

Application

10356 - 2018 Bridges		
10910 - Lexington Parkway (CSAH 51) Replacement of Bridges	5583 and 7276	
Regional Solicitation - Roadways Including Multimodal Elements		
Status:	Submitted	
Submitted Date:	07/13/2018 6:49 AM	

Primary Contact

Name:*	Salutation	Joseph First Name	Frank Middle Name		Lux Last Name
Title:	Senior Planner				
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Email:	joseph.lux@co.ramsey.mn.us				
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*	Arden Hills	Minnesot	а	5511	2
	City	State/Province	e	Postal	Code/Zip
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What Grant Programs are you most interested in?	Regional Solicitation - Roadways Including Multimodal Elements				imodal

Organization Information

Name:

RAMSEY COUNTY

Jurisdictional Agency (if different):

Organization Type:	County Government		
Organization Website:			
Address:	DEPT OF PUBLIC WORKS		
	1425 PAUL KIRKWOOD DR		
*	ARDEN HILLS	Minnesota	55112
	City	State/Province	Postal Code/Zip
County:	Ramsey		
Phone:*	651-266-7100		
i none.		Ext.	
Fax:			
PeopleSoft Vendor Number	0000023983A30		

Project Information

Project Name	Lexington Parkway CSAH 51) Replacement of Bridges 5583 and 7276
Primary County where the Project is Located	Ramsey
Cities or Townships where the Project is Located:	Saint Paul
Jurisdictional Agency (If Different than the Applicant):	Ramsey County
Brief Project Description (Include location, road name/functional class, type of improvement, etc.)	Bridge No. 7276 carries Lexington Parkway (CSAH 51), a Class A Minor Arterial- Augmenter, over Pierce Butler Route (CSAH 33). It has a sufficiency rating of 5408 and is load limited to 16 tons for a single unit and 36 tons for combination units. Bridge 5583 carries Lexington Parkway over the BNSF Railroad and has a sufficiency rating of 3706, with similar load limits. The load limits on these facilities restrict the ability of trucks from the Midway multi-modal yards to use Lexington Parkway to access the University Avenue and I-94 corridors. Because the existing bridges are only separated by approximately 70 feet, we propose to replace them as a single project.

(Limit 2,800 characters; approximately 400 words)

TIP Description <u>Guidance</u> (will be used in TIP if the project is selected for funding)

to the nearest one-tenth of a mile

Project Funding

Are you applying for competitive funds from another source(s) to implement this project?	No
If yes, please identify the source(s)	
Federal Amount	\$7,000,000.00
Match Amount	\$2,192,114.00
Minimum of 20% of project total	
Project Total	\$9,192,114.00
Match Percentage	23.85%
Minimum of 20% Compute the match percentage by dividing the match amount by the project total	
Source of Match Funds	CSAH and local funds
A minimum of 20% of the total project cost must come from non-federal sources; sources	additional match funds over the 20% minimum can come from other federal
Preferred Program Year	
Select one:	2022
Select 2020 or 2021 for TDM projects only. For all other applications, select 2022	or 2023.
Additional Program Years:	2021
Select all years that are feasible if funding in an earlier year becomes available.	

Project Information-Roadways

County, City, or Lead Agency	Ramsey County Public Works
Functional Class of Road	Class A Minor Arterial- Augmenter
Road System	CSAH
TH, CSAH, MSAS, CO. RD., TWP. RD., CITY STREET	
Road/Route No.	51
i.e., 53 for CSAH 53	
Name of Road	Lexington Parkway
Example; 1st ST., MAIN AVE	
Zip Code where Majority of Work is Being Performed	55104
(Approximate) Begin Construction Date	05/16/2022
(Approximate) End Construction Date	11/04/2022
TERMINI:(Termini listed must be within 0.3 miles of a	ny work)

From: (Intersection or Address)	Pierce Butler Route
To: (Intersection or Address)	BNSF RR
DO NOT INCLUDE LEGAL DESCRIPTION	
Or At	Bridges No. 5583 and 7276
Primary Types of Work	Bridge Construction
Examples: GRADE, AGG BASE, BIT BASE, BIT SURF, SIDEWALK, CURB AND GUTTER,STORM SEWER, SIGNALS, LIGHTING, GUARDRAIL, BIKE PATH, PED RAMPS, BRIDGE, PARK AND RIDE, ETC.	
BRIDGE/CULVERT PROJECTS (IF APPLICABLE)	
Old Bridge/Culvert No.:	5583 and 7276
New Bridge/Culvert No.:	TBD
Structure is Over/Under (Bridge or culvert name):	Pierce Butler Route and BNSF RR

Requirements - All Projects

All Projects

1. The project must be consistent with the goals and policies in these adopted regional plans: Thrive MSP 2040 (2014), the 2040 Transportation Policy Plan (2015), the 2040 Regional Parks Policy Plan (2015), and the 2040 Water Resources Policy Plan (2015).

Check the box to indicate that the project meets this requirement. Yes

2. The project must be consistent with the 2040 Transportation Policy Plan. Reference the 2040 Transportation Plan goals, objectives, and strategies that relate to the project.

	Goal: Transportation System Stewardship Objectives: Efficiently preserve and maintain the regional transportation system in a state of
	good repair. Operate the regional transportation system to efficiently and cost-effectively connect people and freight to destinations
	Strategies: A1, A2
	Goal: Safety and Security
	Objectives:Reduce crashes and improve safety and security for all modes of passenger travel and freight transport.
List the goals, objectives, strategies, and associated pages:	Strategies: B1, B4
	Goal: Access to Destinations
	Objectives: Increase the availability of multi-modal travel options, especially in congested highway corridors. Ensure access to freight terminals such as river ports, airports, and inter-modal rail yards.
	Strategies: C1, C4, C7, C9, C10
	Goal: Competitive Economy
	Objectives: Support the region?s economic competitiveness through the efficient movement of freight.

Strategies: D1

3. The project or the transportation problem/need that the project addresses must be in a local planning or programming document. Reference the name of the appropriate comprehensive plan, regional/statewide plan, capital improvement program, corridor study document [studies on trunk highway must be approved by the Minnesota Department of Transportation and the Metropolitan Council], or other official plan or program of the applicant agency [includes Safe Routes to School Plans] that the project is included in and/or a transportation problem/need that the project addresses.

List the applicable documents and pages:

Ramsey County Transportation Improvement Program (9, 29) 4. The project must exclude costs for studies, preliminary engineering, design, or construction engineering. Right-of-way costs are only eligible as part of transit stations/stops, transit terminals, park-and-ride facilities, or pool-and-ride lots. Noise barriers, drainage projects, fences, landscaping, etc., are not eligible for funding as a standalone project, but can be included as part of the larger submitted project, which is otherwise eligible.

Check the box to indicate that the project meets this requirement. Yes

5. Applicants that are not cities or counties in the seven-county metro area with populations over 5,000 must contact the MnDOT Metro State Aid Office prior to submitting their application to determine if a public agency sponsor is required.

Check the box to indicate that the project meets this requirement. Yes

6.Applicants must not submit an application for the same project elements in more than one funding application category.

Check the box to indicate that the project meets this requirement. Yes

7. The requested funding amount must be more than or equal to the minimum award and less than or equal to the maximum award. The cost of preparing a project for funding authorization can be substantial. For that reason, minimum federal amounts apply. Other federal funds may be combined with the requested funds for projects exceeding the maximum award, but the source(s) must be identified in the application. Funding amounts by application category are listed below.

Roadway Expansion: \$1,000,000 to \$7,000,000

Roadway Reconstruction/ Modernization Modernization and Spot Mobility: \$1,000,000 to \$7,000,000 Traffic Management Technologies (Roadway System Management): \$250,000 to \$7,000,000 Bridges Rehabilitation/ Replacement: \$1,000,000 to \$7,000,000

Check the box to indicate that the project meets this requirement. Yes

8. The project must comply with the Americans with Disabilities Act (ADA).

Check the box to indicate that the project meets this requirement. Yes

9. In order for a selected project to be included in the Transportation Improvement Program (TIP) and approved by USDOT, the public agency sponsor must either have, or be substantially working towards, completing a current Americans with Disabilities Act (ADA) self-evaluation or transition plan that covers the public right of way/transportation, as required under Title II of the ADA.

The applicant is a public agency that employs 50 or more people and has an adopted ADA transition plan that covers the public right of way/transportation.	Yes	Date plan ado	pted by governing body
The applicant is a public agency that employs 50 or more people and is currently working towards completing an ADA transition plan that covers the public rights of way/transportation.	Yes	Date process started	Date of anticipated plan completion/adoption
The applicant is a public agency that employs fewer than 50 people and has a completed ADA self-evaluation that covers the public rights of way/transportation.		Date self-evalu	uation completed
The applicant is a public agency that employs fewer than 50 people and is working towards completing an ADA self-evaluation that covers the public rights of way/transportation.	Yes	Date process started	Date of anticipated plan completion/adoption
(TDM Applicants Only) The applicant is not a public agency subject to the self-evaluation requirements in Title II of the ADA.	Yes		
10.The project must be accessible and open to the general public.			
Check the box to indicate that the project meets this requirement.	Yes		
11. The owner/operator of the facility must operate and maintain the pro	ject year-round for the u	seful life of the improver	ment, per FHWA

Check the box to indicate that the project meets this requirement. Yes

direction established 8/27/2008 and updated 6/27/2017.

12. The project must represent a permanent improvement with independent utility. The term independent utility means the project provides benefits described in the application by itself and does not depend on any construction elements of the project being funded from other sources outside the regional solicitation, excluding the required non-federal match. Projects that include traffic management or transit operating funds as part of a construction project are exempt from this policy.

Check the box to indicate that the project meets this requirement. Yes

13. The project must not be a temporary construction project. A temporary construction project is defined as work that must be replaced within five years and is ineligible for funding. The project must also not be staged construction where the project will be replaced as part of future stages. Staged construction is eligible for funding as long as future stages build on, rather than replace, previous work.

Check the box to indicate that the project meets this requirement. Yes

14. The project applicant must send written notification regarding the proposed project to all affected state and local units of government prior to submitting the application.

Check the box to indicate that the project meets this requirement. Yes

Roadways Including Multimodal Elements

1.All roadway and bridge projects must be identified as a principal arterial (non-freeway facilities only) or A-minor arterial as shown on the latest TAB approved roadway functional classification map.

Check the box to indicate that the project meets this requirement. Yes

Roadway Expansion and Reconstruction/Modernization and Spot Mobility projects only:

2. The project must be designed to meet 10-ton load limit standards.

Check the box to indicate that the project meets this requirement.

