School Speed Zone Study

Jefferson Parkway Northfield, MN



Real People. Real Solutions.

Submitted by:

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Certification

Transportation Study

For

Jefferson Parkway School Speed Zone

City of Northfield, MN 24X.134892.000

November 25, 2024

PROFESSIONAL ENGINEER

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

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I. Introduction

A school speed zone study was conducted on Jefferson Parkway. Schools generally prefer lower speed limits to maintain quality of life in the community and ensure safety for all users, particularly pedestrians and cyclists. The purpose of the Jefferson Parkway Speed Limit Study is to first determine whether a school speed zone is appropriate for Jefferson Parkway. If deemed appropriate, this study will determine the extents of the school speed zone and the school zone speed limit on Jefferson Parkway adjacent to Bridgewater Elementary School, and south of Northfield High School and the athletic fields, that balances safety, efficiency, and functional mobility of School-Aged Children.

The Mill Towns Trail was constructed on the south side of Jefferson Parkway in 2024. The project also included a mill and overlay of Jefferson Parkway, pedestrian ramp improvements to meet the Americans with Disabilities Act (ADA) requirements, and signing updates.

II. Scope of Analysis

The school speed zone study follows the guidance as set forth in the "A Guide to Establishing Speed Limits in School Zones".

A. Field Investigation

Review existing roadway geometry, lane use, pedestrian crossing locations, traffic control, and overall intersection characteristics.

B. Traffic Safety

Review five-year history of crashes at all locations and speed data to provide insights into safety trends and concerns.

C. School Zone Speed Limit

Study the existing condition and Traffic Movement Counts to determine the safe speed limit along the school route.

D. Signage and Markings

Analyze existing and proposed signs and markings at the intersection and understand potential changes for the safety of pedestrians.

III. Study Intersections

The study includes Jefferson Parkway from Roosevelt Drive to Trunk Highway (TH) 246 (Division Street). The study will specifically consider the intersections listed below.

A. Jefferson Parkway and Roosevelt Drive East

Two-way stop-controlled intersection with school crossing signs and crosswalk on the east leg. Intersection not adjacent to the school.

B. Jefferson Parkway and Raider Drive/West Bus Access

Two-way stop-controlled intersection with school crossing signs and crosswalks on the east and west legs. This access serves buses entering the Bridgewater Elementary School site. The access also allows for exiting traffic from the west side of the school.

C. Jefferson Parkway and East Bus Access

T-intersection with stop sign control exiting the school site with no school crossing signs or designated crosswalk across Jefferson Parkway. This access serves buses exiting the Bridgewater Elementary School site.

D. Jefferson Parkway and East School Access

Two-way stop-controlled intersection with school crossing signs and crosswalk on the east leg. This access serves school drop-off/pick-up and parking lot users exiting the Bridgewater Elementary School site. School traffic, besides buses, enter into the Bridgewater Elementary School site from TH 246 (Division Street) at Anderson Drive.

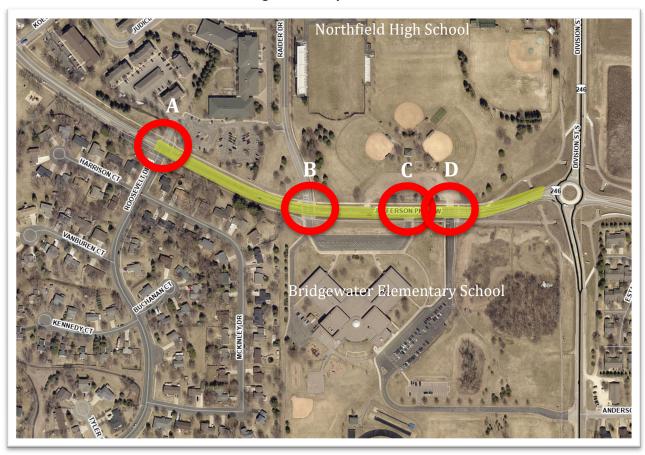


Figure 1. Study Site

IV. Roadway Geometry

Jefferson Parkway is currently functionally classified as a Minor Arterial roadway. Jefferson parkway runs east-west connecting TH 3 on the west end to Spring Creek Road on the east end. The roadway provides a connection between TH 3 and TH 246. The section of Jefferson Parkway for study has a posted speed limit of 30 mph. It is configured as a two-lane median-divided roadway. The median separates opposing traffic, serves as a pedestrian refuge, and enhances the safety of the roadway. The roadway design aims to facilitate smooth traffic flow while providing a clear visual separation between vehicles traveling in opposite directions.

A. Jefferson Parkway and Roosevelt Drive East

The intersection includes a dedicated left turn lane with a storage length of 130 feet for eastbound traffic, as well as a dedicated left turn lane with a storage length of 75 feet for

westbound traffic. The roadway features the cross-section of a two-lane divided roadway (one lane in each direction along Jefferson Parkway). Each lane is approximately 11 feet wide, with a 2-foot curb reaction shoulder on the outside and a 1-foot curb reaction shoulder on the median side. In contrast, the south leg of the intersection has an 8-foot shoulder on both sides of the roadway that accommodates parking.

B. Jefferson Parkway and Raider Drive/West Bus Access

The intersection includes dedicated left turn lanes for both eastbound and westbound traffic, each with a storage length of 200 feet. The southbound approach features a dedicated right turn lane with a storage length of 210 feet, as well as a shared lane for through and left turn movements. The south leg serves Bridgewater Elementary School and is for entering bus traffic and KidVentures drop-off/pick-up only.

C. Jefferson Parkway and East Bus Access

It is a T-intersection with a single lane in each direction on Jefferson Parkway. The south leg (northbound approach) is the school bus exit for Bridgewater Elementary School.

D. Jefferson Parkway and East School Access

The intersection includes a dedicated left turn lane for eastbound traffic, with a storage length of 100 feet that provides access to the Rock Field parking area. The south leg (northbound approach) serves as the exit from the school drop-off/pick-up and the parking lot for Bridgewater Elementary School. The northbound direction includes a dedicated right turn lane with a storage length of 140 feet, as well as a shared lane for through and left turn movements.

V. Pedestrian Crossings

A. Jefferson Parkway and Roosevelt Drive East:

The intersection has a pedestrian crossing marked on the north leg, south leg, and east leg of the intersection. The school crossing on the east side of the intersection is likely used primarily by high school students given this provides the shortest route from the south side of Jefferson Parkway to the high school.

B. Jefferson Parkway and Raider Drive:

The intersection has a pedestrian crossing marked on the north leg, east leg, and west leg of the intersection. The south leg is considered a private driveway access and the sidewalk continues across the access.

C. Jefferson Parkway and East Bus Access

The intersection has no pedestrian crossings marked at any leg. The south leg is considered a private driveway access and the sidewalk continues across the access.

D. Jefferson Parkway and East School Access

The intersection has a pedestrian crossing marked on the east leg and south leg. The north leg is considered a private driveway access and the sidewalk continues across the access.

VI. Traffic Control, Signing and Pavement Markings, and Sidewalks

All intersections are designated as two-way stop-controlled intersections with the stops being from the north and south legs at all intersections. Marked pedestrian crossings across Jefferson

Parkway are established at every intersection, except at the junction of Jefferson Parkway and the Bridgewater Elementary East Bus Access. The crosswalks are marked in the continental block pattern except the crossing across the south leg at the East School Access, which is marked in a sparse zebra crosswalk pattern. Both patterns are considered to be a high visibility pattern.

School crossing signs are currently in place at all Jefferson Parkway crosswalks on the approaching right side on Jefferson Parkway. There are no advance crossing warning signs for any of the crosswalks. A sidewalk is located on the north side of Jefferson Parkway while the Mill Towns Trail is located on the south side of Jefferson Parkway as recently constructed in 2024.

There is continuous roadway lighting on Jefferson Parkway but lighting is not directly placed to enhance the visibility of pedestrians. A streetlight is located on the north side near the crossing at the East School Access, two are provided on the southwest and northeast corners at the intersection of Raider Drive, and one is provided on the southwest corner at the intersection of Roosevelt Drive East.

VII. Traffic Data Collection

Existing 13-hour traffic turning movement counts (vehicles and pedestrians) were collected on Tuesday, October 15,2024, at each intersection. The AM peak hour across all intersections was from 7:15 AM to 8:15 AM, whereas the PM peak hour was recorded from 2:45 PM to 3:45 PM. Traffic speed data was collected at two locations on October 17, 2024. Turning movement data for every intersection is shown in **Appendix A** while the speed data is included in **Appendix B**.

A. Traffic Volume

Traffic volume for each intersection was collected to review the traffic movements along Jefferson Parkway and record the volume of pedestrian movements using the crosswalks across Jefferson Parkway especially near the elementary school start and dismissal times (8:35 AM and 2:35 PM).

Jefferson Parkway and Roosevelt Drive East

Traffic counts indicate a daily traffic volume of approximately 6,800 vehicles on the east leg. A total of 15 pedestrians or bicyclists were observed crossing on the east leg and none on the west leg. A maximum of two (2) crossings were observed in one hour. The highest used crossing at the intersection was on the south leg with 83 observed crossings. The pedestrian counts indicate that the marked crossing across Jefferson Parkway could be eliminated but its location as a school route crossing in the overall network indicate a reason to maintain it.

2. Jefferson Parkway and Raider Drive

Traffic counts indicate a daily traffic volume of approximately 6,800 vehicles on the west leg and 6,400 vehicles on the east leg. A total of 52 pedestrians or bicyclists were observed crossing on the west leg and a total of 103 pedestrians or bicyclists were observed crossing on the east leg. A maximum of 35 crossings were observed in one hour on the east leg and 36 crossings in one hour on the west leg. The highest used crossing at the intersection was on the south leg with 147 observed crossings.

3. Jefferson Parkway and East Bus Access

Traffic counts indicate a daily traffic volume of approximately 6,400 vehicles on the crossing through the intersection on Jefferson Parkway. A total of six (6) pedestrians or bicyclists were observed crossing on the west leg and a total of four (4) pedestrians or bicyclists were observed crossing on the east leg even though there are no marked

crossings, adequate median crossing points, or ADA compliant ramps. The highest used crossing at the intersection was on the south leg with 70 observed crossings.

4. Jefferson Parkway and East School Access

Traffic counts indicate a daily traffic volume of approximately 6,500 vehicles on the east leg. A total of five (5) pedestrians or bicyclists were observed crossing on the west leg and a total of ten (10) pedestrians or bicyclists were observed crossing on the east leg. A maximum of seven (7) crossings were observed in one hour on the east leg. The highest used crossing at the intersection was on the south leg with 74 observed crossings. The pedestrian counts indicate that the marked crossing across Jefferson Parkway could be eliminated, especially considering the location of the highly used marked crossings at Raider Drive and the tunnel crossing to the east at Division Street that is likely used by most pedestrians and bicyclists to cross Jefferson Parkway in this area. Even with that its location directly connecting the elementary school and Rock Field Park, and its location within the school zone indicate a reason to maintain it.

