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MEMORANDUM

TO: Ryan Peterson, PE
City of Burnsville

FROM: Heather Kienitz, PE (MN)
Justin Anibas, EIT

DATE: April 15, 2020

RE: 2020 Burnsville ADA Compliance Review Technical Memorandum
SEH No. BURNS 133248

This technical memorandum covers the findings of the 2020 Burnsville American Disability Association (ADA) Compliance Review, for which 70 existing traffic signals and 6 existing Rapid Rectangular Flashing Beacons (RRFB) at pedestrian crossings were reviewed. This review served to update a similar review that was completed in 2017.





FIELD REVIEW OF INTERSECTIONS

Attributes at the signalized intersections and RRFB locations were reviewed in the field to determine whether the intersections were compliant based on a *visual review*. It should be noted that to complete a full ADA compliance review, detailed measurements of different distances and slopes at each corner would be necessary. The requested effort did not include such provisions, but rather a visual field review.

The list below in conjunction with **Table A1**, shows all of the attributes reviewed and data collected during the visual field review at each location.





- **Pedestrian Ramp Material** – Truncated Domes, Exposed Aggregate, or Other (usually a combination of the two)
- **Push Button Type** – Push buttons were separated into one of four categories: ADA Audible Buttons, ADA Non-Audible Buttons, Partial ADA Non-Audible Buttons, and Non-ADA Buttons. **Table 1** shows examples of each button type.

Table 1 – Push Button Types

<p>A-ADA Audible Push Button</p> 	<p>B-ADA Non-Audible Button</p> 
<p>C-Partial ADA Non-Audible Button</p> <p>Any combination of APS Push Buttons Types B and D, usually on different poles</p> 	<p>D-Non-ADA Button</p> 

- Push Button Location** – Review of whether the button was located on a signal pole or a separate pedestal. In addition, buttons located on signal poles were classified based on whether the signal pole base was exposed or flush with the sidewalk as well as whether the push button was put on a extender to make the button accessible. **Table 2** shows examples of each push button location type. It should be noted that a signal base was considered to be flush if it was less than one inch above the sidewalk/trail surface.

Table 2 – Push Button Location Types

<p>Pedestal</p> 	<p>Pole (Base Flush)</p> 
<p>Pole (Base Exposed)</p> 	<p>Pole Extended</p> 

- **Push Buttons on the Same Pole** – For this attribute, the number of corners where pedestrian push buttons were located on the same pole were recorded. For example, an intersection with a zero in the column for “push buttons on the same pole” indicates that all of the push buttons were located on a separate pole or pedestal.
- **Unreachable Push Buttons** – For this attribute, the number of corners where one or more of the pedestrian push buttons were unreachable was recorded. For this review, a push button was considered unreachable if the signal pole/pedestal was located more than six inches from the edge of the sidewalk/trail.
- **Count Down Timer** – The presence of pedestrian countdown timers for each pedestrian crossing were reviewed at the traffic signals. This element was only used to determine ADA compliance using the 2017 methodology, explained later in the memorandum.

Along with the six attributes of each intersection and crossing that were reviewed for ADA compliance, several other attributes were reviewed and are listed below:

- **Sidewalk/Trail Material** – All of the intersections reviewed had either concrete or bituminous sidewalk/trail or a combination of both.
- **Flashing Yellow Arrow (FYA) Capabilities** – At each signalized intersection, the presence of FYA capable signal heads for left turning movements was reviewed. The attached **Figure 4** shows the intersections with FYA capabilities for left turning movements. It should be noted that whether or not the intersections are currently operating with FYA permissive left turning movements, or the periods of the days that FYA permissive left-turns are operating, was not reviewed as part of this project.

2017 ADA COMPLIANCE

Based on our review of the data and categorization, the review of ADA compliance completed in 2017 only included review of the following attributes in the determination of whether an intersection is ADA compliant or not: the pedestrian ramp material, push button type, and presence of countdown timers. Below is a breakdown of the 2017 ADA Compliance Criteria applied including the three categories of fully compliant, partially compliant, and non-compliant intersections.

- **Fully Compliant** – All three must be present
 - Truncated domes at pedestrian ramps
 - A-ADA Audible style push buttons
 - Countdown Timers for all crossings (not for RRFB locations)
- **Non-Compliant** – All three must be true
 - No truncated domes at one or more pedestrian ramps
 - B-ADA Non-Audible, C-Partial ADA Non-Audible or D-Non-ADA style push buttons
 - No countdown timers at one or more crossings (not for RRFB locations)
- **Partially Compliant**
 - Anything between non-compliant and fully compliant

Based on the 2017 ADA compliance review, 18 of the 70 signalized intersections were considered fully compliant; 40 were considered partially compliant and the remaining 12 were non-compliant. In addition, there were four city owned RRFB locations in 2017, all of which were ADA compliant. **Table 3** shows the total number of ADA compliant, partially compliant, and non-compliant intersections separated by agency ownership based on the 2017 analysis. A full breakdown of ADA compliance for each intersection can be found in the attached **Figure 1** and **Tables 6 through 8**.

Table 3 – 2017 ADA Compliance

Agency Ownership	ADA Compliant	Partially Compliant	Non-Compliant	Total
MnDOT	9	2	7	18
Dakota County	5	22	4	31
City of Burnsville	4	16	1	21
Total	18	40	12	70

2020 ADA COMPLIANCE – 2017 METHODOLOGY

To directly compare the 2017 ADA compliance review and the updated 2020 ADA compliance review, ADA compliance in 2020 was first determined using the same methodology used in 2017.

