



LRRB/RIC Summer Meeting
June 17-18, 2015
Horseshoe Bay Lodge
8098 Hawthorn Trail Northwest
Walker, Minnesota

LRRB Members Present:

Bruce Hasbargen (Chair), Beltrami County
Kaye Bieniek, Olmsted County
Lyndon Robjent, Carver County
Paul Oehme, City of Chanhassen
Steve Koehler, City of New Ulm
Laurie McGinnis, U of M - CTS
Mitch Rasmussen, MnDOT State Aid
Linda Taylor, MnDOT Research Services (RS)
Tom Ravn, MnDOT Office of Construction &
Innovative Contracting
Tim Stahl, Jackson County

Absent:

Ted Schoenecker, MnDOT State Aid

Others Present:

Debbie Sinclair, MnDOT RS
Bruce Holdhusen, MnDOT RS
Dan Sullivan, MnDOT RS
Becky Lein, MnDOT RS
Brenda Thomas, U of M CTS
Mike Marti, SRF
Renae Kuehl, SRF

RIC Members Present

Jeff Hulsether (Chair), City of Brainerd
Dave Robley, Douglas County
Mike Flaagan, Pennington County
Merle Earley, MnDOT District 4
Guy Kohlnhofer, Dodge County
Klayton Eckles, City of Woodbury
Hafiz Munir, MnDOT RS
Jim Grothaus, U of M CTS
Bernard Izevbekhai, MnDOT OMRR

LRRB Meeting Minutes

Day 1

JUNE 17, 2015

1. LRRB Separate Session

Chair Bruce Hasbargen called the LRRB session to order.

Minutes of last meeting, held March 18, 2015, were approved. Motion to approve was made by Laurie McGinnis and seconded by Steve Koehler; motion carried.

Action Items from March

Linda Taylor reviewed the open action items from the previous meeting. No one indicated any interest attending the European Transport or World Congress on ITS conferences (March Action Item No. 4). All other action items were either on the Agenda or completed.

March Action Item No. 10: Tim Stahl will request a copy of the Life Cycle Cost Analysis project's spreadsheet from Doug Gransburg at Iowa State University, provide it to Lyndon Robjent and share with the LRRB members.

LRRB Budget

Debbie Sinclair updated the group on several projects.

INV 910 (Partially Grouted Riprap Lab Flume Study) -- This project's end date has passed. The tasks are complete. An invoice is pending.

INV 924 (FY15 YouTube Videos: 3 in process, 1 pending contract) – Debbie asked if we could roll their balance (\$33,642) forward into FY16. The answer was yes.

The following projects were completed:

- INV 930 (Development and Integration of Advanced Timber Bridge Inspection Techniques for NBIS)
- INV 931 (Lighting Levels for Isolated Intersections Leading to Safety Improvements)
- INV 938 (Culvert Design, Installation and Maintenance Independent On-line Distance Learning (ODL) Course)
- INV 939 (Lightly Surfaced Roads)
- INV 942 (Is it Effective to Rejuvenate a Road Rather than Re-gravel?)
- INV 950 (Major Equipment Life Cycle Cost Analysis)
- INV 951 (Transportation Investment and Economic Development in Rural Minnesota)
- INV 953 (Development of a Digital Highway Framework to Facilitate Crash Avoidance: Serving County Roads)

The leftover balance from FY 15 is \$601,226 and was carried forward to FY 16.

INV 999 Status Update

\$67,632 is what has been paid to date. The Summer Meeting costs were not included in that figure. Costs will include travel expenses and \$6-7K to Anderson's for facilities and lodging. Costs for the Focus Groups (\$5K) have not yet been invoiced.

Action Item No. 1: Carole Wiese will send out a reminder to the LRRB & RIC members to submit their conference and other travel expenses for reimbursement to her at MnDOT ASAP. *THIS ACTION ITEM IS COMPLETE*****

Amendment Analysis

There were a total of 11 amendments, of which eight were time extensions, two were major scope changes and one was for clarification purposes. MnDOT Research Services is looking at their amendment process to find ways to avoid having to process so many of them. Projects will likely see more scrutiny with their amendment requests in the future. MnDOT RS will be coming up with some recommendations.

