



LRRB Spring Strategy Meeting

March 16, 2016
Minnesota Department of Transportation
2055 North Lilac Drive
Golden Valley, MN 55422
Conference Room 3

MINUTES (Approved 6/22/16)

LRRB Members Present:

Lyndon Robjent (Chair), Carver County
Mitch Rasmussen, MnDOT - State Aid
Jim Foldesi, Saint Louis County
Tim Stahl, Jackson County
Steve Koehler, City of New Ulm
Kaye Bieniek, Olmsted County
Paul Oehme, City of Chanhassen
Tom Ravn, MnDOT - Construction Office
Linda Taylor, MnDOT - Research Services
Laurie McGinnis, U of M - CTS

Others Present:

Debbie Sinclair, MnDOT - Research Services
Hafiz Munir, MnDOT - Research Services
Shannon Fiecke, MnDOT - Research Services
Dan Sullivan, MnDOT – Research Services
Ben Worel, MnDOT - Materials Office
Brenda Thomas, U of M – CTS
Mindy Carlson, U of M – CTS
Jim Grothaus, U of M – CTS

1. Call To Order

The meeting was called to order by new Chair Lyndon Robjent. Following introductions Chair Robjent went over the purpose of the Spring LRRB Meeting. An additional funding request was added before lunch and the order of two items after lunch was switched. After noting these two changes the agenda was approved by Chair Robjent.

A motion was made by Steve Koehler, and seconded by Paul Oehme, to approve the minutes of the LRRB meeting from December 9-10, 2015. Motion passed.

LRRB & RIC Rosters

Updated LRRB, RIC and Outreach Committee Rosters were included in the meeting materials. Mitch Rasmussen noted the most important task will be to appoint a new liaison between the LRRB and the RIC. Tim Stahl will stay on as the liaison through the end of 2016. This was the first official meeting for Jim Foldesi from Saint Louis County.

Action Item No. 1: Debbie Sinclair will connect with Nancy Stone to update and correct any errors that might be in either of the rosters.

Pending Action Items

Linda Taylor explained that all Action Items were either addressed on the meeting agenda or they had been completed.

2. Budget & Administration

Debbie Sinclair reviewed the current budget summary spreadsheets.

Budget Status Report

The following projects are completed:

- INV 886 Cost-Effective Pavement Preservation Solutions for the Real World
- INV 940 Development of Cost-Effective Timber Bridge Repair Techniques for Minnesota
- INV 945 Next Generation Bridge Management Tools and Inspection
- INV 982 The Transportation Futures Project: Planning for Technology Change
- INV 988 TRS1602-Alternatives to Seal Coats

- INV 916 FY16 Technical Transfer Materials Development

This project has an unobligated balance is \$93,460. Part of this is due to the change in the TRS contracting process, where they are no longer all included in one contract with CTC and each are given their own INV number.

- INV 924 FY16-17 YouTube Videos

This includes unused FY15 funds and there is \$133,412 available for FY16-17.

The total amount allotted for FY17 is \$3,635,660, which is an increase of \$141,447 from FY16.

The available balance for FY16 is \$819,543, which rolls forward to FY17. The current estimated balance is \$2,876,165, and is \$1,246,665 when taking total on-going program commitments into consideration.

The pie chart on the left represents the FY16 budget summary by strategic category and the pie chart on the right represents the FY16 on-going programs by strategic category.

INV 999 Status Update

- Consultant: The negative balance is due to fiscal year overlap of the publishing contract. Final quarter of prior contract paid from FY16 funds as it ended 09/30/15. This will be corrected as part of next FY's budget proposal.
- Meetings: \$12,910.24 was encumbered for Summer meeting.
- Supplies: We spent \$4,929.23 for promotional items (flash drives, keychains), \$1,500 for exhibit booth registration and \$604.31 to have SRF create six new display panels for the Minnesota Transportation Conference.