Bridge Rehabilitation/Replacement projects only:

3.Projects requiring a grade-separated crossing of a principal arterial freeway must be limited to the federal share of those project costs identified as local (non-MnDOT) cost responsibility using MnDOTs Cost Participation for Cooperative Construction Projects and Maintenance Responsibilities manual. In the case of a federally funded trunk highway project, the policy guidelines should be read as if the funded trunk highway route is under local jurisdiction.

Check the box to indicate that the project meets this requirement. Yes

4. The bridge must carry vehicular traffic. Bridges can carry traffic from multiple modes. However, bridges that <u>are exclusively</u> for bicycle or pedestrian traffic must apply under one of the Bicycle and Pedestrian Facilities application categories. Rail-only bridges are ineligible for funding.

Check the box to indicate that the project meets this requirement. Yes

5. The length of the bridge must equal or exceed 20 feet.

Check the box to indicate that the project meets this requirement. Yes

6. The bridge must have a sufficiency rating less than 80 for rehabilitation projects and less than 50 for replacement projects. Additionally, the bridge must also be classified as structurally deficient or functionally obsolete.

Check the box to indicate that the project meets this requirement. Yes

Roadway Expansion, Reconstruction/Modernization and Spot Mobility, and Bridge Rehabilitation/Replacement projects only:

7. All roadway projects that involve the construction of a new/expanded interchange or new interchange ramps must have approval by the Metropolitan Council/MnDOT Interchange Planning Review Committee prior to application submittal. Please contact Michael Corbett at MnDOT (Michael.J.Corbett@state.mn.us or 651-234-7793) to determine whether your project needs to go through this process.

Check the box to indicate that the project meets this requirement. Yes

Requirements - Roadways Including Multimodal Elements

Specific Roadway Elements

CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES	Cost	
Mobilization (approx. 5% of total cost)	\$369,265.00	
Removals (approx. 5% of total cost)	\$369,265.00	
Roadway (grading, borrow, etc.)	\$0.00	
Roadway (aggregates and paving)	\$0.00	
Subgrade Correction (muck)	\$0.00	
Storm Sewer	\$0.00	
Ponds	\$0.00	
Concrete Items (curb & gutter, sidewalks, median barriers)	\$0.00	
Traffic Control	\$232,636.95	
Striping	\$0.00	
Signing	\$0.00	
Lighting	\$0.00	
Turf - Erosion & Landscaping	\$0.00	
Bridge	\$7,385,300.00	
Retaining Walls	\$0.00	
Noise Wall (not calculated in cost effectiveness measure)	\$0.00	
Traffic Signals	\$0.00	
Wetland Mitigation	\$0.00	
Other Natural and Cultural Resource Protection	\$0.00	
RR Crossing	\$0.00	
Roadway Contingencies	\$835,646.70	
Other Roadway Elements	\$0.00	
Totals	\$9,192,113.65	

Specific Bicycle and Pedestrian Elements

CONSTRUCTION PROJECT ELEMENTS/COST	Cost
ESTIMATES	0031
Path/Trail Construction	\$0.00

Sidewalk Construction \$	\$0.00
On-Street Bicycle Facility Construction \$	\$0.00
Right-of-Way \$	\$0.00
Pedestrian Curb Ramps (ADA) \$	\$0.00
Crossing Aids (e.g., Audible Pedestrian Signals, HAWK) \$	\$0.00
Pedestrian-scale Lighting \$	\$0.00
Streetscaping \$	\$0.00
Nayfinding \$	\$0.00
Sicycle and Pedestrian Contingencies \$	\$0.00
Other Bicycle and Pedestrian Elements \$	\$0.00
Fotals \$	\$0.00

Specific Transit and TDM Elements

Fixed Guideway Elements\$0.00Stations, Stops, and Terminals\$0.00Support Facilities\$0.00Transit Systems (e.g. communications, signals, controls, fare collection, etc.)\$0.00Vehicles\$0.00Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	CONSTRUCTION PROJECT ELEMENTS/COST ESTIMATES	Cost
Stations, Stops, and Terminals\$0.00Support Facilities\$0.00Transit Systems (e.g. communications, signals, controls, fare collection, etc.)\$0.00Vehicles\$0.00Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Fixed Guideway Elements	\$0.00
Support Facilities\$0.00Transit Systems (e.g. communications, signals, controls, fare collection, etc.)\$0.00Vehicles\$0.00Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Stations, Stops, and Terminals	\$0.00
Transit Systems (e.g. communications, signals, controls, fare collection, etc.)\$0.00Vehicles\$0.00Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Support Facilities	\$0.00
Vehicles\$0.00Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Transit Systems (e.g. communications, signals, controls, fare collection, etc.)	\$0.00
Contingencies\$0.00Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Vehicles	\$0.00
Right-of-Way\$0.00Other Transit and TDM Elements\$0.00Totals\$0.00	Contingencies	\$0.00
Other Transit and TDM Elements\$0.00Totals\$0.00	Right-of-Way	\$0.00
Totals \$0.00	Other Transit and TDM Elements	\$0.00
	Totals	\$0.00

Transit Operating Costs

Number of Platform hours	0
Cost Per Platform hour (full loaded Cost)	\$0.00
Subtotal	\$0.00
Other Costs - Administration, Overhead,etc.	\$0.00

Totals

Total Cost

Construction Cost Total	\$9,192,113.65
Transit Operating Cost Total	\$0.00

Measure A: Distance to the nearest parallel bridge

RESPONSE:	
Location of nearest parallel bridge crossing:	Snelling Avenue (TH 51) and Dale Steet (CSAH 53)
Distance from one end of proposed project to nearest parallel crossing (that is an A-minor arterial or principal arterial) and then back to the other side of the proposed project (calculated by Council Staff):	0
Explanation:	Lexington parkway is located approximately on mile east of Snelling Avenue and one mile west of Dale Street.
(Limit 2,800 characters; approximately 400 words)	

Measure B: Project Location Relative to Jobs, Manufacturing, and Education

Existing Employment within 1 Mile:	18468
Existing Manufacturing/Distribution-Related Employment within 1 Mile:	2879
Existing Post-Secondary Students within 1 Mile:	4258
Upload Map	1529590045687_Regional Economy Map.pdf
Please upload attachment in PDF form.	

Measure C: Regional Truck Corridor Tiers

RESPONSE (Select one for your project, based on the Regional Truck Corridor Study):

The project is located on either a Tier 1, Tier 2, or Tier 3 corridor:	
(65 Points)	
The project provides a direct and immediate connection (i.e., intersects) with either a Tier 1, Tier 2, or Tier 3 corridor:	Yes
(10 Points)	
The project is not located on a Tier 1, Tier 2, or Tier 3 corridor:	
(0 Points)	

Measure A: Current Daily Person Throughput

LocationLexington Parkway, north of Pierce Butler RouteCurrent AADT Volume23700.0

Existing	Transit	Routes	on tl	he P	roject:	

1529590285640_Transit Map.pdf

Upload "Transit Connections" map Please upload attachment in PDF form.

Response: Current Daily Person Throughput		
Average Annual Daily Transit Ridership	456.0	
Current Daily Person Throughput	31266.0	

83

Measure B: 2040 Forecast ADT

Use Metropolitan Council model to determine forecast (2040) ADT volume If checked, METC Staff will provide Forecast (2040) ADT volume 27500 OR

Identify the approved county or city travel demand model to determine forecast (2040) ADT volume

Forecast (2040) ADT volume

Measure A: Connection to disadvantaged populations and projects benefits, impacts, and mitigation

Select one:

Project located in Area of Concentrated Poverty with 50% or more of residents are people of color (ACP50):

(up to 100% of maximum score)

Project located in Area of Concentrated Poverty:

(up to 80% of maximum score)

Projects census tracts are above the regional average for population in poverty or population of color:

Yes

(up to 60% of maximum score)

Project located in a census tract that is below the regional average for population in poverty or populations of color or includes children, people with disabilities, or the elderly:

(up to 40% of maximum score)

1.(0 to 3 points) A successful project is one that has actively engaged low-income populations, people of color, children, persons with disabilities, and the elderly during the project's development with the intent to limit negative impacts on them and, at the same time, provide the most benefits.

Describe how the project has encouraged or will engage the full cross-section of community in decision-making. Identify the communities to be engaged and where in the project development process engagement has occurred or will occur. Elements of quality engagement include: outreach to specific communities and populations that are likely to be directly impacted by the project; techniques to reach out to populations traditionally not involved in the community engagement related to transportation projects; residents or users identifying potential positive and negative elements of the project; and surveys, study recommendations, or plans that provide feedback from populations that may be impacted by the proposed project. If relevant, describe how NEPA or Title VI regulations will guide engagement activities.

Response:

Lexington Parkway, CSAH 51, is part of a contiguous County State Aid Highway corridor from the Mississippi River to northern Anoka County. This segment of the route provides access to industrial areas around the Midway multi-modal yards, commercial areas to the north and south, and provides the primary access into Como Regional Park, which has a zoo, conservatory, amusement rides, picnic areas, pool, golf course, trails, athletic fields, and sculptures. The park serves approximately two million visitors each year and hosts numerous events each year, the largest being the annual Hmong Freedom and Sports Fest. Lexington Parkway runs through culturally diverse areas of St. Paul, including Frogtown, the Old Rondo neighborhood, the Summit-University area, and Highland Park, as well as Roseville, Falcon Heights, Shoreview, and Arden Hills to the north. Replacing these bridges is critical to maintaining the integrity of this critical route.

(Limit 1,400 characters; approximately 200 words)

2.(0 to 7 points) Describe the projects benefits to low-income populations, people of color, children, people with disabilities, and the elderly. Benefits could relate to safety; public health; access to destinations; travel time; gap closure; leveraging of other beneficial projects and investments; and/or community cohesion. Note that this is not an exhaustive list.

Response:

Lexington Parkway is a route through a diverse, low-income area. Maintaining this route is critical to residents' ability to access the destinations listed above and the integrity of the bridges is necessary to preserving the safety of that route. The load limits necessary due to the structural deficiencies of the bridges restrict transit and thus, restrict the ability of transit-dependent and disabled populations from fully utilizing the route.

(Limit 2,800 characters; approximately 400 words)

3.(-3 to 0 points) Describe any negative externalities created by the project along with measures that will be taken to mitigate them. Negative externalities can result in a reduction in points, but mitigation of externalities can offset reductions.

Below is a list of negative impacts. Note that this is not an exhaustive list.

Increased difficulty in street crossing caused by increased roadway width, increased traffic speed, wider turning radii, or other elements that negatively impact pedestrian access.