Steve Koehler wanted to know why some of the dates on projects were past their end dates. Debbie explained that it was likely due to a project running late on a task.

Action Item No. 2: Debbie Sinclair will review contract original and amended end dates and find out why some of them are the same.

*****THIS ACTION ITEM IS COMPLETE – see staff note below*****

(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. Since the report was generated by Debbie, two amendments have been executed and their dates updated and two are still being processed.)

Research Conferences

A handout of the 2015 Conferences was provided in the meeting materials.

- National LTAP Conference in Savannah, Georgia -- July 19-23, 2015
Jeff Hulsether and Guy Kohlhofer are not attending.
- MAASTO Annual Meeting in Kansas City, Kansas -- August 10-13, 2015
Mitch Rasmussen's costs are not being paid for by LRRB.
- NW Pavement Management Association Conference in Vancouver, Washington--
October 20-23, 2015
Jeff Hulsether and Joel Ulring may attend.

Kaye Bieniek expressed concern over conference registration and travel procedures not being clear. Mitch Rasmussen explained that for all the regularly scheduled meetings, RS takes care of processing the food, lodging and mileage reimbursement. For out-of-state travel, Board members are responsible for everything with the exception of air travel. Mitch suggested putting together some guidance on these procedures.

Action Item No. 3: Carole Wiese will put together some guidelines for In-State, Out-of-State and International LRRB City, County and MnDOT staff sponsored travel.

LRRB Strategic Plan Update

Mitch Rasmussen is proposing that the Board move forward with an update on the Strategic Plan to make it align with their current vision. Linda Taylor explained that a subcommittee has usually done this work. She suggested the committee consist of a city and county representative, Laurie McGinnis and herself as the representative from MnDOT RS. Laurie McGinnis added that the Board would be having the opportunity to hear her presentation the next day which gives a nice overview of the Strategic Plan.

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

2. LRRB/RIC General Session

Chair Bruce Hasbargen called the General Session to order, welcoming all to Walker.

The Chair asked for any changes or additions to the agenda, and hearing none, approved the agenda.

3. Outreach Committee Update

The LRRB Outreach Committee met on June 16, 2015. Mitch Rasmussen provided an update on their meeting which has been added to these minutes as 'Attachment 1'.

Linda Taylor updated the board on the staffing in this area of RS. There is a new Information Officer, Mike Foley, who started on June 10 to take Shannon Fiecke's place. They have also posted for Nick Busse's vacant position.

4. Project Updates

Max Donath gave a project update on 'Developing a Sensor Platform for the Mapping of Roadway Fog Lines (INV 953)' and his presentation was in the meeting materials. Board members wanted to know how this project would help cities and counties. Max answered that it will tell them when they need to restripe.

Max also gave a presentation on 'In-vehicle Dynamic Curve Speed Warning at High Risk Rural Curves' which was one of the ideas submitted through the Ideascale website. He handed out copies of at the meeting. These systems would likely take the form of a smartphone app using GPS, which is now known as GNSS (Global Navigation Satellite System).

5. Summary of Research Needs Focus Group in Metro District

Jim Grothaus gave an update on the focus groups that were held in the Metro District on March 25, 2015. A copy of his presentation and the report developed by CTS were in the meeting materials. There 27 participants total; five were county engineers and staff, three were city engineers and staff, four from MnDOT's Office of State Aid, three from MnDOT RS and nine from CTS. Of the 45 ideas that were generated, 12 were deemed high priority and need statements were developed for them. Several ideas not developed into needs statements were also summarized in the CTS report for development as a TRS or as implementation projects.

When these are held in a Metro location, it is very desirable to get more Metro counties to participate, as well as cities, and that it is a good idea to have city/county engineering staff participate and feel welcome.

