- 860-9282	DHouse@striblingequipment.com
Oetken	Nick	Caterpillar	763-712-3028	oetken_nick_a@cat.com
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Carpenter	Kirby	Texena	210-333-8000	kcarpenter@texanamachinery.com
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Whitaker	George	Case	262-636-4959	george.whitaker@cnh.com
Paving Contractors				
Croy	Rick	Dunn Roadbuilders	601-433-2345	rcroy@dunnroadbuilders.com
Clark	Kendal	Dunn Roadbuilders	601-433-5834	

## Roller Shipment

The shipping address is that of a MDOT Waynesboro Project Office (about 3 miles from the start of the project): 6716 Highway 184, Waynesboro, MS 39367 (601)735-3910.

Contact: Mark Smith (601) 735-1122

All IC rollers will be shipped to the field site by Friday, July 10.



## Open House

*Session 1 - 10:00AM to noon - Indoor Presentation*

*Session 2 - 1:30PM to 2:30PM - Outdoor Demonstration*

### Where:

- (1) (indoor presentation) *Waynesboro Auditorium, 1008 Benton St., Waynesboro, MS 39367-2461*
- (2) (field demonstration) IC demo field site at Route 84

### When:

10:00 AM to 3:00 PM , Thursday, July 16, 2009

### Agenda:

**10:00AM to 12:00AM** (indoor presentation) IC presentation on preliminary results and vendors' presentation

**1:30PM to 2:30PM** (outdoor demonstration) demonstration of IC rollers, ISU geotechnical lab, and in-situ test equipments

### Contact:

Scott Scott White, MSDOT, scwhite at mdot.state.ms.us, 601-410-4032



### Safety

Hard hat, steel-toe boots and safety vest are required. Safety goggles are optional.

## Test Schedule and Settings (Stabilized Base IC)

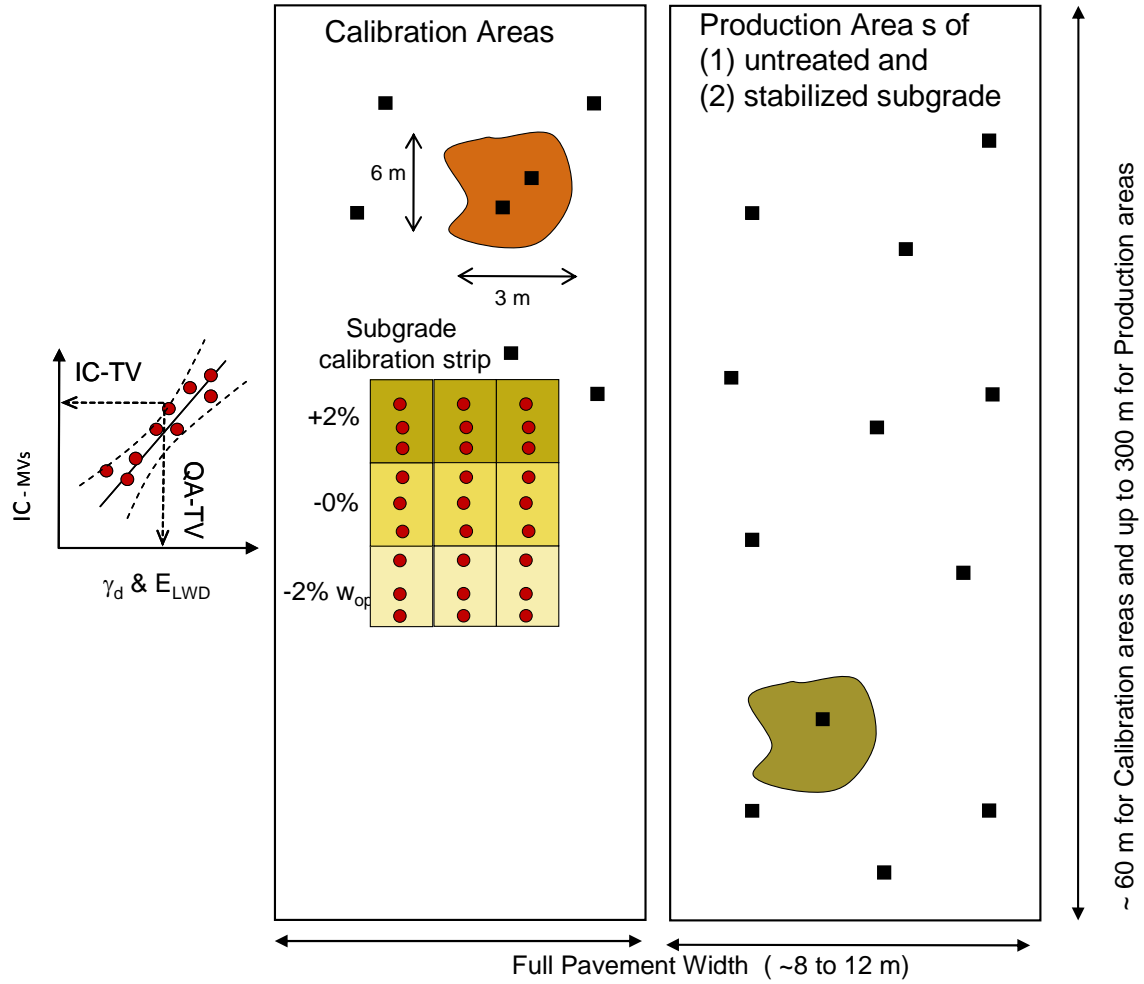
Date	TB	Machine	Amp (mm)	Spot Tests	Notes/Comments
7/12	ISU arrives at site to setup mobile lab (7 am) Meet with Contractor and identify potential test areas (7am) Setup CASE/CAT/SAKAI rollers and make trial runs with GPS (8 am) Collect material samples for on-site laboratory characterization (10 am)				
7/13	1	CAT (padfoot)	Static, 0.9, 1.8	DCP, LWD, NG, and PLT	<b>8 m x 60 m calibration test area.</b> 1. Prepare then compact foundation layer with 8 roller passes and map for untreated subgrade. 2. Place one 200 to 300 mm loose lift of untreated subgrade. 3. Create variable moisture conditions. 4. Compact in three lanes using static, medium, and high amplitude @ 8-12 passes + 3 mapping passes 5. Develop compaction curves 6. Repeat compaction for <b>3 lifts</b> in same area
	2	Case (smooth)	TBD	DCP, LWD, NG, PLT, FWD	<b>Roller mapping in production areas</b> of (1) untreated and (2) stabilized subgrade. Monitor existing practice and perform in-situ tests for comparison. Use data for test run on IC QC/QA specification.
7/14 to 7/15	3	Case (smooth)	Low, High, Feedback control	DCP, LWD, NG, PLT	<b>12 m x 60 m calibration test area.</b> 1. Compact foundation layer with 8 roller passes and map. 2. Place 150 mm lift of stabilized subgrade 3. Create variable moisture conditions. 4. Compact in three lanes using low, high, and feedback control @ 8-12 passes + 3 mapping passes 5. Develop compaction curves
	4	CAT (padfoot)	Static, 0.9, 1.8	DCP, LWD, NG, PLT	
7/16 to 7/17	5/6	Case (smooth)/CAT (padfoot)	TBD	DCP, LWD, NG, PLT, FWD	<b>Roller mapping in production areas</b> of (1) untreated and (2) stabilized subgrade. Monitor existing practice and perform in-situ tests for comparison. Use data for test run on IC QA specification.
7/16	Open House –presentation of preliminary results and roller demonstrations.				

