



LRRB/RIC Summer Meeting - Minutes
June 18-19, 2014
DoubleTree by Hilton Hotel Bemidji
115 Lakeshore Drive Northeast
Bemidji, Minnesota 56601

LRRB Members Present:

Bruce Hasbargen (Chair), Beltrami County
Kaye Bieniek, Olmsted County
Lyndon Robjent, Carver County
John Powell, City of Savage
Steve Koehler, City of New Ulm
Laurie McGinnis, U of M - CTS
Julie Skallman, MnDOT State Aid
Linda Taylor, MnDOT Research Services
Tom Ravn, MnDOT Office of Construction &
Innovative Contracting

RIC Members Present

Jeff Hulsether (Chair), City of Brainerd
Mitch Rasmussen, Scott County
Dave Robley, Douglas County
Mike Flaagan, Pennington County
Ted Schoenecker, MnDOT State Aid
Merle Earley, MnDOT District 4
Hafiz Munir, MnDOT Research Services
Jim Grothaus, U of M CTS

Absent:

Tim Stahl, Jackson County (LRRB)
Klayton Eckles, City of Woodbury (RIC)
Maureen Jensen, MnDOT Materials Office (RIC)

Others Present:

Tina Folch, MnDOT Research Services
Bruce Holdhusen, MnDOT Research
Alan Rindels, MnDOT Research Services
Brenda Thomas, U of M CTS
Ben Worel, MnDOT Materials Office
Mike Marti, SRF
Rena Kuehl, SRF

LRRB Meeting Minutes

Day 1

JUNE 18, 2014

LRRB Separate Session

Chair Bruce Hasbargen called the LRRB session to order at 8:30 A.M.

Minutes of last meeting, held March 13, 2014, were approved. Motion to approve was made by Laurie McGinnis and seconded by John Powell; motion carried.

Action Items: Linda Taylor reviewed the open action items from the previous meeting. The item from Tim Stahl regarding LRRB support for the Road Dust Institute will be held until the LRRB meeting in September.

LRRB Budget: Tina Folch gave an update of the LRRB budget (budget sheet provided in meeting materials). Fiscal Year 2014 is closing June 30, and unused or uncommitted amounts from the FY14 budget will roll into the FY15 LRRB general budget, including FY14 contingency budget, conference and travel budget, and the balance of INV 999.

Contract Amendments: Tina summarized contract amendments since the previous LRRB meeting in March. There were 12 amendments to LRRB-funded contracts, of which 8 were for additional time only (summary report provided in the meeting materials).

Action Item 1: The LRRB wants a project update presentation on INV 922, Systems Preservation Guide – A Planning Process for Local Government Management of Transportation Networks, at the September meeting.

LRRB Meeting Calendar: Tina reviewed upcoming LRRB meetings (list provided in meeting materials):

- September 25, 2014 in City of Jackson, hosted by Tim Stahl.
- October 27, 2014 in St. Cloud at the MnDOT Training and Conference Facility.
- December 3 and 4, 2014 in Minneapolis at U of M Coffman Memorial Union.
- The 2015 LRRB meeting calendar will be discussed and dates set at the September meeting.

Research Conferences: Tina reviewed upcoming conferences (list provided in meeting materials):

- Bruce Hasbargen said he would like to see next year's conferences included in the meeting materials for planning purposes. The full list is available on the LRRB members-only web site.
- Julie mentioned the Transportation Research Arena (TRA2016) conference will be in Poland in 2016 and encouraged LRRB members to go on at least one international conference trip during their tenure on the Board.

Action Item 2: Please submit conference and other travel expenses for reimbursement to Carole Wiese at MnDOT. MnDOT staff travel paid by LRRB should forward a copy of their expense report to Carole.

