

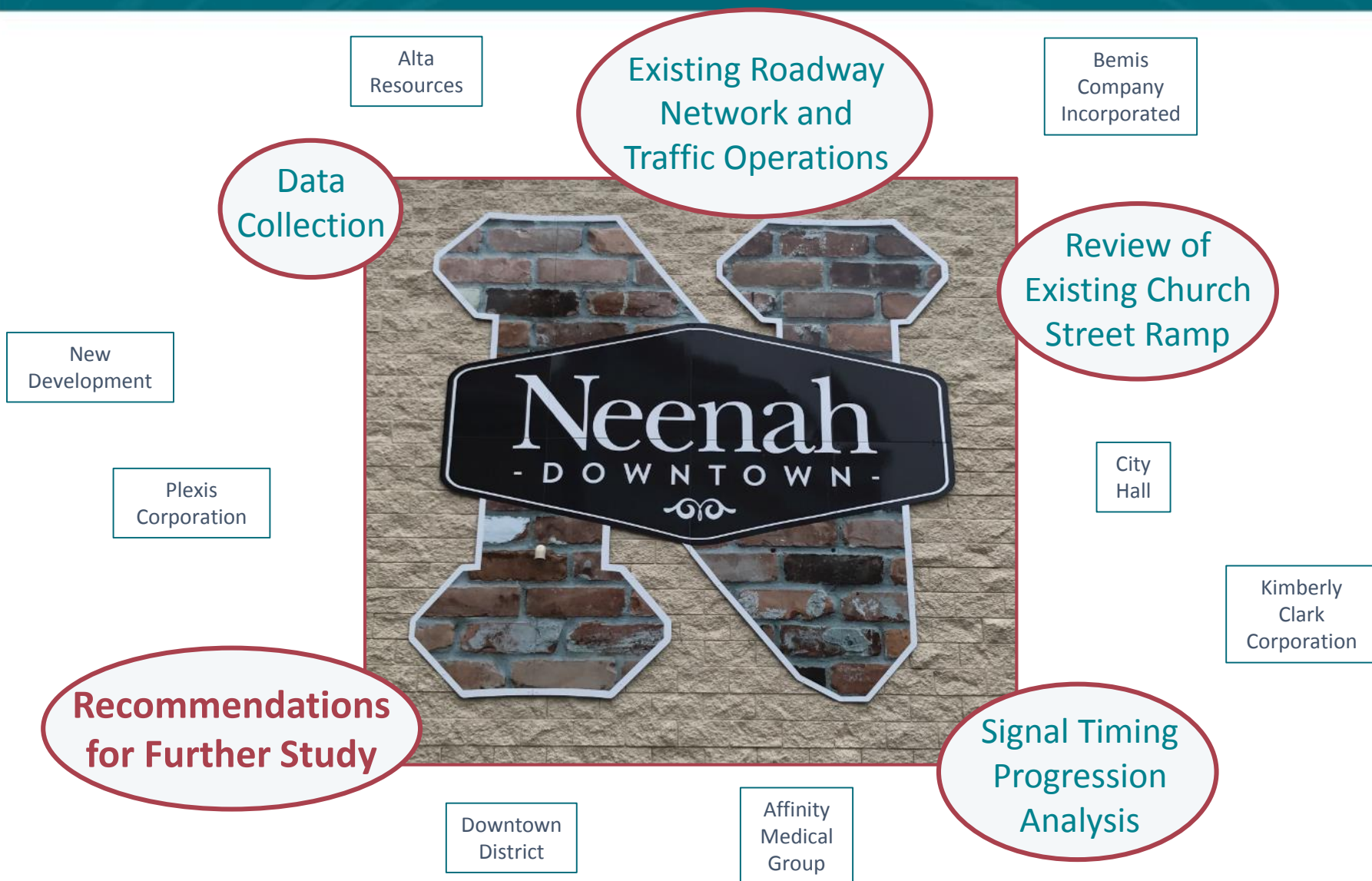
Neenah Downtown Traffic Study

January 8, 2019

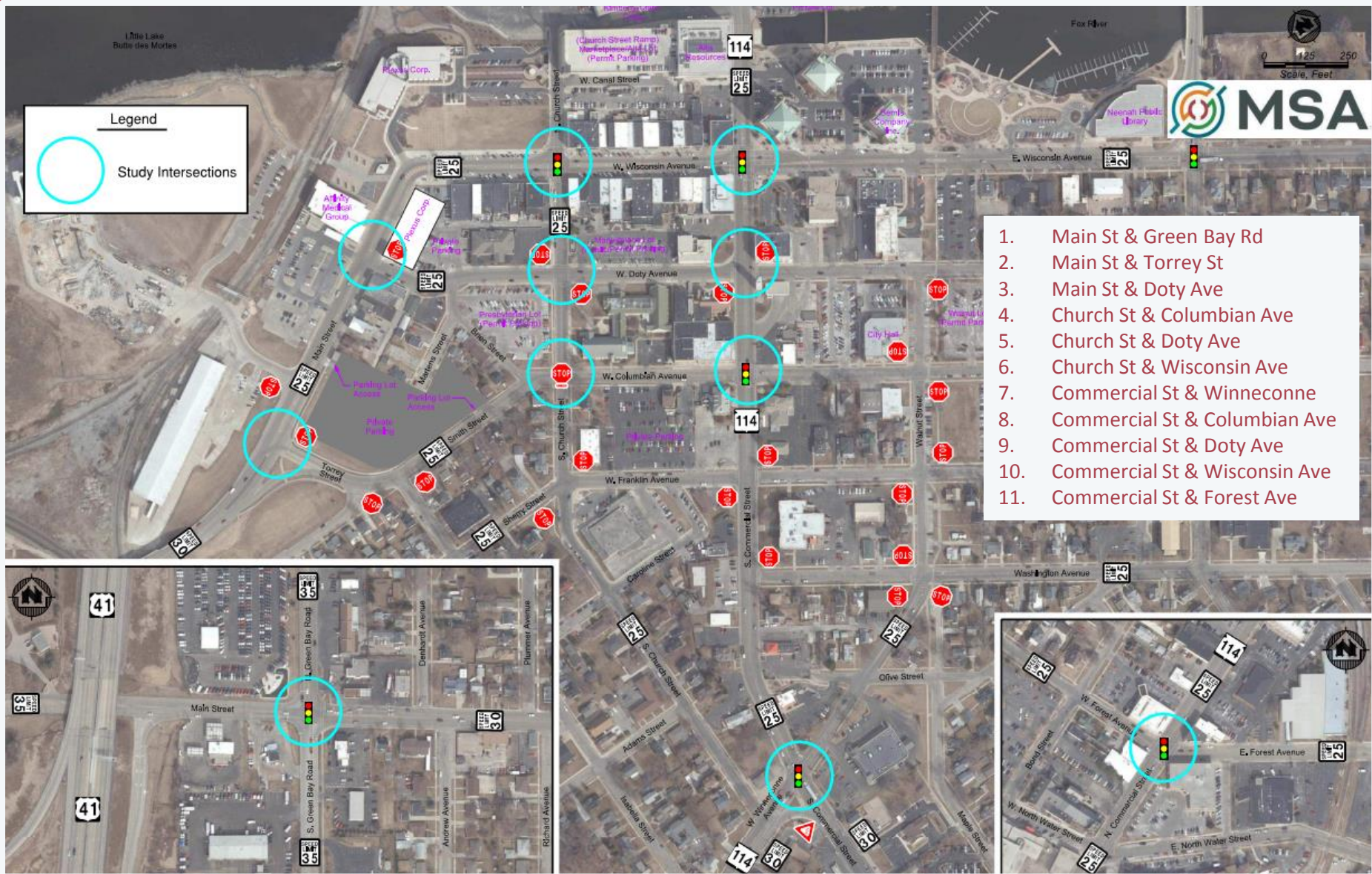


Prepared for:
City of Neenah
Winnebago County
January 2019

Study Objectives



Study Area



Data Collection

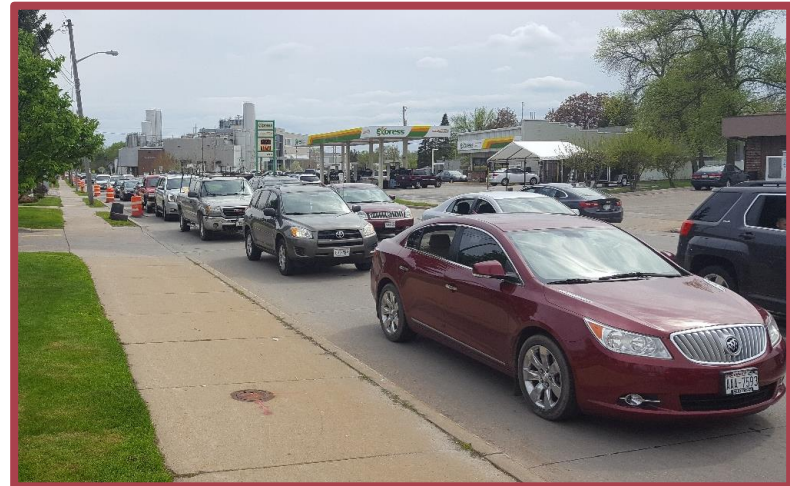


Commercial St & Doty Ave – Looking South