B. Traffic Speed

Traffic speed data was collected west of Division Street and west of Raider Drive to understand the current operating speeds of motorists, the present compliance rate for the posted speed limit, and to verify if the normal speed limit is appropriate. Speed radar readings were collected for the two locations within the anticipated School Zone. To understand the existing traffic speeds, 48 hours of speed data was collected at the two separate locations in the study zone, the collected data is summarized in **Table 1**.

Table 1. Fi	eld-Collected S	peed Data
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Location	Median Speed	85th Percentile Speed	Posted Speed
East of Roosevelt/ West of Raider	30 to 31 mph	34 mph	30 mph
Division St near the East Access	30 to 31 mph	34 mph	30 mph

^{*}Multiple speeds listed above indicate different speed measurements in each direction

Generally, the 85th percentile speed should match the speed limit. This indicates that most vehicles are following the posted speed. Speed data shows 85th percentile speed to be 34 mph and 50th percentile (average) speed to be between 30 and 31 mph. This indicates that the posted speed limit of 30 mph is appropriate for the roadway and there is compliance by at least half of the roadway users on a daily basis. The posted speed limit of 30 mph is considered appropriate especially in consideration of the surrounding land use and the schools so any improvements to slow traffic would be recommended.

In recognition that any changes on Jefferson Parkway are intended to increase safety for the pedestrians, especially for school-aged children, the roadway should be designed to best indicate to motorists that the appropriate speed is 30 mph or less.

VIII. Safety Analysis

Crashes available from the Minnesota Crash Mapping Analysis Tool (MnCMAT2) from 2019 to 2023 were reviewed to determine the types of crashes that have occurred for all of the intersections within the potential school zone speed limit area to understand any existing safety issues that are present. **Table 2** shows the types of crashes involved in the intersection and **Table 3** shows the intersection crash rate for every intersection under the School Zone Speed Limit

Table 2. Crash Types

		_								
						Crashes Ty	/pes			
Intersection	Total Crashes	Angle Crashes	Rear End Crashes	Side Swipe Crashes	Single Vehicle	Left Turn	Head On	Pedestrian	Bicycle	Other
Infference Discovered Deserved Des	4	Ordones	oradiica 4	ordanes	V CITICAL C	0	0	0	0	_
Jefferson Pkwy and Roosevelt Dr	4	2	1	1	U	U	U	U	U	U
Jefferson Pkwy and Raider Dr	3	2	1	0	0	0	0	0	0	0
Jefferson Pkwy and Bunker Dr East Bus Access	0	0	0	0	0	0	0	0	0	0
Jefferson Pkwy and Bunker Dr East Access	1	1	0	0	0	0	0	0	0	0

Table 3. Summary for Intersection Crash Rate (2019-2023)

		, -			1		/		
			All Se	verities		Fatal a	nd Serious Inj	ury Crashes (K	+A Crashes)
Intersection	Traffic Control	Total Crashes	Crash Rate (per MEV)	Critical Crash Rate (per MEV)	Critical Index	K+A Crashes	K+A Crash Rate (per 100 MEV)	K+A Critical Crash Rate (per 100 MEV)	K+A Critical Index
Jefferson Pkwy and Roosevelt Dr	Two-Way Stop	4	0.33	0.45	0.73	0	0.00	6.62	0.00
Jefferson Pkwy and Raider Dr	Two-Way Stop	3	0.25	0.46	0.55	0	0.00	6.77	0.00
Jefferson Pkwy and Bunker Dr East Bus Access	Two-Way Stop	0	0.00	0.49	0.00	0	0.00	7.78	0.00
Jefferson Pkwy and Bunker Dr East Access	Two-Way Stop	1	0.09	0.48	0.2	0	0.00	7.40	0.00

Crash history indicates that there have been no pedestrian or bicyclist involved crashes within the past five years of data for the entire area under consideration for a School Zone Speed Limit (SZSL). The observed total crash rate and the observed fatal and serious injury crash rate for each intersection indicates that they are operating within the normal range compared to similar intersections state-wide. While the crash history indicates that the intersections are performing within the "normal" range, this does not indicate that safety improvements should not be incorporated when appropriate but does indicate that there is not an immediate crash mitigation need. Crash worksheets are provided in **Appendix C**.

IX. School Zone Speed Limit

The Minnesota Department of Transportation "Guide for Establishing School Zone Speed Limits" provides guidance on setting appropriate School Zone Speed Limits (SZSLs). SZSLs consider one of many steps for improving the safety of students, parents and staff walking, biking and rolling to school. Speed limit is selected based on the table from MnDOT Guide for Establishing School Zone Speed limit.

EXIST. ROAD SPEED LIMIT 30 35 40 45 Range of School Zone Speed Limits 15-mph SZSL C1 **C3** 20-mph SZSL C1 C1 СЗ СЗ 25-mph SZSL C2 **C3** 30-mph SZSL C2 C2 **C3 C3 C3** СЗ 35-mph SZSL СЗ СЗ Summary of SZSL Best Practices: Condition 1 (C1) Condition 2 (C2) Condition 3 (C3) Selecting a SZSL that reduces the risk of severe injury and fatal crashes for vulnerable users Does not satisfy any best practices without additional countermeasure and/or warnings Satisfies SZSL best practices Satisfies one, but not all best practices · E&T investigation required No SZSL buffer zone or advance warning signing required unless there is a history of non-· Minimize differential between motorist crashes · E&T investigation required existing speed limit and SZSL (5-10 mph is best, no more that 15 mph) Additional countermeasures should be considered regardless of crash history, if pedestrian safety is the justification for the SZSL SZSL buffer zone or advance warning signing required warning signing required Use of a SZSL buffer zone or advance warning signage when there is a 15 mph or more differential Redundancy with additional countermeasures

Table 4: SZSL Ranges and Requirements

With the existing speed limit of the roadway at 30 mph, high visibility crosswalks and marked school zone crossings, and no pedestrian and bicyclist crashes that have been reported in the past five years along the School Zone to which no Engineering and Traffic Investigation are required, and based on the Minnesota State Statue 169.14.15a and MnDOT identified best practices, Condition 1 (C1) is satisfied as a best practice with the School Zone Speed Limit to be 20 mph which is not lower than 15 mph below the existing speed limit.

X. Pedestrian Crossing Analysis

For pedestrian crossing analysis, existing peak hour intersection levels of service for each intersection on Jefferson Parkway in the study area were determined using the Highway Capacity 7th Edition methodology through Synchro 12 analysis software based on the 2024 traffic control and roadway configuration. Table 5 shows the pedestrian crossing operation during the AM and PM peak traffic periods, which shows that the pedestrians likely have a difficult time crossing within what is considered an acceptable range (Level of Service (LOS) A to D).

Table 5: Existing Level of Service (LOS) Summary

Intersection	Traffic Control	A	1 Peak Lev	el of Servi	ce	PI	M Peak Lev	el of Servi	се
intersection	Traffic Control	EB	WB	NB	SB	EB	WB	NB	SB
Jefferson Pkay and Roosevelt Dr	Two-Way Stop	F	Е	-	-	F	Е	-	-
Jefferson Pkwy and Raider Dr	Two-Way Stop	Е	Е	-	-	Е	Е	-	-
Jefferson Pkwy and Bunker Dr East Bus Access	Two-Way Stop	F	F	-	-	F	F	1	-
Jefferson Pkwy and East Access	Two-Way Stop	F	В	-	-	F	В		-

All pedestrian crossings operate at LOS E or F. While the marked crossings cross through the median, the median is too narrow to be considered a pedestrian refuge except at the East School Access. The level of service for pedestrian crossings could be slightly improved by providing a wider median for a pedestrian refuge at all crossings but the traffic volume indicates that pedestrians have a difficult time crossing Jefferson Parkway. Given the poor level of service, measures to reduce speeds when pedestrians are crossing would be consistent with improving pedestrian safety. Pedestrians are less likely to be killed at lower speeds as indicated in **Figure 2**.

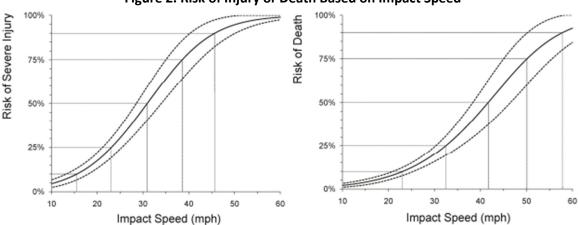


Figure 2. Risk of Injury or Death Based on Impact Speed

XI. Signing and Pavement Marking Review

The intersections and pedestrian crossings under consideration in the context of SZSL accommodate both pedestrian and bicycle traffic. To ensure the safety of pedestrians while crossing, it is essential to have appropriate warning signage and clearly marked crosswalks at each

^{*}AAA Foundation: Impact Speed and a Pedestrian's Risk of Severe Injury or Death

intersection. The FHWA Guide for Improving Pedestrian Safety at Uncontrolled Crossing Locations lists proven countermeasures to enhance crosswalk safety. The guidelines should be used along with engineering judgement to determine if crosswalk warning signage is required. The following improvements are recommended at each intersection by considering pedestrian and bicyclist traffic, as well as the current conditions of the intersections.

A. Jefferson Parkway and Roosevelt Drive East

This intersection has marked crosswalks with high-visibility crosswalk markings. The school crossing sign with downward arrow plaques at the intersection meet the compliance for the SZSL. The intersection also has adequate nighttime lighting for the safe crossing of the pedestrian. There is a median but it is not wide enough to be considered a pedestrian refuge island for the marked crossing. No additional improvements for pedestrians are deemed to be required at the intersection, especially given the low pedestrian crossing volume. The current signing and markings from the 2024 construction plans are shown in **Figure 3**.

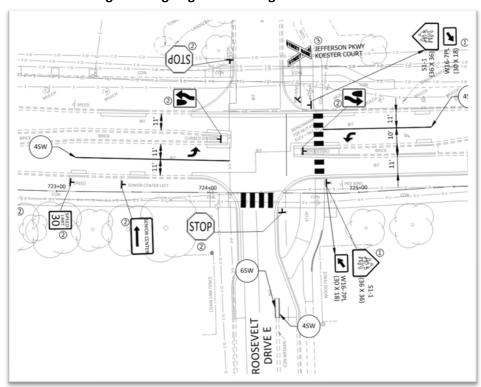


Figure 3. Signing and Markings at Roosevelt Dr E

B. Jefferson Parkway and Raider Drive

This intersection has marked crosswalks with high-visibility crosswalk markings. The school crossing sign with downward arrow plaques at the intersection meet the compliance for the SZSL and the Rectangular Rapid Flashing Beacons (RRFBs) on the east and west legs are compliant with the latest standards. The current signing and markings from the 2024 construction plans are shown in **Figure 4**.