Based on the 2020 ADA compliance analysis using the 2017 methodology, 8 intersections that were either partially compliant or non-compliant in 2017 have been updated to compliant in 2020. Three of those intersections are MnDOT owned, 3 are Dakota County owned, and 2 are City owned. In addition, 2 new fully ADA compliant city owned RRFB locations have been added since 2017. **Table 4** shows the total number of ADA compliant, partially compliant, and non-compliant intersections separated by agency ownership in 2020 based on the 2017 compliance methodology. A full breakdown of ADA compliance for each intersection can be found in the attached **Figure 1** and **Tables 6 through 8**.

Table 4 – 2020 ADA Compliance (2017 Methodology)

Agency Ownership	ADA Compliant	Change in ADA Compliance Since 2017	Partially Compliant	Non-Compliant	Total
MnDOT	12	+ 3	1	5	18
Dakota County	8	+ 3	20	3	31
City of Burnsville	6	+ 2	13	2	21
Total	26	+ 8	34	10	70

2020 ADA COMPLIANCE – UPDATED METHODOLOGY

Due to the number of attributes that are required to meet ADA compliance and accessibility of the push button being a primary concern for compliance, a secondary ADA Compliance review was completed based on an updated methodology. The following attributes were examined and data collected as part of the visual field review at all of the signalized intersections and RRFB locations to determine whether each crossing and intersection are ADA compliant:

- pedestrian ramp material
- push button type
- push button location
- whether push buttons are on the same pole, and
- whether push buttons are reachable

For the 2020 analysis, the presence of countdown timers was removed as an attribute as to whether intersections are ADA compliant or not as they are a signal design standard but not an ADA compliance requirement. Below is a breakdown of the criteria of fully compliant, partially compliant, and non-compliant intersections.

- **Fully Compliant** – All five must be present
 - Truncated domes at pedestrians ramps
 - A-ADA Audible or B-ADA Non-Audible style push buttons
 - Pedestal, pole mounted (base flush), or pole mounted (extended) only for push button locations
 - No push buttons on the same pole
 - No unreachable push buttons
- **Non-Compliant** – Automatically non-compliant if one of the following is true
 - One or more poles is unreachable from the sidewalk/trail
 - One or more pedestrian ramp does not have truncated domes
- **Partially Compliant**
 - Anything between non-compliant and compliant

Based on the updated methodology, the 2020 ADA compliance review found that 22 of the 70 signalized intersections were considered fully compliant; 21 were considered partially compliant and the remaining 27 were non-compliant.

The 6 city owned RRFB locations are all considered ADA compliant. **Table 5** shows the total number of ADA compliant, partially compliant, and non-compliant intersections separated by agency ownership in 2020. A full breakdown of ADA compliance for each intersection can be found in the attached **Figure 1** and **Tables 6 through 8**.

Table 5 – 2020 ADA Compliance

Agency Ownership	ADA Compliant	Partially Compliant	Non-Compliant	Total
MnDOT	10	2	6	18
Dakota County	7	11	13	31
City of Burnsville	5	8	8	21
Total	22	21	27	70

Key ADA Compliance differences – 2017 to Updated 2020 Methodology

1. **Unreachable/No truncated domes** – The large increase in the overall number of non-compliant intersections from the 2017 methodology to the updated methodology is because intersections are automatically considered non-compliant if poles/push buttons are unreachable or pedestrian ramps do not have truncated domes under the updated methodology.
2. **Extenders for Push Buttons** – The five intersections that were considered ADA compliant under the 2017 methodology but are not under the updated methodology, are all only considered partially compliant under the updated methodology because each intersection has at least one push button that is on a pole with an exposed base and does not currently have extenders for the push button(s). The requirement to use extenders for push buttons that are mounted on signal poles with exposed bases began near 2017 and they continue to be installed more frequently.

The four intersections listed below that are now partially ADA compliant because they do not have the push button extenders but would be compliant with the installation of those extenders for the pole mounted push buttons.

- **MnDOT Owned**
 - TH 13 and Nicollet Avenue
 - TH 13 and Parkwood Avenue/12th Avenue
- **Dakota County Owned**
 - CSAH 42 and Portland Avenue
 - CSAH 42 and Lac Lavon Dr (CSAH 11)
- **City of Burnsville Owned**
 - Burnhaven Drive and 141st Street W.

3. **Countdown Timers** – The intersection of Cliff Road and River Hills Drive was not considered ADA compliant under the 2017 methodology because it does not have countdown timers, but is ADA compliant under the updated methodology, since countdown timers are not related to ADA compliance under the updated methodology.

Attachments:

- Figure 1 – 2017 ADA Compliance
- Figure 2 – 2020 ADA Compliance (2017 Methodology)
- Figure 3 – 2020 ADA Compliance (Updated Methodology)
- Figure 4 – Flashing Yellow Arrow Capabilities
- Table 6 – 2017 and 2020 ADA Compliance (MnDOT Owned)
- Table 7 – 2017 and 2020 ADA Compliance (Dakota County Owned)
- Table 8 – 2017 and 2020 ADA Compliance (City Owned)
- Table A1 – 2020 ADA Compliance Review Raw Data

- c: John Gray, PE (MN) – SEH
Cole Arvidson, EIT – SEH

Table 6 – 2017 and 2020 ADA Compliance (MnDOT Owned)

