



LRRB Fall Meeting Minutes  
September 17, 2015  
Olmsted County Public Works Service Center  
1188 50th Street Southeast  
Rochester, MN 55904

**LRRB Members Present:**

Bruce Hasbargen (Chair), Beltrami County  
Lyndon Robjert, Carver County  
Tim Stahl, Jackson County  
Paul Oehme, City of Chanhassen  
Steve Koehler, City of New Ulm  
Kaye Bieniek, Olmsted County  
Laurie McGinnis, U of M – CTS  
Linda Taylor, MnDOT – Research

**Others Present:**

Dave Van Duesen, MnDOT – OMRR  
Brenda Thomas, U of M – CTS  
Debbie Sinclair, MnDOT – Research  
Hafiz Munir, MnDOT – Research  
Shannon Fiecke, MnDOT – Research  
Dan Sullivan, MnDOT – Research

**Absent:**

Mitch Rasmussen, MnDOT – State Aid  
Tom Ravn, MnDOT – Construction  
And Innovative Contracting

## 1. Call to Order

Chair Bruce Hasbargen called the meeting to order and thanked Kaye Bieniek for hosting.

Chair Hasbargen reviewed the purpose of the meeting.

The meeting agenda was reviewed by the group. Joel Ulring and Randy Neprash were unable to attend so Chuck Jahren's presentations were moved up. After noting and approving this change, the agenda was approved by Chair Hasbargen.

***A motion was made by Laurie McGinnis, seconded by Paul Oehme, to approve the minutes of the June 17-18, 2015 LRRB meeting. Motion approved.***

### June 2015 Meeting Pending Action Items

Linda Taylor reviewed pending LRRB action items. Action items not listed below were completed or included in the agenda.

***June Action Item No. 4:*** Mitch Rasmussen will ask Nancy Stone to schedule an update meeting for the LRRB Strategic Plan.

***June Action Item No. 6:*** Mitch Rasmussen will follow-up on developing a work plan with Ryan Peterson for further research on Chloride Free Snow and Ice Control.

***June Action Item No. 7:*** A presentation on the Alternative to Seal Coat Methods TRS will be made at the Fall meeting.

The Alternative to Seal Coat Methods TRS contract was executed on September 14, 2015.

**June Action Item No.8:** Mitch Rasmussen will develop a plan to communicate the knowledge transfer process of MnDOT systems for City and Counties to follow.

**June Action Item No. 9:** *The Outreach Committee will develop a plan, which may include a video, to promote what is currently being done with alternative intersection design around the state.*

**June Action Item No. 10:** *The Outreach Committee will develop a plan to promote what is being done on pavement patching and repair at the MnROAD Test Track facility.*

Item Numbers 8, 9 and 10 were added to the next Outreach Committee Meeting's agenda in October.

**June Action Item No. 12:** *Tom Ravn will follow-up with Jay Hietpas, provide the MnDOT report on Precast Concrete Pavement and recommend next steps.*

Covers and title pages from three reports summarizing MnDOT's work done on Precast Concrete Pavements were included in the meeting materials.

**June Action Item No. 15:** *Follow-up on this item is forwarded to Mitch Rasmussen. State Aid will put together data sheets for each local agency and add new need numbers to those data sheets when the new county needs systems are finished to help frame the need to fund or preserve the road.*

Each county in Minnesota has developed, or is in the process of developing, a 2 page CSAH info sheet. Mitch Rasmussen will continue to work with Chair Hasbargen to see how new data regarding infrastructure value can be added to these info sheets.

**June Action Item No. 16:** *Bruce Holdhusen and Joel Ullring will develop a TRS to summarize a State of Practices on Base Stabilization for Existing and Rehabilitated Base Courses (NS 400). The results of the TRS will be summarized for the RIC at their September meeting. RIC will make a recommendation to the LRRB at their September meeting for further action.*

This TRS is part of a workplan that is currently in negotiation with Braun Intertec.

**June Action Item No. 18:** *Bruce Hasbargen will reach out to Mark Maloney and Mike Sheehan to inquire if they are interested in representing the LRRB on the TERRA Board.*

Both Mark Maloney and Mike Sheehan will represent the LRRB on the National Road Research Alliance (NRRRA, formerly TERRA) Board.