Figure 4. Signing and Markings at Raider Dr

C. Jefferson Parkway and East Bus Access

No crosswalks are present or are deemed to be needed based on the low pedestrian counts and the marked crossings at the adjacent intersections.

D. Jefferson Parkway and East School Access

This intersection has a marked crosswalk with high-visibility crosswalk markings. The school crossing signs with downward arrow plaques at the intersection meet the compliance for the SZSL. Given the width of the median, additional crosswalk signage on the left side approaching the crossing could be implemented in the median but is not required. Given the lower volume use of this crossing location, recommend keeping as-is until needed.

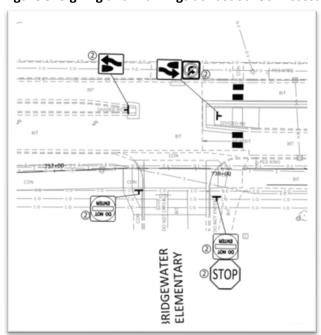


Figure 5. Signing and Markings at East School Access

E. School Speed Zone

The school sone speed limit at 20 mph will require some adjustment to the school zone signing. The advance warning sign for eastbound traffic just west of Roosevelt with the "School" plaque to be revised to just the warning sign (S1-1). The "School" plaque to be removed as shown in **Figure 6**. The "School" plaque should also be removed from the school warning sign (S1-1) just west of the TH 246/Division Street roundabout, facing east. School Zone Speed Limit sign assemblies should be located facing west, west and east of Roosevelt Drive East, and located facing east, east of the East School Access, likely after the bike slip ramp and downsteam from the speed limit 30 sign. Speed zone assembly shown in **Figure 7** (can reuse the "school" plaques with these assemblies). Assemblies to include the times for enforcement prior to and just after school start and dismissal time or with "when children are present" plaque. End School Speed Limit signs to be added west of Roosevelt Drive East facing east and located facing west, just west of TH 246/Division Street.

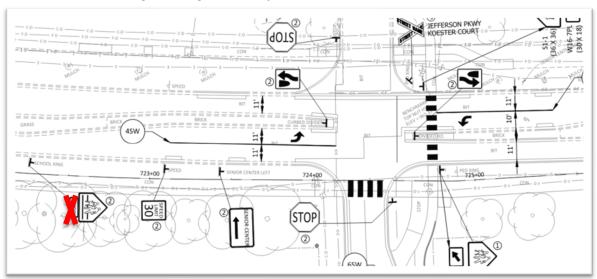
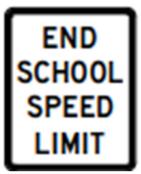


Figure 6. Sign Assembly Revision West of Roosevelt Dr E

Figure 7. School Speed Zone Assembly



Figure 8. End School Speed Limit Sign



XII. Conclusions

Overall, the findings support a School Zone Speed Limit of 20 mph. The signing should be revised at a few locations in support of the School Zone Speed Limit along Jefferson Parkway as described in the previous section. The following are the recommendations.

- School Zone Speed Limit: Based on the existing posted limit of 30 mph and the crash history from the past five years with no ped or bike crashes, satisfies Condition 1 (C1), setting the SZSL at 20 mph.
- Jefferson Parkway at Roosevelt Drive East: Revise and add signage for the School Zone Speed Limit
- Jefferson Parkway at Raider Drive: No changes
- Jefferson Parkway and East Bus Access: No changes
- Jefferson Parkway and East School Access: Revise and add signage for the School Zone Speed Limit

Recommended signing plan revisions are attached in **Appendix D**. School Zone Speed Limit to be enforced once approved by City Council and signage placed.

Appendix A: Turning Movement Counts

Jefferson Parkway & Roosevelt Dr, Northfield, MN Tuesday, October 15, 2024

	i		C464						14/41	Τι	ıesday	, Octob	er 15,	2024	81 L				1		F4b				i i
			South! Straight	Right	Crosswalk	Vehicle			Westb Straight	Right	Crosswalk	Vehicle			Northi Straight	bound Right	Crosswalk	Vehicle			Eastbo Straight	ound Right	Crosswalk	Vehicle	VEHICLE
Time	U Turns	Left Turns	Through	Turns	Crossings	Approach Total	U Turns	Left Turns	Through	Turns	Crossings		U Turns	Left Turns	Through	Turns	Crossings		U Turns	Left Turns	Through	Turns	Crossings	Approach Total	TOTAL
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0				0		0		0		0		0						0				0	0	0
1:00 AM 1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM 1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	ő	ō	0	0	0	0	0	0	ō	0	ō	ō	0	ō	0	0	0	ō	0	0	ō	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM 3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM 4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM 5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM 6:15 AM	0	1	0	3	0	4	0	2	7 13	2	0	11 16	0	3 4	1 0	3 1	0 1	7 5	0	1 2	8 13	1 0	0	10 15	32 40
6:30 AM	0	2 1	0	5	0	, 7 5	0	0	20 21	4	0	24 28	0	3	0	4 7	1 0	7 10	0	6	15 15	0	0	21 22	59 65
6:45 AM Hourly Total	0	5	2	13	0	20	0	7	61	11	0	79	0	13	1	15	2	29	0	14	51	3	0	68	196
7:00 AM	0	1	0	4	0	5	0	4	31	3	0	38	0	4	0	11	0	15	0	1	35	2	0	38	96
7:15 AM	0	2	0	3	0	5	0	9	62	2	0	73	0	4	0	12	1	16	0	4	58	0	0	62	156
7:30 AM 7:45 AM	0	0 4	1 1	2 4	0	3 9	0	17 3	78 80	5 8	1 1	100 91	0	7	1	41 28	3 1	46 36	0	4 9	135 57	6 0	0 0	145 66	294 202
Hourly Total	0	7	2	13	0	22	0	33	251	18	2	302	0	19	2	92	5	113	0	18	285	8	0	311	748
8:00 AM	0	4	0	7	0	11	0	9	57	1	0	67	0	4	0	9	3	13	0	3	63	1	0	67	158
8:15 AM 8:30 AM	0	6 1	0	3 1	1 0	9	0	7	73 30	2	1 0	82 36	0	3 4	0 1	11 7	0	14 12	0	1 3	54 37	2 0	0	57 40	162 90
8:45 AM Hourly Total	0	1 12	1 1	6 17	0	8 30	0	4 23	31 191	2	0	37 222	0	3 14	0	6 33	0	9 48	0	4 11	27 181	3 6	0	34 198	498
				44		46				7					0					-			0		
9:00 AM 9:15 AM	0	5 4	0	11 5	0	16 9	0	1	19 27	7 7	0 1	27 35	0	2	0	4 2	0 2	6 5	0	5 13	32 32	2 4	0	39 49	88 98
9:30 AM 9:45 AM	0	4 2	0	3 5	0	7	0	4 5	28 31	4 8	1 0	36 44	0	4	0	5 7	0	9 12	0	7	30 27	2	0	39 36	91 99
Hourly Total	ő	15	0	24	2	39	0	11	105	26	2	142	0	12	2	18	2	32	0	32	121	10	0	163	376
10:00 AM	0	3	0	4	1	7	0	4	32	3	1	39	0	6	1	7	0	14	0	4	22	6	0	32	92
10:15 AM 10:30 AM	0	12 4	0	4 11	0	16 16	0	8	35 40	7 1	0	50 44	0	2 5	1	6 5	3	9 10	0	7	21 33	6 1	0	34 37	109 107
10:45 AM	0	3	o O	2	Ö	5	0	3	41	1	ŏ	45	0	3	1	4	2	8	0	5	37	0	0	42	100
Hourly Total	0	22	1	21	1	44	0	18	148	12	1	178	0	16	3	22	5	41	0	19	113	13	0	145	408
11:00 AM 11:15 AM	0	3 0	0	4 2	0	7 3	0	5 5	38 45	3	0	46 53	0	4 1	0	6 11	0	10 12	0	4 5	30 37	2	0	36 43	99 111
11:30 AM	0	10	1	11	1	22	0	8	38	2	ō	48	0	1	0	7	0	8	0	2	51	4	0	57	135
11:45 AM Hourly Total	0	17	3	8 25	2	13 45	0	6 24	40 161	11	1	49 196	0	9	0	32	1	11 41	0	9 20	55 173	11	0	68 204	141 486
12:00 PM	0	2	2	3	0	7	0	4	24	8	0	36	0	2	0	12	5	14	0	R	43	1	0	52	109
12:15 PM	ō	4	1	6	0	11	0	1	41	9	1	51	0	4	0	4	2	8	0	5	40	1	0	46	116
12:30 PM 12:45 PM	0	5 1	0	5 3	0	10 4	0	2 5	37 42	4 8	0	43 55	0	4 1	1 0	6 13	0	11 14	0	3 7	35 36	3 0	0	41 43	105 116
Hourly Total	0	12	3	17	0	32	0	12	144	29	1	185	0	11	1	35	7	47	0	23	154	5	0	182	446
1:00 PM	0	1	0	6	0	7	0	5	32	2	0	39	0	1	0	9	0	10	0	6	38	3	0	47	103
1:15 PM 1:30 PM	0	2	0	3	0	5 5	0	1 1	35 31	3	0	39 35	0	2	0	11 3	1 0	13 6	0	5 4	36 35	4 0	0	45 39	102 85
1:45 PM Hourly Total	0	7	0	3 15	0	5 22	0	3 10	37 135	1 9	0	41 154	0	7	0	4 27	2	5 34	0	2 17	38 147	5 12	0	45 176	96 386
2:00 PM 2:15 PM	0	6 6	0	2 5	3 2	8 11	0	7 4	37 28	1 2	0	45 34	0	2 4	1 0	3 8	0	6 12	0	1 2	31 48	2 6	0	34 56	93 113
2:30 PM 2:45 PM	0	2	0	9	0	11 12	0	11 28	39 120	2 6	0 2	52 154	0	5 5	0	7 9	1 0	12 14	0	2	61 86	5 5	0	68 93	143 273
Hourly Total	0	17	1	24	8	42	0	50	224	11	2	285	0	16	1	27	1	44	0	7	226	18	0	251	622
3:00 PM	0	2	1	3	0	6	0	8	62	2	1	72	0	6	0	18	3	24	0	5	65	5	0	75	177
3:15 PM 3:30 PM	0	7 1	1 0	8	1 0	16 3	0	9 11	82 61	3	1 0	94 75	0	6 4	0	6 8	8	12 12	0	3	45 51	3 8	0	51 62	173 152
3:45 PM	0	3	0	2	0	5	0	9	52	3	0	64	0	2	0	12	0	14	0	5	58	8	0	71	154
Hourly Total	0	13	2	15	1	30	0	37	257	11	2	305	0	18	0	44	11	62	0	16	219	24	0	259	656
4:00 PM	0	4	0	11 3	0	15 7	0	11 7	44 46	3	2	58 54	0	6	1 0	11 6	7	18 11	0	6 7	56 82	6 4	0	68	159 165
4:15 PM 4:30 PM	0	3 3	0	10	0	13	0	17	45	1 4	0	54 66	0	5 4	1	14	6 7	19	0	8	82 82	8	0	93 98	196
4:45 PM Hourly Total	0	4 14	0	5 29	1	9	0	11 46	59 194	5 13	0	75 253	0	6 21	2	14 45	3 23	22 70	0	8 29	88 308	7 25	0	103 362	209 729
5:00 PM 5:15 PM	0	1 2	0	5 5	2 1	6 7	0	10 16	50 41	2 3	0	62 60	0	3 2	0 1	3 2	2 0	6 5	0	3 2	80 81	5 4	0	88 87	162 159
5:30 PM 5:45 PM	0	2	0	2	1 2	4 7	0	8	31 40	0	0	39 51	0	1	2	5 11	7 4	8 13	0	3 2	56 57	10 6	0	69 65	120 136
Hourly Total	0	9	0	15	6	24	0	43	162	7	0	212	0	7	4	21	13	32	0	10	274	25	0	309	577
6:00 PM	0	3	1	14	2	18	0	10	49	6	0	65	0	3	0	10	4	13	0	2	41	2	0	45	141
6:15 PM 6:30 PM	0	2	0	1 2	0	3 4	0	6	52 50	3	1 0	61 57	0	5 1	0	7 12	2	12 14	0	3 2	40 52	4 2	0	47 56	123 131
0.50 FW		-		-		•	ı	-		3	,	٠.		•	•		•			~	-	-	3		