- Conference: Nothing was charged here as registration fees have been paid as part of Travel Expenses.

2016 LRRB Meetings

An updated meeting list was provided. Note the summer meeting in June is taking place at Downtown Holiday Inn Hotel & Suites in Duluth on June 22-23.

Upcoming Conferences and Out-of-State Travel

A handout of 2016 Conferences was provided in the meeting materials. There were two late additions (NCAT and NRRRA) to the list and two international conferences that RS needs to hear back on as soon as possible. Who is eligible to attend several of the upcoming conferences has not yet been identified. Mitch Rasmussen felt it's important for the Board to take some action on who should attend.

- International Conference on Winter Maintenance and Surface Transportation Weather (Fort Collins, Colorado; April 25-27, 2016)
Attendee information unavailable

This is an international conference that happens to be located within the United States. Tom Ravn suggested that this be opened up to RIC members. Debbie Sinclair asked that people get back to her as soon as possible on this.

- International Society of Concrete Pavements Conference (San Antonio, Texas; August 28-31, 2016)
Attendee information unavailable

This is also an international conference that happens to be located within the United States. Hafiz Munir has indicated an interest in attending.

- National LTAP Conference (Madison, Wisconsin; July 17-21, 2016)
6 RIC local members, 3 LRRB MnDOT members, 2 LRRB members and 1 MnDOT Research Services staff

Mitch Rasmussen stressed that this is a good conference to attend and a great learning experience. Jim Grothaus is attending; and he explained that since it is located in Madison they may be looking for volunteers from Minnesota to help out. Mitch Rasmussen, Linda Taylor and Tom Ravn are the 3 LRRB MnDOT members that have been approved to attend in the past.

Action Item No. 2: Board Members interested in attending the National LTAP Conference should contact Debbie Sinclair or Lori Sobczak.

- MAASTO Annual Meeting (Minneapolis, Minnesota; August 8-11, 2016)
Tom Ravn explained that since MnDOT is hosting this year, there would be no cost for MnDOT employee registration and that MnDOT State Aid is looking into the possibility of having it covered for cities and counties.

Action Item No. 3: Mitch Rasmussen will send out a note on the MAASTO Annual Meeting letting the Board members know of the eligibility requirements.

- American Public Works Association (APWA) Conference
(Minneapolis, Minnesota; August 28-31, 2016)
Open to all LRRB & RIC Members

Mitch Rasmussen said that usually when Minnesota hosts something it is opened up to everyone to be able to attend. Lyndon Robjent indicated an interest in attending.

Action Item No. 4: Debbie Sinclair will add the APWA Conference in Minneapolis to the official list.

- CTS Research Conference (Saint Paul, Minnesota; November 3, 2016)
Open to all LRRB & RIC Members

This was moved from May to November.

- International Conference on Timber Bridges (Sweden)
2 LRRB members

This will not be held in 2016; Tim Stahl said that he heard from Dave Conkel (MnDOT State Aid Bridge Engineer) that this is set for June 2017.

Debbie Sinclair needs to know as soon as possible if anyone is interested in the following two international conferences:

- European Transport Conference (Barcelona, Spain; October 5-7, 2016)
2 LRRB members
- World Congress on Intelligent Transport Systems
(Melbourne, Australia; October 10-14, 2016)
2 LRRB members

Action Item No. 5: Board Members were asked to look at the trips list between now and the next meeting and let Debbie Sinclair know if you are interested in attending any of them.

Action Item No. 6: Mitch Rasmussen and Lyndon Robjent will come up with recommendations on who is eligible to attend the upcoming conferences where that has not yet been identified.

Amendment Review

The amendment report covered October 2015 through March 2016. There were a total of 13 amendments, of which 11 were for additional time.

3. LRRB Outreach Committee Update

Mitch Rasmussen provided an update on the LRRB Outreach Committee which has been added to these minutes as **Attachment 1**.