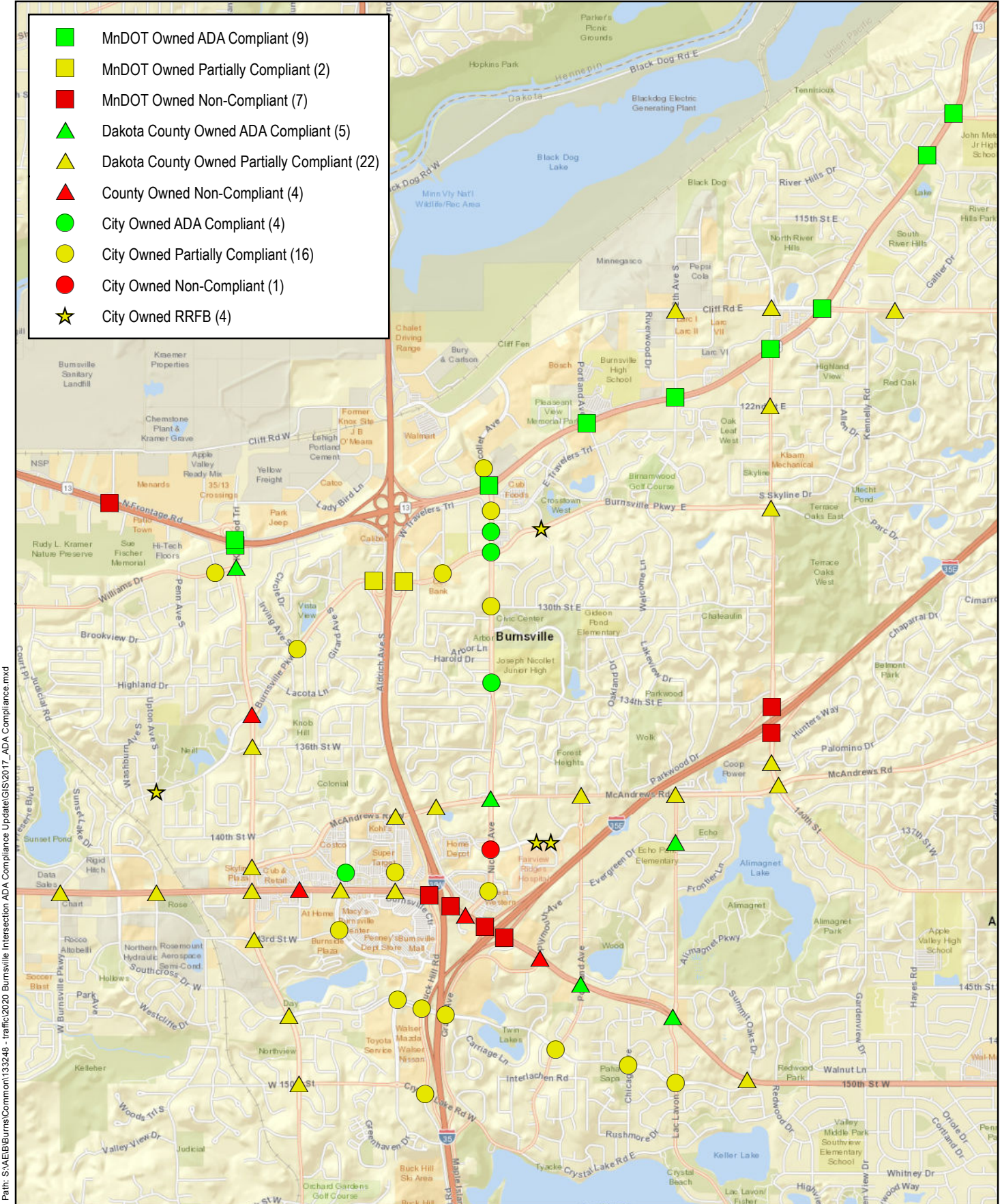
Intersection	2017 Compliance	2020 Compliance (2017 Method)	2020 Compliance
T.H. 13 and CSAH 32 (Cliff Rd.)	YES	YES	YES
T.H,13 and Nicollet Ave.	YES	YES	PARTIAL
T.H. 13 and Parkwood Ave. (12th)	YES	YES	PARTIAL
I-35W and CSAH 42 (East)	NO	NO	NO
T.H. 13 and Washburn Ave.	NO	YES	YES
T.H. 13 and Portland Ave.	YES	YES	YES
T.H. 13 and CSAH 11	YES	YES	YES
I-35E and CSAH 42 (East)	NO	NO	NO
I-35E and CSAH 42 (West)	NO	NO	NO
I-35E and CSAH 11 (North)	NO	NO	NO
I-35E and CSAH 11 (South)	NO	NO	NO
T.H. 13 and CSAH 30 (Diffley Rd.)	YES	YES	YES
T.H. 13 and E. River Hills Dr.	YES	YES	YES
I-35W and Burnsville Parkway (West)	PARTIAL	PARTIAL	NO
I-35W and Burnsville Parkway (East)	PARTIAL	YES	YES
T.H. 13 and CSAH 5 (South)	YES	YES	YES
I-35W/CSAH 42 and Buck Hill Rd.	NO	YES	YES
CSAH 5 and T.H. 13 (North Ramp)	YES	YES	YES

Table 7 – 2017 and 2020 ADA Compliance (Dakota County Owned)