Notes:

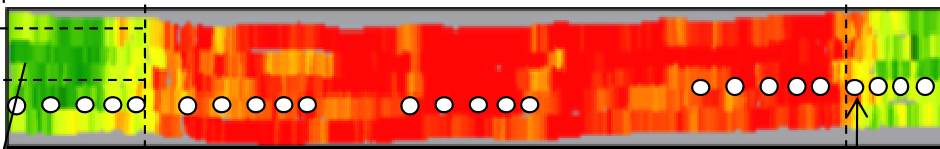
A. Moisture condition calibration test strip areas  $\pm 1.5\%$  optimum except as noted.

B. MSDOT assistance requested for FWD testing and information on project QA testing requirements.

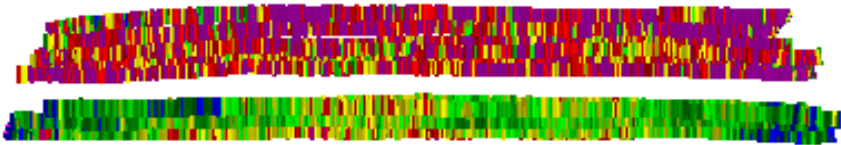
C. As time permits repeatability passes for roller will be performed on embankment and aggregate base.



**Case/Amman Single Smooth Drum IC roller**



**Caterpillar Single Drum Padfoot IC roller**



## Test Schedule and Settings (Mini Asphalt IC demo)

(the following schedule and settings are tentative and subject to change)

Date	TB	Machine	Amp (mm)	Spot Tests	Notes/Comments
7/12	Arrive on site.				
7/13	7	Sakai (tandem)	0.6 (high) at 2500 vpm, 0.3 (low) at 3000 vpm	N/A	<b>Machine and GPS setup and trial runs.</b> 1. Verify the roller GPS measurements 2. Trial runs at different settings
7/14	7	Sakai (tandem)	0.6 (high) at 2500 vpm, 0.3 (low) at 3000 vpm	FWD(?)	<b>Map the existing stabilized base.</b> 1. Verify the roller GPS measurements 2. Trial runs 3. Map the existing base
7/15	7	Sakai (tandem)	0.3 (high) at 4000 vpm	NG	<b>Production rolling for asphalt base course.</b> 1. Verify the roller temperature measurements 2. Compact asphalt base layer with normal roller passes. 3. Spot test with nuclear density gauge.
7/16 to 7/17	TBD	Sakai (tandem)	TBD	NG	<b>Production rolling for asphalt wearing course.</b> 1. Compact asphalt surface layer with normal roller passes. 2. Spot test with nuclear density gauge.
7/16	Open House –presentation of preliminary results and roller demonstrations.				

## **In-Situ Testings and etc.**

### **ISU Geotechnical Lab**

- Light Weight Deflectometers (LWD)
- Dynamic Cone Penetrometers (DCP)
- Calibrated Nuclear moisture-density Gauge (NG)
- static/repetitive Plate Load Test(PLT)

All test locations will accompany with survey grade GPS location data. The above tests would take approximately one-hour for a given test bed. Soil samples will also be taken for laboratory tests.

### **MSDOT**

- Falling Weight Deflectometer (FWD) and an operator
- A handheld survey grade GPS and an operator
- Nuclear density Gauge (NG) for asphalt and an operator
- Corings for asphalt

### **Dunn Roadbuilders**

- Prepare test beds for stabilized IC demonstration
- Assist in mini asphalt IC demo