Linda Taylor suggested combining the September and October LRRB meetings. The proposal selection meeting (i.e., October) used to be done as a conference call. The budget does not change significantly from September to October, so the October meeting just uses the budget update from September. There are also logistical issues to take into consideration with multiple off-site meetings taking place at locations where researchers have to call in as opposed to being able to present in person. The group was receptive to combining the meetings and moving the location closer to the presenters. The MnROAD facility near Monticello and the Training Centers in Saint Cloud and Arden Hills were all suggestions for the future location.

**A motion was made by Tim Stahl and seconded by Steve Koehler to combine the September LRRB meeting with the October LRRB meeting, with the combined meeting being held in October 2016. Motion approved.**

## 2. Budget & Administration

### Budget Status Report

Debbie Sinclair reviewed the LRRB budget status spreadsheet that was included in the meeting materials.

- INV 645 (Implementation of Research Findings (RIC)) has a balance of \$83,187 that is uncommitted through FY 16.
- INV 916 FY16 (Technical Transfer Materials Development) has a balance of \$93,460 remaining that is not under contract.
- INV 924 (FY15 YouTube Videos) there are four in process (see list on the last page of the budget spreadsheet). The balance of \$23,412 was rolled forward. It currently shows the entire balance will be divided between FY16 & FY17 but that will change as needs come up.
- Completed projects:

INV 668 FY15 Technology Transfer Center, U of M - LTAP Program Base

INV 899 Performance Monitoring of Olmsted CR 117 and 104 and Aggregate Base Materials  
(Phase 2 is completed, Phase 3 has started)

INV 910 Partially Grouted Riprap Lab Flume Study

INV 916 FY14 Technical Transfer Materials Development

INV 928 ITS Institute (Addressing Rural Roadway Departure Fatalities)

INV 932 Determination of Effective Impervious Area in Urban Watersheds

INV 936 FY14-15 Focus Groups

INV 937 Development of Guidelines for Flashing Yellow Arrows for Protected/Permissive Use

INV 944 Minnesota Steel Pipe Service Life Map

INV 946 Guidelines for Permeable Pavement Systems

INV 949 Tack Coat Testing - Measuring Field Bond Strength

- The following funds were transferred for annual programs:

INV 668 FY16 Technology Transfer Center, U of M - LTAP Program Base

INV 675 FY16 Research Services

INV 676 FY16 MnROAD Research: Facility Support

INV 745 FY16 Library Services

- INV 983 (Cost-competitive Timber Bridge Designs for Long Term Performance) Brian Brashaw (PI) went to a different organization so this is delayed until the logistics associated with contracting with the US Forest Service can get worked through.
- INV 988 (TRS-Alternatives to Seal Coats) was recently executed.
- \$1,656 from the FY15 LRRB Contingency Account was used to cover some travel associated with one of the projects. The remaining balance was released back into the budget.
- \$1,342,215 was carried forward for use in FY16 (see the final page of the budget spreadsheet) with an available balance of \$756,541 for FY16. The first pie chart summarized all of the projects by category. The second pie chart showed the on-going annual programs only (LTAP, MnROAD, and Library Services) and were denoted in the previous pages with a “√” mark in the far left column.

## INV 999 Status Update

FY15, please disregard the notes at the bottom of the page. A total of \$88,580, spread out over the categories shown in the report, was paid out to date and \$46,129 that was not spent was released back into the budget.

FY16, only expenditure was \$10,921 for LTAP and Low Volume Roads conferences.

## Contract Amendment Report

There was a question at the June meeting as to why some of the end dates hadn't changed when it was clear that the amendment was for a time extension. The reason for this was that at the time the report was generated, the amendments had not been fully executed. The current contract end date is not changed until the amendment is executed. This information was included as a staff note in the June Meeting's draft minutes.