Intersection	2017 Compliance	2020 Compliance (2017 Method)	2020 Compliance
McAndrews Rd E and 140th St.	PARTIAL	PARTIAL	NO
CSAH 42 and Burnsville Parkway	PARTIAL	PARTIAL	PARTIAL
CSAH 11 and 140th St. HAWK	YES	YES	YES
CSAH 42 and Judicial Rd.	PARTIAL	PARTIAL	NO
CSAH 5 and CSAH 42	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and CSAH 38	PARTIAL	PARTIAL	PARTIAL
CSAH 32 and E. River Hills Dr.	PARTIAL	PARTIAL	YES
CSAH 11 and Palomino Dr.	PARTIAL	PARTIAL	NO
CSAH 11 and 122nd St.	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and 143rd St.	PARTIAL	PARTIAL	PARTIAL
CSAH 38 and Nivollet Blvd.	PARTIAL	PARTIAL	NO
CSAH 11 and CSAH 38	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and 150th St.	PARTIAL	PARTIAL	NO
CSAH 32 and W. River Hills Dr.	PARTIAL	YES	YES
CSAH 42 and Plymouth Ave.	NO	NO	NO
CSAH 38 and Aldrich Ave.	PARTIAL	PARTIAL	NO
CSAH 42 and BurnhavenDr.	PARTIAL	PARTIAL	PARTIAL
CSAH 42 and Irvng Ave.	NO	NO	NO
CSAH 42 and Aldrich Ave.	PARTIAL	PARTIAL	PARTIAL
CSAH 42 and Nicollet Ave.	NO	NO	NO
CSAH 38 and Portland Ave.	PARTIAL	PARTIAL	PARTIAL
CSAH 32 and 12th Ave.	PARTIAL	PARTIAL	NO
CSAH 5 and Southcross Dr.	PARTIAL	PARTIAL	NO
CSAH 42 and Southcross Dr.	PARTIAL	PARTIAL	NO
CSAH 5 and 136th St.	PARTIAL	YES	YES
CSAH 5 and Williams Dr.	YES	YES	YES
CSAH 38 and Nicollet Ave.	YES	YES	YES
CSAH 11 and Burnsville Parkway	PARTIAL	PARTIAL	NO
CSAH 11/Lac Lavon Dr. and CSAH 42	YES	YES	PARTIAL
CSAH 42 and Portland Ave.	YES	YES	PARTIAL
CSAH 5 and Burnsville Parkway	NO	YES	YES

Table 8 – 2017 and 2020 ADA Compliance (City Owned)

Intersection	2017 Compliance	2020 Compliance (2017 Method)	2020 Compliance
Burnhaven Dr. and Southcross Dr. W.	PARTIAL	PARTIAL	PARTIAL
Burnhaven Dr. and 143rd St. W.	PARTIAL	PARTIAL	NO
Burnhaven Dr. and 141st St. W.	YES	YES	PARTIAL
Morgan Ave. S. and Williams Dr.	PARTIAL	NO	NO
Aldrich Ave. and 141st St. W.	PARTIAL	PARTIAL	PARTIAL
Nicollet Ave. and E. Travelers Trail	PARTIAL	YES	YES
Buck Hill Rd. and Southcross Dr. W.	PARTIAL	PARTIAL	PARTIAL
Southcross Dr. W. and Grand Ave.	PARTIAL	PARTIAL	NO
Southcross Dr. W. and Portland Ave.	PARTIAL	PARTIAL	NO
Southcross Dr. W. and Chicago Ave.	PARTIAL	PARTIAL	PARTIAL
Southcross Dr. W. and Lac Lavon Dr.	PARTIAL	PARTIAL	NO
Nicollet Ave. and Burnsville Parkway E.	YES	YES	YES
Burnsville Pkwy W. and Irving Ave. S.	PARTIAL	PARTIAL	PARTIAL
Burnsville Pkwy W. and Pleasant Ave.	PARTIAL	PARTIAL	PARTIAL
Nicollet Ave. and 126th St. W.	YES	YES	YES
Nicollet Ave. and 130th St. E.	PARTIAL	YES	YES
Nicollet Ave. and 134th St. E./Woodcrest Dr.	YES	YES	YES
Nicollet Ave. and River Ridge Blvd	PARTIAL	PARTIAL	NO
Nicollet Ave. and Nicollet Blvd.	NO	NO	NO
Nicollet Ave. and Cobblestone Ct.	PARTIAL	PARTIAL	NO
Buck Hill Rd. and W. 150th St.	PARTIAL	PARTIAL	PARTIAL
Burnsville Pkwy W. and Eagle Ridge Dr. (RRFB)	YES	YES	YES
Burnsville Parkway W. and Upton Ave. S. (RRFB)	YES	YES	YES
E. Nicollet Blvd. at Fairview Ridges Hospital (RRFB)	YES	YES	YES
E. Nicollet Blvd. at Fairview Ridges Hospital (RRFB)	YES	YES	YES
Burnsville Pkwy and Girard Ave (RRFB)		YES	YES
Burnsville Pkwy and Camelot Rd/Park Ave (RRFB)		YES	YES



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- MnDOT Owned ADA Compliant (9)
- MnDOT Owned Partially Compliant (2)
- MnDOT Owned Non-Compliant (7)
- ▲ Dakota County Owned ADA Compliant (5)
- ▲ Dakota County Owned Partially Compliant (22)
- ▲ County Owned Non-Compliant (4)
- City Owned ADA Compliant (4)
- City Owned Partially Compliant (16)
- City Owned Non-Compliant (1)
- ★ City Owned RRFB (4)



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 Print Date: 4/13/2020
 Map by: jdanibas
 Projection: Dakota County Coords.
 Source: ESRI

