



LRRB Proposal Review Meeting

October 27, 2014

MnDOT - District 3 Headquarters

3725 - 12th Street North

St. Cloud, Minnesota 56303

MINUTES

LRRB Members Present:

Bruce Hasbargen (Chair), Beltrami County
Lyndon Robjent, Carver County
Tim Stahl, Jackson County
Steve Koehler, City of New Ulm
Kaye Bieniek, Olmsted County
Julie Skallman, MnDOT - State Aid
Tom Ravn, MnDOT - Construction Office
Linda Taylor, MnDOT - Research Services

Others Present:

Debbie Sinclair, MnDOT - Research Services
Bruce Holdhusen, MnDOT - Research Services
Hafiz Munir, MnDOT - Research Services
Chris Kufner, MnDOT - Materials Office
Brenda Thomas, U of M - CTS

Absent:

Laurie McGinnis, U of M - CTS
John Powell, City of Savage

I. Call To Order

- The meeting was called to order at 10:00 AM by the Chair, Bruce Hasbargen. The purpose of the meeting, primarily to select proposals for presentation at the meeting in December, was reviewed, and the agenda was approved by the Chair. Attendees introduced themselves.
- The minutes of the September 25, 2014 LRRB meeting were approved. (Motion by Steve Koehler, second by Tim Stahl.)

Pending action items from September meeting minutes - Linda Taylor

- Discussion of any action items not otherwise on the agenda:

September Action Item #2: MnDOT staff will distribute blank 'thank you' note cards at the next LRRB meeting.

Blank 'Thank You' note cards were distributed at the start of this meeting for use by LRRB members. RS will forward 10 blank thank you notes to John Powell and Laurie McGinnis.

September Action Item #5: *Carole Wiese will facilitate bids for meeting accommodations at the joint LRRB/RIC meeting in Walker, June 17-18, 2015.*

Bids are in process for accommodations for the LRRB summer meeting June 15-16, 2015, in Walker, MN.

September Action Item #8: *RIC will request State Aid funding to expand use of the FWD Viewer and develop specifications for FWD data collection.*

Tim Stahl will contact Joel Ulring regarding State Aid funding for enhancements of the FWD Viewer Tool and specifications for collection of FWD data compatible with the database and FWD viewer tool. Tim will provide an update to the Board at the next LRRB meeting in December.

September Action Item #9: *Tim Stahl and other interested county engineers will develop a letter to State Aid to initiate a dialog about updating the MnDOT Detour Compensation Policy.*

Julie Skallman has provided Tim Stahl with an email confirming the way to move forward with opening a dialog about the MnDOT Detour Compensation Policy. Tim related that the I-90 reconstruction project next year will have numerous detours in Jackson County, which will be used as a comparison study to provide data on actual detour costs to the county compared to compensation provided under the policy.

September Action Item #15: *Nick Busse and Julie Skallman will look at the archive of past LRRB and RIC products, such as VHS videotapes, and decide which ones to keep or toss.*

The keep-or-toss review of archived past LRRB and RIC products, such as VHS videotapes, is still in progress. Nick Busse will take the lead and follow up with Julie Skallman. (Action item held over)

June 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.*

The proposal presented by Max Donath at the summer meeting on "Capturing Driver Attention and Reducing Speed in Work Zones" was modified and submitted by Janet Creaser as PI (with Prof. Donath as Co-I) under NS-392, and it is on the list of proposals under consideration as the first of a 3-phase project.

II. Budget and Administration

Debbie Sinclair reviewed the current budget summary spreadsheets:

- Completed: INV894 (Assessing and Improving Pollution Prevention by Swales) and INV907 (Assessing the Impact of Heavy Loads on the Local Roads).
- New contract with CTC & Associates is in process of being signed for INV916 (FY15 LRRB Technical Transfer Materials Development).
- INV924 – Videos for \$36,565 are listed (Roundabout Myths video in progress; Rumbles video contract pending). Two new videos on Winter Chemicals for Locals and Ineffective Signs will come out of the remaining \$63,435.

Action item #1: The Board requested a budget note for videos be added to the last page of the budget summary indicating the amount committed and the amount remaining for additional videos.