Increased noise.

Decreased pedestrian access through sidewalk removal / narrowing, placement of barriers along the walking path, increase in auto-oriented curb cuts, etc.

Project elements that are detrimental to location-based air quality by increasing stop/start activity at intersections, creating vehicle idling areas, directing an increased number of vehicles to a particular point, etc.

Increased speed and/or cut-through traffic.

Removed or diminished safe bicycle access.

Inclusion of some other barrier to access to jobs and other destinations.

Displacement of residents and businesses.

Construction/implementation impacts such as dust; noise; reduced access for travelers and to businesses; disruption of utilities; and eliminated street crossings. These tend to be temporary.

Other

During construction, access across the bridges will be restricted, though it is anticipated that limited access can be maintained. There will be the expected noise and other construction impacts. The adjacent bike and pedestrian bridge can remain open during construction. We anticipate no longterm negative impacts from rebuilding these bridges.

(Limit 2,800 characters; approximately 400 words)

Upload Map

Response:

1529592333687_Socio Economic Map.pdf

Measure B: Affordable Housing

City	Segment Length (For stand-alone projects, enter population from Regional Economy map) within each City/Township	Segment Length/Total Project Length	Score	Housing Score Multiplied by Segment percent
St. Paul	0.1	1.0	100.0	100.0

Total Project Length

Total Project Length (as entered in the "Project Information" form) 0.1

Affordable Housing Scoring

Total Project Length (Miles) or Population	0.1
Total Housing Score	100.0

Affordable Housing Scoring

Measure A: Bridge Condition	
Bridge Sufficiency Rating	37.6
Upload Structure Inventory Report	1529607085953_2017 Routine Inspection - 5583 Lexington- CSAH 51 over BNSF railroad.pdf
Please upload attachment in PDF form.	
Measure B: Load-Posting	
Load Posted (Check box if the bridge is load-posted):	Yes

Measure A: Multimodal Elements and Existing Connections

Response:

Bridges 5583 and 7276 have six-foot wide sidewalks on each side. These will be increased to ten feet with this project. Adjacent to these bridges, on the west side of Lexington Parkway, are two bike/pedestrian bridge, each with a twelve foot wide surface. There is a trail associated with these bridges that connects to the north and south, continuing north into Como Park.

(Limit 2,800 characters; approximately 400 words)

Transit Projects Not Requiring Construction

If the applicant is completing a transit application that is operations only, check the box and do not complete the remainder of the form. These projects will receive full points for the Risk Assessment.

Park-and-Ride and other transit construction projects require completion of the Risk Assessment below.

Check Here if Your Transit Project Does Not Require Construction

Measure A: Risk Assessment - Construction Projects

1)Layout (30 Percent of Points)

Layout should include proposed geometrics and existing and proposed right-of-way boundaries.

Layout approved by the applicant and all impacted jurisdictions (i.e., cities/counties that the project goes through or agencies that maintain the roadway(s)). A PDF of the layout must be attached along with letters from each jurisdiction to receive points.

100%

Attach Layout

Please upload attachment in PDF form.

Layout completed but not approved by all jurisdictions. A PDF of the layout must be attached to receive points.

50%

Attach Layout

Please upload attachment in PDF form.

Layout has not been started

0%

Anticipated date or date of completion

2) Review of Section 106 Historic Resources (20 Percent of Points)

No known historic properties eligible for or listed in the National Register of Historic Places are located in the project area, and Yes project is not located on an identified historic bridge

100%

There are historical/archeological properties present but determination of no historic properties affected is anticipated.

100%

Historic/archeological property impacted; determination of no adverse effect anticipated

80%

Historic/archeological property impacted; determination of adverse effect anticipated

40%

Unsure if there are any historic/archaeological properties in the project area.

0%

Project is located on an identified historic bridge

3)Right-of-Way (30 Percent of Points)

Right-of-way, permanent or temporary easements either not required or all have been acquired

Yes

100%

Right-of-way, permanent or temporary easements required, plat, legal descriptions, or official map complete

50%

Right-of-way, permanent or temporary easements required, parcels identified	
25%	
Right-of-way, permanent or temporary easements required, parcels not all identified	
0%	
Anticipated date or date of acquisition	
4)Railroad Involvement (20 Percent of Points)	
No railroad involvement on project or railroad Right-of-Way agreement is executed (include signature page, if applicable)	
100%	
Signature Page	
Please upload attachment in PDF form.	
Railroad Right-of-Way Agreement required; negotiations have begun	
50%	
Railroad Right-of-Way Agreement required; negotiations have not begun.	Yes
0%	
Anticipated date or date of executed Agreement	01/31/2020
Measure A: Cost Effectiveness	
Total Project Cost (entered in Project Cost Form):	\$9,192,113.65
Enter Amount of the Noise Walls:	\$0.00
Total Project Cost subtract the amount of the noise walls:	\$9,192,113.65

\$0.00

Cost Effectiveness

Other Attachments

Points Awarded in Previous Criteria

File Name	Description	File Size
2017 Routine Inspection - 5583 Lexington-CSAH 51 over BNSF railroad.pdf	Bridge No. 5583 Inspection Report	1.3 MB
2017 Routine Inspection - 7276 CSAH 51 - Lexington Pkwy-CSAH 51 over CSAH 33-Pierce Butler Route.pdf	Bridge No. 7276 Inspection Report	1.4 MB
BRIDGES 5583 AND 7276 ESTIMATE.pdf	Engineer's Estimate	112 KB
Lexington Bridges Layout.pdf	Project Layout	884 KB
Lexington Bridges Letter of Support RC 06.19.18.pdf	City of Saint Paul Support Letter	233 KB
LexPkwyBRoverPrcButler&BNSF_Locati onMap.pdf	Project Location Map	774 KB







2017 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 5583 CSAH 51(LEX PKWY) over BNSF RR

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

Date of Inspection: 10/16/2017 Equipment Used:

Owner: County Highway Agency

Inspected By: Burt, Dick; Engel, Michael; Grau, Joe



Report Written By: Joe Grau Report Reviewed By: Glenn Pagel Final Report Date: 12/27/2017

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Minnesota Structure Inventory Report

Bridge ID: 5583 CSAH 51(LEX PKWY) over BNSF RR

Date: 10/16/2017

+ G E N E R A L +	+ R O A D W A Y +	+INSPECTION+			
Agency Br. No. Crew	Bridge Match ID (TIS) 0	Userkey 199			
District 05 Maint. Area	Roadway O/U Key Route On Structure	Structurally Deficient N			
County 062 - Ramsey	Poute Sys 04 - CSAH Number 51	Functionally Obsolete Y			
City St Paul	Roadway Name or Description	Sufficiency Rating 37.6			
Township	CSAH 51	Routine Inspection Date 10/16/2017			
Desc. Loc. 0.8 MI N OF UNIV AVE	Level of Service 1 - MAINLINE	Routine Inspection Frequency 12			
Sect. Twp., Range 26 - 029N - 23W	Roadway Type 2 - 2-way traffic	Inspector Name Grau Joe			
Latitude 44 ° 58 ' 02.69 "	Control Section (TH Only)	Status P - Posted for Load			
Longitude -93 ° 08 ' 47.73 ''	Reference Point				
Custodian 02 - County Highway Agency	Detour Length 2.0 mi.	+NBI CONDITION RATINGS+			
Owner 02 - County Highway Agency	Lanes ON 4 LINDER 0	Deck 6 Unsound			
BMIL Agreement		Superstructure 6 Deck %			
Vear Built 1936	HCADT ADT %	Substructure 5			
MN Year Beconstructed 1092	Functional Class 16 - Urban - Minor Arterial	Channel N			
EHMA Year Reconstructed	Functional class to orban winter Attenda	Culvert N			
MN Temporary Status					
Bridge Blen Leastion 4 MUNICIDAL	+RDWY DIMENSIONS+	+NBI APPRAISAL RATINGS+			
	If Divided NB-EB SB-WB	Structure Evaluation 4			
	Roadway Width 48.00 ft. ft.	Deck Geometry 2			
On - Off System 1 - ON	Vertical Clearance ft ft	Underclearances 4			
Legislative District 65A	Max Vert Clear ft ft	Waterway Adequacy N			
Potential ABC 2 - N/A	Horizontal Clear 47.9 ft ft	Approach Alignment 7			
+ S T R U C T U R E +	lateral Clearance ft ft				
Service On 5 - Highway-pedestrian	Appr Surface Width 48.0 ft	+SAFETY FEATURES+			
Service Under 2 - Railroad	Bridge Roadway Width 48.0 ft	Bridge Bailing 1 - MEETS STANDARDS			
Main Span Type 4 - Steel Continuous	Median Width On Bridge	GR Transition N - NOT REOLIRED			
Main Span Posian 01 - Beam Span					
Main Span Design 01 - Dean Span	+MISC. BRIDGE DATA+	CR Termini N - NOT REQUIRED			
	Structure Elared 0 - No flare	GR Termini Nº NOT REQUIRED			
Appr. Span Type	Parallel Structure N-No parallel structure	+IN DEPTH INSP.+			
Appr. Span Design	Field Comp. ID. 4. Polted	V/N From Data			
	Abutment 1 - CONC	T/N Fleq Date			
	Foundation				
Cuivert Type	(Material/Type)				
	Pier Foundation 1 - CONC	Pinned Asbiy.			
Cantilever ID	(Material/Type) 1 - SPRD SOIL	Spec. Feat.			
Number of Orean		+ W A T E R W A Y +			
	Historic Status 5 - Not eligible				
MAIN: 5 APPR: 0 TOTAL:		Drainage Area (sq. mi.)			
Main Span Length 00.0 ft.	+PAINT+	Waterway Opening (sf.)			
Structure Length 251.5 ft.	Verse Brinderd	Navigation Control N - Not applicable, no			
Deck Width (Out-to-Out) 02.3 ft.	Year Painted 1982	Pier Protection			
Deck Material 1 - Concrete Cast-In-Place	Unsound Paint % 5	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0			
Wear Surf Type 4 - Low Slump Concrete	Painted Area 20000 sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)			
Wear Surf Install Year 1982	Primer Type 1 - Lead - non 3309	MN Scour Code A - NON Year			
Wear Course/Fill Depth 0.17 ft.	Finish Type F Phenolic Resin Alum	+CAPACITY RATINGS+			
Deck Membrane 0 - None		Design Load 6 - HS 20+MOD			
Deck Rebars 1 - Epoxy Coated Reinforcing	+BRIDGE SIGNS+	Operating Pating 2 - HS TRUCK 17.0			
Deck Rebars Install Year 1982		Inventory Pating 2 - HS TPUCK 10.2			
Structure Area (Out-to-Out) 15656 sq. ft.	Posted Load 2 - venicle & Semi (Type R12-5)	Desting VEH: 25 SEMI: 26 DDI: 26			
Roadway Area (Curb-to-Curb) 12066 sq. ft.	I ramic 0 - Not Required	Poting Data 05/14/2014			
Sidewalk Width 50A. Lt 6.00 ft. 50B. Rt 6.00 ft.	Horizontal 0 - Not Required				
Curb Height Lt 0.83 ft. Rt 0.83 ft.	Vertical N - Not Applicable				
Rail Type Lt 27 Rt 27		A N - N/A B N - N/A C N - N/A			