Action Item No. 7: Board Members were asked that if they know of anyone who is qualified and willing to serve on the TAP for the Rough Roads Video to please tell Mitch or let SRF know.

Action Item No. 8: Linda Taylor suggested that the Alternative Intersection Design video be placed on the agenda for the next TRIG meeting to discuss a possible cost-sharing opportunity.

4. RIC Update

The RIC meeting was held on March 14th. Ben Worel is filling in as the Office of Materials and Road Research representative. Both existing and new members (i.e., Steve Bot, City of Albertville and John Brunkhorst, McLeod County) wanted a presentation on how things are done. Apparently Julie Skalman would do the welcoming and training in of new members which would include walking both groups through the orientation materials, Linda Taylor explained that much of that material should be on the LRRB website. There is a “public-facing” portion and a “Members Only” portion of the website and most of this information is there.

Action Item No. 9: MnDOT RS will add orientation of new LRRB and RIC members provided by Linda Taylor to the Summer Meeting’s agenda in June.

RFP for RIC Consultant Support Contract

The Request for Proposals (RFP) for a consultant to perform RIC support activities closed at the end of February 2016. Two proposals were received, and the proposal selection committee will meet March 25 to make a decision in accordance with MnDOT “best value” selection procedures.

RIC Support Contract Updates – Current Tasks

Tim Stahl provided an update on the current tasks from the RIC support contract which has been added to these minutes as **Attachment 2**.

Action Item No. 10: Tim Stahl will check and see what level ADT for Low Volume roads will allow them to be included in the Mn MUTCD (RIC Contract Task 9).

Action Item No. 11: Linda Taylor will provide Tim Stahl with a contact who builds equipment from MnDOT’s Central Shop to be added to the TAP (RIC Contract Task 11).

5. FY17 Annual Program Funding Requests

INV 676 MnROAD/MnROAD Tech Transfer

Ben Worel and Glenn Engstrom gave a presentation which was included in the meeting materials. They were requesting \$570,000 per year for FY17 & FY18.

INV 668 LTAP

Jim Grothaus and Mindy Carlson gave the presentation. The information which was included in the meeting materials stated they were requesting \$370,000 per year for FY17 & FY18.

INV 998 OPERA

Mindy Carlson gave the presentation. The information which was included in the meeting materials stated they were requesting \$160,000 per year for FY17 & FY18.

INV 675 Research Services Support

Linda Taylor, Hafiz Munir and Shannon Fiecke all gave portions of a presentation which was included in the meeting materials. They were requesting \$230,000 per year for FY17 & FY18.

INV 745 Library

Sheila Hatchell gave a presentation which was included in the meeting materials. They were requesting \$70,000 per year for FY17 & FY18.

INV 916 Tech Transfer

Shannon Fiecke stated that they are not asking for any additional funding.

INV 927 Outreach Website (HNTB)

Shannon Fiecke reviewed the information included in the meeting materials. The LRRB website publication work is currently being done by HNTB at a cost of approximately \$1800/month. This is a duplicative effort when considering the amount of MnDOT work that is being done for the web postings. There is a desire to make our website look more like the one used for Clear Roads, which was created and is updated by CTC & Associates. Shannon asked for authorization from the Board to request a formal proposal from CTC & Associates via the Outreach Committee to design and host a new LRRB website.

There was a motion by Steve Koehler, seconded by Tim Stahl, to authorize the Outreach Committee to request a formal proposal for the design and maintenance of the new LRRB website and present the results at the summer meeting. Motion passed.

INV 924 YouTube Videos

This was discussed by Mitch Rasmussen during his Outreach Committee Update (please see Attachment 1).

INV 999 Project Administration

Debbie Sinclair went over the information which was included in the meeting materials. The current year has \$124,000 budgeted, with an available balance of \$13,019 to get us through end of the fiscal year. There is no overall increase requested; this is just a rearrangement of the budget to align with actual current year spending.

