

MINUTES - approved
LRRB - Research Implementation Committee (RIC)
September 17, 2014
MnDOT Training Center, Room #11
Shoreview, Minnesota 55126

Attendees:

Jeff Hulsether (Chair), City of Brainerd
Klayton Eckles, City of Woodbury
Mitch Rasmussen, Scott County
Dave Robley, Douglas County
Tim Stahl, Jackson County
Mike Flaagan, Pennington County
Ted Schoenecker, MnDOT State Aid
Merle Earley, MnDOT District 4
Chris Kufner, MnDOT Materials Office
Jim Grothaus, U of M CTS

Staff:

Bruce Holdhusen, MnDOT Research
Malaki Ruranika, MnDOT Research
Debbie Sinclair, MnDOT Research

Absent:

Hafiz Munir, MnDOT Research

I. Call to Order (Jeff Hulsether - Chair)

The meeting was called to order at 10:00 AM. Jeff welcomed everyone, thanked them for attending. Attendees introduced themselves. Jeff commended Jim Grothaus for the award Jim received at the NLTAP meeting in St. Louis, in July.

Agenda Review:

A motion to approve the agenda was made by Tim Stahl and seconded Klayton Eckles. Motion Approved.

Review of June 2014 RIC Meeting Minutes:

A motion to approve the June 2014 meeting minutes was made by Ted Schoenecker and seconded by Dave Robley. Motion Approved.

II. Budget Review and Conferences (Debbie Sinclair)

RIC Meeting dates:

The next RIC meeting was scheduled for December 2, but that date posed conflicts for several members. The meeting will be rescheduled for November 24, 2014 at the Arden Hill training center.

Action item #1: Debbie Sinclair will reschedule the next RIC meeting for November 24 and confirm a room at AHTC.

The summer 2015 joint LRRB/RIC meeting will be in Walker June 17 & 18. Jeff Hulsether will coordinate with Carole Wiese to make arrangements.

Setting the dates for the remaining 2015 RIC meetings will be held over until the November 24 meeting.

Conferences:

A list of 2014 and 2015 LRRB/RIC research conferences was included in the meeting materials. Upcoming conferences were discussed. RIC members are encouraged to bring pertinent topics from conferences to the meeting and note the topics on their trip report. It was requested to add the Minnesota Transportation Conference on March 4 - 5, 2015 to the list.

Action item #2: Debbie Sinclair will update the list of 2015 conferences to include the Minnesota Transportation Conference, March 4 – 5, 2015.

TZD Conference (open to all RIC members): Mike Flaagan is planning to attend the TZD conference.

TRB Annual Meeting (open to 2 RIC members and 1 RIC MnDOT member): Jeff Hulsether, Hafiz Munir and Merle Early are planning to attend TRB in January 2015.

National LTAP Conference (open to 6 RIC members and 1 MnDOT staff): no attendees identified. The conference will be in Savannah, Georgia, July 19 – 23, 2015.

Budget Review:

- The RIC updated budget status spreadsheet (dated 9/16/2014) was included in the meeting materials.
- The amendment for SRF's contract for two more years through June 2016 has been executed.
- SRF will have another amendment to add an additional \$10,000 for Outreach task.
- There is \$124,680 unobligated balance that can be used to fund future RIC projects.

III. Project Presentations

- Implementation of TONN2010 (INV918) – Jim Wilde
<http://www.dot.state.mn.us/research/TS/2014/2014RIC16.pdf> (full report)
<http://www.dot.state.mn.us/research/TS/2014/2014RIC16TS.pdf> (summary)
- Integrated Tools for Pavement Design and Management (INV645) – Jim Wilde
<http://www.dot.state.mn.us/research/TS/2014/2014RIC14.pdf> (full report)
<http://www.dot.state.mn.us/research/TS/2014/2014RIC14TS.pdf> (summary)
- Research Using Waste Shingles for Stabilization or Dust Control for Gravel Roads and Shoulders (INV914) – Tom Wood
<http://www.dot.state.mn.us/research/TS/2014/201406.pdf> (full report)
<http://www.dot.state.mn.us/research/TS/2014/201406TS.pdf> (summary)
- Investigation and Assessment of Colored Concrete Pavement – Tom Burnham
<http://www.dot.state.mn.us/research/TS/2014/201426.pdf> (INV929 full report)

IV. Future RIC projects

- Jeff Hulsether
 - The research need statement developed at the summer meeting on the topic of bridge deck maintenance best practices has some elements that might be a good fit for RIC.

