

**- MINUTES -**  
**December 4, 2012**  
**Research Implementation Committee**  
**12:00 noon - 3:30 pm**  
**MnDOT St. Cloud**

**Attendees:**

Rich Sanders, Chair, Polk County  
Dave Robley, Douglas County  
Tim Stahl, Jackson County  
Mitch Rasmussen, Scott County  
Jeff Hulsether, City of Brainerd  
Klayton Eckles, City of Woodbury  
Farideh Amiri, MnDOT, Research  
Maureen Jensen, MnDOT, Lab  
Rick Kjonaas, MnDOT, State Aid  
Walter Leu, MnDOT, D1  
Jim Grothaus, U of MN, CTS

**Absent:**

Nicole Peterson, MnDOT, Research

**Consultants:**

Mike Marti, SRF Consulting Group, Inc.  
Rena Kuehl, SRF Consulting Group, Inc.

**Guests:**

Carole Wiese, MnDOT, Research  
Taek Mu Kwon, UMD

**I. Chairman's Report**

Mr. Chair welcomed everyone and thanked them for attending. Attendees introduced themselves.

**Agenda Review:**

**Motion:** A motion to approve the agenda was made by Walter Leu and seconded by Maureen Jensen. Motion Approved.

**Review Of September 2012 Minutes:**

**Motion:** A motion to approve the September 2012 minutes was made by Jeff Hulsether and seconded by Klayton Eckles.

**Schedule December 2013 Meeting Dates & Locations:**

**ACTION ITEM #1** Farideh Amiri will send a reminder to RIC members in August to request and confirm December 2013 meeting date and location.

**Membership Roster:**

No changes since September 2012 meeting. Jeff Hulsether Chair appointment will begin Jan 1, 2013.

**Conferences:**

**ACTION ITEM #2:** RIC members interested in attending 2013 conferences, please let Farideh Amiri or Jeff Hulsether know.

### **National Rural ITS Conference, St. Cloud:**

The following are interested in attending:

Jeff Hulsether, Rich Sanders, Mitch Rasmussen, Dave Robley, Tim Stahl, Rick Kjonaas and Farideh Amiri.

### **Sustainability of Road Infrastructure:**

Klayton Eckles expressed interest in attending the conference.

**ACTION ITEM #3:** Tim Stahl, the RIC/LRRB liaison will discuss at the LRRB December meeting that RIC members are interested to attend out of country conferences and request LRRB to revisit conference attendee opportunities for RIC members.

### **Budget Review:**

**Motion:** A motion to approve the budget was made by Walter Leu and seconded by Rick Kjonaas. Motion Approved.

The consultant amended for \$187,265.37 for additional tasks of Traffic Monitoring and On-line Sign Person Training is not executed yet. MnDOT and consultant are working on it.

## **II. LRRB and TRIG Selected Proposals for Presentations**

Farideh Amiri went over the list of TRIG and LRRB proposals selected for presentations. The highlights are:

- TRIG meeting is scheduled for Dec 3 and 4
- LRRB meeting is scheduled for Dec 5 and 6
- TRIG presentations are 21
- LRRB presentations are 17 with one multi-proposal
- Nine proposals are being presented to both TRIG and LRRB
- LRRB proposals are from University of Iowa, University of Minnesota and MnDOT Lab

## **III. Advanced LED Warning Signs for Rural Intersections Powered by Renewable Energy**

Dr Kwon gave a presentation on LED warning signs project. Some of the highlights of their presentation are:

- The objective of the project is to improve the safety of rural blind intersections by developing low-cost, easy-to-install warning signs.
- The ALWS used in the project has three components: Low power LED, wireless detection technologies and solar panels for power.
- Three signs at two intersections were tested for three months before, and nine months after installation.
- The total system costs \$20,000.
- The system was effective at reducing speed on the main highway and average of 4.5 mph.

- The waiting time on the secondary roads increased by 5.4 sec.
- In general, warning system was easy to install and had improved the safety of the intersection.

#### **IV. Project Updates**

##### **Task 13 – Truck Weight Enforcement:**

Jim Grothaus said that LTAP will schedule more training. He also said that LTAP will look into the list of survey questions (RIC September action item #6) in order to find out if any business was done differently due to the “Truck Weight Enforcement” training.

**ACTION ITEM #4:** Jim Grothaus will bring the draft survey questions to follow-up with Truck Weight Enforcement Training and will report at the March meeting.