Trip Reports: Bruce Hasbargen led a discussion of LRRB Trip Report items from the TRB 93rd Annual Meeting in January 2014 (summary provided in the meeting materials):

- Moving US Agricultural Commodities to Trade Gateways for Exports: Challenges and Opportunities – All agricultural products produced in the US can be produced elsewhere, so the US needs to stay competitive. Cost, speed and reliability are impediments to transporting agricultural products. A specific impediment is that 96,000 lbs loads with triple axles are used worldwide except in the US.

Motion by John Powell, seconded by Julie Skallman: To authorize a TRS to be written by CTC and Associates on the topic of benefits and costs of increasing truck load limits in Minnesota for hauling commodities including agricultural products and gravel; to convene a TAP including Lyndon Robjent, Rich Sanders and the Chair of the 10-Ton Committee to develop the scope of the TRS; the TRS will utilize recent national studies, develop a map of surrounding states' load limits, and provide an informational fact sheet to inform legislators on the issues. Motion carried.

- Demonstration and Evaluation of New Approaches for Roundabout Lighting – The research highlighted low-level lighting to reduce power consumption. Instead of overhead lighting they explored the impact of low-level lighting and lighting to accentuate pedestrian crossings. Suggested TAP members included Steve Koehler, Klay Eckles, Mark Vizecky, Sue Zarlring.

Motion by Steve Koehler, seconded by John Powell: To authorize a TRS to be written by CTC and Associates on the topic of lighting at pedestrian crossings; including low-level lighting, lighting curbing and pedestrian crossings, and lighting roundabouts to help drivers and pedestrians navigate roundabouts. Motion carried.

- TRB Standing Committee on Low-volume Roads – Julie Skallman is rotating off the committee and the committee is looking for new members.

Action Item 3: Kaye Bieniek has been contacted by TRB and will join the TRB Low Volume Roads committee.

- Pavement Management in Local Governments Subcommittee – There is an active group of counties and small cities called the Northwest Pavement Management Association (NWPMA) dedicated to promoting pavement management, tech transfer, research and education.

Motion by John Powell, seconded by Steve Koehler: To approve funding for Joel Ulring and 2 local representatives from the TAP of the Pavement Resource Center TRS project are approved to travel to participate in the NWPMA Conference in Seattle, in October 2014. Motion carried.

Action item 4: Julie will send a note to Joel and the Pavement Resource Center TAP to inform them of the opportunity to attend the NWPMA conference in Seattle in October, 2014.

- OTTA Seals in Tanzania – Julie attended a presentation on OTTA seal in Tanzania. The Iowa DOT will be placing a few segments this summer. Minnesota tried them a few years ago and dropped the practice.

Action Item 5: Ben Worel/Chris Kufner will have someone from MnDOT Materials Office look at the OTTA seals being installed in Iowa this summer and report back to LRRB at a future meeting.

- Roadway Geometric Design Process Update and 2nd Edition of the AASHTO Access Management Manual – The overall philosophy and practice of design decisions is changing to a multimodal perspective. There may be a need for a 1-day design overview class for a broad audience to inform them of the changes in the areas of design flexibility and multi-modal project development.

Action Item 6: Bruce Holdhusen will discuss with Jim Rosenow in MnDOT Office of Technical Support the possibility of developing curriculum for a 1-day overview class that could be delivered by LTAP based on NCHRP Project 15-47 “Improved Highway Design Process.”

- The new Access Management Manual will be released soon and has many changes since the previous (2003) edition, including multimodal considerations in access management.

Action Item 7: Linda Taylor will contact Brian Gage to determine who will be the new MnDOT Access Management expert and discuss the timing of an update to the Access Management Policy document.

1b. RIC Separate Session

(see RIC meeting minutes in separate document)

LRRB/RIC General Session Call to Order – Bruce Hasbargen

Chair Bruce Hasbargen called the General Session to order at 9:45 A.M.

Mr. Hasbargen welcomed all to Bemidji. He said he will host a dinner get-together at his home this evening, maps to be provided; all who would like to carpool should meet in the hotel lobby at 5 P.M.