Minnesota Structure Inventory Report Additional Roadways

Bridge ID: 5583

CSAH 51(LEX PKWY) over BNSF RR

Date: 12/27/2017

12/27/2017

MINNESOTA BRIDGE INSPECTION REPORT

County:	Ramsey Location: 0.8 MI N OF UNIV AVE			Length: 251.3 ft.					
City:	St Paul Ro	03+00.825	Deck Width: 62.3 ft.						
Township	: Co	ontrol Section:			Rdwy. Are	a/ Pct. Un	snd: 12066	sq. ft. /	%
Section: 2	26 Township: 029N Range: 23W	Maint. Area:			Paint Area	/ Pct. Uns	nd: 20000	sq. ft. /	5%
Span Typ	e: 4 - Steel Continuous 2 - Stringer/Multi-	Local Agency Brid	ge Nbr.:		Culvert:	N/A			
List:	beam or Girder				Postings:	25	36		36
NBI Deck	: 6 Super: 6 Sub: 5 Chan:	N Culv: N							
		Open, Pos	ted, Closed: P	Posted for Loa	ad				
Ammainal	Definere Annanchi 7 Matemusiu I	MN Scour	Code: A - NON	WATERWAY					
Appraisal	Ratings - Approach: 7 Waterway: 1			lot Doguirod	Unc	fficial Stru	cturally De	ficient	N
Required	Bridge Signs - Load Posting: 2 - Venicie & R12-5)	Semi (Type T	ranc: 0 - r	Not Required	Unc	fficial Fun	ctionally Ol	osolete	Y
	Horizntal: 0 - Not Requi	red \	/ertical: N -	Not Applicable	Unc	fficial Suff	iciency Rat	ing	37.6
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
12 R	einforced Concrete Deck	Routine	10/16/2017	15656 SF	15302	287	67	0	
		Routine	10/16/2016	15656 SF	15317	280	59	0	
	Notes: Distressed areas - efflorescence, i Water / salt saturation is isolated to the gu 57 SF of delamination / spall is present. 280 SF of cracking with efflorescence is p 25 SF of water / salt saturation. 2016-17	ust staining and cr tter lines. 20 2016-17 resent. 2016-17 7	acking present. 117 ,	2011-17					
5	10 - Wearing Surfaces	Routine	10/16/2017	12066 SF	11825	0	241	0	
		Routine	10/16/2016	12066 SF	11825	0	241	0	
	Notes: Low Slump Overlay with Epoxy Re Crack sealing recommended. 2011-17 3 sq. ft. of spalling with exposed rebar whe 4 Sq. ft. spall - asphalt patched - SE end.	bar Notes: ere repair took plac 2014-15	ce in 2005-07.(T	KDA 2012)					
107 S	teel Open Girder/Beam	Routine	10/16/2017	3012 LF	2907	75	30	0	
		Routine	10/16/2016	3012 LF	2907	75	30	0	
	Notes: Gunite spalling off beams in span Pack rust distress at steel beam ends / be Moderate toward extensive corrosion at th	3 over the RR. (TH aring areas. 2 e steel beam ends	KDA 2012) 011-17 5. (critical stress a	areas.) 2017	,				
5	15 - Steel Protective Coating	Routine	10/16/2017	21886 SF	0	20793	656	437	
		Routine	10/16/2016	21886 SF	0	20793	656	437	
	Notes: The paint system has extensive de Corrosion with flaking rust present at the b Prep. and paint recommended. 2011-17 Moderate toward extensive corrosion at th	terioration at the b leam ends. 201 ² , e steel beam ends	eam ends. 2018 1-17 s. (critical stress a	5-17 areas.) 2017	,				
205 R	einforced Concrete Column	Routine	10/16/2017	20 EA	10	5	5	0	
_00		Routine	10/16/2016	20 EA	12	3	5	0	
	Notes: 4 sq. ft. +/- spalling concrete with e All columns at S. pier have delamination's Various column spalls / delamination's - se 1 SF spall at pier 3, S. face, delamination	exposed rebar on F 2017 ee photos. 2014-1 is below. 2016	Pier #4 south face	e. (TKDA 2012	2)-16			-	

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
215	Reinforced Concrete Abutment	Routine Routine	10/16/2017 10/16/2016	155 LF 155 LF	121 121	25 25	9 9	0 0	
	Notes: Abut. south, 1st bay from the eas Exposed rebar along with the 3rd bay in Abut. south, 1st bay from the west has 3 Moisture along the entire N.W. abut. bac NBI of 5. 2017 NW abut seat and deck repaired. 201 Abut. south seat repair is recommended. The top of the west wing wall is spalled. NE & SE corner caps are spalled 05-13 The northeast wing is spalled on the top	t has 12 sq. ft. cond from the east on the sq. ft. concrete space wall. Joint is abov 2015-17 2002-13 1" mortar cap. 20	crete spalling with e abut. back wall. Illing with expose re. (TKDA 2012) 005-14	n exposed reba (TKDA 2012) d rebar. (TKDA	r. (TKDA :	2012)-17 7			
220	Reinforced Concrete Pile Cap/Footing	Routine	10/16/2017	216 LF	204	0	12	0	
	Notes: Wide cracks are present05" ve	Routine ertical. 2016-17	10/16/2016	216 LF	204	0	12	0	
234	Reinforced Concrete Pier Cap	Routine	10/16/2017	233 LF	229	4	0	0	
	Notes: Small delamination at pier 1. 4' vertical crack at the S. pier cap. (Both Rust staining at the N. pier cap. (west en	Routine 2016-17 sides). 2017 d below the bearing	10/16/2016 g). 2017	233 LF	230	3	0	0	
300	Strip Seal Expansion Joint	Routine	10/16/2017	115 LF	0	115	0	0	
	Notes: Strip seals are dirty. 2015-17 Gland leaks. 2017	Routine	10/16/2016	115 LF	0	115	0	0	
301	Pourable Joint Seal	Routine	10/16/2017	115 LF	0	115	0	0	
	Notes: Poured sealant has loss of adhes	Routine sion in some areas.	10/16/2016 2015-17	115 LF	0	115	0	0	
311	Movable Bearing	Routine	10/16/2017	60 EA	36	24	0	0	
	Notes: Clean prep and painting is record	Routine	10/16/2016 7	60 EA	36	24	0	0	
				40 54					
313	Fixed Bearing	Routine	10/16/2017	12 EA 12 EA	6	6	0	0	
	Notes: Abut. bearings are fixed. 2011 Pier 3 and 4 bearings are fixed. 2011 see sheet 10 of 17. 1982 remodel Corrosion on each facia beam bearing, ty NW facia bearing, corrosion with possible NW abut seat repair completed. 2014 Clean, prep and painting is recommended	vpical. (TKDA 2 e section loss. d. 2015-17	012) 2013						
321	Reinforced Concrete Approach Slab	Routine	10/16/2017	1920 SF	1874	46	0	0	
	Notes: 6 SF of spall on the N & S approa Unsound patches found at south approa Unsealed cracks of wide size on the app	10/16/2016 epaired in 2017. repaired in 2017.	1920 SF	1874	6	40	0		
330	Metal Bridge Railing	Routine Routine	10/16/2017 10/16/2016	502 LF 502 LF	502 502	0 0	0 0	0 0	
	515 - Steel Protective Coating	Routine	10/16/2017	657 SF	607	0	0	50	
		Routine	10/16/2016	657 SF	657	0	0	0	
	Notes: Rust staining at the base plates o	f the metal railing.	2017						

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4		
331	Reinforced Concrete Bridge Railing	Routine	10/16/2017	502 LF	502	0	0	0		
		Routine	10/16/2016	502 LF	502	0	0	0		
	Notes: Vertical cracking of the concret	te bridge rail. 2005-1	7							
800	Critical Deficiencies or Safety Hazards	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: NO CRITICAL FINDINGS OBS	SERVED DURING TH	E LAST INSPEC	TION. 2016-	17					
810	Concrete Decks - Cracking & Sealing	Routine	10/16/2017	5653 LF	0	5653	0	0		
		Routine	10/16/2016	5653 LF	0	5653	0	0		
	Notes: the cracks are unsealed. Moderate map cracking at a density of 4,853 LF of cracks on the roadway we 800 LF of cracks on the sidewalks.	2017 less than five feet. ar surface. 2016-1 2016-17	2013-17 7							
815	Plow Fingers	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: All repairs completed. 201	6-17								
855	Secondary Members (Superstructure)	Routine	10/16/2017	1 EA	0	0	1	0		
		Routine	10/16/2016	1 EA	0	0	1	0		
	Notes: 2nd bay east concrete end diaphram has spalling concrete with exposed rebar near the flange of the steel beam. (TKDA 2012) -17									
883	Concrete Shear Cracking	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Use this element to monitor the	e presence of shear c	racking on concre	ete elements. P	ay particu	lar attentior	n to the cor	ncrete pier cap	os.	
890	Load Posting or Vertical Clearance Signing	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Rating and Load Posting Analy Revised by TKDA : 25 / 36 / 36 Ton 1-15-2013 MNDOT notified by email. 2014 Required load posting signs are in place	vsis done. 2012 ce. 2014-17								
892	Slopes & Slope Protection	Routine	10/16/2017	1 EA	0	1	0	0		
		Routine	10/16/2016	1 EA	0	1	0	0		
	Notes: 1/2 cu. yd. void at the top of the Minor to moderate erosion on the S. sl	e S. slope. ope. 2016-17								
894	Deck & Approach Drainage	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Use this element to rate the co	ndition, function, and	adequacy of the	drainage syster	m.					
895	Sidewalk, Curb, & Median	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	0	1	0	0		
	Notes: Resealing of cracks recommer Isolated delam - SB curb at the S. end South end joint, curb repair and repair	nded. 2011-17 . 2016 hole at the gutter line	. 2017							
899	Miscellaneous Items	Routine	10/16/2017	1 EA	1	0	0	0		
-		· · · · · ·								
		Routine	10/16/2016	1 EA	1	0	0	0		