- Consultant: Increasing by \$5,000 to cover full year of contract
- Meetings: This is staying the same
- Conference Registration: This is being deleted. These are being paid for as part of travel expenses
- Supplies: This was increased by \$5,000-this included display space at conferences, promotional items, awards, etc.
- Travel Expenses: This decreased by \$5,000-even with rolling registrations into this line we have come in under budget for FY16
- Focus Group: There is no change to the Focus Groups.

Any unused funds are also released back into budget at end of fiscal year.

Program Contingency

Debbie explained the \$50,000 contingency item for FY17. This is the same level as for FY2016, which has not been spent yet. Any unused funds are also released back into budget at end of fiscal year.

6. Other Funding Requests & Discussion

TRS: Alternative Deicers for Snow and Ice Control

Laura Fay from Montana State University gave a presentation over the phone which was included in the meeting materials. They were requesting \$20,000 with a proposed match from their University Transportation Center of \$30,000.

INV 975 Stripping Under Chips Seals

David Rettner from American Engineering Testing (AET) gave a presentation which was included in the meeting materials. Their proposal did not include a specific request for additional funding, but they were asking if funds were available for a "Phase II" to publish a final report from the project (Phase I).

Action Item No. 12: RS will work with Dave Rettner with AET to amend the contract or execute a new contract for publishing the report for Phase I of (INV 975 Stripping Under Chips Seals).

Action Item No. 13: MnDOT RS will add Paul Oehme to the TAP if there is a Phase II for INV 975 Stripping Under Chips Seals.

TRS: Advance Stop Lines at Stop Signs

Steve Koehler presented on a request from the City of Edina to investigate the effectiveness of stop signs. Initial searches have revealed little information and the City is asking if more can be done. The request did not include an amount for funding.

Performance Comparisons of Structural Fibers and Development of a Specification for Using Structural Fibers in Thin Concrete Overlays (NS 432)

Maria Masten from MnDOT OMRR made a presentation on the need for additional funding for the project for which there is great interest. She was requesting \$33,417. Linda Taylor suggested going before TRIG to request half of the amount being asked for.

7. District 3 (Saint Cloud) Focus Group Update

Brenda Thomas gave a presentation on the District 3 Focus Groups. They are scheduled to be held at the MnDOT St. Cloud Training Center on Thursday, March 31, 2016 from 10:00 am to 12:30 pm following a State Aid Meeting from 9:30 am to 10:00 am.

- Currently there are 24 people signed up to attend (12 counties, 3 cities, 2 private consultants who may have contracts to act as city engineers and 7 MnDOT)
- The deadline for signing up is March 23rd
- Kelvin Howieson (District State Aid Engineer) has sent out the notice three times
- Ted Schoenecker and Mitch Rasmussen have shared this information at various meetings that they have attended

The groups that have signed up so far have chosen a diverse selection of topics.

Action Item No. 14: Brenda Thomas will e-mail the form with the Focus Group RSVP totals to the Board members. *THIS ACTION ITEM IS COMPLETE*****

Action Item No. 15: Ben Worel will follow-up with Dan Sullivan on which representatives from the Maplewood Lab should attend. *THIS ACTION ITEM IS COMPLETE*****

8. FY17 LRRB Out-of-State Travel List

Mitch Rasmussen presented the Out-of-State Travel List that was included with the meeting materials because he wanted the Board to be aware of the amount of money (\$122,000) that was budgeted for travel. Although the document was in a MnDOT format, it was his desire to have the format formally approved by the Board. We want to make sure that we are sending the right amount of people to conferences. Mitch said that he needed action on the list now, but that today was just the start of the process. It has already been preliminarily shared with the Assistant Commissioners group. They are also working to formalize flowcharts that explain the pre-trip and post-trip processes.

A motion was made by Mitch Rasmussen and seconded by Steve Koehler, to approve the draft Out-of-State Travel List. Motion passed.