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

Outreach Committee Update – Julie Skallman

- There is a need for LRRB and RIC members to have current information on LRRB activities to be able to tell other groups “what’s new” with the LRRB and to aid in soliciting TAP members and promoting research. Renae at SRF will provide monthly or bi-monthly updates to members with talking points they may use as they wish.
- There is a desire to thank TLs who contribute or participate above and beyond the norm. A thank-you card and gift such as LRRB iPad folder should be provided as a token of recognition. Julie mentioned Richfield city engineer Kristin Asher as a good example of an individual who has contributed a lot, and suggested Kristin might be a candidate for consideration as a future Board member.

Action item 8: Send nominations for recognition of TLs who have made a significant contribution to Julie Skallman and Bruce Hasbargen.

Action item 9: Research Services will procure thank-you note cards for LRRB to recognize TLs who have made a significant contribution.

- SRF contract will be amended to add \$10k from the LRRB 55 celebration activities allocation. These funds will be used for additional outreach activities.
- The Outreach Committee has developed a prioritized list of topics for videos (handout provided to meeting attendees) and they will be moving forward with four videos at this time:
 - Flashing Yellow Arrows video plus a fact sheet – target audience is elected officials, engineers, and the public. (SRF)
 - Roundabout Myths – dispelling myths such as we don’t design them for trucks, they are not safe for pedestrians, etc. – target audience is elected officials and the public. (Stonebrooke)
 - Winter Chemicals and methods for snow and ice removal – what can be used under what conditions, covering methods used by locals only, not MnDOT – target audience is elected officials and public. (consultant to be determined)
 - Rumble Strips and Stripes – target audience is elected officials and the public. (Stonebrooke)
- SRF is available to assist LRB and RIC members with presentations, under the Outreach task in their RIC contract. Contact Mike or Renae for assistance with PowerPoints, posters, etc.

Project Update Presentations

- INV 961 Gravel Road Management Tools TRS: Mike Marti provided a summary of the recently-completed transportation research synthesis report #1407 “Gravel Road Management Tools” (a copy of the full report was provided in the meeting materials). The results of the TRS showed that there are enough existing tools for managing gravel roads and RIC does not need to develop any new tools at this time.

The TRS compares six tools and reported interviews of the vendors of those tools. TL Bruce Hasbargen commented that the TRS has been valuable for him, agreed no further RIC products are needed, and the future effort is to make others aware of the TRS by pushing it out to city and county engineers.

- INV 930 Development and Integration of Advanced Timber Bridge Inspection Techniques for NBIS: Brian Brashaw provided an overview of the results of the timber bridge inspection project and next steps for implementation (a PowerPoint printout was provided in the meeting materials). Two training videos have been produced and are available on YouTube that demonstrate the use of the inspection equipment. Training workshops were held in May with approximately 60 attendees. Two more training workshops are schedule for this June. Brian has provided a proposal from NRRI/UMD to purchase three sets of equipment for timber structure inspection that will be loaned out over a period of 2 years, training provided, and a permanent home for the equipment will be identified prior to the end of the project.

Research Needs Focus Groups – Jim Grothaus

Focus groups was held in District 6 on March 27, 2014 at the Olmsted County facility to brainstorm research ideas and develop research need statements. CTS has a contract through 2015 with LRRB to facilitate the focus groups and provide a report. The event was attended by 17 city and county employees, 2 State Patrol representatives, and staff from CTS, MnDOT Materials Office, State Aid and Research Services. Ten research need statements were drafted, and ideas were also summarized in a table for implementation, TRSs or Outreach activities. The 10 research need statements were included in the list of research ideas that LRRB and RIC members ranked prior to the LRRB/RIC summer meeting.