6:45 PM	0	5	0	0	0	5	0	12	60	1	0	73	0	4	0	12	1	16	0	6	50	2	0	58	152
Hourly Total	0	12	1	17	2	30	0	32	211	13	1	256	0	13	1	41	8	55	0	13	183	10	0	206	547
				0																					۱.
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	U	U	U	0	U	0	U	0	U	0	0	0	U	U	0	U	U	U	0	0	0	0	. "
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	Ö	0	0	0	0	0	0	0	Ö	0	Ö	0	0	0	0	0	Ö	0	0	0	0	0	Ö	0
8:15 PM	0	Ö	0	0	0	0	0	0	0	Ö	0	Ö	0	0	0	0	0	Ö	0	0	0	0	0	Ö	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
8:45 PM	0	Ō	0	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
,																									1
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	l _	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1 _
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY TOTAL	0	162	17	245	24	424	0	346	2244	179	15	2769	0	176	20	452	83	648	0	229	2435	170	0	2834	6675
Cars	0	160	16	242	22	418	0	339	2147	176	10	2662	0	170	19	439	61	628	0	226	2349	167	0	2742	6450
Heavy Vehicles	ő	2	1	3	2	6	0	7	97	3	5	107	0	6	1	13	22	20	0	3	86	3	0	92	225
Heavy Vehicle %		1.23%	5.88%	1.22%	8.33%	1.42%	0.00%	2.02%	4.32%	1.68%	33.33%	3.86%	0.00%	3.41%	5.00%	2.88%	26.51%	3.09%	0.00%	1.31%	3.53%	1.76%	0.00%	3.25%	3.37%

Jefferson Parkway & Roosevelt Dr, Northfield, MN Tuesday, October 15, 2024

1			South	oound			I		Westl	ound		M Peak I	l		North	bound		1			Eastb	ound			I
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Approach	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE
7:30 AM	0	0	1	2	0	3	0	17	78	5	1	100	0	4	1	41	3	46	0	4	135	6	0	145	294
7:45 AM	0	4	1	4	0	9	0	3	80	8	1	91	0	7	1	28	1	36	0	9	57	0	0	66	202
8:00 AM	0	4	0	7	0	11	0	9	57	1	0	67	0	4	0	9	3	13	0	3	63	1	0	67	158
8:15 AM	0	6	0	3	1	9	0	7	73	2	1	82	0	3	0	11	0	14	0	1	54	2	0	57	162
Peak Hour Total	0	14	2	16	1	32	0	36	288	16	3	340	0	18	2	89	7	109	0	17	309	9	0	335	816
PHF	0.000	0.583	0.500	0.571	0.250	0.727	0.000	0.529	0.900	0.500	0.750	0.850	0.000	0.643	0.500	0.543	0.583	0.592	0.000	0.472	0.572	0.375	0.000	0.578	0.694

											P	M Peak I	lour												
			South	bound					West	bound					Northb	ound					Eastb	ound			
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Approach	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
2:45 PM	0	3	1	8	3	12	0	28	120	6	2	154	0	5	0	9	0	14	0	2	86	5	0	93	273
3:00 PM	0	2	1	3	0	6	0	8	62	2	1	72	0	6	0	18	3	24	0	5	65	5	0	75	177
3:15 PM	0	7	1	8	1	16	0	9	82	3	1	94	0	6	0	6	8	12	0	3	45	3	0	51	173
3:30 PM	0	1	0	2	0	3	0	11	61	3	0	75	0	4	0	8	0	12	0	3	51	8	0	62	152
Peak Hour Total	0	13	3	21	4	37	0	56	325	14	4	395	0	21	0	41	11	62	0	13	247	21	0	281	775
PHF	0.000	0.464	0.750	0.656	0.333	0.578	0.000	0.500	0.677	0.583	0.500	0.641	0.000	0.875	0.000	0.569	0.344	0.646	0.000	0.650	0.718	0.656	0.000	0.755	0.710

		les On Leg		852	
Vehicl	es Entering Intersection	424		s Exiting ection	428
		South	bound		
Cars	242	16	160	0	22
Heavy	3	1	2	0	2
Total	245	17	162	0	24
	b	<i>\$</i> . ∱			

	Vehicles		Cars	Heavy	Total
Total	Entering Intersection		0	0	0
Vehicles on Leg	2834	Eastbound	0	0	0
5499	Vehicles	Eastb	226	3	229
	Exiting Intersection		2349	86	2435
	2665		167	3	170



	Cars	Heavy	Total		Vehicles		
L	176	3	179		Entering Intersection	Total	
—	2147	97	2244	Westbound	2769	Vehicles on Leg	
•	339	7	346	bound	Vehicles	5818	
5	0	0	0		Exiting Intersection		
济	10	5	15		3049		

	ં.	ๆ	7	1	_
Cars	61	0	170	19	439
Heavy	22	0	6	1	13
Total	83	0	176	20	452
		North	bound		
Vehic	les Entering Intersection	648		s Exiting ection	533
	Total Vehic	cles On Leg		1181	•

