



MINUTES

January 2019 Section Meeting
Thursday January 31 11:30am-1:00pm
Location: Rose Vine Hall, Roseville MN
Advertiser: Alliant Inc.

1. Call Meeting to Order

Jeff Preston, NCITE President called the meeting to order at 12:23 pm. Lunch and networking preceded the meeting.

2. Introductions

All attendees introduced themselves, stated their employer and NCITE involvement and answered the question "Given the cold weather, where would you rather be right now?" Fifty-six people were in attendance. Responses were as follows:

Key West Fishing	Fort Myers Florida	MN United game
California	Golfing in Arizona	Sunday
Hawaii (8)	Laughlin Nevada	Florida (4)
Salt Lake City	Dominican Republic	Weekend
Atlanta for Super Bowl	Montego Bay	Cruise
Tampa Florida	Cruise and Vegas	Cancun
Mexico (2)	India	Happy to be here
Napa Valley	Here with you	Costa Rica
Above 0-degrees (2)	Cross Country Skiing	Retired
Warm	El Paso	Caribbean Cruise
Texas	Maui	Playing Golf
Louisiana	with Family	San Diego (2)
Beach with cigar and drink	Aruba	Las Vegas
Saudi Arabia	Greece	Warmer Weather
Austin TX (not MN)		

3. Presentation

Jeff introduced Phil Kulis who introduced Jason Staebell, Darwin Yasis, and Nick Turner who presented on the 2018 ASCE Minnesota Report Card, the presentation is attached to these minutes. Highlights include:

- This is the first Infrastructure report card that has been completed in Minnesota.
- Infrastructure grades are as follows:
 - o Aviation = B
 - o Bridges = C
 - o Dams = C
 - o Drinking Water = C-
 - o Energy = C
 - o Ports = C+
 - o Roads = D+



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- o Transit = C-
 - o Wastewater = C
 - o Cumulative GPA = C
- The average driver spends 41 hours in traffic.
- The Twin Cities hosts 5 of the works 100 trucking bottlenecks in the United States:
 - o I-94 @ US 52
 - o I-35W @ I-494
 - o I-35W @ I-4
 - o I-35E @ I-94
 - o I-35W @ I-694
- Minnesota has the 5th most miles of roadways in the United States but has the 22nd highest motor fuels tax.
- In 2010 cable median barrier in Minnesota averaged 5 hits/mile.
- More information can be found at www.MnReportCard.com

4. Adjourn

Jeff thanked the speaker and adjourned the meeting.

Respectfully submitted,

Kevin Peterson
2019 Secretary
February 7, 2019



NCITE Meeting

Jason Staebell
Nick Turner
Darwin Yasis

January 31, 2018

REPORT CARD FOR
MINNESOTA'S
INFRASTRUCTURE
2018

Aviation



B

Bridges



C

Dams



C

Drinking
Water



C-

Energy



C

Ports



C+

Roads



D+

Transit



C-

Wastewater



C





How we get to a grade?