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ELEM NBR	ELEM	ENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
900	Protected Species	S	Routine Routine	10/16/2017 10/16/2016	1 EA 1 EA	1 1	0 0	0 0	0 0	
Notes: Use this element to track the presence of protected species living on this structure. None found in 2016-17.										
	General Notes: BNSF-RR contact: Michael Anderson (763) 782-3310 cell (612) 749-3401 michael.anderson5@bnsf.com Kyle Kirberger cell (612) 219-4219 Kyle.Kirberger@BNSF.com									
	Bridge Owner - Ramsey County									
	58. Deck NBI:	Moderate cracking, minc	or delams / spalls. 2	011						
36A. E	Brdg Railings NBI:									
36B	. Transitions NBI:									
36C. Ap	opr Guardrail NBI:									
36	D. Appr Guardrail Terminal NBI:									
59. Su	perstructure NBI:	Moderate toward extens	ive corrosion at the	steel beam ends	. (critical stress	areas.)	2017			
60. \$	Substructure NBI:	Substructure has moder Concrete abutment - Mo	ate deterioration. derate spalling of al	2017 butment seats. (s	south side abut.) 2017 2017				
		Concrete columns - Mind	or to moderate dete	rioration. Isolated	d spalls with exp	bosed reinf	orcement.	2017		
	61. Channel NBI:									
	62. Culvert NBI:									
71. Wa	terway Adeq NBI:									
7	2. Appr Roadway Alignment NBI:									

Joe Grau

Inspector's Signature

Glenn Pagel

Reviewer's Signature



1. beam ends pier 1 rusty - north face.JPG



6. Diaphragm at pier 4 (1).JPG



11. N pier W end.JPG



16. S pier cap midspan (1).JPG



21. SE Hole.JPG



26. SW Exp.JPG



2. beam ends pier 4 rusty.JPG



7. 2nd pier fron N, E end.JPG



12. NE Abut Seat.JPG



17. S pier cap midspan (2).JPG



22. SE Slope.JPG



27. SW Hole.JPG



3. longitudinal cracking at curb face east side mid span.JPG



8. 2016 google view_3.PNG



13. NE Abut.JPG



18. SE Abut Seat.JPG



23. South Apr.JPG



28. SW Slope.JPG



south approach panel.JPG



9. deck.JPG



14. S abut E end.JPG



19. SE Abut.JPG



24. SW Abut seat.JPG



5. 2013 Google view -Lex_3.png



10. N abut W end.JPG



15. S abut W end.JPG



20. SE Exp.JPG



25. SW Abut Spall.JPG







2017 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 5583 CSAH 51(LEX PKWY) over BNSF RR

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

Date of Inspection: 10/16/2017 Equipment Used:

Owner: County Highway Agency

Inspected By: Burt, Dick; Engel, Michael; Grau, Joe



Report Written By: Joe Grau Report Reviewed By: Glenn Pagel Final Report Date: 12/27/2017

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PICTURES - THUMBNAILS	8

Minnesota Structure Inventory Report

Bridge ID: 5583 CSAH 51(LEX PKWY) over BNSF RR

Date: 10/16/2017

+ G E N E R A L +	+ R O A D W A Y +	+INSPECTION+			
Agency Br. No. Crew	Bridge Match ID (TIS) 0	Userkey 199			
District 05 Maint. Area	Roadway O/U Key Route On Structure	Structurally Deficient N			
County 062 - Ramsey	Poute Sys 04 - CSAH Number 51	Functionally Obsolete Y			
City St Paul	Roadway Name or Description	Sufficiency Rating 37.6			
Township	CSAH 51	Routine Inspection Date 10/16/2017			
Desc. Loc. 0.8 MI N OF UNIV AVE	Level of Service 1 - MAINLINE	Routine Inspection Frequency 12			
Sect. Twp., Range 26 - 029N - 23W	Roadway Type 2 - 2-way traffic	Inspector Name Grau Joe			
Latitude 44 ° 58 ' 02.69 "	Control Section (TH Only)	Status P - Posted for Load			
Longitude -93 ° 08 ' 47.73 ''	Reference Point				
Custodian 02 - County Highway Agency	Detour Length 2.0 mi.	+NBI CONDITION RATINGS+			
Owner 02 - County Highway Agency	Lanes ON 4 LINDER 0	Deck 6 Unsound			
BMIL Agreement		Superstructure 6 Deck %			
Vear Built 1936	HCADT ADT %	Substructure 5			
MN Year Reconstructed 1092	Functional Class 16 - Urban - Minor Arterial	Channel N			
EHMA Year Reconstructed	Functional class to orban winter Attenda	Culvert N			
MN Temporary Status					
Bridge Blen Leastion 4 MUNICIDAL	+RDWY DIMENSIONS+	+NBI APPRAISAL RATINGS+			
	If Divided NB-EB SB-WB	Structure Evaluation 4			
	Roadway Width 48.00 ft. ft.	Deck Geometry 2			
On - Off System 1 - ON	Vertical Clearance ft ft	Underclearances 4			
Legislative District 65A	Max Vert Clear ft ft	Waterway Adequacy N			
Potential ABC 2 - N/A	Horizontal Clear 47.9 ft ft	Approach Alignment 7			
+ S T R U C T U R E +	lateral Clearance ft ft				
Service On 5 - Highway-pedestrian	Appr Surface Width 48.0 ft	+SAFETY FEATURES+			
Service Under 2 - Railroad	Bridge Roadway Width 48.0 ft	Bridge Bailing 1 - MEETS STANDARDS			
Main Span Type 4 - Steel Continuous	Median Width On Bridge	GR Transition N - NOT REOLIRED			
Main Span Posian 01 - Beam Span					
Main Span Design 01 - Dean Span	+MISC. BRIDGE DATA+	CR Termini N - NOT REQUIRED			
	Structure Elared 0 - No flare	GR Termini Nº NOT REQUIRED			
Appr. Span Type	Parallel Structure N-No parallel structure	+IN DEPTH INSP.+			
Appr. Span Design	Field Comp. ID. 4. Polted	V/N From Data			
	Abutment 1 - CONC	T/N Fleq Date			
	Foundation				
Cuivert Type	(Material/Type)				
	Pier Foundation 1 - CONC	Pinned Asbiy.			
Cantilever ID	(Material/Type) 1 - SPRD SOIL	Spec. Feat.			
Number of Orean		+ W A T E R W A Y +			
	Historic Status 5 - Not eligible				
MAIN: 5 APPR: 0 TOTAL:		Drainage Area (sq. mi.)			
Main Span Length 00.0 ft.	+PAINT+	Waterway Opening (sf.)			
Structure Length 251.5 ft.	Verse Brinderd	Navigation Control N - Not applicable, no			
Deck Width (Out-to-Out) 02.3 ft.	Year Painted 1982	Pier Protection			
Deck Material 1 - Concrete Cast-In-Place	Unsound Paint % 5	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0			
Wear Surf Type 4 - Low Slump Concrete	Painted Area 20000 sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)			
Wear Surf Install Year 1982	Primer Type 1 - Lead - non 3309	MN Scour Code A - NON Year			
Wear Course/Fill Depth 0.17 ft.	Finish Type F Phenolic Resin Alum	+CAPACITY RATINGS+			
Deck Membrane 0 - None		Design Load 6 - HS 20+MOD			
Deck Rebars 1 - Epoxy Coated Reinforcing	+BRIDGE SIGNS+	Operating Pating 2 - HS TRUCK 17.0			
Deck Rebars Install Year 1982		Inventory Pating 2 - HS TPUCK 10.2			
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Roadway Area (Curb-to-Curb) 12066 sq. ft.	I ramic 0 - Not Required	Poting Data 05/14/2014			
Sidewalk Width 50A. Lt 6.00 ft. 50B. Rt 6.00 ft.	Horizontal 0 - Not Required				
Curb Height Lt 0.83 ft. Rt 0.83 ft.	Vertical N - Not Applicable				
Rail Type Lt 27 Rt 27		A N - N/A B N - N/A C N - N/A			

Minnesota Structure Inventory Report Additional Roadways

Bridge ID: 5583

CSAH 51(LEX PKWY) over BNSF RR

Date: 12/27/2017

12/27/2017

MINNESOTA BRIDGE INSPECTION REPORT

County:	Ramsey Location: 0.8 MI N OF UNIV AVE			Length: 251.3 ft.					
City:	St Paul Ro	03+00.825	Deck Width: 62.3 ft.						
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Section: 2	26 Township: 029N Range: 23W	Maint. Area:			Paint Area	/ Pct. Uns	nd: 20000	sq. ft. /	5%
Span Typ	e: 4 - Steel Continuous 2 - Stringer/Multi-	Local Agency Brid	ge Nbr.:		Culvert:	N/A			
List:	beam or Girder				Postings:	25	36		36
NBI Deck	: 6 Super: 6 Sub: 5 Chan:	N Culv: N							
		Open, Pos	ted, Closed: P	Posted for Loa	ad				
Ammainal	Definere Annanchi 7 Matemusiu I	MN Scour	Code: A - NON	WATERWAY					
Appraisal	Ratings - Approach: 7 Waterway: 1			lot Doguirod	Unc	fficial Stru	cturally De	ficient	N
Required	R12-5)	Semi (Type T	ranc: 0 - r	Not Required	Unc	fficial Fun	ctionally Ol	osolete	Y
	Horizntal: 0 - Not Requi	red \	/ertical: N -	Not Applicable	Unc	fficial Suff	iciency Rat	ing	37.6
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	Notes: Low Slump Overlay with Epoxy Re Crack sealing recommended. 2011-17 3 sq. ft. of spalling with exposed rebar whe 4 Sq. ft. spall - asphalt patched - SE end.	bar Notes: ere repair took plac 2014-15	ce in 2005-07.(T	KDA 2012)					
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		Routine	10/16/2016	3012 LF	2907	75	30	0	
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	Notes: The paint system has extensive de Corrosion with flaking rust present at the b Prep. and paint recommended. 2011-17 Moderate toward extensive corrosion at th	terioration at the b leam ends. 201 ² , e steel beam ends	eam ends. 2018 1-17 s. (critical stress a	5-17 areas.) 2017	,				
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_00		Routine	10/16/2016	20 EA	12	3	5	0	
	Notes: 4 sq. ft. +/- spalling concrete with e All columns at S. pier have delamination's Various column spalls / delamination's - se 1 SF spall at pier 3, S. face, delamination	exposed rebar on F 2017 ee photos. 2014-1 is below. 2016	Pier #4 south face	e. (TKDA 2012	2)-16			-	

