



Intelligent Compaction

ICPF Technical Working Group Meeting

Web Meeting

Monday, July 7, 2010

1:00 p.m. – 2:00 p.m. M.D.T.

Attendees:

Project Team: George Chang – PI (Transtec Group)
Bob Horan – Facilitator (Asphalt Institute)
David White – Co-PI (ISU)
Heath Gieselman (ISU Geotech Mobile Lab)

FHWA: Victor (Lee) Gallivan, COTR (absent)

ND DOT: Jon Ketterling, Tom Bold, Jason Fischer, Rob Rayhorn

Northern Improvement: Keith Reiss

Gratech: Terry Burke (absent)

Caterpillar: Kris Hanson, Nick Oetken (absent)

Sakai: Todd Mansell (absent)

Purpose – Planning for ND DOT IC Demo – Aug. 9 to 12, 2010

- Review Schedule/Activities
- Coordinate Work/Responsibilities
- Review Experimental Plan

Summary and Action Items

Project Site and Schedule

- The Highway 12 project site is just west of Marmarth. A staging area is about 1 mile west of Marmarth by Highway 12.
- IC rollers will be delivered to the staging area, preferably by Friday, Aug. 6. As the shipper gets near Marmarth, the truck driver should contact Keith Reiss of Northern Improvement: office (701) 225-5197. Cell (701) 260-2411.
- The ISU Geotech Mobile Lab will be arriving on Saturday or Sunday, Aug. 7 or 8. ISU will contact the superintendent of the project, Ted Ted Schneider of Northern Improvement, cell: (701) 220-6865 on Thursday/Friday (Aug. 5-6).
- Northern Improvement field office: 109 2nd Street SW, Marmarth ND 58643. (701) 279-7921.
- The foot print that the ISU lab need is about 50 ft X 100 ft – preferably non-clayey soils. ISU will need about 50 gallon of potable water during the week.
- ISU also requests to avoid production operation areas for safety consideration. ISU and the IC research team will do daily briefing with Ted Schneider (Northern Improvement) and Joe Brown (Gratech) to plan for the work areas for the following day. ISU will also discuss with Ted on earthwork equipment and operation.
- Note that the cell phone reception is not very good on the job site.
- All onsite personnel (including roller and GPS tech supports) will meet at 8AM, Monday, August 9 for a briefing.

Contractors' Support

- Northern Improvement will provide 300 gallons of fuel for the IC rollers. It would also mobilize IC rollers onsite if needed.
- ISU will also discuss with Terry Burke (Gratech) about providing 1 to 2 roller operators for the production work.

NDDOT Support

- ND DOT will provide a FWD and an operator during the demonstration (Aug. 9 to 12). ND DOT would provide 6 personnel onsite to assist ISU on in-situ testing. ND DOT will also bring equipment for soil compaction acceptance testings. ND DOT does not use nuclear density gauges.
- Jon Ketterling will gather the project plan drawing files and GPS control points (from Jason) locations and email them to George.
- Jon Ketterling and Tom Bold will plan on the Open House event (tentatively, Thursday, Aug. 12) to decide: start/end time (allow sufficient time for attendees' travel), location (capacity may range from 30 to 60 people), whether sponsored lunch (e.g., local equipment dealers, construction-related association, etc.). ND DOT prefers onsite field demonstration (including IC roller operations in action and tour the ISU geotech mobile lab) instead of a parking-lot type of demo. Once George received information from Jon and Tom, he will prepare an Open House flyer and the IC research team will help ND DOT promoting this event.

Vendors Support

- Caterpillar: Kris Hanson will be onsite and provide a presentation during the open house.
- Trimble: Luke Magnuson of Ziegler-Cat will be onsite and provide a presentation during the open house.

Logistics

- Suggestions from IC team traveling/lodging: Dickenson is about 100 miles from the job site. Bismarck is about 200 miles from the job site. The team (George, ~ 5-6 ISU team, and ~ 6 ND DOT) will try to stay at the same hotel for convenience. Suggested hotel is the North Winds Lodge in Bowman (503 Highway 85, Bowman, ND 58623-4901. 1-888-684-9463 (701) 523-5641), about 35 minutes east of the job site.
- ND DOT suggests Bob to explore whether it would help Sakai to supply an IC roller if the lease fund is available.

Experimental Plan

- The ISU team expects to conduct calibration etc testings on Monday/Tuesday, then move on to actual production on Wednesday and on.
- Dave will provide a summary of the experimental plan once the IC roller issue is settled.
- George will update the project webpage that serves as a communication vehicle for all participants of this demo.