6. FY 2017 Research Program

Hafiz Munir explained to the group how the documents in the next portion of their meeting materials were organized. The first was the research funding program schedule. The second were LRRB and TRIG ideas sorted by topics showing where they came from who sponsored them. The third was a PowerPoint summary of the previous document. The fourth were the same ideas sorted by LRRB and TRIG, showing where they came from who sponsored them. The fifth document was a copy of the spreadsheet which was used to vote on, sorted by the ideas receiving the highest number of votes from the LRRB members. The sixth document explained that some of the ideas generated were more appropriately addressed by forwarding them to the Outreach Committee, developed as a TRS or better served using a consultant contractor. The group broadened the voting to include the RIC's voting. The projects were sorted by their total (LRRB and RIC) number of votes received. The meeting participants had been preassigned to one of three teams for the afternoon exercise as shown in the document in the next section of the meeting materials. The teams took turns in round-robin fashion to each select five to six ideas to develop into need statements.

Linda Taylor explained that the group needed to focus on the projects with the highest value and meeting the greatest need to move forward.

7. Research Need Statements Development

The three teams met at separate locations to develop recommendations for research need statement development or other actions for the topics they had selected.

The following is a summary of the teams and their ideas:

Team 1

Captain: Jeff Hulsether

Coach: Bruce Holdhusen

Number from Ideascale and Potential Research Ideas:

620 Developing the Right Recipe for Using Recycled Materials in Aggregate Bases

609 Creating an Inventory of Storm Water BMPs to Meet The MPCA Requirements

582 Forensic Examination of Asphalt Pavements

634 Seed Mix Testing and Demonstration

621 Minnesota Culvert Manual to Accommodate Aquatic Species Passage

Team Members: Klayton Eckles, Paul Oehme, Steve Koehler, Hafiz Munir, Merle Early and Bernard Izevbekhai

Team 2

Captain: Bruce Hasbargen

Coach: Dan Sullivan

Number from Ideascale and Potential Research Ideas:

615 Consolidated Asset Management Guide for Minnesota Local Agencies

624 MnDOT Pavement Decision-Tree Enhancement

616 Interagency Online Tool for Project Planning and Construction Utilizing GIS

628 In-vehicle Dynamic Curve Speed Warnings at High-risk Rural Curves

607 Public Attitudes Towards Transportation Investments

610 Understanding Effective Public Engagement Practices, By Segments

Team Members: Mitch Rasmussen, Dave Robley, Lyndon Robjent, Laurie McGinnis, Guy Kohlnhofer and Joel Ulring

Team 3

Captain: Tim Stahl

Coach: Brenda Thomas

Number from Ideascale and Potential Research Ideas:

640 Pilot Project for One Stop Shop Transportation Permitting

608 Develop an Online Pavement Management Database

527 Signing for Effective Roundabout Approach Speed Reduction

636 Adopt-A-Highway: Landscape for Pollinators

626 Field Investigation of Bridge Deck Reinforced with GFRP Rebar

618 Right-of-Way Purchasing Process for Municipalities

Team Members: Mike Flaagan, Kaye Bieniek, Jim Grothaus, Linda Taylor and Tom Ravn