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
215	Reinforced Concrete Abutment	Routine Routine	10/16/2017 10/16/2016	155 LF 155 LF	121 121	25 25	9 9	0 0	
	Notes: Abut. south, 1st bay from the eas Exposed rebar along with the 3rd bay in Abut. south, 1st bay from the west has 3 Moisture along the entire N.W. abut. bac NBI of 5. 2017 NW abut seat and deck repaired. 201 Abut. south seat repair is recommended. The top of the west wing wall is spalled. NE & SE corner caps are spalled 05-13 The northeast wing is spalled on the top	t has 12 sq. ft. cond from the east on the sq. ft. concrete space wall. Joint is abov 2015-17 2002-13 1" mortar cap. 20	crete spalling with e abut. back wall. Illing with expose re. (TKDA 2012) 005-14	n exposed reba (TKDA 2012) d rebar. (TKDA	r. (TKDA :	2012)-17 7			
220	Reinforced Concrete Pile Cap/Footing	Routine	10/16/2017	216 LF	204	0	12	0	
	Notes: Wide cracks are present05" ve	Routine ertical. 2016-17	10/16/2016	216 LF	204	0	12	0	
234	Reinforced Concrete Pier Cap	Routine	10/16/2017	233 LF	229	4	0	0	
	Notes: Small delamination at pier 1. 4' vertical crack at the S. pier cap. (Both Rust staining at the N. pier cap. (west en	Routine 2016-17 sides). 2017 d below the bearing	10/16/2016 g). 2017	233 LF	230	3	0	0	
300	Strip Seal Expansion Joint	Routine	10/16/2017	115 LF	0	115	0	0	
	Notes: Strip seals are dirty. 2015-17 Gland leaks. 2017	Routine	10/16/2016	115 LF	0	115	0	0	
301	Pourable Joint Seal	Routine	10/16/2017	115 LF	0	115	0	0	
	Notes: Poured sealant has loss of adhes	Routine sion in some areas.	10/16/2016 2015-17	115 LF	0	115	0	0	
311	Movable Bearing	Routine	10/16/2017	60 EA	36	24	0	0	
	Notes: Clean prep and painting is record	Routine	10/16/2016 7	60 EA	36	24	0	0	
				40 54					
313	Fixed Bearing	Routine	10/16/2017	12 EA 12 EA	6	6	0	0	
	Notes: Abut. bearings are fixed. 2011 Pier 3 and 4 bearings are fixed. 2011 see sheet 10 of 17. 1982 remodel Corrosion on each facia beam bearing, ty NW facia bearing, corrosion with possible NW abut seat repair completed. 2014 Clean, prep and painting is recommended	vpical. (TKDA 2 e section loss. d. 2015-17	012) 2013						
321	Reinforced Concrete Approach Slab	Routine	10/16/2017	1920 SF	1874	46	0	0	
	Notes: 6 SF of spall on the N & S approa Unsound patches found at south approa Unsealed cracks of wide size on the app	10/16/2016 epaired in 2017. repaired in 2017.	1920 SF	1874	6	40	0		
330	Metal Bridge Railing	Routine Routine	10/16/2017 10/16/2016	502 LF 502 LF	502 502	0 0	0 0	0 0	
	515 - Steel Protective Coating	Routine	10/16/2017	657 SF	607	0	0	50	
		Routine	10/16/2016	657 SF	657	0	0	0	
	Notes: Rust staining at the base plates o	f the metal railing.	2017						

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4		
331	Reinforced Concrete Bridge Railing	Routine	10/16/2017	502 LF	502	0	0	0		
		Routine	10/16/2016	502 LF	502	0	0	0		
	Notes: Vertical cracking of the concret	te bridge rail. 2005-1	7							
800	Critical Deficiencies or Safety Hazards	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: NO CRITICAL FINDINGS OBS	SERVED DURING TH	E LAST INSPEC	TION. 2016-	17					
810	Concrete Decks - Cracking & Sealing	Routine	10/16/2017	5653 LF	0	5653	0	0		
		Routine	10/16/2016	5653 LF	0	5653	0	0		
	Notes: the cracks are unsealed. Moderate map cracking at a density of 4,853 LF of cracks on the roadway we 800 LF of cracks on the sidewalks.	2017 less than five feet. ar surface. 2016-1 2016-17	2013-17 7							
815	Plow Fingers	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: All repairs completed. 201	6-17								
855	Secondary Members (Superstructure)	Routine	10/16/2017	1 EA	0	0	1	0		
		Routine	10/16/2016	1 EA	0	0	1	0		
	Notes: 2nd bay east concrete end diaphram has spalling concrete with exposed rebar near the flange of the steel beam. (TKDA 2012) -17									
883	Concrete Shear Cracking	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Use this element to monitor the	e presence of shear c	racking on concre	ete elements. P	ay particu	lar attentior	n to the cor	ncrete pier cap	os.	
890	Load Posting or Vertical Clearance Signing	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Rating and Load Posting Analy Revised by TKDA : 25 / 36 / 36 Ton 1-15-2013 MNDOT notified by email. 2014 Required load posting signs are in place	vsis done. 2012 ce. 2014-17								
892	Slopes & Slope Protection	Routine	10/16/2017	1 EA	0	1	0	0		
		Routine	10/16/2016	1 EA	0	1	0	0		
	Notes: 1/2 cu. yd. void at the top of the Minor to moderate erosion on the S. sl	e S. slope. ope. 2016-17								
894	Deck & Approach Drainage	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	1	0	0	0		
	Notes: Use this element to rate the co	ndition, function, and	adequacy of the	drainage syster	m.					
895	Sidewalk, Curb, & Median	Routine	10/16/2017	1 EA	1	0	0	0		
		Routine	10/16/2016	1 EA	0	1	0	0		
	Notes: Resealing of cracks recommer Isolated delam - SB curb at the S. end South end joint, curb repair and repair	nded. 2011-17 . 2016 hole at the gutter line	. 2017							
899	Miscellaneous Items	Routine	10/16/2017	1 EA	1	0	0	0		
-		· · · · · ·								
		Routine	10/16/2016	1 EA	1	0	0	0		

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ELEM NBR	ELEM	ENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
900	Protected Species	S	Routine Routine	10/16/2017 10/16/2016	1 EA 1 EA	1 1	0 0	0 0	0 0	
	Notes: Use this None found in 2	s element to track the pres 2016-17.	sence of protected s	species living on	this structure.					
	General Notes:	BNSF-RR contact: Michael Anderson Kyle Kirberger	(763) 782-3310 cell (612) 219	cell (612) 7 9-4219 Kyle.Kir	49-3401 mic berger@BNSF	chael.ande .com	rson5@bns	sf.com		
		Bridge Owner - Ramsey	County							
	58. Deck NBI:	Moderate cracking, minc	or delams / spalls. 2	011						
36A. E	Brdg Railings NBI:									
36B	. Transitions NBI:									
36C. Ap	opr Guardrail NBI:									
36	D. Appr Guardrail Terminal NBI:									
59. Su	perstructure NBI:	Moderate toward extens	ive corrosion at the	steel beam ends	. (critical stress	areas.)	2017			
60. \$	Substructure NBI:	Substructure has moder Concrete abutment - Mo	ate deterioration. derate spalling of al	2017 butment seats. (s	south side abut.) 2017 2017				
		Concrete columns - Mind	or to moderate dete	rioration. Isolated	d spalls with exp	bosed reinf	orcement.	2017		
	61. Channel NBI:									
	62. Culvert NBI:									
71. Wa	terway Adeq NBI:									
7	2. Appr Roadway Alignment NBI:									

Joe Grau

Inspector's Signature

Glenn Pagel

Reviewer's Signature



1. beam ends pier 1 rusty - north face.JPG



6. Diaphragm at pier 4 (1).JPG



11. N pier W end.JPG



16. S pier cap midspan (1).JPG



21. SE Hole.JPG



26. SW Exp.JPG



2. beam ends pier 4 rusty.JPG



7. 2nd pier fron N, E end.JPG



12. NE Abut Seat.JPG



17. S pier cap midspan (2).JPG



22. SE Slope.JPG



27. SW Hole.JPG



3. longitudinal cracking at curb face east side mid span.JPG



8. 2016 google view_3.PNG



13. NE Abut.JPG



18. SE Abut Seat.JPG



23. South Apr.JPG



28. SW Slope.JPG



south approach panel.JPG



9. deck.JPG



14. S abut E end.JPG



19. SE Abut.JPG



24. SW Abut seat.JPG



5. 2013 Google view -Lex_3.png



10. N abut W end.JPG



15. S abut W end.JPG



20. SE Exp.JPG



25. SW Abut Spall.JPG







2017 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 7276 CSAH 51(LEX PKWY) over CSAH 33(PIERCE BUTLER)

DISTRICT: Metro COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

Date of Inspection: 10/16/2017 Equipment Used:

Owner: County Highway Agency

Inspected By: Engel, Michael; Reimer, Dan; Sanders, Rick



Report Written By: Dan Reimer Report Reviewed By: Glenn Pagel Final Report Date: 12/27/2017

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Minnesota Structure Inventory Report

Bridge ID: 7276 CSAH 51(LEX PKWY) over CSAH 33(PIERCE BUTLER)