Capacity

Condition

Funding

Future Need

Operation and Maintenance

Public Safety

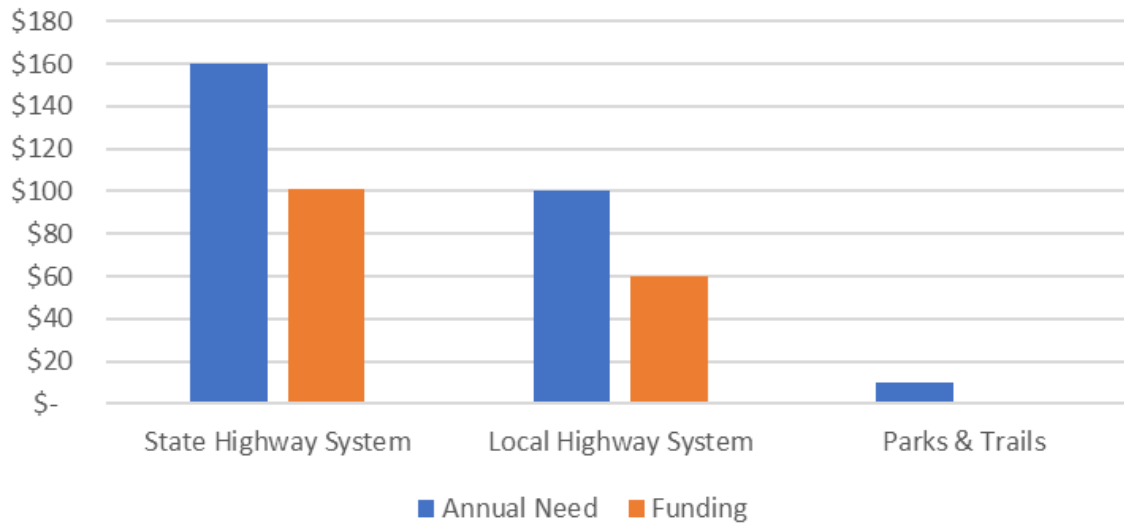
Resilience

Innovation

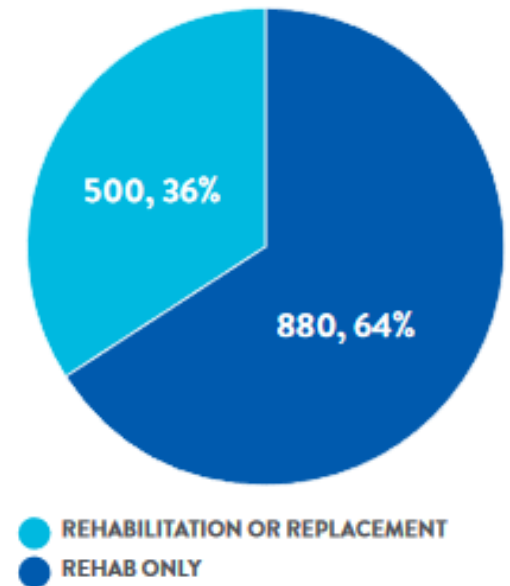


- 🚚 I-35W bridge collapse illuminated the state of our bridge infrastructure
- 🚚 19,776 bridges in Minnesota
- 🚚 5.4% of bridges in Minnesota are structurally deficient
- 🚚 Due to congestion, a number of interchanges in the Twin Cities will need to be upgraded soon
- 🚚 \$5.4 billion is needed in funding over the next 20 years
Only \$3.22 billion has been identified

Minnesota Annual Bridge Needs and Funding
 (Millions of Dollars)



NUMBER OF BRIDGES ELIGIBLE
 FOR FEDERAL FUNDING (1,380)



RAISE THE GRADE (C)



- Provide a reliable funding stream for bridges
- Identify a source of dedicated funding for Park and Trail bridges
- Perform research on the state and local bridge systems to identify the “sweet spot” for investments in:
 - Operation and maintenance
 - Minor projects with deck overlays
 - Major rehabilitation projects
 - Total bridge replacements



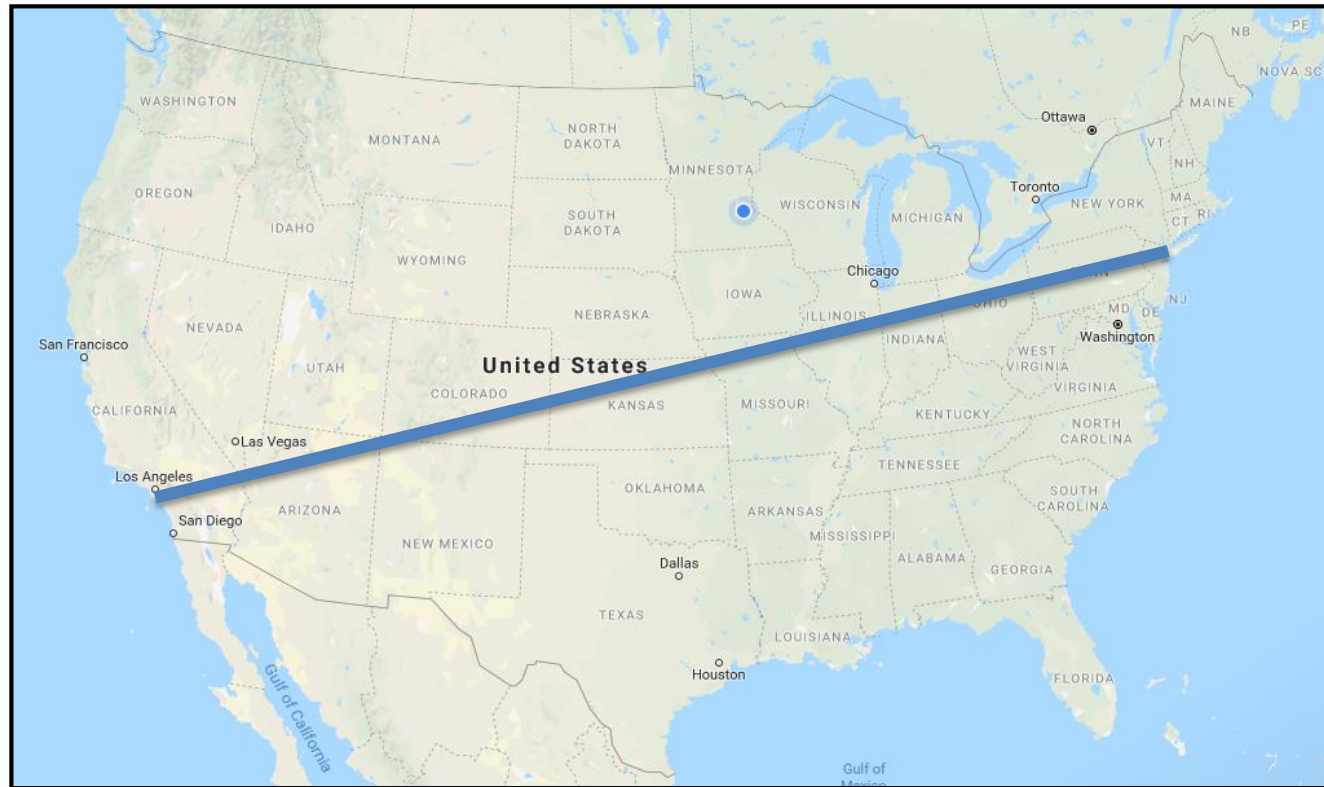
- 🚗 Minnesota has the 5th highest number of public roadway miles in the U.S. (140,000 miles)
- 🚗 The Minnesota State Highway Investment Plan (MnSHIP) estimated that roads are underfunded by \$17.7 billion over the next 20 years
- 🚗 Current primary funding sources are fuel, registration, and vehicle sales tax
- 🚗 Congestion is a major problem in the Twin Cities
 - 🚗 The average driver spends 41 hours in traffic , averaging a cost of \$1,332/ driver or \$2.3 billion