Jefferson Parkway & Raider Dr, Northfield, MN Tuesday, October 15, 2024

			Country				1		14141-	Τι	uesday	, Octob	er 15,	2024	N				1		Footbo				1
			South Straight	Bound Right	Crosswalk	Vehicle			Westbo Straight	ound Right	Crosswall	Vehicle			Northi Straight	Right	Crosswalk	Vehicle			Eastbo Straight	Right	Crosswalk	Vehicle	VEHICLE
Time	U Turns	Left Turns	Through	Turns	Crossings	Approach Total	U Turns	Left Turns	Through	Turns	Crossings		U Turns	Left Turns	Through	Turns	Crossings	Approach Total	U Turns	Left Turns	Through	Turns	Crossings		TOTAL
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0		0			0					0						0							
1:00 AM 1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM 1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	Ō	0	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total																			-						
3:00 AM 3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM 4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM 5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	1	0	3	0	4	0	0	8	0	0	8	0	0	0	0	0	0	0	0	12	0	0	12	24
6:15 AM	0	0	0	1	0	1	0	0	15	0	0	15	0	0	0	0	1	0	0	0	14	0	0	14	30
6:30 AM 6:45 AM	0	0	0	2	0	2	0	0	22 28	0 2	0	22 30	0	0	0	0	0	0	0	2 4	18 18	1 1	0	21 23	45 55
Hourly Total	0	1	0	8	0	9	0	0	73	2	0	75	0	0	0	0	1	0	0	6	62	2	0	70	154
7:00 AM	0	4	0	2	0	6	0	0	35	6	0	41	0	0	0	0	2	0	0	11	37	0	0	48	95
7:15 AM 7:30 AM	0	5 1	0	7 37	0	12 38	0	0	65 64	30 64	0 5	95 128	0	0	0	0	0 5	0	0	30 82	41 90	0	0 4	71 174	178 340
7:45 AM	0	9 19	0	8 54	0	17 73	0	2	89 253	18 118	0 5	109 373	0	0	0	0	9	0	0	15 138	75 243	0	1 5	90 383	216 829
Hourly Total														-	-	-	-		-						
8:00 AM 8:15 AM	0	3	0	3 2	2	6 5	0	3 2	59 78	6 6	2	68 86	0	0 1	0	0	0 1	0	0	3 16	69 55	4 3	0 1	76 74	150 166
8:30 AM 8:45 AM	0	1	0	4	0	5	0	1	31 37	14 11	0	46 48	0	0	0	1	0	1 0	0	15 5	30 29	0	0	45 34	97 83
Hourly Total	0	8	0	9	3	17	0	6	205	37	3	248	0	1	0	1	1	2	0	39	183	7	1	229	496
9:00 AM	0	4	0	1	0	5	0	0	28	4	0	32	0	0	0	0	0	0	0	4	36	1	0	41	78
9:15 AM 9:30 AM	0	2	1 0	3 11	0	6 13	0	0	30 25	2	0	32 26	0	1 0	0	2	1 0	3 1	0	6 3	31 36	1 0	0	38 39	79 79
9:45 AM	0	1	ő	3	2	4	0	0	40	3	0	43	0	0	0	0	3	0	0	2	33	0	0	35	82
Hourly Total	0	9	1	18	2	28	0	0	123	10	0	133	0	1	0	3	4	4	0	15	136	2	0	153	318
10:00 AM 10:15 AM	0	7 10	0	5 8	1 0	12 18	0	1 0	34 42	4 5	0	39 47	0	0	0	0	0 2	0	0	3 7	29 32	1 0	0	33 39	84 104
10:30 AM	0	3	0	5	0	8	0	0	41	4	0	45	0	0	0	1	1	1	0	3	39	0	0	42	96
10:45 AM Hourly Total	0	22	0	21	1	5 43	0	2	41 158	2 15	0	44 175	0	0	0	1	32 35	1	0	17	39 139	1	0	43 157	92 376
11:00 AM	0	9	0	7	0	16	0	0	36	1	0	37	0	0	0	0	1	0	0	2	37	0	0	39	92
11:15 AM	0	14	0	13	0	27	0	0	42	4	0	46	0	0	0	0	0	0	0	4	42	0	0	46	119
11:30 AM 11:45 AM	0	6 3	0	11 3	1 0	17 6	0	0	35 47	3 9	0 2	38 56	0	0	0 0	0 0	0 1	0	0	9 8	59 56	0	0 0	68 64	123 126
Hourly Total	0	32	0	34	1	66	0	0	160	17	2	177	0	0	0	0	2	0	0	23	194	0	0	217	460
12:00 PM	0	5	0	4	0	9	0	0	31	19	0	50	0	0	0	0	1	0	0	16	44	0	0	60	119
12:15 PM 12:30 PM	0	3 1	0	9 6	0	12 7	0	0	40 37	3 5	0 29	43 42	0	1 0	0	0	2 29	1 0	0	6 8	43 36	0	0	49 44	105 93
12:45 PM Hourly Total	0	2 11	0	3 22	0	5 33	0	0	50 158	8 35	6 35	58 193	0	1	0	0	6 38	0	0	9 39	43 166	0	0	52 205	115 432
	0	7	0	4	0	11	0	0	33	3	0	36	0	0	0	0	0	0	0	5	43	0	0	48	95
1:00 PM 1:15 PM	0	6	0	4	0	10	0	0	36	1	0	37	0	0	0	0	3	0	0	3	41	3	0	47	94
1:30 PM 1:45 PM	0	4 12	0	6 6	0	10 18	0	0	27 33	3 5	1 0	30 38	0	1 1	0 1	2	0	3	0	2 4	37 40	1 0	0	40 44	83 103
Hourly Total	0	29	0	20	0	49	0	0	129	12	1	141	0	2	1	3	3	6	0	14	161	4	0	179	375
2:00 PM	0	14	0	11	3	25	0	0	33	5	0	38	0	0	0	0	0	0	0	4	38	0	0	42	105
2:15 PM 2:30 PM	0	4 5	0	1 9	2	5 14	0	0	33 44	7 12	0	40 56	0	0	0	0	2 1	0	0	14 19	47 50	0	0	61 69	106 139
2:45 PM	0	41 64	0	73 94	1 8	114 158	1	0	82 192	9	7	92 226	0	0	0	1 1	3 6	1	0	13 50	83 218	2	2	98 270	305 655
Hourly Total																-									
3:00 PM 3:15 PM	0	17 4	0	16 6	2 5	33 10	0	1 7	52 88	9 6	4 0	62 101	0	0	0	0	3 1	0	0	15 3	70 52	2	6 27	87 58	182 169
3:30 PM 3:45 PM	0	3 0	0	13 8	0	16 8	0	0	63 55	5	0	68 64	0	0	0	1	3 6	1	0	6 10	55 61	0	1 2	61 71	146 143
Hourly Total	0	24	0	43	7	67	0	8	258	29	5	295	0	0	0	1	13	1	0	34	238	5	36	277	640
4:00 PM	0	6	0	11	0	17	0	0	47	5	3	52	0	0	0	0	5	0	0	7	66	1	2	74	143
4:15 PM 4:30 PM	0	3	0	3 8	0	6 9	0	0	50 60	4	0	54 65	0	0	0	0	4	0	0	15 9	73 88	1 1	0 2	89 98	149 172
4:45 PM	0	5	0	5	0	10	0	0	68	4	3	72	0	0	0	1	3	1	0	11	95	1	3	107	190
Hourly Total	0	15	0	27	0	42	0	0	225	18	8	243	0	0	0	1	21	1	0	42	322	4	7	368	654
5:00 PM 5:15 PM	0	4 1	0	8 5	2	12 6	0	0	56 53	3	0	59 56	0	0	0	0	0 2	0	0	17 15	67 69	0	1 0	84 84	155 146
5:30 PM	0	3	0	7	1	10	0	1	34	1	1	36	0	0	0	0	7	0	0	7	55	0	0	62	108
5:45 PM Hourly Total	0	12	0	9 29	0 4	13 41	0	2	39 182	9	1 5	42 193	0	0	0	1	10	1	0	11 50	62 253	1	1	74 304	130 539
	0	4	0	11	2	15	0	2	54	12	4	68	0	1	0	0	1	1	0	11	45	0	0	56	140
6:00 PM 6:15 PM	0	5	0	12	0	17	0	0	37	10	3	47	0	1	0	0	0	1	0	25	35	0	0	60	125
6:30 PM	0	7	0	22	0	29	0	0	32	13	0	45	0	0	0	0	1	0	0	16	51	0	0	67	141

6:45 PM	0	6	0	17	1	23	0	0	56	17	25	73	0	0	0	1	2	1	0	29	34	1	0	64	161
Hourly Total	0	22	0	62	3	84	0	2	179	52	32	233	0	2	0	1	4	3	0	81	165	1	0	247	567
	0																								١.
7:00 PM		0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0	0	0	0	0	0	0	0	U
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	Ö	0	0	Ó	0	0	Ö	0	Ó	0	0	o	0	0	0	Ó	0	0	0	0	Ó	0	0	0	o
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
, , , , , , , , , , , , , , , , , , , ,																									1
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	n	n	0	0	0	o	n	n	n	n	n	o	0	n	n	n	0	o	ň	ň	0	n	0	o	1 0
10:30 PM	n	n	ñ	n	0	0	n	0	n	n	n	ō	n	0	n	n	0	n	ň	n	n	n	n	ō	ıŏ
10:45 PM	0	n	0	0	0	0	n	0	0	n	n	o	n	Ö	Ö	n	0	n	ň	n	n	Ö	0	o	ıŏ
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
,	_						_						_												1
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	O	0	0	0	Ö	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY TOTAL	0	268	1	441	29	710	1	22	2295	387	103	2705	0	7	1	13	147	21		548	2480	31	52	3059	6495
Cars	0	261	Ö	404	25	665	1	9	2229	373	99	2612	0	7	i	11	112	19	0	531	2414	21	46	2966	6262
Heavy Vehicles	0	7	1	37	4	45	0	13	66	14	4	93	0	O	ò	2	35	2	0	17	66	10	6	93	233
Heavy Vehicle %		2.61%	100.00%	8.39%	13.79%	6.34%	0.00%	59.09%	2.88%	3.62%	3.88%	3.44%	0.00%	0.00%	0.00%	15.38%	23.81%	9.52%	0.00%	3.10%	2.66%	32.26%	11.54%	3.04%	3.59%

Jefferson Parkway & Raider Dr, Northfield, MN Tuesday, October 15, 2024

											Α	M Peak I	Hour												
			South	bound			1		West	bound			1		North	ound					Eastb	ound			l
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:15 AM	0	5	0	7	0	12	0	0	65	30	0	95	0	0	0	0	0	0	0	30	41	0	0	71	178
7:30 AM	0	1	0	37	0	38	0	0	64	64	5	128	0	0	0	0	5	0	0	82	90	2	4	174	340
7:45 AM	0	9	0	8	0	17	0	2	89	18	0	109	0	0	0	0	2	0	0	15	75	0	1	90	216
8:00 AM	0	3	0	3	2	6	0	3	59	6	2	68	0	0	0	0	0	0	0	3	69	4	0	76	150
Peak Hour Total	0	18	0	55	2	73	0	5	277	118	7	400	0	0	0	0	7	0	0	130	275	6	5	411	884
PHF	0.000	0.500	0.000	0.372	0.250	0.480	0.000	0.417	0.778	0.461	0.350	0.781	0.000	0.000	0.000	0.000	0.350	0.000	0.000	0.396	0.764	0.375	0.313	0.591	0.650

											P	M Peak I	lour												
			South	oound					West	bound					Northb	ound					Eastb	ound			
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Approach	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
2:45 PM	0	41	0	73	1	114	1	0	82	9	7	92	0	0	0	1	3	1	0	13	83	2	2	98	305
3:00 PM	0	17	0	16	2	33	0	1	52	9	4	62	0	0	0	0	3	0	0	15	70	2	6	87	182
3:15 PM	0	4	0	6	5	10	0	7	88	6	0	101	0	0	0	0	1	0	0	3	52	3	27	58	169
3:30 PM	0	3	0	13	0	16	0	0	63	5	0	68	0	0	0	1	3	1	0	6	55	0	1	61	146
Peak Hour Total	0	65	0	108	8	173	1	8	285	29	11	323	0	0	0	2	10	2	0	37	260	7	36	304	802
PHF	0.000	0.396	0.000	0.370	0.400	0.379	0.250	0.286	0.810	0.806	0.393	0.800	0.000	0.000	0.000	0.500	0.833	0.500	0.000	0.617	0.783	0.583	0.333	0.776	0.657

		les On Leg		1646	
Vehicl	es Entering Intersection	710		s Exiting ection	936
		South	bound		
Cars	404	0	261	0	25
Heavy	37	1	7	0	4
Total	441	1	268	0	29
	J	1	J	b	<i>&</i>

	Vehicles		Cars	Heavy	Total	1
Total	Entering Intersection		46	6	52	
Vehicles on Leg	3059	Eastbound	0	0	0	
5802	Vehicles	Eastb	531	17	548	
	Exiting Intersection		2414	66	2480	
	2743		21	10	31	



	Cars	Heavy	Total		Vehicles	
L	373	14	387		Entering Intersection	Total
—	2229	66	2295	Westbound	2705	Vehicles on Leg
•	9	13	22	ound	Vehicles	5467
5	1	0	1		Exiting Intersection	
济	99	4	103		2762	

	态序	J	7	1	~
Cars	112	0	7	1	11
Heavy	35	0	0	0	2
Total	147	0	7	1	13
		North	bound		
Vehicl	es Entering Intersection	21		s Exiting ection	54
	Total Vehic	les On Leg		75	

Jefferson Parkway & Bunker Dr East Bus Access, Northfield, MN Tuesday, October 15, 2024