Date: 10/16/2017

+ G E N E R A L +	+ R O A D W A Y +	+ IN SPECTION +		
Agency Br. No. Crew	Bridge Match ID (TIS) 1	Userkey 199		
District 05 Maint. Area	Roadway O/U Key Route On Structure	Structurally Deficient N		
County 062 - Ramsey	Route Sys 04 - CSAH Number 51	Functionally Obsolete Y		
City St Paul	Roadway Name or Description	Sufficiency Rating 54.8		
Township	CSAH 51	Routine Inspection Date 10/16/2017		
Desc. Loc. 0.7 MI N OF UNIV AVE	Level of Service 1 - MAINLINE	Routine Inspection Frequency 24		
Sect., Twp., Range 26 - 029N - 23W	Roadway Type 2 - 2-way traffic	Inspector Name Reimer, Dan		
Latitude 44 ° 57 ' 59.44 "	Control Section (TH Only)	Status A - Open		
Longitude -93 ° 08 ' 47.73 "	Reference Point			
Custodian 02 - County Highway Agency	Detour Length 2.0 mi.	THE CONDITION RATINGST		
Owner 02 - County Highway Agency	Lanes ON ⁴ UNDER ⁴	Deck 7 Unsound		
BMU Agreement	ADT 24500 YEAR 2005	Superstructure 5		
Year Built 1959	HCADT ADTT %	Substructure 7		
MN Year Reconstructed 1982	Functional Class 16 - Urban - Minor Arterial	Channel N		
FHWA Year Reconstructed		Culvert N		
MN Temporary Status		+NBI APPRAISAL RATINGS+		
Bridge Plan Location 1 - CENTRAL	+RDWY DIMENSIONS+			
Date Opened to Traffic	If Divided NB-EB SB-WB	Structure Evaluation 5		
On - Off System 1 - ON	Roadway Width 48.00 ft. ft.	Deck Geometry 2		
Legislative District 66B	Vertical Clearance ft. ft.	Underclearances 3		
Potential ABC 2 - N/A	Max. Vert. Clear. ft. ft.	Waterway Adequacy N		
	Horizontal Clear. 47.9 ft. ft.	Approach Alignment 7		
+ STRUCTURE+	Lateral Clearance ft. ft.			
Service On 5 - Highway-pedestrian	Appr. Surface Width 48.0 ft.	+SAFEIT FEATURES+		
Service Under 1 - Highway, w/ or w/out ped.	Bridge Roadway Width 48.0 ft.	Bridge Railing 1 - MEETS STANDARDS		
Main Span Type 3 - Steel	Median Width On Bridge ft.	GR Transition N - NOT REQUIRED		
Main Span Design 01 - Beam Span		Appr. Guardrail N - NOT REQUIRED		
Main Span Detail	+MISC. BRIDGE DATA+	GR Termini N - NOT REQUIRED		
Appr. Span Type	Structure Flared 0 - No flare			
Appr. Span Design	Parallel Structure N - No parallel structure	+IN DEPTH INSP.+		
Appr. Span Detail	Field Conn. ID	Y/N Freq Date		
Skew 0	Abutment 1 - CONC	Frac. Critical		
Culvert Type	Foundation (Material/Type) 3 - FTG PILE	Underwater		
Barrel Length		Pinned Asbly.		
Cantilever ID	Pier Foundation 1 - CONC (Material/Type)	Spec. Feat.		
	1 - SPRD SOIL			
Number of Spans	Historic Status 5 - Not eligible	+WATERWAY+		
MAIN: 3 APPR: 0 TOTAL:		Drainage Area (sg. mi.)		
Main Span Length 63.0 ft.	+ P A I N T +	Waterway Opening (sf.)		
Structure Length 122.9 ft.		Navigation Control N - Not applicable, no		
Deck Width (Out-to-Out) 62.3 ft.	Year Painted 1995	Pier Protection 5 - None present;		
Deck Material 1 - Concrete Cast-in-Place	Unsound Paint %	Nav. Cir. (ft.) Vert. 0.0 Horiz. 0.0		
Wear Surf Type 4 - Low Slump Concrete	Painted Area 8000 sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)		
Wear Surf Install Year 1982	Primer Type 0 - Other - non 3309	MN Scour Code A - NON Year		
Wear Course/Fill Depth 0.17 ft.	Finish Type M - Urethane			
Deck Membrane 0 - None		+CAPACITY RATINGS+		
Deck Rebars 1 - Epoxy Coated Reinforcing	+ BRIDGE SIGNS+	Design Load 5 - HS 20		
Deck Rebars Install Year 1982		Operating Rating 1 - H TRUCK 26.9		
Structure Area (Out-to-Out) 7657 sq. ft.	Posted Load 0 - Not Required	Inventory Rating 1 - H TRUCK 16.1		
Roadway Area (Curb-to-Curb) 5899 sq. ft.	Traffic 0 - Not Required	Posting VEH: SEMI: DBL:		
Sidewalk Width 50A. Lt 6.00 ft. 50B. Rt 6.00 ft.	Horizontal 0 - Not Required	Rating Date 03/31/2015		
Curb Height Lt 0.83 ft. Rt 0.83 ft.	Vertical N - Not Applicable	Overweight Permit Codes		
Rail Type Lt 27 Rt 27		A N - N/A B N - N/A C N - N/A		
]			

Minnesota Structure Inventory Report

Additional Roadways

Bridge ID: 7276

CSAH 51(LEX PKWY) over CSAH 33(PIERCE BUTLER)

Date: 12/27/2017

	ROADWAY					
Bridge Match ID (TIS): 5A. Roadway On/Under:	2 2 - UNDERRECORD 2 TYPE (IF O	NLY 1				
5D Route Number	4 - COUNTY HIGHWAY					
Roadway Name or Description						
	CSAH 33					
5C. Level of Service:	1 - MAINLINE					
102. Direction of Traffic:	2 - 2-way traffic					
Control Section (TH Only):	62					
Reference Point:						
19. Detour Length (mi):	2.0					
Lanes:	4					
29. ADT:	6800					
30. Year:	2005					
26. Functional Class:	16					
Traffic Sequence Number:						
InterRegional Corridor (TH C						
ROA	ADWAY DIMENSIONS					
	NB-EB SB-WB					
Roadway Width (ft):	48.00					
Vertical Clearance (ft):	14.7					
Max. Vert. Clear. (ft):	14.7					
Horizontal Clear. (ft):	59.6					
	Left Right					
Lateral Clearance (ft):	5.3					
32. Appr. Roadway Width (ft) 51. Brdg Roadway Width (ft) Median Width (ft):	i): 48.0): 48.0					
10. Vertical Clearance (ft):	14.7					
14/ Horizontal Clearance	59.0					

MINNESOTA BRIDGE INSPECTION REPORT

BRIDGE 7276 CSAH 51(LEX PKWY) OVER CSAH 33(PIERCE BUTLER)

County:	Ramsey	ocation: 0.7 MI	N OF UNIV AVE		Length:	1	22.9 ft.		
City:	St Paul F	Route: 04 - CSAH	151 Ref. Pt.: 0	03+00.770	Deck Wid	th:	62.3 ft.		
Townsh	nip: C	Control Section:			Rdwy. Ar	ea/ Pct. Un	snd: 5899	sq. ft. / %	6
Section	: 26 Township: 029N Range: 23W	Maint. Area:			Paint Are	a/ Pct. Uns	nd: 8000	sq. ft. / %	6
Span T	ype: 3 - Steel 2 - Stringer/Multi-beam or	Local Agency Bri	idge Nbr.:		Culvert:	N/A			
List:	Girder				Postings:				
NBI De	ck: 7 Super: 5 Sub: 7 Chan:	N Culv: N							
		Open, Po	sted, Closed: A	- Open					
Annaia	al Dationa America alto 7 Matematica	MN Scou	r Code: A - NON	WATERWAY					
Apprais	al Ratings - Approach: 7 Waterway:	N vine d	Troffice	Not Doguinod	Un	official Stru	icturally De	eficient	N
Require	Herizatel: 0 Not Requ	uired	Vortical: N	Not Applicable	Un	official Fun	ctionally C	bsolete	Y
	Honzhai. U - Noi Requ	lieu	venicai. IN-	Not Applicable	Un	official Suff	ficiency Ra	iting	54.8
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
12	Reinforced Concrete Deck	Routine	10/16/2017	7657 SF	7656	1	0	0	
		Migrated Values		7657 SF	7656	1	0	0	
	Notes: 1 SF of spall at the SE corner.	2017							
	510 - Wearing Surfaces	Routine	10/16/2017	5899 SF	5167	732	0	0	
		Migrated Values		5899 SF	5167	732	0	0	
	Notes: Low Slump Overlay with Epoxy R Wearing surface - Some minor cracks. Unsealed cracks from 0.012" to 0.050" w	ebar Notes: 1990-03. ide. 2017							
107	Steel Open Girder/Beam	Routine	10/16/2017	1220 LF	990	210	20	0	
		Migrated Values		1220 LF	990	210	20	0	
	Notes: Painted in 1999. Slight deflection in fascia stringers. 19 West fascia beam appears bent East slig Fascia beam rust present. Minor surface Fascia beam ends at abuts have rust and Fascia beam ends at abuts also have fla Flaking paint from extreme cold winter te Pack Rust Notes: Several areas in the bottom flange have	94-17 httly above EB land corrosion. 201 d corrosion on bott king rust present. mps. 2014 small rust spots in	e. 1995-17 1-17 com flanges and w 2017 the center span	eb. 2015-1 2009	7				
	515 - Steel Protective Coating	Doutino	10/16/2017	2000 SE	4000	2400	800	800	
	e.e. e.ee.r recours couring	Rouline	10/10/2017		4000	2400	000	000	
	Natary All and different to	Wigrated Values		8000 SF	4000	∠400	800	800	
	Notes: All condition states are present.	2017							
205	Reinforced Concrete Column	Routine	10/16/2017	10 EA	3	6	1	0	
		Migrated Values		10 EA	3	6	1	0	
	Notes: SE corner of center column of N. Pier columns S. side - 2 columns have de Pier columns N. side - 4 columns have d	pier is micro silica elamination's. 1 ha elamination's. (CS	a concrete - Shot C as a spall greater t -2) 2017	Crete repair. han 6" deep. (C	1990 SS-3) 2	011-17			
215	Reinforced Concrete Abutment	Routine	10/16/2017	158 LF	135	22	1	0	
		Migrated Values		158 LF	135	22	1	0	
	Notes: The east corner of the N. Abutme 1 moderate width vertical crack at the S. Rust staining is present. Mostly at the en Wing wall notes: 2 LF delamination at the N. abut. back w	ent has cracked an and N. abuts. CS- ds. CS-2 2017 all. 2017	nd has a spall at th 2. 2017	e top. CS-3, w	ide crack.	2005-17			

BF	RIDGE 7276	CSAH 51(LEX PKWY) OVER CSAH 33(PIERCE BUTLER)							
EL Ni	.EM BR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
234	4 Reinforce	d Concrete Pier Cap	Routine	10/16/2017	118 LF	105	13	0	0

Migrated Values Notes: Rust staining present at fascia beams. CS-2 2 5' transverse crack at the top of the cap. Pier 1 - E. end. 2011-17

2013-17

300	Strip Seal Expansion Joint	Routine	10/16/2017	115 LF	114	1	0	0	
		Migrated Values		115 LF	114	1	0	0	
	Notes: The expansion joints are dirty. 2002-17 1 LF of gland is pulling out at the N. strip seal - E. end. 2017								
	Maryahla Daarina	5 4	10/10/00/7	00 F 4	00	0	0	0	