In the last three months there have only been two amendments: The first was for the LTAP Contract (No. 99008, Work Order No. 161) to add two special provisions that were missed at the time it was executed. The second was for the Report Publication Services Contract (No. 99008, Work Order No. 166) was for additional costs because they have written several more reports than they have done in similar time periods in the past and to amend the expiration date to better coincide with MnDOT's quarterly reporting dates.

## 2016 Meeting Dates and Locations

After much discussion the following LRRB meeting dates were chosen with some of the locations yet TBD.

### **2016 LRRB Meetings**

<b>Date</b>	<b>Time</b>	<b>Office, Location and/or City</b>
March 16	8:00 am to 3:45 pm	Either Golden Valley or Arden Hills
June 22 & 23	Full First Day Half Second Day	Duluth
October 19 (combined with September)	8:00 am to 3:45 pm	MnDOT St. Cloud Training Center
December 7 & 8	8:00 am to 4:30 pm	U of M Campus Club, Coffman Union, Minneapolis

### **2016 LRRB Outreach Meetings**

The October LRRB Outreach meeting would have to be moved to the evening before the combined September and October meeting.

<b>Date</b>	<b>Time</b>	<b>Office, Location and/or City</b>
June 21	4:00 pm to 6:00 pm	Duluth
October 18	4:00 pm to 6:00 pm	MnDOT St. Cloud Training Center

The discussion led to changes that were made to the LRRB and RIC Rosters.

#### LRRB Roster Changes:

- The new LRRB chair will be discussed at the 2015 October LRRB meeting
- Jim Foldesi, St. Louis County, will be replacing Bruce Hasbargen
- Lyndon Robjent and Tim Stahl have accepted another 4 year term.

#### RIC Roster Changes:

- Mike Flaagan will be the RIC Chair, replacing Jeff Hulsether. Mike will also be the liaison for LTAP
- John Brunkhorst, McLeod County, will replace Dave Robley
- Kelvin Howieson, D3 State Aid Engineer, will replace Merle Early.
- Dave Van Deusen is currently technical liaison for Office of Materials until December 15th. He is replacing Bernard Izevbekhai.

#### Research Conferences

A handout of the remaining 2015 Conferences was provided in the meeting materials, which included the list of LTAP Training and Education events.

NW Pavement Management Association Conference (October 20-23 in Vancouver, Washington)

Jeff Hulsether and Joel Ulring are confirmed to attend.

A handout of the 2016 Conferences was provided in the meeting materials.

Transportation Research Board (January 10-14 in Washington, D.C.)

The people in the table on the following page were approved to attend. Linda Taylor strongly recommended people register soon as the hotels are filling up quickly. Several hotels are within walking distance. Mitch Rasmussen has attended TRB in the past but not as the MnDOT State Aid Engineer. He encouraged people to try and pick flights that come in on Saturday so that he could set something up for Sunday, which has yet to be determined.

Linda explained that the names are forwarded for Out Of State Travel approval and then we will work with MnDOT Aeronautics on our flights, but that we are to register for the conference and hotel ourselves using the TRB website (<https://show.jspargo.com/trb16/reg/default.asp>)

**Action Item No. 1: Mitch Rasmussen will be sending out a note to board members with information on a potential informal outing on Sunday prior to the TRB Annual Meeting.**

Transportation Research Board 95th Annual Meeting Attendance

<p><b>LRRB Members (6)</b></p> <p>Kaye Bieniek – Olmsted County  Bruce Hasbargen – Beltrami County  Jeff Hulsether – City of Brainerd  (Jeff is taking the place of Tim Stahl – Jackson County )  Steve Koehler – City of New Ulm  Paul Oehme – City of Chanhassen  Lyndon Robjent – Carver County</p>	<p><b>Mn/DOT Staff (1 Research Services, 5 Materials)</b></p> <p>Dan Sullivan – RS  Jerry Geib – OM&amp;RR  Bernard Izevbekhai – OM&amp;RR  John Siekmeier – OM&amp;RR  Curt Turgeon – OM&amp;RR  Dave Van Deusen – OM&amp;RR</p>
<p><b>MnDOT LRRB Members (3)</b></p> <p>Mitch Rasmussen – State Aid  Linda Taylor – RS  Tom Ravn – Construction and Innovative Contracting</p>	<p><b>RIC Members (2)</b></p> <p>Klayton Eckles – City of Woodbury  Guy Kohlhofer – Dodge County  (Guy is taking the place of Mike Flaagan – Pennington County )</p>
<p><b>CTS (1)</b></p> <p>Joel Ulring – State Aid  (Joel is taking the place of Laurie McGinnis, who is attending but is not in need of funding)</p>	<p><b>MnDOT RIC Members (1)</b></p> <p>Hafiz Munir – RS</p>