Jim shared one lesson learned that it is not easy to write a good research need statement. The group would benefit from a guidance document to help practitioners with developing a needs statement. Another suggestion was to have CTS communication staff attend the 2015 LRRB Metro Focus Group. Their role would be to assist in capturing notes during the breakout groups, assist the practitioners in development of need statements and deliver final need statements. Finally, it was recommended that CTS and Research Services follow up post-focus groups to discuss the outcomes.

Action item 10: Jim Grothaus will work with CTS communications staff to prepare a cost estimate for these additional services. The focus group TAP will discuss these comments and review the cost proposal and get back to the board with recommended changes if needed.

The focus groups are planned to be conducted annually and to alternate between a Metro location and a Greater Minnesota location. Discussion regarding next year's focus groups was that it will be 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.

Action item 11: Ted Schoenecker and Lyndon Robjent will work together to select a date and location for LRRB research need focus groups in 2015, and Ted will send an email to Dan Erickson.

FY 2016 Research Program – Hafiz Munir

Research needs will be posted on August 1 and university proposals will be due September 17. The LRRB will vote on the proposals at their meeting in October and short-list proposals for presentation at the December meeting.

Based on preliminary voting, Hafiz facilitated a discussion to confirm and prioritize the top research ideas to be developed into research need statements in the afternoon session. The meeting participants had been pre-assigned to one of 3 teams for the afternoon exercise. The teams took turns in round-robin fashion to each select four ideas to develop into need statements:

- Team 1
 - #493 Evaluation of Stabilized Full Depth Reclamation
 - #406 Alternatives to Seal Coat Methods
 - #396 NPDES Storm Water Requirements within Public Right of Way
 - #508 Pothole Prevention and Innovative Repair
 - Mark Krebsbach was recommended as the TL
- Team 2
 - #497 Center Line Culvert Insulation
 - Jess Greenwood of Goodhue County was recommended as the TL
 - #535 Assessing the Impact of Pedestrian Crossing Systems
 - Melissa Barnes will be the TL
 - \$465 Delay and Mobility Impacts of Freight Operations on Metro Principal Arterials
 - TL will be John Powell or Lyndon Robjent (?)
 - #562 Cost-effective Timber Bridge Superstructure Design for Long-term Performance
 - Dave Conkel will be the TL
- Team 3
 - #494 Proper Repair for Slope Failure of Embankment and Back Slope Areas
 - Mike Flaagan will be the TL
 - #491 Local Design Tool to Choose Between HMA and PCC
 - John Brunkhorst or Dave Kramer was suggested as a TL
 - #496 Base Stabilization for Existing and/or Rehabilitated Base Courses
 - Guy Kohlnhofer or Kaye Bieniek will be the TL
 - #507 Development of Uniform and Cost-effective Overweight Permitting Process
 - This needs further discussion and will be tabled (will not be posted on the RFP for university proposals this year)

Three teams met at separate locations in the hotel to develop research need statements for the topics they had selected.

Need Statements Review – Jeff Hulsether (Team 1), Bruce Hasbargen (Team 2), Jim Grothaus (Team 3)

- #493 Evaluation of Stabilized Full Depth Reclamation
 - Jerry Geib will be the TL
 - Ben Worel commented there is a tie to MnRoad with regard to plans for the next phase of MnRoad reconstruction
- #406 Alternatives to Seal Coat Methods
 - John Powell will be the TL
 - The outcome should be a resource guide
- #396 NPDES Storm Water Requirements within Public Right of Way
 - The team felt there is a need for more information on issues and needs
 - Need to identify a TL

Action item 12: Bruce Holdhusen will follow up with Richard Freese and Rochester staff on the NPDES Permit research need statement.

- #508 Pothole Prevention and Innovative Repair
 - Mark Krebsbach was recommended as the TL
- #497 Center Line Culvert Insulation
 - Jess Greenwood of Goodhue County was recommended as the TL
- #535 Assessing the Impact of Pedestrian Crossing Systems

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- #507 Development of Uniform and Cost-effective Overweight Permitting Process
 - This needs further discussion and will be tabled (will not be posted on the RFP for university proposals this year)

10. Adjournment

The Chair made closing comments and adjourned for the day.