- Minnesota has nearly 140,000 miles of roadway

>50 Trips from
L.A. to New York

16% Urban

~116,000 miles
of rural roadway



Fatality rate on urban MN roads = 0.29 per 100 million vehicle miles
Fatality rate on rural MN roads = 1.12 per 100 million vehicle miles

- State owned trunk highway system is 12,000 miles
 - 13% Interstate
 - 41% NHS Highways
 - 46% Non-NHS Highways

HIGHWAY SYSTEM	2017 CONDITION (% POOR)	MNDOT TARGET (% POOR)	10-YEAR EXPECTED OUTCOME (% POOR)
Interstate	1.1	≤2	5.3
Other-NHS	1.7	≤4	6.8
Non-NHS	4.4	≤10	9.1



- 🚗 The Twin Cities is the 17th worst level of congestion for urban areas in the United States
 - 🚗 The average driver spends 41 hours in traffic, averaging a cost of \$1,332/ driver or \$2.3 billion

- 🚗 The Twin Cities hosts 5 of the worst 100 trucking bottlenecks in the United States. Only Houston and Atlanta have more.
 - 🚗 I-94 at US 52
 - 🚗 I-35W at I-494
 - 🚗 I-35W at I-94
 - 🚗 I-35E at I-94
 - 🚗 I-35W at I-694

- 🚗 From the 2017 MnSHIP report (20-year plan, excluding bridges)
 - 🚗 Projected Investment = \$18.7 billion
 - 🚗 Investment need = \$36.4 billion
 - 🚗 Unfunded shortfall = \$17.7 billion
 - 🚗 Annual funding gap = \$885 million

- 🚗 From the 2013 MnSHIP report (20-year plan, excluding bridges)
 - 🚗 Unfunded shortfall = \$13.9 billion
 - 🚗 Annual funding gap = \$695 million

Minnesota has the 5th most miles of roadways in the United States
Minnesota has the 22nd highest motor fuels tax in the United States



Maintenance costs have seen increases.
Salt has increased in cost 235% since 2001

Maintenance crews have seen increased demands.
In 2010 cable median barrier in Minnesota averaged 5 hits/mile

RAISE THE GRADE (D+)

- Solidify an increased dedicated funding source to close the funding gap
- Index revenue sources to inflation to create a more long-term funding source
- Promote innovative practices that reduce cost
- State and local agencies should seek out public-private partnerships