#### New Policy for Out of State Trip Reports

Linda Taylor explained the new policy that requires anyone whose travel is sponsored by LRRB submit their expense and OST trip reports to get reimbursement. Both OST trip report and expenses should be submitted to Nancy Stone. Nancy will coordinate the review and distribution of reports to appropriate MnDOT staff for reimbursement. In the event that an OST trip report and/or expense report is submitted directly to RS, these documents must be forwarded to Nancy Stone. Only when RS staff receive both OST Trip and expense reports from Nancy can the expense be reimbursed.

Some members expressed concerns that the presenter’s materials are not readily available at the conference which makes it difficult to write an accurate Trip Report. The materials are provided later on the conference website but it is typically not very timely. Linda Taylor suggested that people forward any specific concerns to Mitch Rasmussen.

Linda also stated that Trip Reports will be added to the LRRB Agenda as a standard topic item. Action Items will be noted on OST Trip Reports and will be reviewed and discussed by the Board to determine next steps.

Chair Hasbargen reminded the group to take good notes. Lyndon Robjent also suggested that notes could be taken and inserted into the presentations using the conference’s SmartPhone app and e-mailed to yourself when you get back home.

Even if you are presenting at TRB you are still required to write a Trip Report. Linda queried the group to see if anyone was presenting at TRB. Dave Van Duesen said he will be presenting at a workshop held Sunday morning on NCAT.

**Action Item No. 2: Bruce Hasbargen will touch base with Mitch Rasmussen on whether RS needs to coordinate a get together (i.e., breakfast meeting) sometime during TRB to share/exchange feedback from the conference.**

NCAT Pavement Test Track Conference (March in Auburn, Alabama)

This conference does not have any eligibility information listed. Ben Worel and Joel Ulring went last year. The conference is usually 1 ½ days in length.

**Action Item No. 3: Dave Van Deusen will find out when and where the NCAT Pavement Test Track Conference is going to be held and get back to the group.**

AAPT Pavement Technologies Conference (March 13-16 in Indianapolis, Indiana)

John Garrity (OM&RR) is approved to attend. Dave Van Deusen said there is one other spot.

**Action Item No. 4: Dave Van Deusen will identify the 2<sup>nd</sup> attendee for the AAPT Pavement Technologies Conference in March and get back to the group.**

Transport Research Arena (April 18-21 in Warsaw, Poland)

**Action Item No. 5: Anyone planning to attend the Transport Research Arena in Poland, please contact Debbie Sinclair as soon as possible.**

LRRB Travel Guide

Several handouts covering travel procedures for LRRB members and state employees for In-State and Out-of-State Travel were included in the meeting materials. Debbie Sinclair stated that she was not going to go through it in detail but wanted to know if there were any questions. Linda Taylor explained that this has also been posted on the ‘Members Only’ portion of the LRRB website. Expenses must be submitted within 60 days or they’re subject to being taxed.

3. RIC Update

Tim Stahl gave an update on what took place at the RIC Meeting from earlier in the week.

Dan Van Deusen was introduced as the new LRRB representative from the Materials Office until December 15th. He will be LRRB staff and an RIC member. Dave replaces Bernard Izevbekhai who served as the acting Manager of the Road Research Section over the last three months.

The 2015-2016 Meeting Dates and Locations were chosen.

**2015-2016 RIC Meetings**

<b>Date</b>	<b>Office, Location and/or City</b>
October 29, 2015	MnDOT St. Cloud Training Center
November 23, 2015	Woodbury
March 14, 2016	Woodbury
June (waiting for LRRB)	TDB
September 12, 2016	MnDOT St. Cloud Training Center

Budget Review

Research Services is clarifying as to what funds are still available. They estimate \$30,000 of the original \$80,000 is remaining to move. Waiting to hear back on the contract from BRAUN Intertec on two TRSs.