LRRB Meeting Minutes

Day 2

JUNE 19, 2014

LRRB Separate Session

Call to Order

Chair Bruce Hasbargen called the meeting to order at 8:00 A.M.

Ongoing Programs and Strategic Funding Allocations

Laurie McGinnis, Julie Skallman and Linda Taylor formed a committee to look at the history of LRRB programs and program allocations, for the purpose of providing the Board with high-level overview. The LRRB Strategic Plan was last updated in 2012, and is revisited on a cycle of approximately three years. The plan will be to review it next year based on the discussion started today.

The presentation divided LRRB funding into the following five strategic categories:

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

The LRRB budget summary sheet was updated to include the strategic categorizes, along with two pie charts (one showing FY15 Budget Summary by Strategic Categories and other chart only showing the F15 On-going Programs by Strategic Categories). .

Board discussion during the presentation was that the current levels of allocation between these high-level categories seem appropriate, and additional budget analysis could be helpful. In preparation for reviewing the LRRB Strategic Plan, it will be helpful to conduct a forward-looking analysis of the issues that will be faced by local agencies over the next ten years.

Action item 13: Linda Taylor will have the LRRB program budget pie chart totals re-checked against the FY15 budget after FY14 has been closed.

Action item 14: Linda will review strategic budget areas and compare how they align between MnDOT research topic groups and LRRB strategic planning research categories, and report back.

Action item 15: Laurie McGinnis will work with Linda Taylor to categorize the projects by basic research or applied research and provide a budget summary.

Project Update Presentation

INV 894 Assessing and Improving Pollution Prevention by Swales, and MnDOT project 2012-072 Enhancement and Application of MnDOT Dry Swale Calculator – John Gulliver (University of Minnesota)

The final report for INV 894 is in the publication process. Dr. Gulliver presented slides showing the field method using modified Philips-Dunn infiltrometers to measure the infiltration rate and spatial variability of infiltration rates in roadside swales.

He provided an overview of the work plan for a project funded by MnDOT to implement the results of INV 894. The implementation project will fill some gaps in technical data and

develop a spreadsheet calculator for gaining appropriate water quality credits for swales. MPCA was engaged in INV 894 and helped identify technical issues to be further evaluated in the new project. The expected outcome of the calculator is that it will be accepted in the NPDES permitting process and should lead to fewer or smaller stormwater ponds being required on linear projects.

Board discussion indicated satisfaction with the results and current direction of implementation efforts, and interest in including a roadside test site from Carver County with engineered soils and watershed district-mandated construction methods.

Action item 16: Bruce Holdhusen will facilitate possible inclusion of a site in Carver County in John Gulliver's project Enhancement and Application of MnDOT Dry Swale Calculator.

MnROAD Phase 3 Reconstruction – Ben Worel

Ben Worel presented an overview of the MnROAD facility and plans for the next phase of reconstruction and research. MnROAD operation and tech transfer programs are currently funded by LRRB as INV 676. MnROAD recently passed its 20th anniversary as a pavement research test site. They are planning a 2016 letting for the next phase of reconstruction of test cells (MnROAD Phase 3) and currently developing a list of research projects that will be finalized in September, 2014. MnDOT Research Services and OMRR hosted a peer exchange in June with several states and FHWA to develop and prioritize pavement research needs.

There are three MnROAD steering committees – flexible pavements, rigid pavements and pavement preservation – that provide input on research priorities, as well as the TERRA Board. They will be meeting in July and August to meet the September deadline for a final list. Kaye Bieniek is on the rigid pavement committee, and there are openings for local representation on the other committees. Bruce Hasbargen nominated Tim Stahl for the flexible pavement committee. Julie Skallman is also looking for TERRA members.