2017 ADA Compliance

Burnsville ADA Compliance

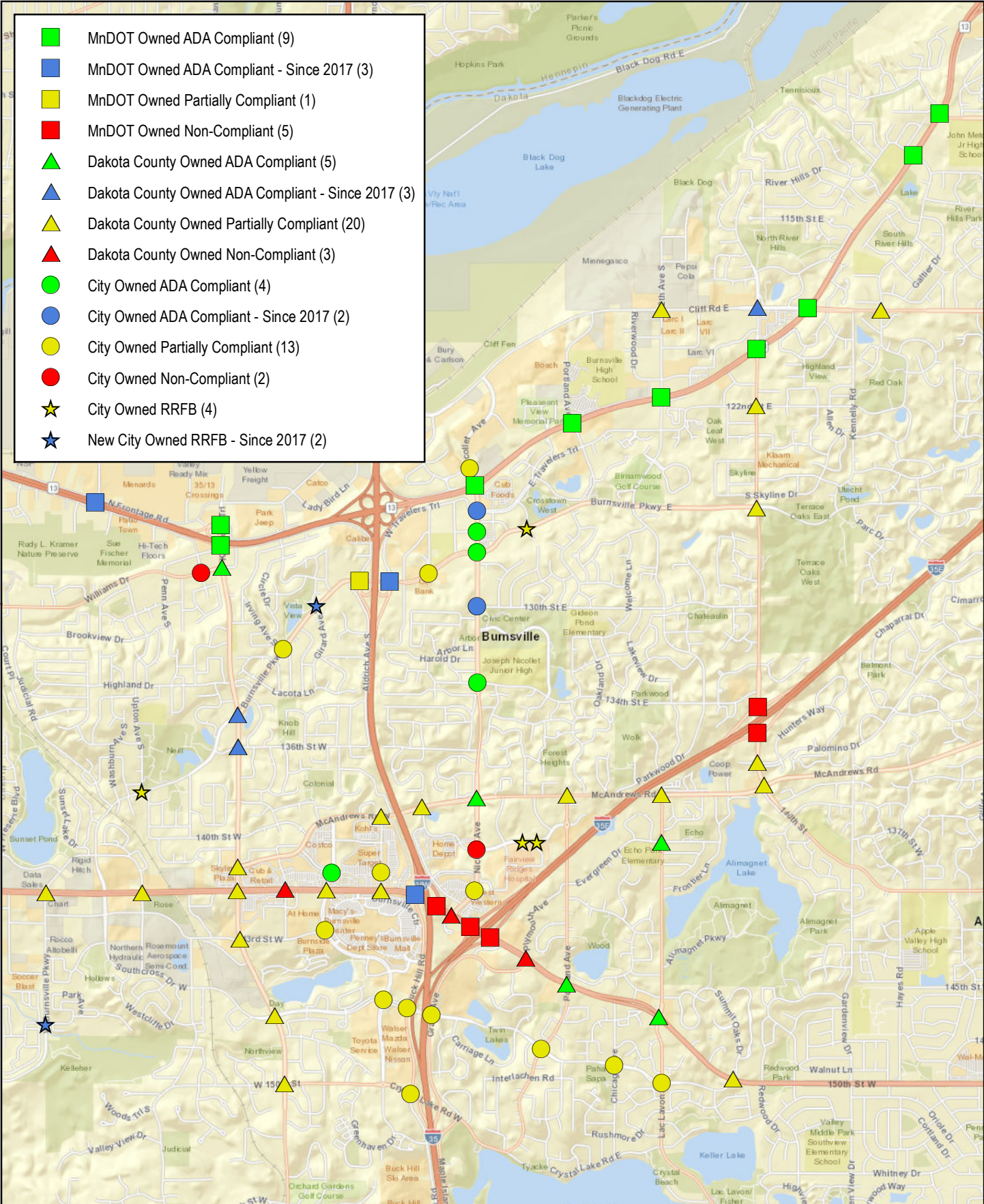
Burnsville, MN

Figure
1

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.

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- MnDOT Owned ADA Compliant (9)
- MnDOT Owned ADA Compliant - Since 2017 (3)
- MnDOT Owned Partially Compliant (1)
- MnDOT Owned Non-Compliant (5)
- ▲ Dakota County Owned ADA Compliant (5)
- ▲ Dakota County Owned ADA Compliant - Since 2017 (3)
- ▲ Dakota County Owned Partially Compliant (20)
- ▲ Dakota County Owned Non-Compliant (3)
- City Owned ADA Compliant (4)
- City Owned ADA Compliant - Since 2017 (2)
- City Owned Partially Compliant (13)
- City Owned Non-Compliant (2)
- ★ City Owned RRFB (4)
- ★ New City Owned RRFB - Since 2017 (2)



Project: BURNS 133248
Print Date: 4/15/2020












Map by: jdanibas
Projection: Dakota County Coords.
Source: ESRI

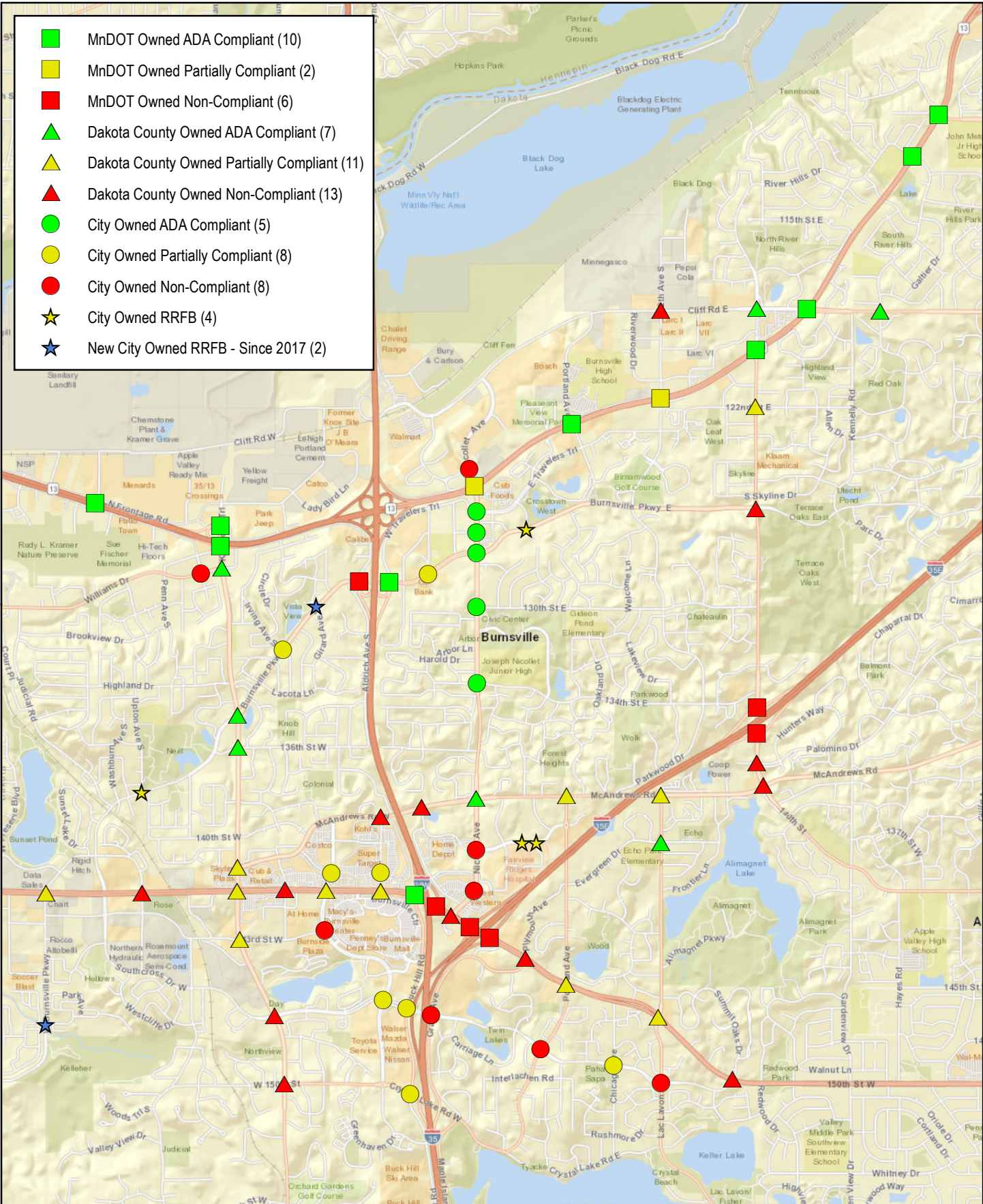
2020 ADA Compliance (2017 Methodology) Burnsville ADA Compliance Burnsville, MN