	ĺ		Southb	ound		i			Westh	Τι	uesday,	Octob	er 15,	2024	Northi	hound		ĺ	l		Eastb	ound		ĺ	1
_			Straight	Right	Crosswalk	Vehicle			Straight	Right	Crosswalk	Vehicle			Straight	Right	Crosswalk	Vehicle			Straight	Right	Crosswalk	Vehicle	VEHICLE
Time		Left Turns	Through	Turns	Crossings	Approach Total		Left Turns	Through	Turns	Crossings	Approach Total		Left Turns	Through	Turns	Crossings	Approach Total		Left Turns	Inrougn	Turns	Crossings	Approach Total	TOTAL
12:00 AM 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM 1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM 3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM 3:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0	0
4:15 AM 4:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM 5:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 AM 5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM	0	0	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	0	0	13	0	0	13	21
6:15 AM 6:30 AM	0	0	0	0	0	0	0	0	15 22	0	0	15 22	0	0	0	0	0	0	0	0	14 17	0	0	14 17	29 39
6:45 AM	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0	0	0	0	0	0	19	0	0	19	49
Hourly Total	0	0	0	0	0	0	0	0	75	0	0	75	0	0	0	0	0	0	0	0	63	0	0	63	138
7:00 AM 7:15 AM	0	0	0	0	0	0	0	0	41 98	0	0	41 98	0	0	0	0	0	0	0	0	41 46	0	0	41 46	82 144
7:30 AM	0	0	0	0	0	0	0	0	127	0	0	127	0	0	0	Ō	2	0	0	0	89	0	0	89	216
7:45 AM Hourly Total	0	0	0	0	0	0	0	0	105 371	0	0	105 371	0	1	0	0	3	1	0	0	86 262	0	0	86 262	192 634
8:00 AM	0	0	0	0	0	0	0	0	61	0	0	61	0	4	0	0	0	4	0	0	72	0	0	72	137
8:15 AM	0	0	0	0	0	0	0	0	81	0	0	81	0	4	0	5	1	9	0	0	59	0	0	59	149
8:30 AM 8:45 AM	0	0	0	0	0 0	0 0	0	0	40 48	0 0	0 0	40 48	0	0 0	0	0 0	0	0	0	0	32 29	0	0 0	32 29	72 77
Hourly Total	0	0	0	0	0	0	0	0	230	0	0	230	0	8	0	5	1	13	0	0	192	0	0	192	435
9:00 AM 9:15 AM	0	0	0	0	0	0	0	0	32 33	0	0	32 33	0	0	0	0	0	0	0	0	41 34	0	0	41 34	73 67
9:30 AM	0	0	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	0	0	39	0	0	39	63
9:45 AM Hourly Total	0	0	0	0	0	0	0	0	43 132	0	0	43 132	0	0	0	0	1	0	0	0	33 147	0	0	33 147	76 279
10:00 AM	0	0	0	0	0	0	0	0	39	0	0	39	0	0	0	0	0	0	0	0	36	0	0	36	75
10:15 AM	0	0	0	0	0	0	0	0	47	0	2	47	0	0	0	1	4	1	0	0	40	0	0	40	88
10:30 AM 10:45 AM	0	0 0	0	0	0	0	0	0	46 44	0 0	0 0	46 44	0	0 0	0	0 0	1 1	0	0	0 0	45 41	0	0 0	45 41	91 85
Hourly Total	0	0	0	0	0	0	0	0	176	0	2	176	0	0	0	1	6	1	0	0	162	0	0	162	339
11:00 AM	0	0	0	0	0	0	0	0	39 44	0	0	39 44	0	0	0	0	1 0	0	0	0	44 58	0	0	44 58	83 102
11:15 AM 11:30 AM	0	0	0	0	0	0	0	0	37	0	0	37	0	0	0	0	0	0	0	0	65	0	0	65	102
11:45 AM Hourly Total	0	0	0	0	0	0	0	0	56 176	0	0	56 176	0	0	0	0	2	0	1	0	57 224	0	0	58 225	114 401
12:00 PM	0	0	0	0	0	0	0	0	49	0	0	49	0	0	0	0	1	0	0	0	49	0	0	49	98
12:15 PM	0	Ö	0	0	0	0	0	0	43	0	0	43	0	0	Ö	0	2	0	0	0	47	0	0	47	90
12:30 PM 12:45 PM	0	0	0	0	0	0	0	0	44 57	0	0	44 57	0	0	0	0	0	0	0	0	37 44	0	0	37 44	81 101
Hourly Total	0	0	0	0	0	0	0	0	193	0	0	193	0	0	0	0	3	0	0	0	177	0	0	177	370
1:00 PM 1:15 PM	0	0	0	0	0	0	0	0	35 37	0	0	35 37	0	0	0	0	0	0	0	0	50 47	0	0	50 47	85 84
1:30 PM	0	0	0	0	0	0	0	0	30	0	0	30	0	0	0	0	0	0	0	0	43	0	0	43	73
1:45 PM Hourly Total	0	0	0	0	0	0	0	0	38 140	0	0	38 140	0	0	0	0	3	0	0	0	52 192	0	0	52 192	90 332
2:00 PM	0	0	0	0	0	0	0	0	34	0	0	34	0	0	0	0	0	0	0	0	53	0	0	53	87
2:15 PM	0	0	0	0	0	0	0	0	40	0	0	40	0	0	0	0	2	0	0	0	51	0	0	51	91
2:30 PM 2:45 PM	0	0 0	0	0	0	0	0	0	55 89	0	0 0	55 89	0	0	0	0 0	1 2	0	0	0	57 125	0	0 0	57 125	112 214
Hourly Total	0	0	0	0	0	0	0	0	218	0	0	218	0	0	0	0	5	0	0	0	286	0	0	286	504
3:00 PM	0	0	0	0	0	0	0	0	60	0	0	60	0	0	0	0	1	0	0	0	86	0	2	86	146
3:15 PM 3:30 PM	0	0	0	0	0	0	0	0	94 68	0	0	94 68	0	9	0	4 0	1 3	13 0	0	0	55 60	0	0	55 60	162 128
3:45 PM Hourly Total	0	0	0	0	0	0	0	0	61 283	0	0	61 283	0	9	0	0 4	5 10	0 13	0	0	59 260	0	3	59 260	120 556
	0	0	0	0	0	0	0	0	51	0	0	51	l -	0	0	1	2	1	0	0	73	0	0	73	125
4:00 PM 4:15 PM	0	0	0	0	0	0	0	0	53	0	0	53	0	0	0	1	4	1	0	0	76	0	0	76	130
4:30 PM 4:45 PM	0	0	0	0	0	0	0	0	66 71	0	0	66 71	0	0	0	1 0	3 0	1 0	0	0	90 101	0	0	90 101	157 172
Hourly Total	0	0	0	0	0	0	0	0	241	0	0	241	0	0	0	3	9	3	0	0	340	0	0	340	584
5:00 PM	0	0	0	0	0	0	0	0	59	0	0	59	0	0	0	0	3	0	0	0	70	0	0	70	129
5:15 PM 5:30 PM	0	0	0	0	0	0	0	0	56 34	0	1 1	56 34	0	0	0	0 1	3 11	0 1	0	0	69 58	0	0 1	69 58	125 93
5:45 PM Hourly Total	0	0	0	0	0	0	0	0	41 190	0	0 2	41 190	0	0	0	1 2	2 19	1 2	0	0	67 264	1	0	68 265	110 457
6:00 PM 6:15 PM	0	0	0	0	0	0	0	0	67 46	0	0	67 46	0	0	0	1 0	4 1	1 0	0	0	48 40	0	2 0	48 40	116 86
6:30 PM	0	0	0	0	0	0	0	0	46	0	0	46	0	0	0	0	1	0	0	0	58	0	0	58	104

6:45 PM	I 0	0	0	0	0	0	I 0	1	70	0	0	71	I 0	1	0	0	2	1	I 0	0	41	0	0	41	113
Hourly Total	0	0	0	0	0	0	0	1	229	0	0	230	0	1	0	1	8	2	0	0	187	0	2	187	419
	_		_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	1 -
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	Ö	0	0	0	0	0	0	0	Ö	0	Ö	0	0	0	0	0	Ö	0	0	0	0	0	0	0
8:15 PM	0	Ö	0	0	0	0	0	0	0	Ö	0	Ö	0	0	0	0	0	Ö	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0	Ó	0	o	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
,																									1
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	ō	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	ō	0	0	0	0	0	0	0	0	0	0	ō	0	ō	0	ō	0	ō	0	0	0	0	0	o	0
10:45 PM	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-00 PM																	0				0		0		
11:00 PM	0	0	0	0	0	0	0	U	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11:30 PM		0	0	0	0	•	0	0	0	0	0		0	-	0	0	0	0	0	0	0	0	0	0	
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY TOTAL	0	0	0	0	0	0	0	1	2654	0	4	2655	0	19	0	16	70	35	1	0	2756	1	6	2758	5448
Cars	0	0	0	0	0	0	0	1	2581	0	4	2582	0	4	0	9	38	13	1	0	2681	1	6	2683	5278
Heavy Vehicles	0	0	0	0	0	0	0	0	73	0	0	73	0	15	0	7	32	22	0	0	75	0	0	75	170
Heavy Vehicle %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.75%	0.00%	0.00%	2.75%	0.00%	78.95%	0.00%	43.75%	45.71%	62.86%	0.00%	0.00%	2.72%	0.00%	0.00%	2.72%	3.12%

Jefferson Parkway & Bunker Dr East Bus Access, Northfield, MN Tuesday, October 15, 2024

											Α	M Peak I	Hour												
			South	bound			1		West	bound			1		Northb	ound					Eastb	ound		ļ	ĺ
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:30 AM	0	0	0	0	0	0	0	0	127	0	0	127	0	0	0	0	2	0	0	0	89	0	0	89	216
7:45 AM	0	0	0	0	0	0	0	0	105	0	0	105	0	1	0	0	1	1	0	0	86	0	0	86	192
8:00 AM	0	0	0	0	0	0	0	0	61	0	0	61	0	4	0	0	0	4	0	0	72	0	0	72	137
8:15 AM	0	0	0	0	0	0	0	0	81	0	0	81	0	4	0	5	1	9	0	0	59	0	0	59	149
Peak Hour Total	0	0	0	0	0	0	0	0	374	0	0	374	0	9	0	5	4	14	0	0	306	0	0	306	694
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.736	0.000	0.000	0.736	0.000	0.563	0.000	0.250	0.500	0.389	0.000	0.000	0.860	0.000	0.000	0.860	0.803

											P	M Peak I	lour												
			South	oound					West	bound					Northb	ound					Eastb	ound			
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
2:45 PM	0	0	0	0	0	0	0	0	89	0	0	89	0	0	0	0	2	0	0	0	125	0	0	125	214
3:00 PM	0	0	0	0	0	0	0	0	60	0	0	60	0	0	0	0	1	0	0	0	86	0	2	86	146
3:15 PM	0	0	0	0	0	0	0	0	94	0	0	94	0	9	0	4	1	13	0	0	55	0	0	55	162
3:30 PM	0	0	0	0	0	0	0	0	68	0	0	68	0	0	0	0	3	0	0	0	60	0	0	60	128
Peak Hour Total	0	0	0	0	0	0	0	0	311	0	0	311	0	9	0	4	7	13	0	0	326	0	2	326	650
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.827	0.000	0.000	0.827	0.000	0.250	0.000	0.250	0.583	0.250	0.000	0.000	0.652	0.000	0.250	0.652	0.759