Ben also mentioned the LRRB-funded Test Section Tracking System has been revamped to make it easier to use, and is available on the OMRR web site.

Action item 17: Ben Worel will follow up with Bruce Hasbargen and Julie Skallman about members for the MnROAD flexible pavement and pavement preservation committees.

Roadway Safety Institute UTC – Max Donath

Professor Donath is director of the Roadway Safety Institute, which is the US DOT RITA-funded regional University Transportation Center (UTC) at the University of Minnesota. There are 23 projects moving forward. They need to match federal funds with non-federal funds on a 1:1 basis. He presented two project proposals for consideration by the Board and possible LRRB funding to meet the matching requirement:

Capturing Driver Attention and Reducing Speed in Work Zones

The project will be primarily investigating ways to use smart-phone technology to enhance safety in work zones. The UTC is requesting \$89,930 for an 11-month project scheduled to begin in January, 2015.

Innovative Technology Workshop

The UTC has an opportunity to purchase a Velodyne mobile LiDAR scanner at a very reduced cost, and they are planning to deploy and demonstrate it at intersections to study safety such as left-turning behaviors at problem locations and operations such as optimizing signal timing. They are requesting \$92,140 for a 12-month project.

LRRB/RIC General Session

Call to Order

Chair Bruce Hasbargen called the general session to order at 10:30 A.M.

LRRB Update

LRRB update information was not further discussed due to time constraints.

RIC Update – Jeff Hulsether

RIC Chair Jeff Hulsether provided an update of recent RIC activities:

- The RIC contract with SRF has been recently amended for \$306,000 for another two years of implementation and outreach activities. Seven new implementation tasks were identified and one placeholder for a topic that will be identified in the future:
 - Impacts of Heavy Loads on Local Roads
 - High-RAP Asphalt Mixtures for Minnesota Local Roads
 - Temporary Traffic Control for Low-volume Roads
 - Intelligent Transportation System (ITS) Implementation Needs for Local Agencies
 - De-icing and Anti-icing Performance and Cost-effectiveness
 - Signing and Lane Markings for Roundabouts
 - Guidelines for Flashing Yellow Arrows for Protected/Permissive Use
- The RIC has a budget remaining of \$135,000 for additional projects to be identified in the future.
- The scope for the TZD task has been revised to include
 - videos targeted at an audience of younger drivers
 - Resource Guide for Agencies – Young Driver Tool Kit
 - Safety Training
- The Sign Management Online Training task has 10 modules and is expected to be complete in October.

Project Update Presentations

INV 940 Development of Cost-effective Timber Bridge Repair Techniques for Minnesota and Iowa – Brent Phares (Iowa State)

The main tasks in the project are to develop effective repair techniques for timber bridge superstructures and pilings, develop cost projections for repair strategies, prepare a Timber Bridge Repair Manual, and conduct outreach.

Five repair techniques were selected as the focus:

- Steel Sisters on Timber Piles
- Concrete Jacketing
- Pile Encapsulation
- Steel Sisters on Timber Stringers
- Laminated Deck Patching.

Cost projections will include benefit/cost comparisons and life-cycle costs. Outreach and training will include short courses with demonstration, webinars, and a module for inclusion in annual bridge training.

INV 917 Two-Lane Roundabout Field Research Regarding Signing and Striping – John Hourdos (University of Minnesota)

The project studied 2x2 lane roundabouts in Woodbury and Richfield that have two entry lanes and two circulatory lanes, which have been shown to have a decrease in injury crashes but an unacceptable increase in property damage-only crashes.

Based on the data in the study, the predominant causes of crashes were failure to yield and improper use of lanes. Several modifications to signing and striping at the Richfield roundabout resulted in a reduction in PDO crashes of 44% due to improper lane use, but no

change in yielding behavior. One site is not enough of a basis for final recommendations so additional study is needed.