##### **Dr. Wilde Projects:**

**Task 14 – INV 645 - Integrated Tools for Pavement Design and Management (94288) and**

**Task 16 – INV 851 - Implementation of TONN 2010 (98319):**

Dr. Wilde sent the tool to TL and TONN 2010 committee and he is working with Braun Intertec on an amendment to enhance the tool and the final product. The amendment will be for \$10,000 if done cooperatively between Mankato State University and Braun Intertec and will be funded by State Aid. It could be up to \$25,000 if done by Braun Intertec alone and must be approved by RIC.

**Motion:** A motion to approve \$10,000 State Aid fund to amend Dr. Wilde “Pavement Management Tool” in order enhance the software was made by Walter Leu and approved by Tim Stahl. Motion Approved.

**ACTION ITEM #5:** Rick Kjonaas will bring Dr. Wilde’s amendment and updates to the March RIC meeting for RIC approval.

#### **V. Future Projects**

##### **Pedestrian Crossing Safety On-line Training**

Farideh Amiri said that the pedestrian safety at the intersection training and materials was initiated by the LRRB. She said that the project has data collection and data analysis plus LTAP training. Farideh asked RIC if they want to lead the training portion and if RIC wants to contribute to the funding.

**Motion:** to approve funding as decided by LRRB December meeting toward the “Pedestrian Safety at Intersection Training and Materials” project was made by Rick Kjonaas and seconded by Klayton Eckles. The sources of the funding for this project will be the \$71,237.88 RIC budget remaining. Motion Approved.

**ACTION ITEM #6:** Tim Stahl will give an update on the “Pedestrian Safety at Intersection Training and Materials” project to the LRRB December meeting. He

will discuss the funding level and RIC leading the training portion of the project. Tim Stahl will bring updates back to the March RIC meeting.

### **Traffic Sign Maintenance/Management Handbook**

Renaë Kuehl asked the RIC on behalf of Mark Vizecky if they want to update the handbook. Mark has received four requests for the dates in the handbook to be updated.

RIC Board decided to take no action. They decided that State Aid should make any actions if needed.

**ACTION ITEM #7:** Rick Kjonaas will follow up with Mark Vizecky on how to update the Traffic Sign Maintenance/Management Handbook.

## **VI. Consultant's Update**

Mike Marti and Renaë Kuehl led a discussion reporting the status of each active task which was also summarized on the Quarterly Report SRF submitted to the RIC. Following is a brief summary:

### **2009- 2011 Contract:**

#### **Task 6.7 – Dust Control**

- There are two reports that are still not complete (reportedly near completion) that we are waiting for to reference in our report. Both authors have communicated that they are in the final stages and should be completed soon, however we do not have a definite completion date for either.
  - *National Scan of Best Practices for Road Dust Control and Soil Stabilization – R.Surdahl and A.Kociolek*
  - *Environmental Effects of Dust Suppressant Chemicals on Roadside Plant and Animal Communities – B.Williams*

**ACTION ITEM #8:** SRF will search and try to meet with Dust Control report authors at TRB in January.

**ACTION ITEM #9:** RIC board will make a decision at the March meeting, whether to continue waiting or move forward with the Dust Control study results that SRF developed.

### **2012 – 2014 Contract:**

#### **Task 1 – ADA Transition Plans**

- The ADA webinar was presented on October 25<sup>th</sup>, by Renaë Kuehl and Jim Gersema, SRF. There were 142 attendees (possibly more than one person per computer), including people from Pennsylvania and Illinois. A lot of questions were asked; we received very positive feedback from attendees. LTAP would like to use this format for other presentations in the future.

- The website was updated to include a link to the webinar recording from 10/25/12
- A web article will be written/posted on the LRRB website in December 2012, to highlight the new ADA product and connect to a recording of the webinar.
- Rich Sanders and Mike Marti presented at the AMC annual this morning (Dec 4' 2012) on this topic.
- Mike Marti and Jim Gersema will present on ADA at the Nov 2012 APWA-MN Fall conference.
- Submitted an abstract to the CTS annual conference May 22-23, 2013
- The LRRB outreach committee is developing a "jeopardy" themed presentation for the CEAM and MCEA annual conferences, which will include a category on this ADA project. Presented a draft version to the Outreach Committee.