Action Item No. 16: Debbie Sinclair will send out the updated pre-trip and post-trip processes to the Board Members when they are finalized.

9. LRRB Strategic Plan Update

There is a need to have some help on developing the updates to the Strategic Plan. The biggest responsibility of the Committee is to look at whatever a consultant puts together. By the time this process is complete, it could take up to six months.

In addition to the plan, it also includes operating procedures (i.e., Onboarding, Travel Processes and Marketing). Laurie McGinnis saw a lot of value in taking a comprehensive look and thought that was a good approach. Linda Taylor said that this did take a lot of work the last time through.

It was suggested to possibly reach out to the consultants who are already on the existing list. The Committee consists of Lyndon Robjent, Kaye Bieniek, Laurie McGinnis and a city representative. Paul Oehme volunteered to be on the Committee. Lyndon Robjent and Mitch Rasmussen could be co-chairs but they needed someone from MnDOT to coordinate the work.

A motion was made by Kaye Bieniek and seconded by Paul Oehme, to set a goal of \$75,000 to update the Strategic Plan and operating procedures, with an additional goal to have a consultant selected for the project by the June meeting. Motion passed.

10. Trip Reports

Mitch Rasmussen explained that he, Nancy Stone, Debbie Sinclair and Lori Sobczak are still making improvements to the process for how these should be handled. In the meantime, Board members should remember what research needs they saw at TRB (i.e., “nuggets”) in January and should include them on the SurveyMonkey RSVP tool that is being used for the Focus Groups on March 31st.

Action Item No. 17: Brenda Thomas will send the e-mail with the link to Focus Group’s SurveyMonkey RSVP tool to the Board members. Hafiz Munir will forward this to the RIC members. *THIS ACTION ITEM IS COMPLETE*****

11. Multi-Proposals

This item will be added to the Summer Meeting’s agenda in June.

12. Project Updates and Presentations

Renae Kuehl from SRF Consulting Group gave an update on Younger Drivers Toolkit for Local Agencies.

Başak Aldemir Bektaş from Iowa State University gave an update on Next Generation Bridge Management Tools and Inspection.

Dan Wegman from American Engineering Testing gave an update on the TRS: Alternatives to Seal Coats.

All three researchers' presentations were included in the meeting materials.

13. Funding Decisions

There was a motion by Mitch Rasmussen, seconded by Steve Koehler, to fund INV 676 (MnROAD/MnROAD Tech Transfer) in the amount of \$570,000 for FY17/18. Motion passed.

There was a motion by Jim Foldesi, seconded by Paul Oehme, to fund INV 668 (LTAP) in the amount of \$370,000 for FY17/18. Motion passed, with Laurie McGinnis abstaining.

There was a motion by Mitch Rasmussen, seconded by Tim Stahl, to fund INV 998 (OPERA) in the amount of \$160,000 for FY17/18. Motion passed, with Laurie McGinnis abstaining.

There was a motion by Steve Koehler, seconded by Tom Ravn, to fund INV 675 (Research Services Support) in the amount of \$230,000 for FY17/18. Motion passed, with Linda Taylor abstaining.

There was a motion by Paul Oehme, seconded by Kaye Bieniek, to fund INV 745 (MnDOT Library) in the amount of \$70,000 for FY17/18. Motion passed.

There was a motion by Jim Foldesi, seconded by Steve Koehler, to fund INV 999 (Program Administration) in the amount of \$124,000 for FY17. Motion passed.

There was a motion by Mitch Rasmussen, seconded by Kaye Bieniek, to fund the Program Contingency at \$50,000 for FY17. Motion passed.

There was a motion by Kaye Bieniek, seconded by Paul Oehme, to fund the TRS: Field Usage of Alternative Deicers for Snow and Ice Control from Montana State University in the amount of \$30,000. Motion passed.