Figure
2

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-  MnDOT Owned ADA Compliant (10)
-  MnDOT Owned Partially Compliant (2)
-  MnDOT Owned Non-Compliant (6)
-  Dakota County Owned ADA Compliant (7)
-  Dakota County Owned Partially Compliant (11)
-  Dakota County Owned Non-Compliant (13)
-  City Owned ADA Compliant (5)
-  City Owned Partially Compliant (8)
-  City Owned Non-Compliant (8)
-  City Owned RRFB (4)
-  New City Owned RRFB - Since 2017 (2)



Project: BURNS 133248
Print Date: 4/15/2020

Map by: jdanibas
Projection: Dakota County Coords.
Source: ESRI

2020 ADA Compliance (Updated Methodology) Burnsville ADA Compliance Burnsville, MN

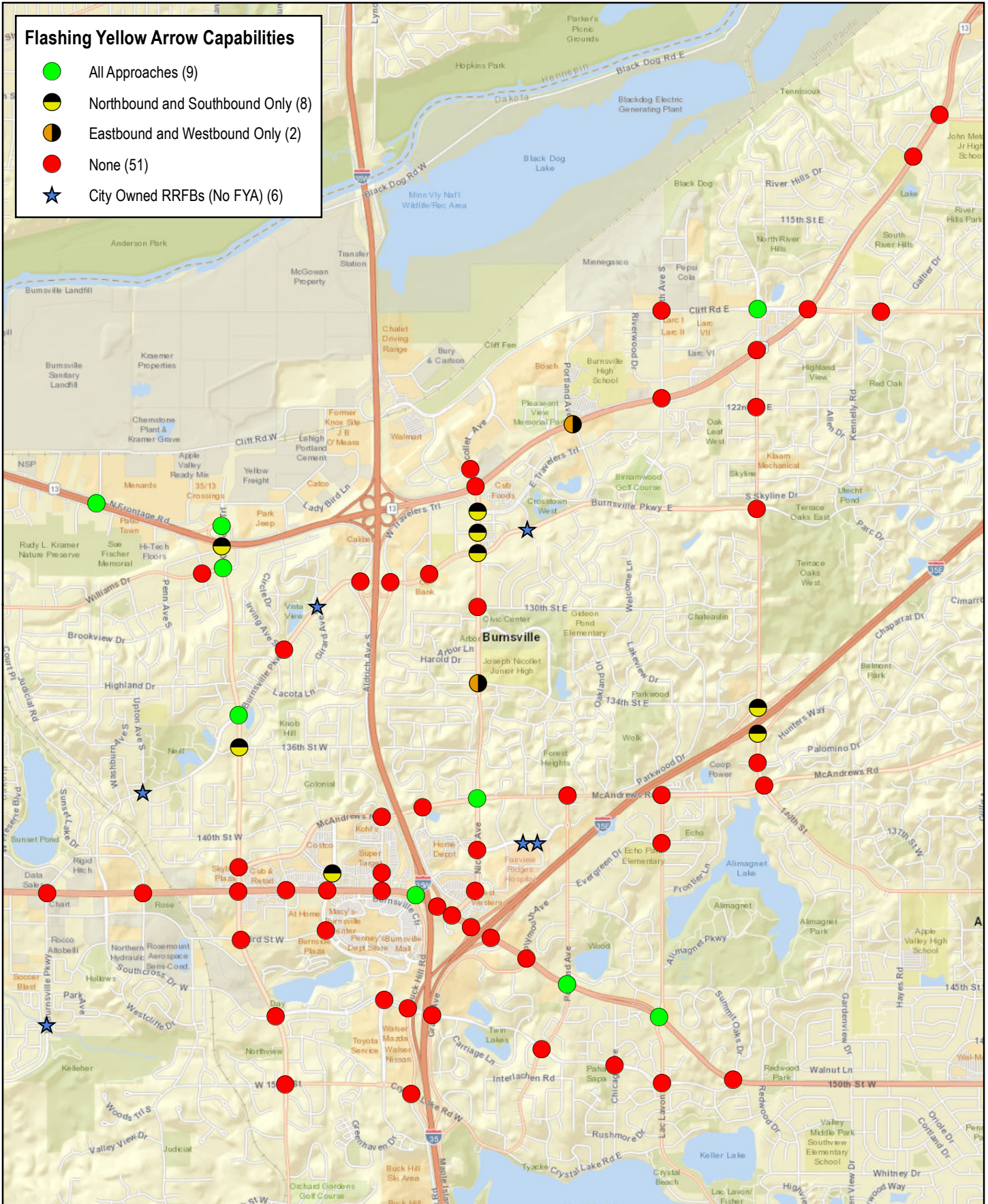
Figure
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Flashing Yellow Arrow Capabilities