### **Task 2 – Complete Streets**

- Proposed presenting the final document via a webinar with MNLTAP. TAP approved this idea. SRF has approached MNLTAP about this and will be discussing with them in detail in the future.
- APWA-MN Fall conference - Mike Marti and Joni Giese presented 11/16/12

**Motion:** to approve this task as final was made by Jeff Hulsether and seconded by Dave Robley. Motion Approved.

### **Task 4 – TZD**

- Mike Marti proposed the idea of remaking the "How to Save a Life" Video to the group. Currently the video is owned by Stare Patrol and has to be accompanied by law enforcement when viewed, due to copyright issues. The remake would not be copyrighted, giving the video more opportunity to be seen and posted online.
- Farideh updated the group on a conversation she had with Sue Groth. DPS had \$30K that they are using to develop a similar video; Sue recommended the LRRB wait until DPS had finished their video before we start working on ours.
- Sue wanted to know, how are the locals going to use this? RIC members stated they intend to use if for board meetings, school meetings, drivers education, etc.

**ACTION ITEM #10:** Rich Sanders will call Sue Groth to discuss the locals need for the TZD video.

### **Task 5.1 and 5.2 – Traffic Monitoring**

- TAP meeting held 10/4/12
  - Discussed survey findings
  - Discussed data collection methods
  - Due to delays in having the ATR installed (Project 5.2) TAP agreed to wait until spring 2013 to conduct the pilot study in Jackson County.

MnDOT's official data collection timeframe is April-October and they would like the data collection to take place within this timeframe.

- Gene Hicks is going to provide a list of data collection requirements.
- Reviewed the list of sensors and determined which to evaluate.
- A Map of the specific location of the ATR station, cabinet and pole were reviewed and approved.
- Due to delays with the contractor in installing the (the contractor has been non-responsive) MnDOT decided to cancel the PO with the original bidder and has the 2nd lowest bidder is in the process of installing the ATR. Currently waiting for the power to be activated.
- Due to the delay of the ATR installation, the TAP decided to shift the data collection from fall 2012 and winter 2013 to winter 2013 and spring 2013.
- Ben Timerson, Darin Mielke and SRF will meet to confirm materials, sensor installation schedule and evaluation schedule once the ATR station is operational.
- Tim Stahl suggested that the pilot county for this study be switched to a different county that is having their counts conducted in Spring 2013. He suggested LeSueur or Blue Earth.
- All vendors have been contacted and purchase/lending agreements have been established. MnDOT will supply the Wavetronix HD.
- MnDOT conducted a site visit before the project was under contract. These findings were reviewed and a sensor layout plan was developed.

**ACTION ITEM #11:** Tim Stahl will contact Blue Earth and LeSueur Counties to see if they are interested in participating in the Traffic Monitoring pilot study.

**ACTION ITEM #12:** SRF to setup a meeting with the new pilot county and MnDOT data collection staff once the county is confirmed.

### **Task 6 – Outreach**

- Renae Kuehl gave a highlight of what was discussed at the November Outreach Meeting:
  - Web articles: Two of the original six projects identified to write articles about where delayed to June 2013. Two additional web articles are needed for 2012. The Outreach Committee agreed to complete one more web article on the ADA Transition Plans (December 2012) but not complete another since additional time was focused on developing the LRRB Jeopardy presentation.
  - National Publication: Per the magazine editor, due to space limitations and the general focus of the October issue, the article was not included in the October 2012 issue and is scheduled to be published in December 2012.
  - Conference Presentations:
    - Jim Gersema from SRF presented a Webinar on ADA transition Plans through the MNL TAP 10/25/12. 142 people viewed.
    - November 15th at 1pm, two RIC topics will be presented:
    - ADA – Jim Gersema (SRF) and Mike Marti

- Complete Streets - Joni Giese (SRF) and Mike Marti
- December 4th at 10:15 am . Rich Sanders and Mike Marti presented on ADA Transition Plans. John Mentor, Sherburne County will co-present with Tim Arvidson on ADA project funded by State Aid.
- Working on developing a presentation for Sue Miller to present on Systems Preservation at TRB in January
  - Identified topics for 2013 workplan
- Renae Kuehl explained how the Jeopardy presentations at the MCEA and CEAM conferences will work.
- Maureen suggested that that SRF look into the TRB “Research Pays Off” Publication

**ACTION ITEM #13:** SRF to look into TRB “Research Pays Off” Publication and bring an update to the March meeting.

## **ADJOURN**

**Motion:** To adjourn the meeting made by Maureen Jensen and seconded by Tim Stahl. Motion Approved.

**List of Action Items from December 4, 2012 RIC Meeting:**

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**ACTION ITEM #2:** RIC members interested in attending 2013 conferences, please let Farideh Amiri or Jeff Hulsether know.

**ACTION ITEM #3:** Tim Stahl, the RIC/LRRB liaison will discuss at the LRRB December meeting that RIC members are interested to attend out of country conferences and request LRRB to revisit conference attendee opportunities for RIC members.

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