## Project Presentations

INV 949: Tack coat testing: Measuring field bond strength

Jackson County uses this as a pay item, as opposed to it being incidental, and it was because of Tim's membership on the LRRB that this approach was very favorable on one of their projects. MnDOT is confirming that their specifications are in-line with other states. Conclusions are that 100 psi is approved tack strength and failure starts below 45 psi.

Project proposal: Compliance with MPCA's NPDES Storm Water Permit for Permanent Treatment

Randy Neprash from Stantec presented on post-construction requirements.

RIC would like to move this forward and ask LRRB to consider funding it. It has aspects of both research and implementation.

This idea has come out of the Needs Statement process the last three years in a row.

RIC members mentioned concerns with what was perceived as a new MPCA requirement (i.e., no longer able to use disc-anchored mulch in rural ditches for temporary stabilization)

**Action Item No. 6: MnDOT RS (Dan Sullivan) will contact Randy Neprash and reschedule him to present at the LRRB Meeting in October.**

## RIC Support Contract with SRF

- Task 4 – TZD Toolkit for Local Agencies (2015 RIC 04)  
Task is complete. Young Driver Toolkit report was handed out – supplemental PowerPoint available for presentations and will be posted soon on the LRRB website. The next step is advertising.
- Task 5.2 – Sign Maintenance and Management Online Training Course  
28 agencies have registered for the training, 17 have completed. Working on how to get word out.
- Task 7 - Impacts of Heavy Loads – Effects of Implements of Husbandry (aka Farm Equipment)  
Putting together graphical visual in layman's term (this much equipment = this many cars)
- Task 8 – Best Practices for RAP Asphalt Mixtures on MN County Roads  
Will also include management of stock piles that are provided by the contractor.  
Final take-away – Fact Sheet about the High RAP study/spec/bmps
- Task 9 - Temporary Traffic Control for Low Volume Roads  
TAP found that field manual is really geared for MnDOT and not local agencies  
Current field manual will be updated in near future - TAP hopes to see that field manual soon.
- Task 10 - Implementation of ITS Technology for Local Agencies  
Task refined to – ITS Technologies for side-street, stop-controlled intersections
- Task 13 - Guidelines for Flashing Yellow Arrows for Protected / Permissive Use  
Starting to see more of these, but they're more appropriate in urban settings than in rural.  
Linda Taylor informed the group that RS just released a report on this.
- Task 15 – Outreach  
Article in July APWA Reporter including Online signtech, Sign retroreflectivity toolkit, traffic sign life expectancy, updated traffic sign maintenance handbook. 40 minutes at CEAM meeting – Jeff Hulsether volunteered



## RIC Member and Chair Appointments

Mike Flaagan will be the new Chair.

## 4. Project Presentations

### Lightly Surfaced Roads and Aggregate Road Surface Rejuvenation

Professor Chuck Jahren from Iowa State University gave updates on two recently completed research projects. The presentations for Lightly Surfaced Roads: Stabilized Aggregate Applications (INV 939) and Aggregate Road Surface Rejuvenation (INV 942) were included in the meeting materials.

### TRS: Example Processes or Approaches for Addressing Public Traffic and Safety Concerns

Tim Plath, from the City of Eagan, called in a proposal on behalf of the CEAM Traffic Safety Committee. The proposal was included in the meeting materials. LRRB members thought the scope was fairly broad and this might vary significantly from a large organization like a metro county to a small city in rural Minnesota. Tim seemed receptive to the idea of working to refine the scope/scale of the project (i.e., \$10,000 seemed to not match the effort) and redefine some of the tasks (i.e., internet search, telephone interviews, literature review, online survey and summary of nationwide practices).