- All Approaches (9)
- Northbound and Southbound Only (8)
- Eastbound and Westbound Only (2)
- None (51)
- ★ City Owned RRFBs (No FYA) (6)

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Source: ESRI

Flashing Yellow Arrow Capabilities

Burnsville ADA Compliance
Burnsville, MN

Figure
4

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Table A1
2020 Burnsville ADA Compliance Review - Raw Data

Intersection	Ownership	Type	Ped Ramp Material	Sidewalk/Trail Material	Push Button Style	Push Button Location	Push Buttons on the Same Pole Corners	Unreachable Push Button Corners	Countdown Time	Flashing Yellow Arrow				2017 Compliance	2020 Compliance (2017 Method)	2020 Compliance
										NB	SB	EB	WB			
T.H. 13 and CSAH 32 (Cliff Rd.)	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	N	N	YES	YES	YES
T.H.13 and Nicollet Ave.	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole (base exposed)	0	0	Y	N	N	N	N	YES	YES	PARTIAL
T.H. 13 and Parkwood Ave. (12th)	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole (base exposed)	0	0	Y	N	N	N	N	YES	YES	PARTIAL
I-35W and CSAH 42 (East)	MnDOT	Signal	Exposed Aggregate	Concrete	None	NA	NA	NA	N	N	N	N	NA	NO	NO	NO
T.H. 13 and Washburn Ave.	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	NO	YES	YES
T.H. 13 and Portland Ave.	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	Y	Y	YES	YES	YES
T.H. 13 and CSAH 11	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	N	N	YES	YES	YES
I-35E and CSAH 42 (East)	MnDOT	Signal	Other	Concrete	B-ADA Non-Audible Button	Other Combination	0	1	N	N	N	N	NA	NO	NO	NO
I-35E and CSAH 42 (West)	MnDOT	Signal	Other	Concrete	B-ADA Non-Audible Button	Other Combination	0	3	N	N	N	NA	N	NO	NO	NO
I-35E and CSAH 11 (North)	MnDOT	Signal	Other	Concrete/Bituminous	C-Partial ADA Non-Audible Button	Pole (base flush)	0	0	N	Y	NA	N	N	NO	NO	NO
I-35E and CSAH 11 (South)	MnDOT	Signal	Other	Concrete	C-Partial ADA Non-Audible Button	Pedestal/Pole (base flush)	0	0	N	NA	Y	N	N	NO	NO	NO
T.H. 13 and CSAH 30 (Difley Rd.)	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	N	N	N	N	YES	YES	YES
T.H. 13 and E. River Hills Dr.	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	N	N	N	N	YES	YES	YES
I-35W and Burnsville Parkway (West)	MnDOT	Signal	Exposed Aggregate	Concrete	A-ADA Audible Button	Pedestal/Pole (base exposed)	0	0	Y	N	N	N	N	PARTIAL	PARTIAL	NO
I-35W and Burnsville Parkway (East)	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	N	N	PARTIAL	YES	YES
T.H. 13 and CSAH 5 (South)	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole (base flush)	0	0	Y	NA	Y	N	NA	YES	YES	YES
I-35W/CSAH 42 and Buck Hill Rd.	MnDOT	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	NO	YES	YES
CSAH 5 and T.H. 13 (North Ramp)	MnDOT	Signal	Truncated Dome	Bituminous	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	YES	YES	YES
McAndrews Rd E and 140th St.	Dakota Cty.	Signal	Truncated Dome	Concrete/Bituminous	C-Partial ADA Non-Audible Button	Pole (base flush)/Pole (base exposed)	4	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 42 and Burnsville Parkway	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 11 and 140th St. HAWK	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pole (base flush)	0	0	Y	N	N	NA	NA	YES	YES	YES
CSAH 42 and Judicial Rd.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Other Combination	4	2	Y	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 5 and CSAH 42	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and CSAH 38	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal/Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 32 and E. River Hills Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	N	N	N	N	N	PARTIAL	PARTIAL	YES
CSAH 11 and Palomino Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete/Bituminous	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	1	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 11 and 122nd St.	Dakota Cty.	Signal	Truncated Dome	Concrete	D- Non-ADA Button	Pole (base exposed)	0	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and 143rd St.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 38 and Nicollet Blvd.	Dakota Cty.	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pedestal/Pole (base flush)	2	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 11 and CSAH 38	Dakota Cty.	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pole (base flush)/Pole (base exposed)	4	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 5 and 150th St.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 32 and W. River Hills Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete	Under Construction	Under Construction	0	0	N	Y	Y	Y	Y	PARTIAL	YES	YES
CSAH 42 and Plymouth Ave.	Dakota Cty.	Signal	Other	Concrete	B-ADA Non-Audible Button	Other Combination	4	1	N	N	N	N	N	NO	NO	NO
CSAH 38 and Aldrich Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal/Pole (base flush)	2	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 42 and BurnhavenDr.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Other Combination	4	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 42 and Irving Ave.	Dakota Cty.	Signal	Exposed Aggregate	Concrete	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	N	NO	NO	NO