Main St & Doty Ave – Looking Towards Doty Ave

- Traffic Counts Collected in April 2018
- Field Observation
- Video Observation



South Approach of Commercial St & Winneconne Ave

Existing Operational Analysis – Notable Intersections



Main St & Green Bay Rd
LOS E or F : AM NB, AM/PM SB



Commercial St & Winneconne Ave
LOS E or F : AM/PM SB

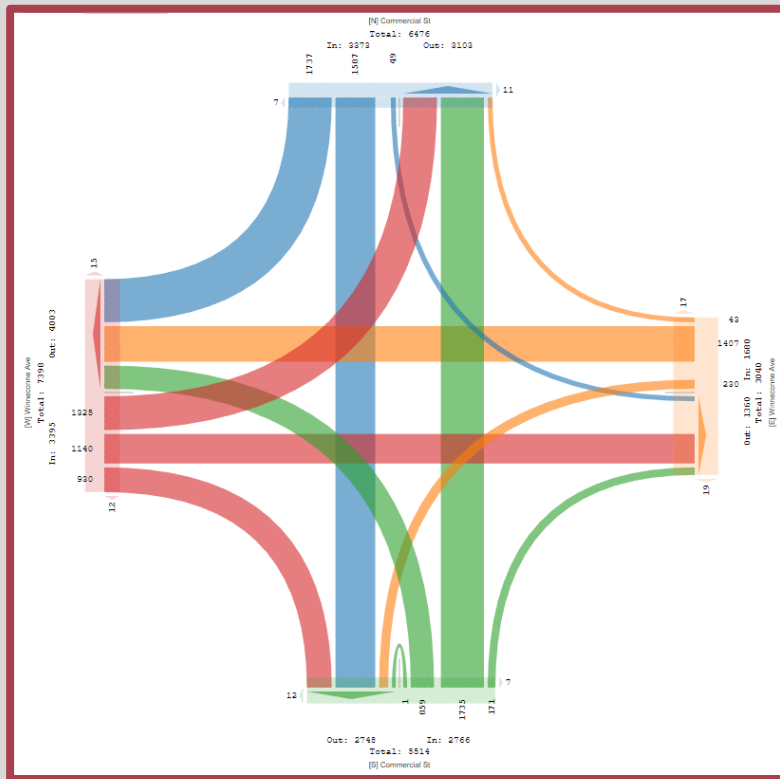


Commercial St & Wisconsin Ave
LOS E or F : AM/PM EB Left, AM WB Through

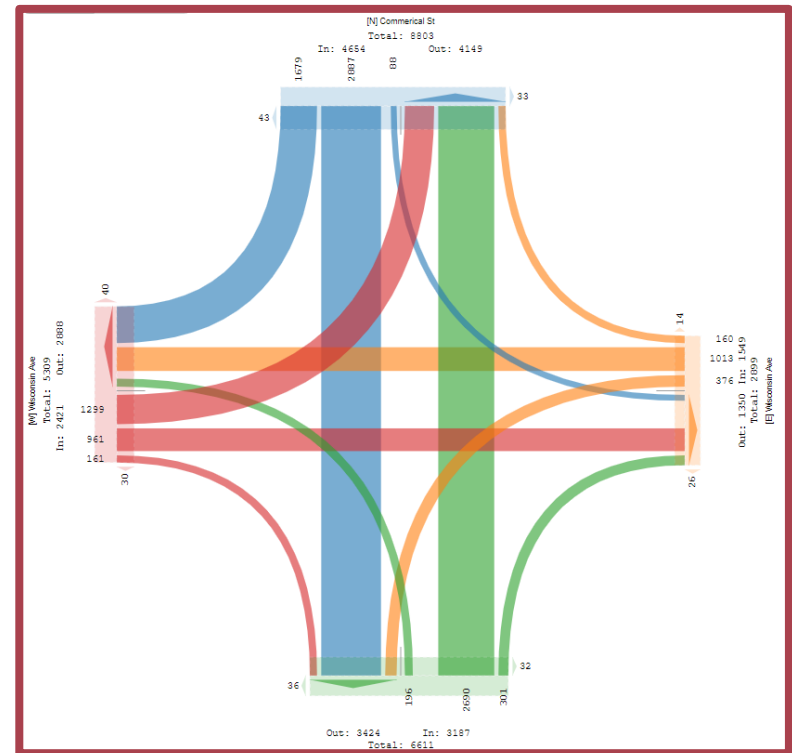


Wisconsin Ave & Church St
LOS E or F : AM EB Left

Existing Operational Analysis – Notable Intersections



Commercial St & Winneconne Ave