Vehicl	Total Vehic les Entering Intersection	iles On Leg 0	Vehicle	0 s Exiting section	0
		South	bound		
Cars	0	0	0	0	0
Heavy	0	0	0	0	0
Total	0	0	0	0	0
	J	\top	J	b	& ∱

	Vehicles		Cars	Heavy	Total	Ì
Total	Entering Intersection		6	0	6	1
Vehicles on Leg	2758	Eastbound	1	0	1	1
5432	Vehicles	Eastb	0	0	0	
	Exiting Intersection		2681	75	2756	
	2674		1	0	1	1

	Cars	Heavy	Total		Vehicles	
L	0	0	0		Entering Intersection	Total
←	2581	73	2654	Westbound	2655	Vehicles on Leg
•	1	0	1	bound	Vehicles	5427
5	0	0	0		Exiting Intersection	
炕	4	0	4		2772	

	态序	ŋ	7	1	~
Cars	38	0	4	0	9
Heavy	32	0	15	0	7
Total	70	0	19	0	16
			bound		
Vehicl	es Entering Intersection	35		s Exiting ection	2
	Total Vehic	les On Leg		37	

Jefferson Parkway & Bunker Dr E (East Access), Northfield, MN Tuesday, October 15, 2024

	ı		C41-1				i		14141-	Τι	ıesday	, Octob	er 15,	2024	81 L	h			1		F41-				i i
			South! Straight	bound Right	Crosswalk	Vehicle			Westb Straight	Right	Crosswalk	Vehicle			Northi Straight	bound Right	Crosswalk	Vehicle			Eastbo Straight	ound Right	Crosswalk	Vehicle	VEHICLE
Time	U Turns	Left Turns	Through	Turns	Crossings	Approach Total	U Turns	Left Turns	Through	Turns	Crossings		U Turns	Left Turns	Through	Turns	Crossings		U Turns	Left Turns	Through	Turns	Crossings	Approach Total	TOTAL
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0				0		0		0				0											0	0
1:00 AM 1:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 AM 1:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	ő	ō	0	0	0	0	0	ō	ō	0	ō	ō	0	ō	0	0	0	0	0	0	0	0	ō	0	0
2:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 AM 2:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 AM 3:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 AM Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 AM 4:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 AM 5:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 AM 6:15 AM	0	0	0	0	0	0	0	0	8 16	0	0	8 16	0	0	0	0	0	0	0	0	13 14	0	0	13 14	21 30
6:30 AM	0	1	0	0	0	1	0	0	19	0	0	19 28	0	2	0	2	0	4	0	1	16	0	0	17	41
6:45 AM Hourly Total	0	1	0	0	0	1	0	0	28 71	0	0	28 71	0	5	0	6	0	7 11	0	1	19 62	0	0	19 63	54 146
7:00 AM	0	0	0	0	1	0	0	0	33	0	0	33	0	8	0	14	0	22	0	0	41	0	0	41	96
7:15 AM	0	0	0	0	0	0	0	0	87	1	0	88	0	12	0	11	0	23	0	0	46	0	0	46	157
7:30 AM 7:45 AM	0	0	0	0 1	0	0 1	0	0	124 89	0	0	124 89	0	5 14	0	2 12	2	7 26	0	2 1	85 87	0	0	87 88	218 204
Hourly Total	0	0	0	1	1	1	0	0	333	1	0	334	0	39	0	39	4	78	0	3	259	0	0	262	675
8:00 AM	0	1	0	0	1	1	0	0	50	1	0	51	0	12	0	35	0	47	0	2	69	0	0	71	170
8:15 AM 8:30 AM	0	0	0	0	1 0	2 0	0	0	64 39	1	0	65 40	0	15 1	0	53 3	1 0	68 4	0	4 1	60 31	0	0	64 32	199 76
8:45 AM Hourly Total	0	3	0	0	2	3	0	0	46 199	0	0	46 202	0	30	0	93	1 2	4 123	0	7	29 189	0	0	29 196	79 524
						-	_			-					-										
9:00 AM 9:15 AM	0	0	0	0	0	0	0	0	32 32	0	0	32 32	0	0 1	0	1	0 1	1 2	0	0 1	41 33	0	0	41 34	74 68
9:30 AM 9:45 AM	0	2	0	0	0	2	0	0	24 42	0	0	24 42	0	1	0	0	0	1 2	0	1	39 33	0	0	40 33	67 77
Hourly Total	ő	2	0	0	2	2	0	ō	130	0	ō	130	0	3	0	3	2	6	0	2	146	0	ō	148	286
10:00 AM	0	0	0	0	1	0	0	0	38	0	0	38	0	1	0	3	1	4	0	0	37	0	0	37	79
10:15 AM 10:30 AM	0	0 1	0	0	0	0	0	0	47 44	0	0	47 44	0	1	0	2	4 1	3	0	0	41 44	0	2	41 45	91 93
10:45 AM	0	o o	0	0	0	ò	0	0	39	0	0	39	0	6	0	0	<u>i</u>	6	0	ó	41	0	0	41	86
Hourly Total	0	1	0	0	1	1	0	0	168	0	0	168	0	9	0	/	7	16	0	1	163	0	2	164	349
11:00 AM 11:15 AM	0	0	0	0	0	0	0	0	36 41	0	0	36 41	0	2	0	3 2	1	5 5	0	0	42 56	0	0	42 58	83 104
11:30 AM	0	0	0	0	1	0	0	0	36	0	o O	36	0	2	0	2	0	4	0	0	66	0	0	66	106
11:45 AM Hourly Total	0	0	0	0	3	0	0	0	50 163	0	1	50 163	0	5 12	0	8	4	6 20	0	2	56 220	0	1 1	56 222	112 405
12:00 PM	0	0	0	0	0	0	0	0	48	0	0	48	0	0	0	2	1	2	0	0	50	0	0	50	100
12:15 PM	0	0	0	0	0	0	0	ō	41	2	ō	43	0	2	0	3	2	5	0	1	46	0	0	47	95
12:30 PM 12:45 PM	0	0	0	0	0 1	0	0	0	36 55	1 0	0	37 55	0	5 2	0	0 1	0	5 3	0	0	37 45	0	0	37 45	79 103
Hourly Total	0	0	0	0	1	0	0	0	180	3	0	183	0	9	0	6	3	15	0	1	178	0	0	179	377
1:00 PM	0	0	0	0	0	0	0	0	32	0	0	32	0	3	0	2	0	5	0	0	50	0	0	50	87
1:15 PM 1:30 PM	0	1 0	0	0	0	1 0	0	0	34 29	0	0	34 29	0	3 1	0	0 2	2 1	3	0	0	46 43	0	0 1	46 43	84 75
1:45 PM Hourly Total	0	0	0	0	0	0	0	0	37 132	1 1	0	38 133	0	1 8	0	0	0	1 12	0	1 1	51 190	0	0	52 191	91 337
																•				·					
2:00 PM 2:15 PM	0	0 1	0	0	2	0 1	0	0	33 40	0	0	33 40	0	1	0	1 2	1	2	0	1	52 50	0	0	53 51	88 95
2:30 PM 2:45 PM	0	0	0	0	2	0	0	0	55 88	0	0 4	55 91	0	1	0	0	1 6	1 2	0	0 2	54 123	0	0	54 125	110 220
Hourly Total	0	1	0	2	8	3	0	0	216	3	4	219	0	3	0	5	9	8	0	4	279	0	0	283	513
3:00 PM	0	0	0	0	0	0	0	0	58	1	1	59	0	3	0	6	2	9	0	1	87	0	0	88	156
3:15 PM	0	1	0	0	0	1	0	0	67	1	2	68	0	26	0	46	0	72	0	0	60	0	0	60	201
3:30 PM 3:45 PM	0	2 1	0	0	0	2 1	0	0	47 56	0	0	48 56	0	21 6	0	18 11	3 4	39 17	0	0 2	61 56	0	0	61 58	150 132
Hourly Total	0	4	0	0	0	4	0	0	228	3	3	231	0	56	0	81	9	137	0	3	264	0	0	267	639
4:00 PM	0	1	0	0	0	1	0	0	44 48	0	0	44 49	0	7 6	0	10 3	0 4	17 9	0	1	74 73	0	0	75 73	137 131
4:15 PM 4:30 PM	0	0 1	0	0	0	0 1	0	0	52	1 0	0	52	0	14	0	12	6	26	0	0	92	0	0	73 92	171
4:45 PM Hourly Total	0	2	0	0	0	2	0	0	62 206	0	0	62 207	0	12 39	0	11 36	0 10	23 75	0	0	102 341	0	0	102 342	187 626
							-													•					
5:00 PM 5:15 PM	0	0	0	0	1	0	0	0	51 54	0 1	0	51 55	0	6 2	0	4 2	1 5	10 4	0 1	1	68 67	0	0 1	69 69	130 128
5:30 PM 5:45 PM	0	1 0	0	1 0	0	2	0	0	32 37	1 0	1 0	33 37	0	2	1	4 5	7 0	7 9	0	0 1	60 66	0	0	60 67	102 113
Hourly Total	0	1	0	1	3	2	0	0	174	2	1	176	0	14	1	15	13	30	1	3	261	0	1	265	473
6:00 PM	0	0	0	0	4	0	0	0	50	1	0	51	0	16	0	19	4	35	1	0	48	0	0	49	135
6:15 PM 6:30 PM	0	0	0	0	3	0	0	0	44 46	0	0	44 46	0	2	0	3 1	1	5 1	0	0	39 56	0	0	39 58	88 105
0.50 FW	. ~		Ü	_	ū	•		Ü		3	,				Ü		•	•			50		~		

6:45 PM	I 0	0	0	0	0	0	Ιn	0	48	0		48	I 0	23	0	13	2	36	I 0	0	41	0	0	41	125
	0	0	0	0	7	0	0	0	188	1	1	189	0	41	0	36	8	77	2	0	184	1	0	187	453
Hourly Total	U	U	U	U	,	U	U	U	100	'	'	109	U	41	U	30	٥	//	2	U	104	'	U	107	453
7:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 PM	0	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	Ö	0	0	Ö	0
9:30 PM	0	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	Ö	0	0	Ö	0
9:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY TOTAL	0	16	0	4	30	20	0	0	2388	18	10	2406	0	268	1	339	74	608	3	29	2736	1	5	2769	5803
Cars	0	13	ō	4	21	17	0	Ō	2312	16	9	2328	0	267	1	338	45	606	3	25	2658	1	5	2687	5638
Heavy Vehicles	0	3	0	0	9	3	0	0	76	2	1	78	0	1	0	1	29	2	0	4	78	0	0	82	165
Heavy Vehicle %	0.00%	18.75%	0.00%	0.00%	30.00%	15.00%	0.00%	0.00%	3.18%	11.11%	10.00%	3.24%	0.00%	0.37%	0.00%	0.29%	39.19%	0.33%	0.00%	13.79%	2.85%	0.00%	0.00%	2.96%	2.84%