Transit



- Annually, 111 million rides in MN are delivered on public transit
 - 99 million in the Metro Area
 - 12 million in Greater MN
- 61 transit systems in the state
 - 56 systems in Greater MN
- \$450 million is needed over the next 5 years to keep our current system working
 - \$5 billion over the next 20 years
- Current funding levels are not sufficient to maintain our system

FIGURE 1: CY 2015 RIDERSHIP (IN MILLIONS)

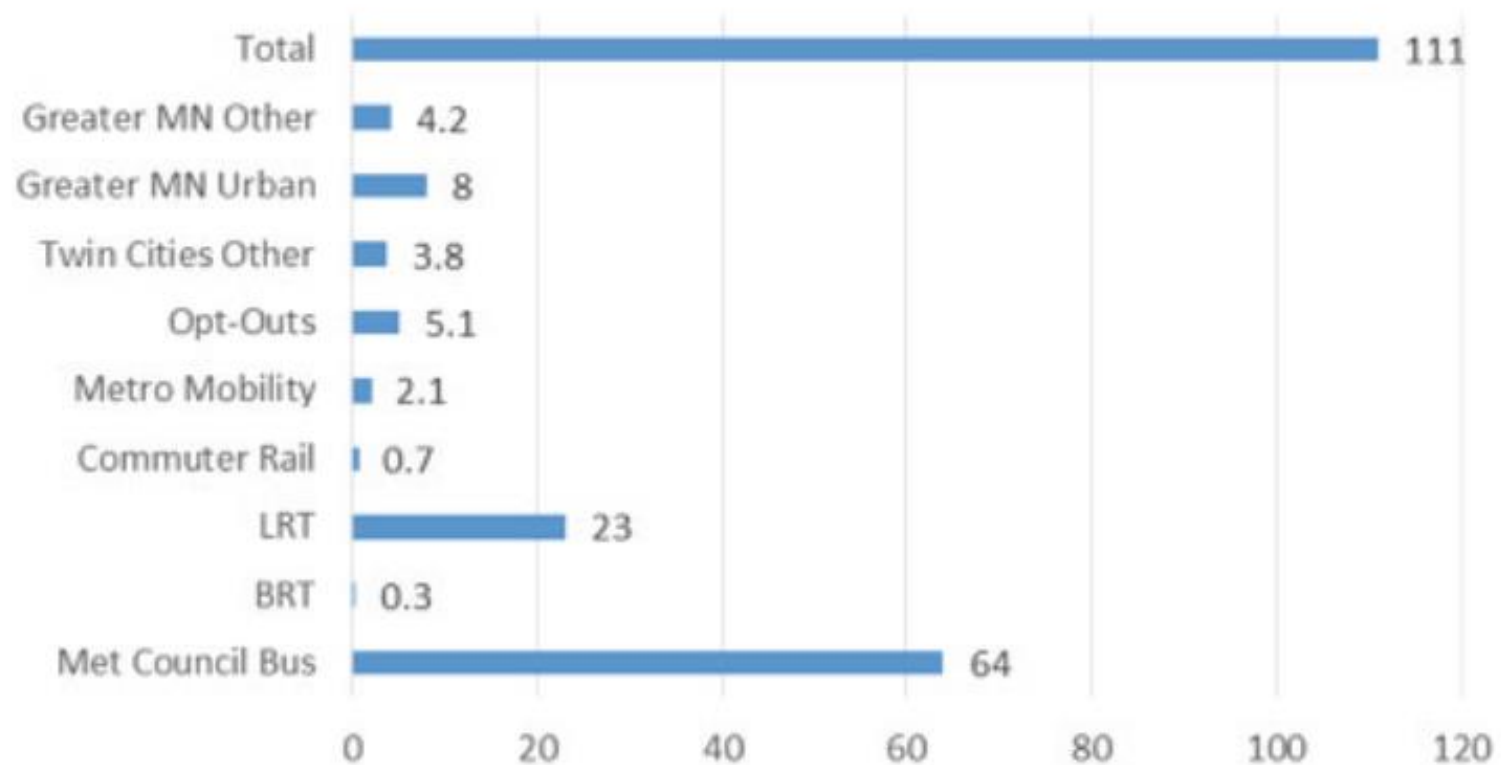


FIGURE 2: GREATER MINNESOTA TRANSIT OPERATING BUDGET (2017)