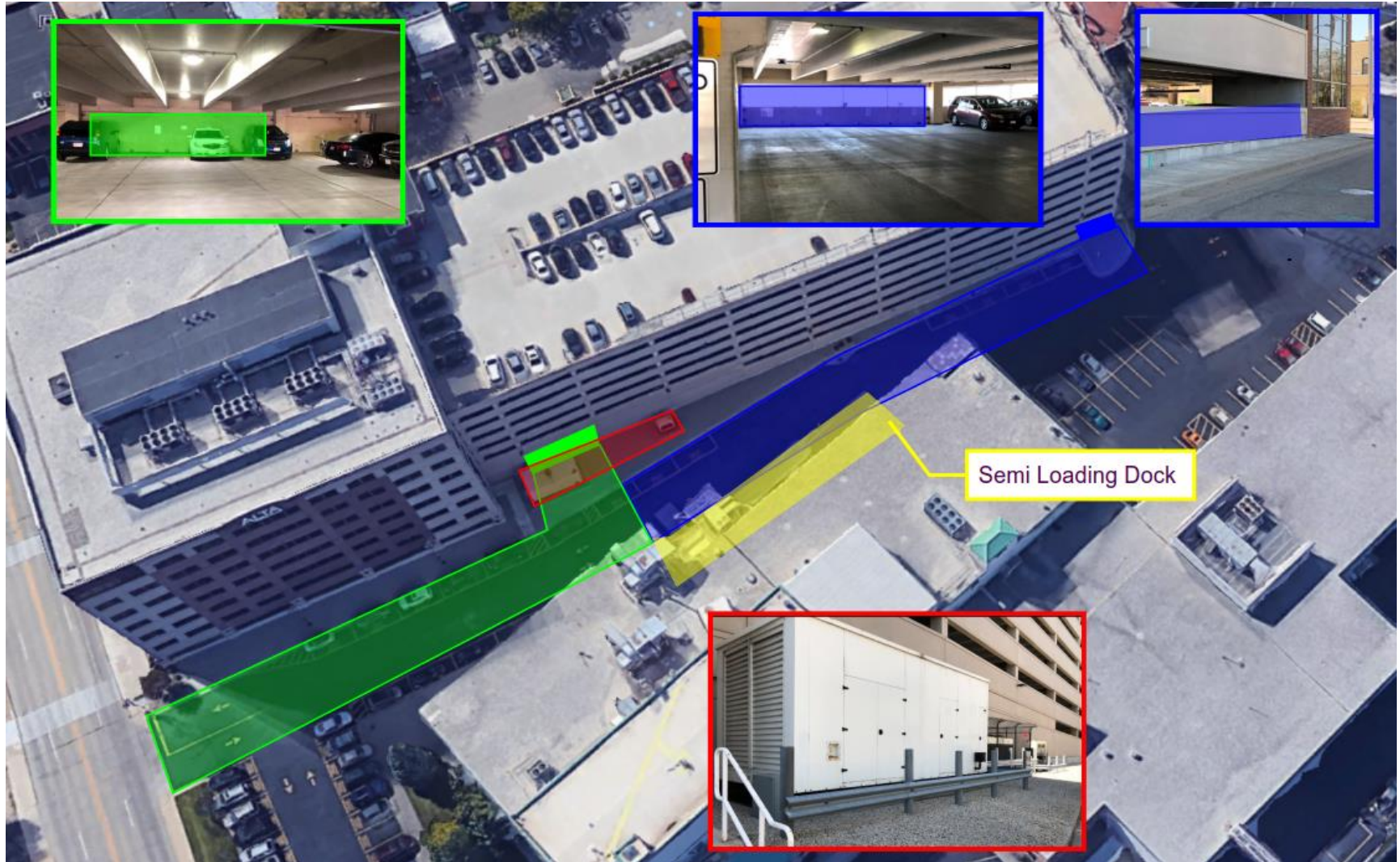
Commercial St & Wisconsin Ave

Other Factors – Church Street Parking Ramp



- Primarily Employee Parking
- Single Access to Wisconsin Avenue
- Heavy Conflicting East/West Traffic Volume

Church Street Ramp Modifications



Traffic Signal Warrants

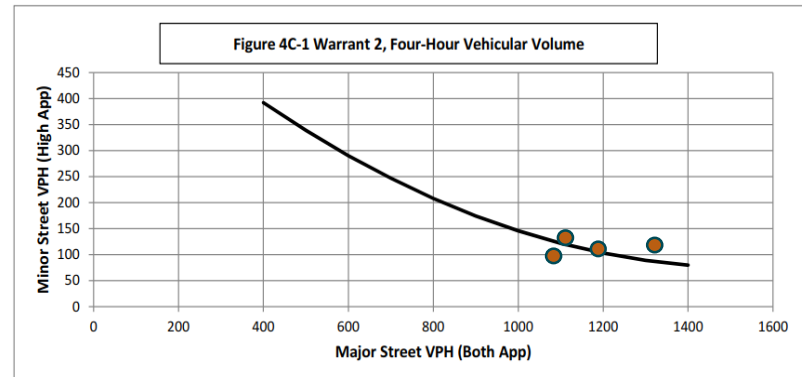
- Main St & Torrey Ave
 - Warrant 1, 8 Hour : **Not Met (4 of 8 hours met)**
 - Warrant 2, 4 Hour : **Not Met**
 - Warrant 3, Peak Hour : **Not Met**

Warrant 2: Four-Hour Volume

100%

Warrant Evaluated? Yes
Warrant Satisfied? No
Manually Set To:

Hour Start	16:00	7:00	15:00	17:00
Major Road Vol.	1322	1189	1113	1083
Minor Road Vol.	120	111	129	100