CSAH 42 and Aldrich Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Other Combination	3	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 42 and Nicollet Ave.	Dakota Cty.	Signal	Other	Concrete	B-ADA Non-Audible Button	Other Combination	4	2	N	N	N	N	N	NO	NO	NO
CSAH 38 and Portland Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
CSAH 32 and 12th Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete/Bituminous	B-ADA Non-Audible Button	Pedestal/Pole (base exposed)	4	1	Y	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 5 and Southcross Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pole (base flush)/Pole (base exposed)	4	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 42 and Southcross Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete/Bituminous	B-ADA Non-Audible Button	Pole (base exposed)	4	4	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 5 and 136th St.	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	N	N	PARTIAL	YES	YES
CSAH 5 and Williams Dr.	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	YES	YES	YES
CSAH 38 and Nicollet Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	YES	YES	YES
CSAH 11 and Burnsville Parkway	Dakota Cty.	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
CSAH 11/Lac Lavon Dr. and CSAH 42	Dakota Cty.	Signal	Truncated Dome	Concrete	Other	Other Combination	0	0	Y	Y	Y	Y	Y	YES	YES	PARTIAL
CSAH 42 and Portland Ave.	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Other Combination	0	0	Y	Y	Y	Y	Y	YES	YES	PARTIAL
CSAH 5 and Burnsville Parkway	Dakota Cty.	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal	0	0	Y	Y	Y	Y	Y	NO	YES	YES
Burnhaven Dr. and Southcross Dr. W.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
Burnhaven Dr. and 143rd St. W.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base flush)/Pole (base exposed)	4	2	Y	N	N	N	N	PARTIAL	PARTIAL	NO
Burnhaven Dr. and 141st St. W.	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole (base exposed)	0	0	Y	Y	Y	N	N	YES	YES	PARTIAL
Morgan Ave. S. and Williams Dr.	Burnsville	Signal	Other	Concrete/Bituminous	B-ADA Non-Audible Button	Pole (base exposed)	4	1	N	N	N	N	N	PARTIAL	NO	NO
Aldrich Ave. and 141st St. W.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
Nicollet Ave. and E. Travelers Trail	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	Y	Y	N	N	PARTIAL	YES	YES
Buck Hill Rd. and Southcross Dr. W.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	3	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
Southcross Dr. W. and Grand Ave.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	5+	N	N	N	N	N	PARTIAL	PARTIAL	NO
Southcross Dr. W. and Portland Ave.	Burnsville	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	3	N	N	N	N	N	PARTIAL	PARTIAL	NO
Southcross Dr. W. and Chicago Ave.	Burnsville	Signal	Truncated Dome	Concrete	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	NA	PARTIAL	PARTIAL	PARTIAL
Southcross Dr. W. and Lac Lavon Dr.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	2	N	N	N	N	N	PARTIAL	PARTIAL	NO
Nicollet Ave. and Burnsville Parkway E.	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole (base flush)	0	0	Y	Y	Y	N	N	YES	YES	YES
Burnsville Parkway W. and Eagle Ridge Dr.	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	0	NA	NA	NA	NA	NA	RRFB	RRFB	RRFB
Burnsville Parkway W. and Irving Ave. S.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
Burnsville Parkway W. and Upton Ave. S.	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	1	NA	NA	NA	NA	NA	RRFB	RRFB	RRFB
Burnsville Parkway W. and Pleasant Ave.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal/Pole (base exposed)	2	0	Y	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
Nicollet Ave. and 126th St. W.	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	Y	Y	N	N	YES	YES	YES
Nicollet Ave. and 130th St. E.	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	N	N	PARTIAL	YES	YES
Nicollet Ave. and 134th St. E./Woodcrest Dr.	Burnsville	Signal	Truncated Dome	Concrete	A-ADA Audible Button	Pedestal/Pole Extended	0	0	Y	N	N	Y	Y	YES	YES	YES
Nicollet Ave. and Riv Rdge Blvd./MVTA Park & Ride	Burnsville	Signal	Truncated Dome	Concrete	D- Non-ADA Button	Pedestal/Pole (base exposed)	2	1	N	N	N	N	N	PARTIAL	PARTIAL	NO
Nicollet Ave. and Nicollet Blvd.	Burnsville	Signal	Exposed Aggregate	Concrete	C-Partial ADA Non-Audible Button	Pole (base exposed)	4	0	N	N	N	N	N	NO	NO	NO
Nicollet Ave. and Cobblestone Ct.	Burnsville	Signal	Other	Concrete	B-ADA Non-Audible Button	Pole (base flush)/Pole (base exposed)	4	0	Y	N	N	N	N	PARTIAL	PARTIAL	NO
Buck Hill Rd. and W. 150th St.	Burnsville	Signal	Truncated Dome	Concrete	B-ADA Non-Audible Button	Other Combination	1	0	N	N	N	N	N	PARTIAL	PARTIAL	PARTIAL
E. Nicollet Blvd. at Fairview Ridges Hospital	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	0	NA	NA	NA	NA	NA	RRFB	RRFB	RRFB
E. Nicollet Blvd. at Fairview Ridges Hospital	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	0	NA	NA	NA	NA	NA	RRFB	RRFB	RRFB
Burnsville Pkwy and Girard Ave	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	0	N	NA	NA	NA	NA	NEW RRFB	NEW RRFB	NEW RRFB
Burnsville Pkwy and Camelot Rd/Park Ave	Burnsville	RRFB	Truncated Dome	Concrete	B-ADA Non-Audible Button	Pedestal	0	0	0	0	0	0	0	NEW RRFB	NEW RRFB	NEW RRFB