- Klayton Eckels
 - For implementation of HMA vs. PCC for local agencies, there is a need for better information on construction staging, traffic management, etc. to accommodate local residents during construction.

Action item #3: Joel Ulring will put together local needs in the scope of work for a synthesis of best practices on HMA vs. PCC for local agencies, and bring it back to the RIC.

- Tim Stahl
 - Based on the results presented today by Jim Wilde on costs of pavement consumption in terms of dollars per ESAL-mile, the MnDOT Detour Policy should be revised.
 - There is a need to create a standardized data format for collecting FWD data, and to write a specification for use in contracting FWD services.

Motion by Mitch Rasmussen and seconded by Mike Flaagan, for Tim Stahl to bring to the LRRB the topic of a study to be conducted with the intent of revising the MnDOT detour compensation policy to better align it with the research presented by Prof. Wilde on the actual costs in terms of dollars per ESAL-mile. Motion approved.

Action item #4: Tim Stahl will bring to the LRRB the topic of a study to be conducted with the intent of revising the MnDOT detour compensation policy to better align it with the research presented by Prof. Wilde on the actual costs in terms of dollars per ESAL-mile.

- Mike Flaagan
 - Cores from low-binder HMA pavements to see how they are aging. Some low-binder or high-RAP mixes appear to be aging much faster than dense graded mixes with normal binder content.
- Mitch Rasmussen
 - Reconstruction of high-volume roads, issues related to staging, detours, Construction time allowed, inspection/management.
 - Methodologies to calculate RUCs
 - How to determine amount of time to allow contractors
 - How much involvement in the staging plans should local agency have

[Staff note: see Appendix A of 2010 MnDOT TH36 study by Prof. Hourdos that includes discussion of four methods for estimating road user costs under scenarios of full closure with detour, or partial closure with traffic control:

<http://www.lrrb.org/pdf/201004.pdf> (full report)

<http://www.lrrb.org/pdf/201004TS.pdf> (summary)]

V. Project Presentations

- Culvert Repair Best Practices, Specifications and Special Provisions – Best Practices Guidelines (MnDOT implementation project) – Bruce Wagener, C.N.A. Consultants <http://www.dot.state.mn.us/research/TS/2014/201401.pdf> (full report) <http://www.dot.state.mn.us/research/TS/2014/201401TS.pdf> (summary)

- Evaluation Incorporating Highway Capacity Manual Unsignalized Pedestrian Crossing Analysis Methodology (INV645) – Bryan Nemeth, Bolton & Menk
<http://www.dot.state.mn.us/research/TS/2014/201421.pdf> (full report)
<http://www.dot.state.mn.us/research/TS/2014/201421TS.pdf> (summary)
- Roadside Swales for Stormwater Pollution Prevention (INV894) and Swale Calculator (update on MnDOT implementation project in progress) – John Gulliver
<http://www.dot.state.mn.us/research/TS/2014/201430.pdf> (INV894 research report)
- SRF RIC contract update - Mike Marti and Renae Kuehl, SRF Handouts were provided at the meeting
 - TZD Young Drivers TAP has been formed; the task will develop fact sheets and outreach materials for drivers younger than 20 and 20-29 year old drivers
 - Traffic Sign Maintenance and Management Online Training is almost in Beta testing
 - A TAP has been lined up for Impacts of Heavy Loads
 - Amendment #4 to SRF's contract will add \$10,00 for outreach activities
 - Outreach task update: SRF wrote a web article for the sign life task, published the LRRB Update newsletter, and sent out a monthly LRRB/RIC update email to LRRB/RIC members

VI. Round Robin:

- Chris Kufner
 - MnDOT Materials Office is forming a partnership with NCAT on preventive maintenance and pavement preservation.
- Jim Grothaus
 - The RIC could have further discussion about the project presentations and their implementation potential.
- Tim Stahl
 - Thin overlays
 - Seal Coats – we need a long-term study; Joel Ullring is looking for study participants
 - Road Dust Institute membership – Tim will take this to the LRRB
 - Reminder that the timber bridge inspection project has testing equipment available for cities or counties to borrow.
- Ted Schoenecker
 - Merle Earley will be going to TRB Annual Meeting in January
- Klayton Eckles
 - Klayton liked the “tool” types of products that were presented today
- Bruce Holdhusen
 - Hafiz Munir was not able to attend today because he had a training class obligation that was mandatory

VII. Adjournment

A motion to adjourn was made by Dave Robley and seconded by Mike Flaagan. The meeting was adjourned by Chair Hulsether at 2:55 PM.

September 17, 2014

RIC Meeting

Action Items

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