Jefferson Parkway & Bunker Dr E (East Access), Northfield, MN Tuesday, October 15, 2024

											Α	M Peak I	lour												
			South	oound					Westk	ound					North	oound					Eastb	ound		ı	1
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
7:30 AM	0	0	0	0	0	0	0	0	124	0	0	124	0	5	0	2	2	7	0	2	85	0	0	87	218
7:45 AM	0	0	0	1	0	1	0	0	89	0	0	89	0	14	0	12	2	26	0	1	87	0	0	88	204
8:00 AM	0	1	0	0	1	1	0	0	50	1	0	51	0	12	0	35	0	47	0	2	69	0	0	71	170
8:15 AM	0	2	0	0	1	2	0	0	64	1	0	65	0	15	0	53	1	68	0	4	60	0	0	64	199
Peak Hour Total	0	3	0	1	2	4	0	0	327	2	0	329	0	46	0	102	5	148	0	9	301	0	0	310	791
PHF	0.000	0.375	0.000	0.250	0.500	0.500	0.000	0.000	0.659	0.500	0.000	0.663	0.000	0.767	0.000	0.481	0.625	0.544	0.000	0.563	0.865	0.000	0.000	0.881	0.907

											P	M Peak I	lour												
			South	oound					West	bound					Northb	ound					Eastb	ound			1
Time	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	U Turns	Left Turns	Straight Through	Right Turns	Crosswalk Crossings	Vehicle Approach Total	VEHICLE TOTAL
2:45 PM	0	0	0	2	1	2	0	0	88	3	4	91	0	0	0	2	6	2	0	2	123	0	0	125	220
3:00 PM	0	0	0	0	0	0	0	0	58	1	1	59	0	3	0	6	2	9	0	1	87	0	0	88	156
3:15 PM	0	1	0	0	0	1	0	0	67	1	2	68	0	26	0	46	0	72	0	0	60	0	0	60	201
3:30 PM	0	2	0	0	0	2	0	0	47	1	0	48	0	21	0	18	3	39	0	0	61	0	0	61	150
Peak Hour Total	0	3	0	2	1	5	0	0	260	6	7	266	0	50	0	72	11	122	0	3	331	0	0	334	727
PHF	0.000	0.375	0.000	0.250	0.250	0.625	0.000	0.000	0.739	0.500	0.438	0.731	0.000	0.481	0.000	0.391	0.458	0.424	0.000	0.375	0.673	0.000	0.000	0.668	0.826

Vehicl	Total Vehic es Entering Intersection			68 s Exiting section	48
		South	bound		
Cars	4	0	13	0	21
Heavy	0	0	3	0	9
Total	4	0	16	0	30
	J	1	J	b	<i>\$</i> . *

Total	Vehicles Entering Intersection	Entering	Cars	Heavy	Total
			5	0	5
Vehicles on Leg	2769		3	0	3
5432	Vehicles	Eastb	25	4	29
	Exiting Intersection		2658	78	2736
	2663		1	0	1

	Ouio	110017	· otal		Vehicles	
L	16	2	18		Entering Intersection	Total
1	2312	76	2388	Westbound	2406	Vehicles on Leg
ţ	0	0	0	ound	Vehicles	5497
4	0	0	0		Exiting Intersection	
<i>\$</i> : *	9	1	10		3091	

	态片	ๆ	7	1	_
Cars	45	0	267	1	338
Heavy	29	0	1	0	1
Total	74	0	268	1	339
	Northbound				
Vehicl	Vehicles Entering 608 Vehicles Exiting 1 Intersection 1				1
	Total Vehicles On Leg			609	•

Appendix B: Speed Data

For Project: NorthFieldA

Project Notes:

Location/Name: Incoming

Report Generated: 10/17/2024 4:59:46 PM

Speed Intervals 1 MPH Time Intervals Instant

Traffic Report From 10/14/2024

85th Percentile Speed 34 MPH 85th Percentile Vehicles

5011 Max Speed 66 MPH

Total Vehicles 5895 AADT: 3010

Volumes -

weekly counts

Time 5 Day 7 Day Average Daily 1965 1965 AM Peak 266 266 8:00 AM PM Peak 4:00 PM 350 350

5:00:00 PM

on

to

Speed

Speed Limit: 35 85th Percentile Speed: 34

30 50th Percentile Speed: 10 MPH Pace Interval: 25.0 MPH

Average Speed: 30.06

Friday Monday Tuesday Wednesday Thursday Saturday Sunday Count over limit 41 181 130 N/A N/A N/A N/A % over limit 6.0 5.6 6.6 N/A N/A N/A N/A Avg Speeder 37.2 37.8 37.6 N/A N/A N/A N/A Avg Speed 30.7 30.0 30.0 N/A N/A N/A N/A

through

10/15/2024

35.0 MPH

10/16/2024

10:20:43 PM

3:59:59 PM

Class Counts

Number % 96 VEH SM 1.6 VEH_MED 5484 93 VEH_LG 315 5.3

[VEH_SM=motorcycle, VEH_MED = sedan, VEH_LG = truck] For Project: NorthFieldB

Project Notes:

Location/Name: Incoming

Report Generated: 10/17/2024 4:53:59 PM

Speed Intervals 1 MPH

Time Intervals Instant

Traffic Report From 10/14/2024

85th Percentile Speed 34 MPH 85th Percentile Vehicles 4306

Max Speed 49 MPH on 10/15/2024

5:00:00 PM

through

36.0 MPH

Total Vehicles 5066 AADT: 2586

Volumes -

weekly counts

Time 5 Day 7 Day Average Daily 1688 1688 AM Peak 250 250 8:00 AM PM Peak 2:00 PM 226 226

to

Speed

Speed Limit: 35 85th Percentile Speed: 34 50th Percentile Speed: 31

10 MPH Pace Interval: 26.0 MPH

Average Speed: 30.85

Friday Monday Tuesday Wednesday Thursday Saturday Sunday 26 Count over limit 164 152 N/A N/A N/A N/A % over limit 5.4 6.1 8.1 N/A N/A N/A N/A Avg Speeder 37.1 37.4 37.5 N/A N/A N/A N/A Avg Speed 30.5 30.8 31.0 N/A N/A N/A N/A

10/16/2024

3:17:24 PM

3:59:59 PM

Class Counts

Number % 43 VEH SM 0.8 VEH_MED 4870 96.1 VEH_LG 153 3

[VEH_SM=motorcycle, VEH_MED = sedan, VEH_LG = truck] Appendix C: Crash Analysis Worksheets

Intersection: Jefferson Parkway and Roosevelt Dr

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity				
Fatal (K)	0			
Serious Injury (A)	0			
Minor Injury (B)	1			
Possible Injury (C)	1			
Property Damage (PDO)	2			
Total Crashes	4			

Intersection Characteristics				
Entering Volume	6,675			
Environment	Urban			
Lighting	Lit			
Traffic Control	Thru-Stop			

Annual crash cost = \$82,000

Statewide comparison = Urban, Thru/STOP

Total Crash Rate				
Observed	0.328			
Statewide Average	0.138			
Critical Rate	0.450			
Critical Index	0.73			

Fatal & Serious Injury Crash Rate			
Observed	0.000		
Statewide Average	0.350		
Critical Rate	6.620		
Critical Index 0.00			

The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).

The observed total crash rate for this period is 0.33 per MEV; this is 27% below the critical rate. Based on similar statewide intersections, an additional 2 crashes over the five years would indicate this intersection operates outside the normal range.

Intersection: Jefferson Parkway and Raider Dr

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity				
Fatal (K)	0			
Serious Injury (A)	0			
Minor Injury (B)	0			
Possible Injury (C)	0			
Property Damage (PDO)	3			
Total Crashes	3			

Intersection Characteristics				
Entering Volume	6,495			
Environment	Urban			
Lighting	Lit			
Traffic Control	Thru-Stop			

Annual crash cost = \$9,000

Statewide comparison = Urban, Thru/STOP

Total Crash Rate				
Observed	0.253			
Statewide Average	0.138			
Critical Rate	0.460			
Critical Index	0.55			

Fatal & Serious Injury Crash Rate			
Observed	0.000		
Statewide Average	0.350		
Critical Rate	6.770		
Critical Index 0.00			

The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).

The observed total crash rate for this period is 0.25 per MEV; this is 45% below the critical rate. Based on similar statewide intersections, an additional 3 crashes over the five years would indicate this intersection operates outside the normal range.

Intersection: Jefferson Parkway and Bunker Dr East Bus Access

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity		
Fatal (K)	0	
Serious Injury (A)	0	
Minor Injury (B)	0	
Possible Injury (C)	0	
Property Damage (PDO)	0	
Total Crashes	0	

Intersection Characteristics		
Entering Volume	5,448	
Environment	Urban	
Lighting	Lit	
Traffic Control	Thru-Stop	

Annual crash cost = \$0

Statewide comparison = Urban, Thru/STOP

Total Crash Rate		
Observed	0.000	
Statewide Average	0.138	
Critical Rate	0.490	
Critical Index	0.00	

Fatal & Serious Injury Crash Rate		
Observed	0.000	
Statewide Average	0.350	
Critical Rate	7.780	
Critical Index	0.00	

The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).

The observed total crash rate for this period is 0.00 per MEV; this is 100% below the critical rate. Based on similar statewide intersections, an additional 5 crashes over the five years would indicate this intersection operates outside the normal range.

Intersection: Jefferson Parkway and Bunker Dr East Access

Statewide Averages based on 2018-2022 crashes

Crashes by Crash Severity		
Fatal (K)	0	
Serious Injury (A)	0	
Minor Injury (B)	0	
Possible Injury (C)	0	
Property Damage (PDO)	1	
Total Crashes	1	

Intersection Characteristics		
Entering Volume	5,803	
Environment	Urban	
Lighting	Lit	
Traffic Control	Thru-Stop	

Annual crash cost = \$3,000

Statewide comparison = Urban, Thru/STOP

Total Crash Rate		
Observed	0.094	
Statewide Average	0.138	
Critical Rate	0.480	
Critical Index	0.20	

Fatal & Serious Injury Crash Rate		
Observed	0.000	
Statewide Average	0.350	
Critical Rate	7.400	
Critical Index	0.00	

The observed crash rate is the number of crashes per million entering vehicles (MEV). The critical rate is a statistical comparison based on similar intersections statewide. An observed crash rate greater than the critical rate indicates that the intersection operates outside the expected, normal range. The critical index reports the magnitude of this difference (i.e. observed crash rate ÷ critical crash rate).

The observed total crash rate for this period is 0.09 per MEV; this is 80% below the critical rate. Based on similar statewide intersections, an additional 5 crashes over the five years would indicate this intersection operates outside the normal range.

Appendix D: Speed Zone Signing Recommendation