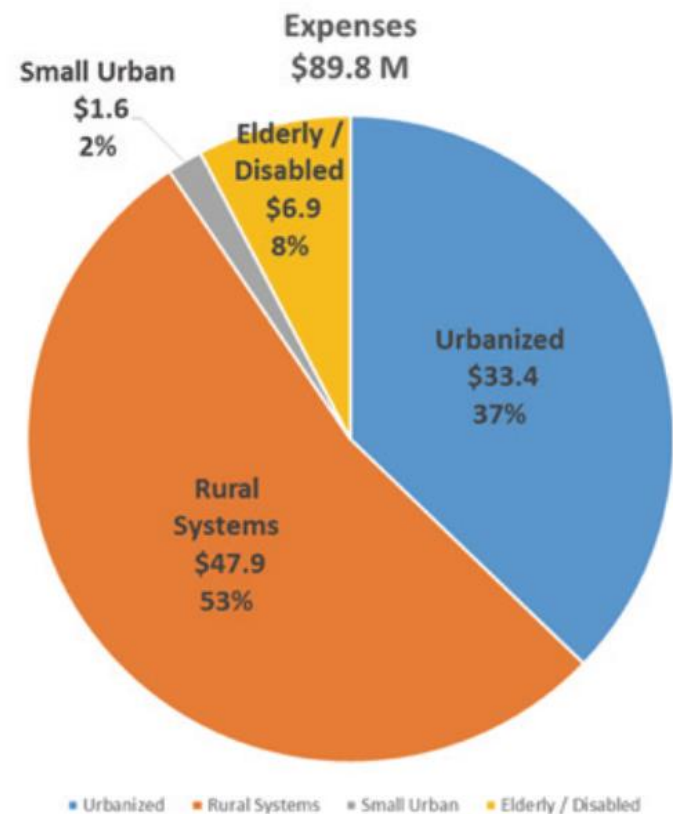
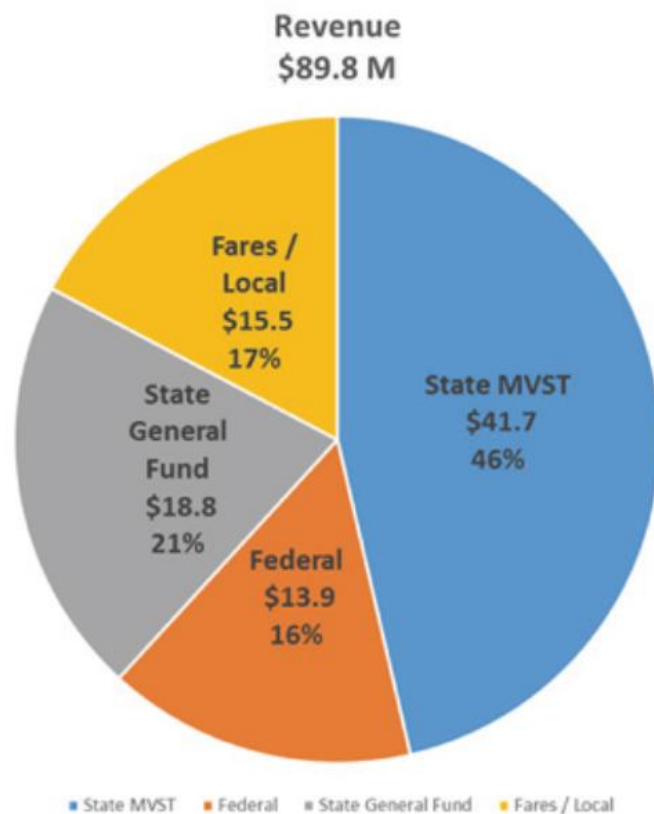


TABLE 2: GREATER MINNESOTA PUBLIC TRANSIT ANNUAL OPERATING COST, 2010-2015

SYSTEM	2010	2011	2012	2013	2014	2015	% CHANGE (2010-15)
Urbanized				\$28,737,075	\$30,219,815		34.0%
ADA-	\$4,475,654	\$4,739,045	\$4,702,382	\$4,730,007	\$5,281,240	\$6,098,096	36.3%
Small Urban *	\$4,317,571	\$4,549,283	\$3,904,818	\$2,565,824	\$2,238,184	\$2,134,513	-50.6%
Rural				\$31,233,351	\$35,761,854	\$37,927,260	41.4%
Transit For Our Future	**	**	**	\$278,798	\$784,613	\$470,581	**
Other Transit Services	**	**	**	\$436,711	\$465,532	\$1,782,702	**
Greater Minnesota				\$68,261,171	\$74,751,238	\$79,102,247	35.2%

*Greater Mankato Transit System, previously a small urban system, was reclassified as an urbanized system in 2013. Source: MnDOT Transit Report 2011-2016

Transit operating cost per hour in the Twin Cities Metro Area, when adjusted for inflation, increased 6.9% between 2011 and 2015, compared to 1% for peer regions.