There was a motion by Steve Koehler, seconded by Tim Stahl, to fund the TRS: Advance Stop Lines at Stop Signs from the City of Edina University in the amount of \$10,000. Motion passed.

There was a motion by Jim Foldesi, seconded by Kaye Bieniek, to fund NS 432 (Performance Comparisons of Structural Fibers and Development of a Specification for Using Structural Fibers in Thin Concrete Overlays) in the amount of \$16,708.50. Motion passed.

There was a motion by Paul Oehme, seconded by Jim Foldesi, to fund the Updates to the Strategic Plan and Operating Procedures in the amount of \$75,000. Motion passed.

14. Round Robin

Paul Oehme: Good job to Lyndon on his first meeting as Chair.

Debbie Sinclair: Lori Sobczak is working with Jim Foldesi on the fun event somewhere around Duluth at the Summer Meeting in June.

The University and Master Contracts have yet to get out of Administration.

Ben Worel: Every 3rd Tuesday of the month from 9:00 am to 10:00 am MnROAD does a *Research Pays Off Seminar Series* via webinar that he would like to make the Board members aware of.

Laurie McGinnis: CTS will be submitting applications to renew the Roadway Safety Institute in response to the University Transportation Center (UTC) Program's RFP in the next few weeks. The deadline for applications is May 13th. This effort, if successful, will provide funding for the Roadway Safety Institute for another 5 years.

Shannon Fiecke: Thanks to everyone who worked the LRRB Booth at the Minnesota Transportation Conference.

Tom Ravn: The name of the organization (Local Road Research Board) should be featured in a more prominent position on the new display.

Kaye Bieniek: It would be nice to know who is on the LRRB, and RIC. Would it be possible to include pictures of the two groups on the new display?

Action Item No. 18: Updating the look and style of the LRRB booth display will be added to the agenda for the Outreach Committee when it meets in June.

Steve Koehler: Good job to Lyndon on his first meeting as Chair.

Mitch Rasmussen: He is looking forward to the end of the legislative session.

Dan Sullivan: Dan stated his first research project when he started here was the TRS: Alternatives to Seal Coats. The final report was published *ahead of schedule and under budget* a few days before his one-year anniversary with RS&L.

15. Adjourn

There was a motion by Lyndon Robjent, seconded by Steve Koehler, to adjourn the meeting. Motion passed. Mitch Rasmussen requested the record reflect that Lyndon Robjent's first meeting as Chair adjourned one minute early at 3:59 pm.

Summary of Action Items

LRRB Spring 2016 Meeting Minutes

- Action Item No. 1** Debbie Sinclair will connect with Nancy Stone to update and correct any errors that might be in either roster.
- Action Item No. 2** Board Members interested in attending the National LTAP Conference should contact Debbie Sinclair or Lori Sobczak.
- Action Item No. 3** Mitch Rasmussen will send out a note on the MAASTO Annual Meeting letting the Board members know of the eligibility requirements.
- Action Item No. 4** Debbie Sinclair will add the APWA Conference in Minneapolis to the official list.
- Action Item No. 5** Board Members were asked to look at the trips list between now and the next meeting and let Debbie Sinclair know if you are interested in attending any of them.
- Action Item No. 6** Mitch Rasmussen and Lyndon Robjent will come up with recommendations on who is eligible to attend the upcoming conferences where that has not yet been identified.
- Action Item No. 7** Board Members were asked that if they know of anyone who is qualified and willing to serve on the TAP for the Rough Roads Video to please tell Mitch or let SRF know.
- Action Item No. 8** Linda Taylor suggested that the Alternative Intersection Design video be placed on the agenda for the next TRIG meeting to discuss a possible cost-sharing opportunity.
- Action Item No. 9** MnDOT RS will add orientation of new LRRB and RIC members provided by Linda Taylor to the Summer Meeting's agenda in June.
- Action Item No. 10** Tim Stahl will check and see what level ADT for Low Volume roads will allow them to be included in the Mn MUTCD (RIC Contract Task 9).
- Action Item No. 11** Linda Taylor will provide Tim Stahl with a contact who builds equipment from MnDOT's Central Shop to be added to the TAP (RIC Contract Task 11).
- Action Item No. 12** RS will work with Dave Rettner with AET to amend the contract or execute a new contract for publishing the report for Phase I of (INV 975 Stripping Under Chips Seals).