8. Need Statement Teams Report Back to Group

Team No.	Ideascale Number	Project Title	RFP, RIC, TRS or Other	Comments
1	620	Developing the Right Recipe for Using Recycled Materials in Aggregate Bases	RFP	1. NS for the RFP 2. TRS
1	609	Creating an Inventory of Storm Water BMPs to Meet The MPCA Requirements	RIC	Consultant contract – Stantec could develop a resource guide
1	582	Forensic Examination of Asphalt Pavements	Don't move forward	Refer back to the proposer to be more specific
1	634	Seed Mix Testing and Demonstration	RFP	Phase II contract with the U of M to identify different mixtures
1	623	Minnesota Culvert Manual to Accommodate Aquatic Species Passage	RFP or Contract	Could go directly to the U of M's Needs Statements
2	615	Consolidated Asset Management Guide for Minnesota Local Agencies	TRS	1. TRS 2. RIC for implementation options
2	624	MnDOT Pavement Decision-Tree Enhancement	No RFP	Provide technical support and possible cost-sharing with TRIG if this moves forward
2	616	Interagency Online Tool for Project Planning and Construction Utilizing GIS	RIC	Possibly follow-up with Fausto Cabral in District 6
2	628	In-vehicle Dynamic Curve Speed Warnings at High-risk Rural Curves	RFP	Aimed at rural roads
2	607	Public Attitudes Towards Transportation Investments	RFP	Guide Ken Buckeye to work that's already been done, ask him to refine for more clarity so LRRB is not funding something they've already funded
2	610	Understanding Effective Public Engagement Practices, By Segments	RFP	Guide Karla Rains to work that's already been done, ask her to refine for more clarity so LRRB is not funding something they've already funded
3	640	Pilot Project for One Stop Shop Transportation Permitting	TRS	RIC will follow up with a consultant contract
3	608	Develop an Online Pavement Management Database	No RFP	Defer to Joel Ullring to bring back to LRRB w/ recommendations
3	527	Signing for Effective Roundabout Approach Speed Reduction	RFP	
3	636	Adopt-A-Highway: Landscape for Pollinators	TRS	TRS or State of Practices
3	626	Field Investigation of Bridge Deck Reinforced with GFRP Rebar	RFP	TRIG will lead
3	618	Right-of-Way Purchasing Process for Municipalities	RIC	Use Consultant Contract, develop timeline, DCP checklist

Move forward with NS for FY17 RFP

TRS or work plan for LRRB/RIC consideration

LRRB Meeting Minutes

Day 2
JUNE 18, 2015

1. LRRB Separate Session

Chair Bruce Hasbargen called the meeting to order.

Funding Split by Category

Laurie McGinnis gave a presentation entitled “A Strategic Look at Funding Allocations” and passed out a copy of it afterwards. The presentation divided LRRB funding into the following five strategic categories:

- Administration
- Implementation
- Research
- Tech Transfer and Education
- Contingency

Laurie explained that the presentation should start to get the Board asking the following questions:

- What is the ideal splitting of funding expressed as a percentage?
- Are we comfortable with the split?
- Are we delivering on the LRRB’s Strategic Plan? If not, how do we change it?
- Do we want to set any targets?

Laurie closed with the thought that these questions should be the starting point when we discuss updating the Strategic Plan.

Knowledge Building

Brenda Thomas gave an update on the LRRB’s Knowledge Building priorities. These are not an open solicitation that is part of the annual RFP. These are unsolicited and only with the U of M researchers. Some of the Board members wanted to know how these are created. Brenda explained that they did a brainstorming session with the LRRB and then held a focus group with the U of M researchers. Sometimes an idea hits on both a Knowledge Building priority and a Needs Statement.

Brenda’s handout was a list of topics sorted by the following categories: Design, Construction, Maintenance and Operations and Environmental Compatibility. The Knowledge Building topics identified as areas they would want to emphasize were:

- Future Workforce
- Public Engagement
- Workforce Development
- Plan Quality and Cost Overruns

Action Item No. 5: LRRB members will review and get back to CTS on the Knowledge Building write-up modifications by July 13 when the comments are due.

Project Update

Ryan Peterson (City of Burnsville) gave an update on the TRS that was recently done for Chloride Free Snow and Ice Control Material (INV 959). The TRS reviewed many documents and other research and the TAP members included a Cargill Scientist and MPCA staff. There is no magic bullet – all the options had environmental drawbacks and limitations.

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.

Project Development Updates

Brenda Thomas gave an update on NS 395 (Freight Overflow Impacts on the Local Road System). She was following up on this previous action item with Mitch Rasmussen and Lyndon Robjent. Both Lyndon and Mitch felt that this research is not needed until the new state freight plan is done. This item can be revisited when the freight plan is complete.

Dan Sullivan gave an update on NS 397 (Alternative to Seal Coat Methods TRS). The Board did receive a full proposal on it, but the Board decided to fund a TRS instead. Since the materials in the book had gone to print the work plan had been finalized and was awaiting TL approval. This will not be an amendment to MnDOT's existing Seal Coat Manual. Both preliminary and scoping pre-TAP meetings have been held and once this is under contract it will go very fast (i.e. probably eight weeks). It may take a little more time to get it under contract because there is no longer one blanket contract for TRSs like there has been in the past.

