

Local Road Research Board  
 OPERA Program - Operational Research Assistance Program  
 CY 2003-2008

Revised June 17, 2008

Project No.	Project Title	Submitted by	Amount Awarded	Percent Paid	Amount Paid (to date)	Final Report	Notes
<b>2003</b>							
2003-01	Improved Effectiveness of Salt Brine as an Anti-icing agent	Bernie Fasnacht City of Mankato	\$10,000.00	100.00%	\$10,000.00	YES	Presented in 2005 Annual Report
2003-02	Advanced Warning With Solar Powered Flashers	Gregory Nikodym Kanabec County	\$3,925.00	100.00%	\$3,925.00	YES	Presented in 2005 Annual Report
2003-03	Snow & Ice Build Up on Snowplow Windshields	Brad Thielsen Hutchinson	\$2,000.00	100.00%	\$2,000.00	YES	Presented in 2006 Annual Report
2003-04	Elimination of Severe Washboarding on Roads	Willard Reiner McLeod County	\$1,500.00	80.00%	\$1,200.00	NO	Project is done. Sponsor is deceased.
2003-05	Dust Reduction & Stabilization of Rural Gravel Roads	Gregory Nikodym Kanabec County	\$4,900.00	100.00%	\$4,900.00	YES	Presented in 2005 Annual Report
2003-06	Culvert Tie Bars for Small Concrete Pipes	Doug Johnson Washington Co.	\$1,500.00	100.00%	\$1,500.00	YES	Presented in 2006 Annual Report
2003-07	Construction Project Process Automation	Steven C. Backowski Morrison County	\$8,500.00	100.00%	\$8,500.00	YES	Presented in 2005 Annual Report
2003-08	Increasing the Capacity of Slab Span Timber Bridges	Wayne Fingalson Wright County Don Sobania	\$10,000.00	100.00%	\$10,000.00	YES	Presented in 2006 Annual Report
2003-09	Pedestrian Activated Solar Warning Flasher Test	City of St. Paul Rachel Guan	\$10,000.00	100.00%	\$10,000.00	YES	Presented in 2006 Annual Report
<b>TOTAL AWARDED CY 2003</b>			<b>\$52,325.00</b>				

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<b>2004</b>							
2004-01	Void	Void	Void	Void	Void	Void	Void
2004-02	Void	Void	Void	Void	Void	Void	Void
2004-03	Auto Adjust Camera System in Direct Sunlight Conditions	Wayne Sandberg Washington County	\$4,000.00	100.00%	\$4,000.00	YES	Presented in 2005 Annual Report
2004-04	Blower Attachment to Remove Grass Clippings During Gravel Road Maintenance Operations	Jeffery Langan Marshall County	\$4,000.00	100.00%	\$4,000.00	YES	Presented in 2005 Annual Report
2004-05	X-Hesion Testing	Greg Stang City of Rockville	\$5,996.86	100.00%	\$5,996.86	YES	Presented in 2005 Annual Report
2004-06	Void	Void	Void	Void	Void	Void	Void
2004-07	Dura-Therm Pavement Markings	Dan Soler Ramsey County	\$7,796.00	100.00%	\$7,796.00	YES	Presented in 2006 Annual Report
2004-08	McLeod County Slurry Leveling	John Brunkhorst McLeod County	\$10,000.00	100.00%	\$10,000.00	YES	Presented in 2005 Annual Report
<b>TOTAL AWARDED CY 2004</b>			<b>\$31,792.86</b>				
<b>2005</b>							
2005-01	Tru-Pave Testing	Cory Slagle Washington County	\$10,000.00	100.00%	\$10,000.00	YES	Will be in 2007 Annual Report
2005-02	Geotextile Fabric Testing	Corky Kleven Red Lake County	\$10,000.00	100.00%	\$10,000.00	YES	Will be in 2008 Annual Report
<b>TOTAL AWARDED CY 2005</b>			<b>\$20,000.00</b>				

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<b>2006</b>							
2006-01	Low - Cost Base Stabilization	Guy Kolnhofer Dodge County	\$5,000.00	100.00%	\$5,000.00	YES	Will be in 2008 Annual Report
2006-02	Public Works Garage Lighting	Brian Wagstrom City of Minnetonka	Cancelled	Cancelled		NO	Cancelled
2006-03	Recycled Shingles In Asphalt	Bill Boettner Hassan Twp.	\$10,000.00	100.00%	\$10,000.00	YES	Will be in 2007 Annual Report
2006-04	Gravel Road Maintenance	Gene Busacker Scott County	\$5,000.00	100.00%	\$5,000.00	YES	Will be in 2007 Annual Report
2006-05	Gravel Road Stabilization	Gene Busacker Scott County	\$5,000.00	100.00%	\$5,000.00	YES	Will be in 2007 Annual Report
2006-06	Frostboil Correction	Gene Busacker Scott County	\$5,000.00	100.00%	\$5,000.00	YES	Will be in 2007 Annual Report
2006-07	Water Quality Improvements	Jeff Goetzman St. Louis County	\$3,175.00	0.00%	\$0.00	YES	Will be in 2008 Annual Report
<b>TOTAL AWARDED CY 2006</b>			<b>\$33,175.00</b>				
<b>2007</b>							
2007-01	Seal Coating of a Gravel Road Hill	Elvin Paulson Yucatan Township	\$10,000.00	100.00%	\$10,000.00	YES	Will be in 2008 Annual Report
2007-02	Stormsewer Inspection Using Handheld Camera	Kenneth Haider Ramsey County	\$10,000.00	100.00%	\$10,000.00	YES	Will be in 2008 Annual Report
2007-03	Road Material Recovery	Dennis Brown Bridgewater Township	\$5,000.00	80.00%	\$4,000.00	YES	Will be in 2008 Annual Report
2007-04	Mini-Paver	Jennifer Levitt Cottage Grove	\$10,000.00	80.00%	\$8,000.00	YES	Will be in 2008 Annual Report

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2007-05	2007 Road Re-Con Asphalt Joints	Tom Wesolowski City of Shoreview	\$10,000.00	n/a	n/a	n/a	Approved 02-29-08 will be in 2009 Annual Report
2007-06	2007 Road Re-Con Coring and Mix Design	Tom Wesolowski City of Shoreview	\$10,000.00	n/a	n/a	n/a	Approved 02-29-08 will be in 2009 Annual Report
2007-07	Anti-Icing/De-icing Chemical Blending	Joe Wiita City of Prior Lake	\$1,500.00	n/a	n/a	YES	Approved 02-29-08 will be in 2009 Annual Report
2007-08	Red Light Conformation Light Enforcment Study	Bonnie Buck City of Burnsville	\$8,641.95	n/a	n/a	n/a	Approved 02-29-08 will be in 2009 Annual Report
2007-09	Evaluation of Hot Beam Wipers vs. Blades	Gary Haugen Big Stone County	\$1,683.05	n/a	n/a	YES	Approved 02-29-08 will be in 2009 Annual Report
<b>TOTAL AWARDED CY 2007</b>			<b>\$66,825.00</b>				
<b>Total Award CY 2006 and 2007</b>			<b>\$100,000.00</b>				