118 LF

105

13

0

0

311	Movable Bearing	Routine	10/16/2017	30 EA	20	6	2	2
		Migrated Values		30 EA	20	6	2	2
	Notes: Located at abuts and pier 2. 2013							

The fascia bearings are in CS3. Pack rust is present. 2014-17 Abut. bearings - corrosion and rust is present. 2011-17

NW and NE abut fascia bearigs both have broken anchor bolts. CS-4 2014-17

313	Fixed Bearing	Routine	10/16/2017	10 EA	6	2	2	0	
		Migrated Values		10 EA	6	2	2	0	
	Notes: The fascia bearings are rusty. I Corrosion and freckled rust present at Changed quantity to 10 total. 2013 Fixed bearings are located at pier 1 on	Pack rust is present. the inside bearings. } ly. 2013	2009-17 2017						
321	Reinforced Concrete Approach Slab	Routine	10/16/2017	2352 SF	2261	88	3	0	
		Migrated Values		2352 SF	2261	88	3	0	
	Notes: There is a 3 sq. ft. spall in the r Transverse and longitudinal cracks pre Moderate width cracks are sealed with The N. railings and sidewalk are settled	north approach panel a sent. 1992-17 hot rubber. 2017 d 1 1/4"& 3/4". 201	at the east gutter 5-17	line. 2017					
330	Metal Bridge Railing	Routine	10/16/2017	801 LF	801	0	0	0	
		Migrated Values		801 LF	801	0	0	0	
	Notes: Painted metal railing. 1995								
	515 - Steel Protective Coating	Routine	10/16/2017	534 SF	534	0	0	0	
		Migrated Values		534 SF	534	0	0	0	
331	Reinforced Concrete Bridge Railing	Routine	10/16/2017	801 LF	801	0	0	0	
		Migrated Values		801 LF	801	0	0	0	
	Notes: Vertical cracks. 1992-2017								
	Rust stains below metal railing anchor	locations. 2017							
800	Critical Deficiencies or Safety Hazards	Routine	10/16/2017	1 EA	1	0	0	0	
		Migrated Values		1 EA	1	0	0	0	
	Notes: NO CRITICAL FINDINGS OBS	ERVED DURING TH	E LAST INSPEC	TION. 2017					
810	Concrete Decks - Cracking & Sealing	Routine	10/16/2017	1624 LF	0	1624	0	0	
		Migrated Values		1624 LF	0	1624	0	0	
	Notes: Unsealed cracks are from 0.01	2" to 0.050" wide pr	evious sealant h	as failed. 2	2017				
850	Steel Hinge Assembly	Routine	10/16/2017	20 EA	16	4	0	0	
		Migrated Values		20 EA	16	4	0	0	
_	Notes: Quantity is = 20 hinges assemi Surface corrosion present at the fascia	olies total. 2015 hinges. 2017							

ELEM NBR	ELEN	IENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
855	Secondary Memb	pers (Superstructure)	Routine	10/16/2017	1 EA	0	1	0	0	
	Notes: Steel d Surface corros	iaphragms. ion and rust located at th	ne center diaphragm -	N. abut. 201	7	0	I	0	0	
880	Impact Damage		Routine	10/16/2017	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: Locate	d at the base of pier 2 -	W. end. 2015-17							
883	Concrete Shear (Cracking	Routine	10/16/2017	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: Use the	s element to monitor the	presence of shear cr	acking on concr	ete elements. P	'ay particul	lar attentior	n to the cor	icrete pier ca	aps.
892	Slopes & Slope F	Protection	Routine	10/16/2017	1 EA	0	1	0	0	
	Nataa		Migrated Values		1 EA	0	1	0	0	
	Slope paving h	as differential settlemen	t up to 2"of the blocks	s. 1995-2017						
894	Deck & Approach	Drainage	Routine	10/16/2017	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: Use thi	s element to rate the co	ndition, function, and	adequacy of the	drainage syste	m.				
895	Sidewalk, Curb, 8	& Median	Routine	10/16/2017	2 EA	0	2	0	0	
			Migrated Values		2 EA	0	2	0	0	
	Recommend s SW, NW and S 5' x 2' spall 1/2 1 sq.ft. spall at	ealing. 2015-17 E approach walks are d " deep at the N end of th the N end the E approa	own 1' from settlemer ne N. Approach walk. ch walk. 05.	nt. 1996-00. 05.						
899	Miscellaneous Ite	ems	Routine	10/16/2017	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
900	Protected Specie	S	Routine	10/16/2017	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: Use the	s element to track the pi	resence of protected s	species living on	this structure.	None fou	nd in 2017			
	General Notes:									
	58. Deck NBI:	Minor isolated deterior Minor cracking and lea	ation. 2011 ching. 2011							
36A. E	Brdg Railings NBI:									
36B	8. Transitions NBI:									
36C. Ap	opr Guardrail NBI:									
36	D. Appr Guardrail Terminal NBI:									
59. Sı	uperstructure NBI:	Moderate corrosion an Moderate deterioration NW and NE abut fascia	d rust present. 2014 of the fascia bearing a bearings have broke	s. 2014 en anchor bolts.	2014					
60.	Substructure NBI:	Minor cracks and spall	s. 2011							
	61. Channel NBI:									
	62. Culvert NBI:									

BRIDGE 7276 CSAH 51(LEX PKWY) OVER CSAH 33(PIERCE BUTLER)

BRIDGE 7276 CSAH 51(LEX PKWY) OVER CSAH 33(PIERCE BUTLER)

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	

71. Waterway Adeq NBI:

72. Appr Roadway Alignment NBI:

Dan Reimer

Inspector's Signature

Glenn Pagel

Reviewer's Signature



1. 2011 elevation_2.jpg



6. column N.side_1.jpg



11. pier S.side joint_1.jpg



16. flaking paint 020.JPG



21. NE pier 2 bearing 014.JPĠ



26. 2016 google view_2.PNG



31. NE Abut.JPG



2. bearings N.side_10.jpg



7. column S.side damage_1.jpg



12. pier S.side joint_2.jpg



17. flaking paint 021.JPG



22. SE abut bearing anchor bolt 029.JPG



27. Center Diaphram on N end.JPG



32. NE Approach panel.JPG



3. bearings S.side_1.jpg



8. column S.side_1.jpg



13. underdeck_1.jpg



18. flaking paint 035.JPG



23. SW abut bearing anchor bolt 032.JPG



28. Impact damage at base of W end of Pier 2.JPG



33. SE corner Deck.JPG



4. bearings S.side_3.jpg



9. pier N.side joint_1.jpg



14. underdeck_2.jpg



19. NE abut bearing anchor bolt 007.JPG



24. 2nd Beam from E, S end (1).JPG



29. N Abut Backwall near center.JPG



34. W side of 2nd column from the E, Pier 2.JPG



5. bearings S.side_7.jpg



10. pier N.side joint_2 jpg



15. flaking paint 019.JPG



20. NW abut bearing anchor bolt 001.JPG



25. 2nd Beam from E, S end (2).JPG



30. N Strip Seal, E end.JPG



35. W side of center column, Pier 2.JPG





ENGINEERS ESTIMATE E	BRIDGES 5583 AND 7276
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	IOTAL		
UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
SQFT	15,656	\$ 325.00	\$5,088,200.00
LUMP SUM	1	\$ 254,410.00	\$254,410.00
SQFT	7,657	\$ 300.00	\$2,297,100.00
LUMP SUM	1	\$ 114,855.00	\$114,855.00
EACH	1	TBD	\$0.00
LUMP SUM	1	\$369,265.00	\$369,265.00
LUMP SUM	1	\$232,636.95	\$232,636.95
LUMP SUM	1	\$ 835,646.70	\$835,646.70
	UNIT SQFT LUMP SUM SQFT LUMP SUM EACH LUMP SUM LUMP SUM	UNITESTIMATED QUANTITYSQFT15,656LUMP SUM1SQFT7,657LUMP SUM1EACH1LUMP SUM1LUMP SUM1LUMP SUM1LUMP SUM1	UNIT ESTIMATED QUANTITY UNIT PRICE SQFT 15,656 \$ 325.00 LUMP SUM 1 \$ 254,410.00 SQFT 7,657 \$ 300.00 LUMP SUM 1 \$ 114,855.00 LUMP SUM 1 \$ 369,265.00 LUMP SUM 1 \$ 325,00 LUMP SUM 1 \$ 369,265.00 LUMP SUM 1 \$ 369,265.00 LUMP SUM 1 \$ 369,265.00 LUMP SUM 1 \$ 369,265.00

\$9,192,113.65





CITY OF SAINT PAUL Melvin W. Carter, Mayor 1500 City Hall Annex 25 W. Fourth Street Saint Paul, MN 55102-1660 Fax: 651-266-6222

June 19, 2018

Mr. Ted Schoenecker Public Works Director/County Engineer Ramsey County Public Works 1425 Paul Kirkwold Drive Arden Hills, MN 55112

RE: Metropolitan Council Regional Solicitation – Project Support Lexington Parkway Bridges over Pierce Butler Route and the BNSF Railroad

Dear Mr. Schoenecker,

I am writing to express the City of Saint Paul's strong support for Ramsey County's Lexington Parkway Bridge Reconstruction project over Pierce Butler Route and the BNSF Railroad (Bridges No. 5583 and No. 7276). The City agrees that reconstructing these bridges will greatly enhance the structural integrity of the bridges and improve the condition of the roadway on the bridges. Lexington Parkway is a major corridor that carries residents and visitors to and from the Como Regional Park area of Saint Paul. Maintaining a safe and improved transportation system will allow continued direct access into the Como Regional Park area.

The City of Saint Paul is proud to support the safety improvements being proposed on the Lexington Parkway Bridges over Pierce Butler and the BNSF Railroad. The City looks forward to working in partnership with Ramsey County through the design and construction phases if the project is awarded federal funding.

Thank you for including the City of Saint Paul in the review of this project. Please know that the project and the County have our full support.

Sincerely,

Kethy Farty

Kathy Lantry Director of Public Works





An Affirmative Action Equal Opportunity Employer

Lexington Parkway (51) Bridge over Pierce Butler Rt & BNSF RR

Map Produced 6/12/2018 by Ramsey County Public Works





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The information on this map is a compilation of Ramsey County Records. THE COUNTY DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF THIS DATA. The county disclaims any liability for any injuries, time delays, or expenses you may suffer if you rely in any manner on the accuracy of this data.

Prepared by Ramsey County Enterprise GIS | RCGISMetaData@Co.Ramsey.MN.US LexPkwyBRoverPrcButler&BNSF 6/12/2018