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

Dan Sullivan gave an update on NS 393 (Insulation Over Centerline Culverts) which is being done as a TRS under the new name 'Mitigating Frost Dips Over Newly Installed Centerline Culverts'. Greg Isaakson (Goodhue County Engineer) requested some follow-up from a Needs Statement where the proposal did not get funded. The Board decided to do a TRS to explore the topic further. Pre-TAP scoping meeting has been held and this is currently in the contract development process.

Trip Reports

Bruce Hasbargen led a discussion of LRRB Trip Report items from the TRB 94th Annual Meeting in January 2015. A summary was provided in the meeting materials.

Preserving Institutional Integrity and Viability

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.

Alternative Intersection Designs

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.

Pavement Maintenance: Patching and Repair

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.

Concrete Overlay as a Rehabilitation Alternative

Action Item No. 11: MnDOT RS will work with Guy Kohnhofer to develop a TRS to survey what information is available on concrete overlays for use in the county highway system.

Precast Concrete Pavement Innovation

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

Young Drivers

Action Item No. 13: Bruce Hasbargen will discuss Risk Awareness and Perception Training (RAPT) and Act and Anticipate Hazard Perception Training (AAHPT) with Sue Groth for possible applications in Minnesota.

Pavement Markings on Low Volume Roads

Action Item No. 14: MnDOT RS will work with Bruce Hasbargen to develop a Needs Statement for the Value of Pavement Markings and come up with recommendations, guidance and a tool.

Public Asset Value

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.

2. LRRB/RIC General Session

RIC Update

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 the RIC September 2015 meeting. RIC will make a recommendation to the LRRB at the RIC September 2015 meeting for further action.

Development of a needs statement for 'Quantifying the Benefits of the TZD Program' is on hold. MnDOT will actively monitor the work plan and will coordinate with TRIG for possible cost-sharing opportunity.

Jeff Hulsether explained that the RIC support contract will expire June 30, 2016. The RIC is planning to issue an RFP for the next three-year contract to be in place by July 2016. RIC is asking for a budget similar to what was approved in previous years, which was \$200,000/year for RIC, not including Outreach Committee activities.

A motion was made by Tim Stahl and seconded by Laurie McGinnis to fund the RIC Support Contract for FYs 17, 18 & 19 at \$200,000/year with an option for two one-year extensions. The motion carried.

Project Updates

Rita Weaver gave an update on the Matrix (Partially Grouted) Riprap Lab Flume Study (INV 910) and her presentation was part of the meeting materials.

Erik Minge and Scott Peterson gave an update over the phone on Portable Weigh-In-Motion System Evaluation (INV 955) and their presentation was part of the meeting materials.

Action Item No. 17: Joel Uiring will follow-up with Ben Timerson to market the use portable WIM stations to cities and counties.

MnROAD Update

Ben Worel (MnROAD) gave an update over the phone on the NCAT Partnership and the New National Research Implementation Consortium (NRIC) utilizing the MnROAD Research Facility (replacing the TERRA Partnership). His presentation was included in the meeting materials.

NCAT two's major initiatives included a national pavement preservation study and the development of a national cracking test. Bruce Hasbargen will be the LRRB representative on the NCAT Partnership Steering Committee.

The new TERRA partnership will emphasize state and local sponsored research, implementation, technology transfer and training. Three LRRB members will serve on the TERRA Board. One member will be Mitch Rasmussen.

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.

Funding Considerations and other Board Actions

Outreach Committee Funding Requests

As discussed in Attachment 1, the videos have been a very successful tool and the outreach committee is requesting another \$100,000 in funding.

A motion was made by Lyndon Robjent and seconded by Kaye Bieniek to approve an additional \$100,000 in funding for YouTube videos over the next two years. The motion carried.

RIC Funding Requests

This item was addressed during the RIC Update earlier in the meeting.