Dr. Hourdos has a new project, INV 962 Evaluation of Safety and Mobility of Two-Lane Roundabouts, to conduct further studies at a minimum of at least three additional roundabouts.

Action item 18: Research Services will add Kaye Bieniek to the TAP and add the Carver County traffic engineer to the TAP of the new project, INV 962 Evaluation of Safety and Mobility of Two-Lane Roundabouts.

INV 943 Traffic Sign Life Expectancy – Howard Preston (CH2MHill)

The project is designed to evaluate the life expectancy of current sign retro-reflective sheeting materials. All agencies are required to have sign maintenance and management plans in place by June 13, 2014. The plan documents may be simple or complex, depending upon the jurisdiction.

The observed life of current diamond grade sheeting is believed to exceed the manufacturers' warranted life of 15 years, and in fact these materials have not been in service sufficiently long for failures to have been observed. As older types of signs are taken out of service they are replaced with these newer materials. A sign material test deck has been set up at MnROAD and will be monitored for years until the performance life cycle can be established.

Funding Decisions and Other Business

Motion by Julie Skallman, seconded by Lyndon Robjent: The LRRB will provide \$37,000 for the contract portion of Brian Brashaw's proposal on implementation of Timber Bridge Inspection Methods, and State Aid will provide \$45,000 for the equipment purchase portion of the project. Motion carried.

Action item 19: Ted Schoenecker will provide the State Aid admin budget funding codes to Research Services for a purchase order to procure the equipment for the timber bridge inspection implementation project.

Motion by Steve Koehler, seconded by Bruce Hasbargen: The LRRB will fund \$92,140 for the proposal from the Roadway Safety Institute on "Innovative Technology Workshop." Motion carried.

Motion by Julie Skallman, seconded by Steve Koehler: The LRRB will conduct an online vote regarding funding approval for the proposal from AET, Inc. on Evaluation and Prevention of Stripping Under Chip Seals; conducting the online voting will be contingent upon first receiving an email from Klayton Eckles endorsing the proposed project, and upon receiving a favorable opinion of the proposal from John Powell. Motion carried.

Action item 20: Klay Eckles will provide an email to Board members endorsing the AET proposal on Stripping Under Chip Seals.

Action item 21: John Powell will provide an opinion on the AET proposal on Stripping Under Chip Seals.

Action item 22: Contingent upon those actions (#20 and #21) being completed, Linda Taylor will coordinate an email vote of Board members on the AET proposal for the Stripping Under Chip Seals project.

Action item 23: Research Services will move forward in the RFP Process with the 11 research need statements that were completed on June 18.

Action item 24: Research Services will bring Professor Donath's second proposal on "Capturing Driver Attention and Reducing Speed in Work Zones" back to the December meeting for funding consideration at the time it considers proposals from the fall RFP.

Round Robin

- Steve Koehler told the group that 4 inches of rain had occurred last night in New Ulm.
- Linda Taylor said there are 3 trip report items remaining for further consideration.
- Julie Skallman suggested Jeff Hulsether could host next year's summer meeting. Discussion about potential dates in June settled on third week of June, to be held in Walker (exact dates and venue TBD).

Action item 25: Research Services will confirm the two days for the LRRB 2015 summer meeting with Jeff Hulsether, and obtain bids for a venue in Walker, MN.

1. Adjournment

The meeting was adjourned by the Chair at 12:10.

ACTION ITEMS

Action Item 1: The LRRB wants a project update presentation on INV 922, Systems Preservation Guide – A Planning Process for Local Government Management of Transportation Networks, at the September meeting.

Action Item 2: Please submit conference and other travel expenses for reimbursement to Carole Wiese at MnDOT. MnDOT staff travel paid by LRRB should forward a copy of their expense report to Carole.

Action Item 3: Kaye Bieniek has been contacted by TRB and will join the TRB Low Volume Roads committee, as will the new State Aid Engineer to be hired after Julie retires.

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