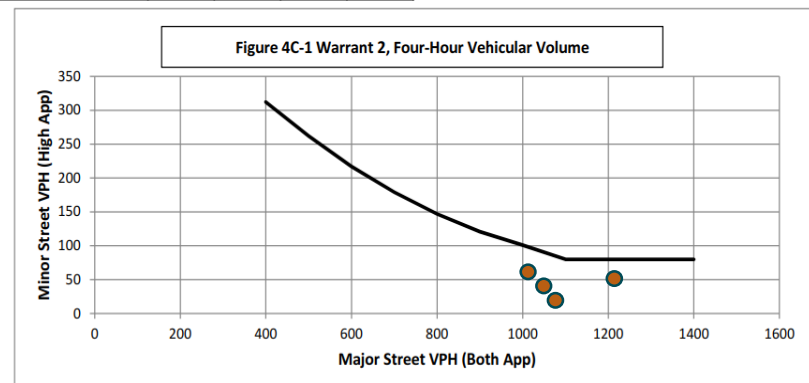


Warrant 2: Four-Hour Volume

100%

Warrant Evaluated? Yes
Warrant Satisfied? No
Manually Set To:

Hour Start	16:00	17:00	15:00	7:00
Major Road Vol.	1215	1007	1048	1079
Minor Road Vol.	52	62	43	19



- Main St & Doty Ave
 - Warrant 1, 8 Hour : **Not Met (0 of 8 hours met)**
 - Warrant 2, 4 Hour : **Not Met**
 - Warrant 3, Peak Hour : **Not Met**

Recommendations For Further Review

- Intersection Control Evaluations

- Main St & Green Bay Rd


- Roundabout Alternative
 - Additional Lane Configurations
 - Signal Phasing Modifications

- Commercial St & Winneconne Ave

- Four Leg Roundabout Alternative
 - Five Leg Roundabout Alternative
 - Additional Lane Configurations
 - Signal Phasing Modifications

- Main St & Torrey St

- Roundabout
 - Traffic Signal
 - Review vertical grade concerns

 PHASE I: ICE MEMORANDUM BUREAU OF TRAFFIC OPERATIONS

To: [DOT ICE Reviewer](#)
From: ICE Submitter
Date: [Click here to enter a date.](#)
RE: Project ID #
Intersection Name
City/Town/Village, County
[Choose an item.](#)

Project Description:
Include the need for project, scope of project, and existing conditions.

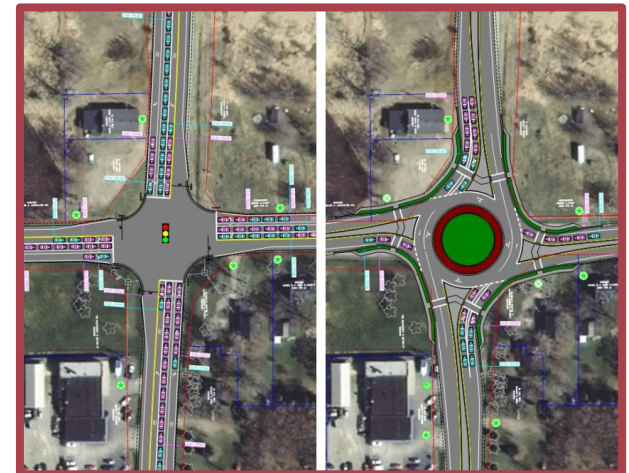
Alternatives:
If the Phase I: ICE Brainstorming Guide is not used, please list ALL alternatives considered with a brief description. Reference the Phase I: ICE Brainstorming Guide as appropriate.

Safety Considerations:
Include a crash diagram or other method to demonstrate safety concerns.

Operational Analysis:
Summarize operational concerns and/or evaluate warrants and conduct capacity analysis using the latest HCM edition.

Other Considerations:
Include any other factors or information that affected the decisions resulting from the scoping analysis.

Feasibility of Alternatives:
If the Phase I: ICE Brainstorming Guide is not used, please discuss the feasibility of each of the alternatives identified. Reference the Phase I: ICE Brainstorming Guide as appropriate.