Amendment Request for INV 965

William Herb gave an update over the phone on why they are requesting an amendment for 'Study of De-icing Salt Accumulation and Transport Through A Watershed' (INV 965). This past winter's shortage of snowfall did not result in representative runoff amounts to sample, equipment kept freezing up due to its location and additional analysis of samples is needed to better correlate conductivity measurements with chloride concentrations. The amendment requested to add another season of monitoring, move some of the sampling equipment so it is not exposed to weather and analyze more of the samples for chloride and other ion concentrations.

A motion was made by Tom Ravn and seconded by Guy Kolnhofer to approve an amendment for INV 965 (Study of Deicing Salt Accumulation and Transport Through a Watershed) in the amount of \$44,704. The motion carried.

Round Robin

Several members wished to express their thanks to Jeff and his family for their hospitality hosting their portion of the group.

Klayton Eckles: Klayton wanted everyone to know that they are a good bunch to work with.

Bernard Izevbekhai:

MnROAD constantly receives numerous requests from manufacturers and product representatives who want to test their products at the facility. As part of the decision process of responding to these requests, we want a quicker line of communication with LRRB as a way of ensuring that our decisions in this subject matter also represent the interest of LRRB.

Moreover in the evolving collaboration between MnDOT and NCAT we also need to know the LRRB/ RIC designated resource persons who we can communicate with during the process.

The meeting was adjourned by the Chair.

Summary of Action Items

LRRB Summer 2015 Meeting Minutes

- Action Item No. 1** Carole Wiese will send out a reminder to the LRRB & RIC members to submit their conference and other travel expenses for reimbursement to her at MnDOT ASAP. ***THIS ACTION ITEM IS COMPLETE***
- Action Item No. 2** Debbie Sinclair will review contract original and amended end dates and find out why some of them are the same.
THIS ACTION ITEM IS COMPLETE – see staff note in the minutes
- Action Item No. 3** Carole Wiese will put together some guidelines for In-State, Out-of-State and International LRRB City, County and MnDOT staff sponsored travel.
- Action Item No. 4** Mitch Rasmussen will ask Nancy Stone to schedule an update meeting for the LRRB Strategic Plan.
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LRRB Summer 2015 Meeting Minutes

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- 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.

Attachment 1

Outreach Committee Update

LRRB Summary 2015 Meeting Minutes

Videos

4 videos are currently in progress. All are expected to be completed October 2015.

1. Roundabout Myths
2. Rumble Stripes and Strips
3. Ineffective Specialty Signs
4. Winter Chemicals for Local Agencies

10 videos have been completed in the past 2 years. Due to the LRRB getting their own new YouTube channel/website we are unable to know the historical number of hits.

The Committee identified 5 possible additional topics using the Voting Summary as their guide:

1. Flashing Yellow Arrow Tutorial (this might be rescoped)
2. Cost of Rough Roads
3. Truck Weight Video
4. RCUT tutorial w/testimonial
5. Commercial Driver's License (CDL) requirements for local agencies

Their plan is to solicit new ideas for videos using old and new lists. They have been a very successful tool and the Outreach Committee will be requesting another \$100K in funding.

Marketing Update

Our consultant plays an active role in this work. SRF has gotten two articles published in two national magazines:

1. 4 sign related activities – APWA Reporter
2. Timber Bridge Inspection – TR News – Research Pays off

4 web updates were done and presentations were made at the following conferences:

1. CEAM
2. MCEA
3. Minnesota Transportation Conference
4. CTS

Conference Exhibits

1. 2014 National LTAP Poster
2. Mn Transportation Conference Booth

2016 Work Plan Discussion

- Membership Updates
- Calendar of Events
- Web Updates and other updates

LRRB YouTube Video Channel/website

8 went live in 2014:

- Answers to Common Questions About Gravel Roads
- Navigating a Multi-Lane Roundabout
- Minnesota Bike Lanes: Learning to Share
- Road Closed Signs: Beware and Be Aware
- What is the LRRB?
- De-icing Study: Putting the Products to the Test
- Why Aren't They working on My Road?
- Sign Life Expectancy Research