Summary of Action Items

LRRB Spring 2016 Meeting Minutes

- Action Item No. 13** MnDOT RS will add Paul Oehme to the TAP if there is a Phase II for INV 975 Stripping Under Chips Seals.
- Action Item No. 14** Brenda Thomas will e-mail the form with the Focus Group RSVP totals to the Board members. ***THIS ACTION ITEM IS COMPLETE***
- Action Item No. 15** Ben Worel will follow-up with Dan Sullivan on which representatives from the Maplewood Lab should attend. ***THIS ACTION ITEM IS COMPLETE***
- Action Item No. 16** Debbie Sinclair will send out the updated pre-trip and post-trip processes to the Board Members when they are finalized.
- Action Item No. 17** Brenda Thomas will send the e-mail with the link to Focus Group's SurveyMonkey RSVP tool to the Board members. Hafiz Munir will forward this to the RIC members. ***THIS ACTION ITEM IS COMPLETE***
- Action Item No. 18** Updating the look and style of the LRRB booth display will be added to the agenda for the Outreach Committee when it meets in June.

Attachment 1 to LRRB Spring 2016 Meeting Minutes

Outreach Committee Update

Mitch Rasmussen stated the meeting update from October 2015 is still the most current as the committee has not met since then. He wanted to update the Board on several videos that are in the planning stage.

Rough Roads

SRF Consulting is putting together the scope and budget for this and they are reaching out for TAP members.

Action Item No. 7: Board Members were asked that if they know of anyone who is qualified and willing to serve on the TAP for the Rough Roads Video to please tell Mitch or let SRF know.

Truck Weight Compliance

Mitch has talked with Jim Grothaus about this. Since the training runs through Northland Community & Technical College further work on cost-sharing is on hold until they can get a better handle on the Northland's schedule.

Alternative Intersection Design (J-Turns and RCUTs)

This effort is geared toward videos that would be available for local businesses that show that they do provide a benefit to traffic flow. There is currently not a good way to measure how many cities or counties are putting these in. MnDOT installed one in Scott County and when an interchange was later put in, people still used the RCUT to make their left turns. Lyndon Robjent and Jim Foldesi both stated that these have worked well.

Action Item No. 8: Linda suggested that the Alternative Intersection Design video be placed on the agenda for the next TRIG meeting to discuss a possible cost-sharing opportunity.

Careers in Engineering

This effort involves updating an older video that marketed careers in engineering to high-school aged children. This could be part of a future RIC project. Mitch reached out to Sue Mason, she serves on the APWA's Tech Transfer Committee, for cost-sharing but that conversation is still about a year out. There is a desire to move forward on this so SRF will work with a local video company that specializes in animation to do this.

Linda suggested checking with AASHTO's TC3 Pooled Fund where they would help develop the curriculum and forward it to Jim Grothaus's group.

Pedestrian Crossings

Bolton & Menk is putting together the scope and budget for this. This effort involves developing tools you can use when requests come in for marked pedestrian crossings.

Other new ideas discussed in June 2015 before the Summer Meeting included **Traffic Signal Myths**.

Lyndon Robjent thought that these videos were one of the greatest things we (the LRRB, RIC and Outreach Committee) do.