- The bottom line total available is \$191,663 for FY 2015, and \$837,091 for combined FY 2015 and FY 2016.

Conferences: A handout of 2014/15 conferences was provided in the meeting materials.

- Julie Skallman said Guy Kohlnhofer and Darren Mielke will be attending TRB in the two open spots. Brian Boder attending TRB will not be funded with LRRB funds.
- Chris Kufner informed the Board there will be a 'MnROAD Day' on the afternoon of February 11, following the TERRA Board meeting in the morning, in conjunction with the TERRA Pavement Conference on February 12, 2015. MnROAD Day will be held at the same location as the Pavement Conference, and will focus on the results of MnROAD Phase 2 reconstruction projects. Attendees can sign up at the same time as registration for the Pavement Conference.

2015 LRRB & RIC Meeting Dates and Locations: A handout of the meeting dates was provided in the meeting materials.

- LRRB meeting dates are set through December, 2015. Next LRRB meeting is December 3-4, 2014 at the University of Minnesota Coffman Memorial Union Campus Club.
- RIC meets November 24, and they will set 2015 dates at that meeting.

III. Road Dust Institute

Tim Stahl discussed the benefits of the LRRB joining the Road Dust Institute (RDI). There are several possible levels of financial commitment and involvement in the organization.

Action item #2: Tim Stahl has agreed to be the LRRB representative and will contact David Jones, director of the Road Dust Institute, to negotiate LRRB's desired level of participation and financial commitment, and bring a motion to the next LRRB meeting.

IV. Outreach Update - Julie Skallman

- Julie provided an update on You Tube videos in progress and pointed out that we will not be starting any more video projects until we understand how much money will remain after the videos on Winter Chemicals and Ineffective Signs, and the amendment for the Flashing Yellow Arrow video is processed.
- Julie summarized some changes for the At-A-Glance:
 - Add more photos, 3-4 projects
 - Photos on front cover
 - Projects will be sorted by research topic areas
 - Back cover will have a photo of a YouTube video
 - A feature article will highlight that we are looking for new research ideas
- Transportation Conference in March
 - Handouts: At-A-Glance, TS and videos
 - Cleaner look for booth
 - SRF is developing a backdrop for the booth
- The incoming State Aid Engineer will remain Chair of the Outreach Committee.

Action item #3: A new photo of LRRB and RIC will be taken at their next meeting. (November 24 for RIC and December 3-4 for LRRB.)

Action item #4: Nick Busse will work with a consultant on getting the LRRB website organized by research topic area and modify search option.

V. Otta Seal Research Project in Iowa

Professors Chuck Jahren and Halil Ceylan provided an update on the current project "Evaluation of Otta Seal Surfacing for Low-volume Roads in Iowa." Dr. Ceylan is director of the Program for Sustainable Pavement Engineering and Research (PROSPER) at Iowa State University. The project is just getting underway.

Action item #5: Professors Jahren and Ceylan will contact Chris Kufner at MnDOT when they are ready to conduct the Otta Seal field demonstration in Iowa, and Chris or another MnDOT Materials Office representative will update the Board.

VI. FY 2015 Proposal Rating & Selection - Hafiz Munir

Voting Summary: A handout of the proposals listed in order of number of Board votes was provided for discussion.

Proposals/Discussions/Selection:

- There were 24 research need statements on the university RFP, and 41 proposals were received (40 from universities and 1 from MnDOT Materials Office).
- The Board decided that the number of proposals to be heard at the December meeting should be similar to last year (17 presentations in December 2014).
- Discussion and decisions by the board as follows:
 - Hear the Top 12 as determined by the voting summary spreadsheet
 - NS-380: Hear the proposal from John Hourdos
 - NS-399: Hear the proposal from Derek Tompkins
 - NS-399: Hear the proposal from David Jeong
 - NS-401: Hear the proposal from David Saftner
- The following list of 16 proposals from the RFP will be scheduled for presentations:
 - NS-397 (Tom Wood and Doug Gransberg) [Alternatives to Seal Coats](#)
 - NS-401 (Vernon Schaefer) [Maintenance Solutions for Slope Failure](#)
 - NS-401 (David Saftner) [Slope Stabilization and Repair Solutions for Local Government Engineers](#)
 - NS-382 (Mihai Marasteanu) [Pothole Prevention and Innovative Repair](#)
 - NS-400 (Charles Jahren) [Options and Guidance When Using Base Stabilization Additives](#)
 - NS-379 (Brian Brashaw) [Cost-competitive Timber Bridge Designs for Long Term Performance](#)
 - NS-393 (Halil Ceylan) [Installation of Insulation Over Centerline Culverts](#)
 - NS-395 (Chen-Fu Liao) [Using Performance Measures to Assess the Impact of Freight Operation on Regional Freight Corridors](#)
 - NS-396 (Charles Jahren) [Evaluation of Stabilized Full Depth Reclamation \(SFDR\)](#)
 - KB04/05 (David Levinson) [The Transportation Futures Project: Planning for Technology Change](#)
 - KB10/13 (Sam Bauer) [Expanding the Success of Salt-Tolerant Roadside Turfgrasses through Innovation and Education](#)
 - KB10 (John Gulliver) [Chloride Retention in Minnesota Soils](#)
 - NS-390 (Larry Zanko) [Using Mobile Microwave Technology Concurrent with HMA Paving to Extend Longitudinal Joint Life](#)
 - NS-380 (John Hourdos) [Assessing the Impact of Pedestrian Activated Crossing Systems](#)
 - NS-399 (David Jeong) [PCC and HMA Evaluation Tool for Local Agencies](#)
 - NS-399 (Derek Tompkins) [Life-Cycle Cost Analysis Tool for Minnesota Pavements](#)

- Any other additional funding requests should be brought in front of the Board at the December meeting before final funding decisions are made on the new research proposals.
 - The proposal presented by Max Donath at the summer LRRB meeting and submitted through the research RFP process as NS-392 by Janet Creaser, does not need to be presented again at the December meeting, and will be on the December meeting agenda for 5-minute discussion.

Action item #6: The proposal for NS-392 by Janet Creaser “Examining signing options for improving safe driving behaviors in work zones” will be put on the agenda for discussion at the December meeting and a set of slides will be included in the meeting materials, but the proposal does not need to be presented again.

- Kaye Bieniek recommends continuing the project “Performance Monitoring of Olmsted CR 117/104 and Aggregate Base Material Update.” The project is evaluating test sections constructed in 2000, and the TAP sees value in continuing to monitor until the pavement becomes distressed. The contract extension with MnDOT Materials Office would be for approximately \$44,000 and a period of 5 years.

Action item #7: Kaye Bieniek will bring a proposal from MnDOT Materials Office for consideration at the December meeting to continue the project “Performance Monitoring of Olmsted CR 117/104 and Aggregate Base Material Update” for another 5 years.

- Lyndon Robjent is interested in developing a project for a pavement rehabilitation plan for county roads or trunk highways that have an exceptionally deep asphalt cross section. In Carver County this was a result of multiple overlays, and is similar to some of the Minnesota trunk highways that have thick asphalt sections, and requires a different full-depth rehabilitation strategy than most county roads.

Action item #8: Lyndon Robjent will bring a consultant proposal for consideration at the December meeting for a project to develop a full-depth pavement rehabilitation strategy for very thick asphalt roads.

VII. Culvert Repair Best Practices Training

Follow-up on the presentation at the September LRRB meeting by Bruce Wagener of C.N.A. Consultants on the MnDOT project, “Culvert Repair Best Practices, Specifications and Special Provisions Guidelines.” At the September meeting the Board had requested to find out if the TAP for the LRRB project currently in progress, “Culvert Design, Installation and Maintenance Independent On-line Distance Learning (ODL) Course” looked at the report by C.N.A., and could scope be added to the current project, if needed, or is it too far toward completion to add material?

Action item #9: Bruce Holdhusen will follow up with Jim Grothaus regarding the culvert repair best practices report and any gaps in the ODL course that could be met with material from that report, and to discuss if there is a need for additional scope in the online training project.

VIII. Adjournment

The meeting was adjourned by Bruce Hasbargen at 1:10 P.M.

Next meeting: December 3 & 4, 2014 at University of Minnesota Coffman Memorial Union Campus Club.

Summary of Action Items

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