**Action Item No. 7: MnDOT RS (Dan Sullivan) will contact Mark Vizecky (MnDOT State Aid) and Jim Grothaus (LTAP) and arrange for them to work with the CEAM Traffic Safety Committee to revise the scope of the proposed project and come back at a later meeting.**

### Slope Failure Risk Analysis

Paul Stine (MnDOT State Aid) and Omid Mohseni (Barr Engineering) gave a proposal on the development of a GIS-based tool to predict potential slope failure at any given location in Minnesota. The presentation was included in the meeting materials. The LRRB is currently funding Slope Stabilization and Repair Solutions for Local Government Engineers (INV 979) and this tool would work well at predicting where those solutions might be needed.

### TRS: Construction Practices for Concrete Road Projects

Dodge County Engineer Guy Kohlhofer called in seeking more guidance on the construction of concrete roads. He has requested additional Transportation Research Synthesis work beyond the scope of a TRS currently being negotiated with Braun Intertec ("Best Practices for Managing Local Concrete Road Projects"). Kohlhofer said quite a bit of information is available on designing concrete road projects, but he needs to know how to handle the construction of them.

In addition to Braun's draft work plan, meeting materials included two other resources: 1) a report on an open house for a concrete overlay project done for MnDOT by the National Concrete Pavement Technology Center (CP Tech Center) and Federal Highway Administration; and 2) a chapter entitled "Construction" from the May 2014 Guide to Concrete Overlays, published by CP Tech Center and the American Concrete Pavement Association.

Guy Kohlhofer wanted more guidance than the concrete guide provides, but less effort than a CP Tech Center open house would require. He sought direction from the LRRB board.

Several LRRB members stated that they knew where he was at, having all been there before with their first concrete project. They also did not feel that an open house put on CP Tech Center would be worthwhile and felt that much of what Guy was looking for already exists. They suggested starting with Matt Zeller and Bob McPartlin from the Concrete Pavement Association of Minnesota for training in this

area. They also suggested working with Joel Ulring to facilitate training and create a resource page on MnDOT's State Aid website.

**Action Item No. 8: Guy Kohlhofer will work with Matt Zeller, and Joel Ulring to survey existing best practices, sponsor training and put together a resource page for concrete projects that includes construction administration and traffic management.**

## 5. FY16 RFP Update

Hafiz Munir provided an overview on the FY16 RFP process that closed on September 16. A total of 16 Needs Statements (NS) were included in the RFP. NS 411, Developing the Right Recipe for Using Recycled Materials in Aggregate Bases, was pulled back. The reason was Joel Ulring is working on a TRS in this topic (as decided at the LRRB 2015 Summer Meeting) and this work is still in progress. Further research in this area should wait until the results of that TRS are summarized.

In response to the 15 Needs Statements posted (between LRRB and MnDOT) during the RFP process, we received a total of 30 proposals.

Brenda Thomas mentioned that the University of Minnesota submitted proposals on all but two Needs Statements. One Needs Statement (No. 410) received multiple proposals. Five proposals were received in various Knowledge Building topic areas and there were four unsolicited proposals.

Next steps include summarizing the proposals in a spreadsheet and sending them out to the LRRB members in September for them to review and prioritize. The selection will occur at the October 26 LRRB Meeting. Presentations by the Principal Investigators (PIs) will happen at the meeting LRRB Meeting on December 9 and 10, 2015.

## 6. Project Updates

### Permeable Pavements in Cold Climates: State of the Art and Cold Climate Case Studies (INV 946)

Professor John Gulliver from the University of Minnesota called in a project update on this recently completed project. The presentation was included in the meeting materials.

### Lighting Levels for Isolated Intersections: Leading to Safety Improvements (INV 931)

Sue Zarlring with MnDOT's Office of Traffic called in a project update on this recently completed project. The presentation was included in the meeting materials.

### Tack coat testing - Measuring Field Bond Strength (INV 949)

Eddie Johnson with MnDOT's Office of Materials and Road Research called in a project update on this recently completed project. The presentation was included in the meeting materials.

## 7. Round Robin

Linda Taylor

Staffing:

- Carole Wiese (MnDOT RS Travel Facilitator) is planning on retiring, Lori Sobczak has been hired to fill in behind her and will be coordinating LRRB travel and meeting logistics
- Alan Rindels (Senior Engineer) has moved to Metro Water Resources. We are actively filling his position.