RAISE THE GRADE (C-)

- Establish a sustainable funding sources for public transit similar to how the gas tax funds roads and bridges
- Adequately fund maintenance of transit vehicles and facilities to keep systems in a state of good repair and improve life cycle costs
- Increase access to transit in urban, suburban, and rural communities so that citizens have better transportation choices
- Continue developing comprehensive transportation plans to address transit needs in urban, suburban, and rural communities in Minnesota

REPORT CARD FOR
MINNESOTA'S
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2018

Aviation



B

Bridges



C

Dams



C

Drinking
Water



C-

Energy



C

Ports



C+

Roads



D+

Transit



C-

Wastewater



C





CONTACT

- MnReportCard.Com
- Twitter @MNReportCard
- Email: ReportCard@AsceMn.org



NORTH CENTRAL SECTION

INSTITUTE OF TRANSPORTATION ENGINEERS

MINUTES

September 2019 Section Meeting
Wednesday September 18, 11:30am to 1:30pm
Location: Lucky 13's Pub
Advertiser: Kimley-Horn

1. Call Meeting to Order

Jeff Preston, NCITE President, called the meeting to order at 12:32pm. Lunch and networking preceded the meeting.

2. Introductions

All attendees introduced themselves, stated their employer and NCITE involvement and answered the question "What's the farthest you've traveled for an event, and how many modes did you use?". 59 people answered, with some notable answers:

Drove from Alaska to Florida	Mazatlan (drove, cruise, walk, bike)
France Women's World Cup (flew, train, uber)	Japan (flew, bullet train, taxi)
NYC (flew, subways)	Germany (train types, autobahn, taxi)
Red Rocks (party shuttle)	Cubs Game (trains, walking)
San Francisco (trolley, taxi, skateboard, hit em all)	India (gondola, plane, elephant)

3. Announcements

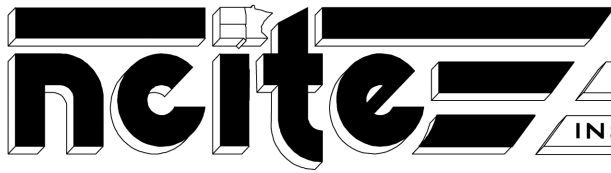
- Jeff announced the October Section Meeting date (10/9) and the Annual Meeting date (11/14), & noted that the section is seeking donations for the scholarship raffle.
- Jeff announced nominations and applications for NCITE section awards and scholarships are being accepted until Sept 30th.
- Jeff announced that abstracts for the Transportation Symposium are being accepted until September 26th.
- Jeff announced that the virtual ITE career fair is in October and the ITE website has more info.
- Jeff announced the STEM Competition in November.
- Jeff announced that the call for abstracts for the Joint ITE International and Southern District Annual Meeting and Exhibition will open on October 9.
- Jeff mentioned that the ITE website has more information on the Mentorship Program, Professional Development Opportunities, and new publications.
- Jeff thanked Kimley-Horn for sponsoring this meeting.

4. Presentation

Jeff introduced Jonah Finkelstein who introduced Randy Newton (St Paul Traffic Engineer), and Tom Sachi and Phil Kulis with SRF.

The trio presented on the Allianz Field game-day traffic operations. Notable points:

- o 19,500 capacity across 6 fairly evenly split modes, with the largest projected percent using LRT.
- o Post-Event closures at St. Anthony for rideshare purposes,



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- Timing Modifications – Ran PM Peak plan at departure with slight adjustments
- Used PTV Vissim and Visswalk to model complex factors (LRT, pedestrians, saturated flow) of site. Model seemed to determine operations accurately
- Major Plan modifications
 - WBR gets shutdown by police at Ramp, due to pedestrians.
 - More motorists exiting Scheel's than expected, may be result of banning certain movements.
 - NBR at Snelling and University was prohibited due to pedestrian activity.
- Key Findings
 - Event parking clears within 45 minutes
 - EB LRT clears within 20-25 minutes
 - WB LRT clears within 30-40 minutes
 - Pedestrians will find breaks in system to get to destination fastest
 - St Paul Police will make slight modifications as needed
 - Revisions to TMP will be needed to iterate to best operation

5. Adjourn

Jeff thanked the speaker and adjourned the meeting.

Respectfully submitted,

Kevin Peterson
2019 Secretary
October 3, 2019