Attachment 2 to LRRB Spring 2016 Meeting Minutes

Summary of Current Tasks from the RIC Support Contract

Task 7 - Impacts of Heavy Loads – Effects of Implements of Husbandry (Chair: Tim Stahl)

- The implementation goal is to educate legislators and ag industry on the issues
- September 3, 2015 – Met with TAP
- Reviewed history summary, interview summary and farm equipment research
- Discussed the format of the final deliverable (focus more on graphics to tell story rather than words).
 - Table that shows max weights for IOHs by state for roads, bridges and spring weight restrictions.
 - Table that lists all state laws for all trucks, IOHs, bridges and spring weight load restrictions
- Graphics:
 - Truck to passenger car equivalents
 - Pictures of four types of IOH's with max weight for each type in each state
 - IOH's over time – 1965, 1990 and 2015. Pictures and average weight.

Task 8 - RAP Asphalt Mixtures on MN County Roads (Chair: Mike Flaagen)

- The implementation is best practices for RAP use and management of RAP stockpiles
- Researched past studies and gathered technical resources that were identified at the last TAP meeting
- Ron Bumann from State Aid Construction collected cores of low-oil coarse mixes
- Working to set the next TAP meeting

Task 9 - Temporary Traffic Control for Low Volume Roads (Chair: Jim Grothaus)

- September 3, 2015 – Met with TAP
- Develop a summary document that lists the issues locals face with the current field manual, which can be used to propose changes to the MN MUTCD committee.
 - SRF staff met with Mark Vizecky and Kathy Schaefer to review the maintenance matrix and finalize the content and correct layouts to use.
 - Met with urban representatives (Woodbury and Eagan) on the TAP to get input on details for urban matrix
 - 11/12/15 – Hosted a TAP meeting to review the rural matrix, urban matrix and white paper
 - Met with Kathy Schaefer to discuss updating her tabletop training materials for the Work Zone training course.

Action Item No. 10: Tim Stahl will check and see what ADT for Low Volume roads will allow them to be included in the Mn MUTCD.

Task 10 - Implementation of ITS Technology for Side-Street Stop-Controlled Intersections for Local Agencies (Chair: Ted Schoenecker)

- TAP decided to focus on flashing LED stop signs and intersection conflict warning systems
- 9/15/15 - TAP meeting to review the proposed guidebook outline
 - Conducted a literature search on ICWS and LED Stop signs and summarized the findings
 - Wrote a “state of the practice” summary for ICWS and LED stop sign
- 11/18/15 - TAP meeting to review the draft guidebook. Discussed comments and final product format.

Task 11 - De-Icing and Anti-Icing Performance and Cost Effectiveness (Chair: John Brunkhorst)

- Plan to contact the TAP to setup our kickoff meeting

Action Item No. 11: Linda Taylor will provide Tim Stahl with a contact who builds equipment from MnDOT’s Central Shop to be added to the TAP.

Task 12 - Signing and Lane Markings of Roundabouts (Chair: Klayton Eckles)

- Plan to contact the TAP to setup our kickoff meeting

Task 13 - Guidelines for Flashing Yellow Arrows for Protected / Permissive Use (Chair: Steve Bot)

- Worked with the NC-ITE Intersection Traffic Control Committee and the Professional Development Committee to co-sponsor this training.
 - 55 people registered for the training; 45 attended (including 10 that joined remotely)
 - The two hour training took place on Wednesday November 4th 8-10am at SRF’s office.
- The presentation was recorded in two ways – one recording of the actual presentation screen. The other was an actual video recording of Vahid giving his presentation. The recordings will be used as part of the tutorial YouTube video funded by the LRRB Outreach Committee.

Task 15 – LRRB Outreach Committee support

- Research Pays Off: Timber Bridge research implementation
- CEAM conference presentations of RIC products
- MCEA conference presentations of RIC products
- RIC representation on TRB Tech Transfer Committee (ABG30)
 - Jim Grothaus is a committee member
 - Renae Kuehl is a new committee member, and she will be giving a presentation at TRB in January “Research Implementation – Giving Local Agencies what they need.”