RS staff are working to get the Transportation and Research Assistance Program (TRAP) and University Master Contracts RFPs in place. If you know of any consultants that might be interested in doing research assistance work, please let them know about the TRAP as it will be in effect for up to five years.

### Tim Stahl

Tim Stahl gave an overview of behalf of Joel Ulring on the Chip Seal Study and the Pavement Preservation Resource Center. The presentations were included in the meeting materials. Bruce Hasbargen will follow-up with Joel Ulring to see if it's possible to get research on existing pavement segments with and without chip seals.

**Action Item No. 9: Send information, links or other resources to Joel Ulring on topics that you would like to see on the State Aid website.**

### Kaye Bieniek

Thanks to everyone for coming down to Olmsted.

### Dave Van Deusen

Dave wanted to give a quick update on the NCAT and the NRRRA partnerships. Mark Maloney and Mike Sheehan will have their first official NRRRA Executive Board meeting in November. There is interest in Michigan and Wisconsin to join NRRRA.

### Debbie Sinclair

Debbie just received an e-mail with an amendment request on the FY16 Technical Transfer contract with CTC & Associates. They are asking to have the end date extended from October 31, 2015 to August 31, 2016 to coincide with the expiration of the TRAP list. They are also asking for an additional \$10,199 which when added to the original amount of \$89,701 will make for a new total of \$99,900. This will allow for the completion of three additional 2-page Tech Summaries over the 20 that were originally budgeted. There is money available for this, as \$93,460 for this type of work was unobligated.

***A motion was made by Steve Koehler, seconded by Lyndon Robjent, to approve the amendment request from CTC & Associates in the amount of \$10,999. Motion approved.***

### Shannon Fiecke

On the RS website, Shannon showed that in addition to being able to browse reports by Year, you can also now sort by Title, Summary, Researcher, Subject Category, Report Number, etc. You can also find related materials, such as PowerPoints, news stories or blogs. Even if something isn't funded through RS, there is still value to linking to related materials. There is also desire to create topic-level webpages that list current or recently completed research on a particular topic.

## Lyndon Robjent

Lyndon wanted to know if the group was interested in funding the proposal presented by Paul Stine (MnDOT State Aid) and Omid Mohseni (Barr Engineering) or was it going to wait until October. Just because the LRRB funds Phase I does not automatically mean they will fund Phase II.

***A motion was made by Lyndon Robjent, seconded by Paul Oehme, to approve Barr's Proposal, Slope Failure Risk Analysis, in the amount of \$60,000. Motion approved.***

## Dan Sullivan

Kaye Bieniek is the TL for INV 977 (Innovative Technology Workshop on 3D Lidar). A video was shown to the group for that research project which was filmed in the conference room that the meeting was taking a place. KSTP also did a story on the project. The links to both are provided below.

<https://www.youtube.com/watch?v=WsBbKjcgzX8>

<http://kstp.com/article/stories/s3872810.shtml>

The meeting was adjourned.

## **Summary of Action Items**

### **LRRB September 2015 Meeting Minutes**

**Action Item No. 1** Mitch Rasmussen will be sending out a note to board members with information on a potential informal outing on Sunday prior to the TRB

## Summary of Action Items

### LRRB September 2015 Meeting Minutes

Annual Meeting.

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- Action Item No. 3** Dave Van Deusen will find out when and where the NCAT Pavement Test Track Conference is going to be held and get back to the group.
- Action Item No. 4** Dave Van Deusen will identify the 2nd attendee for the AAPT Pavement Technologies Conference in March and get back to the group.
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- Action Item No. 6** MnDOT RS (Dan Sullivan) will contact Randy Neprash and reschedule him to present at the LRRB Meeting in October.
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- Action Item No. 8** Guy Kohlhofer will work with Matt Zeller, and Joel Ullring to survey existing best practices, sponsor training and put together a resource page for concrete projects that includes construction administration and traffic management.
- Action Item No. 9** Send information, links or other resources to Joel Ullring on topics that you would like to see on the State Aid website.