Recommendations For Further Review

- Parking Ramp Alternative Analysis

- Evaluation of alternative locations
- Location impacts to existing traffic
- Serviceability of locations

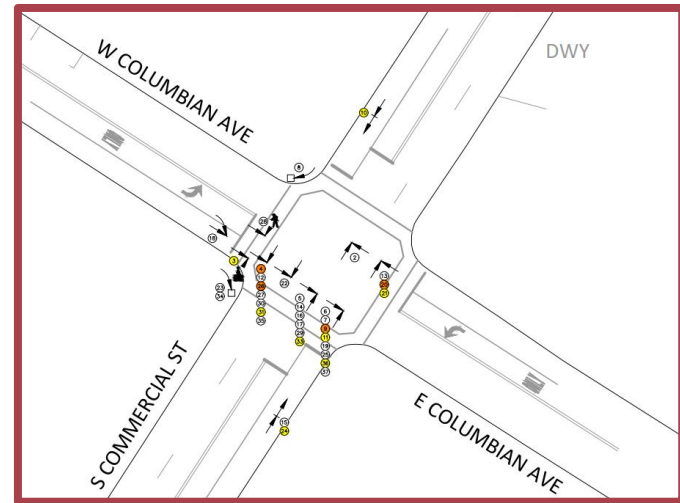
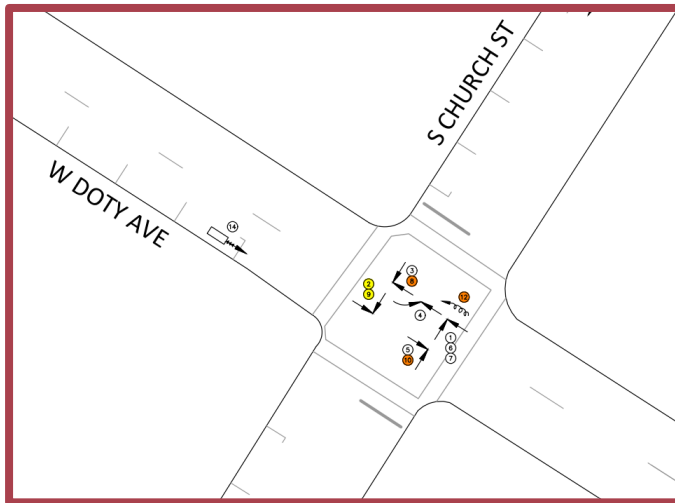


- Traffic Flow Alternatives Analysis

- Encourage alternative routes
- Better balance competing movements at intersections

Recommendations For Further Review

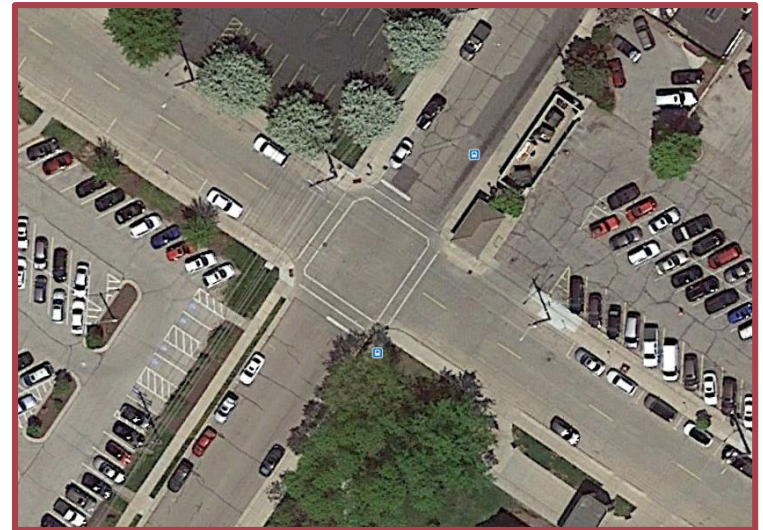
- Road Safety Assessments
 - Doty Avenue & Church Street
 - High Number of Crash Incidents – Low Volume
 - Columbian Avenue & Commercial Street
 - High Number of Crash Incidents – Right Angle Crashes



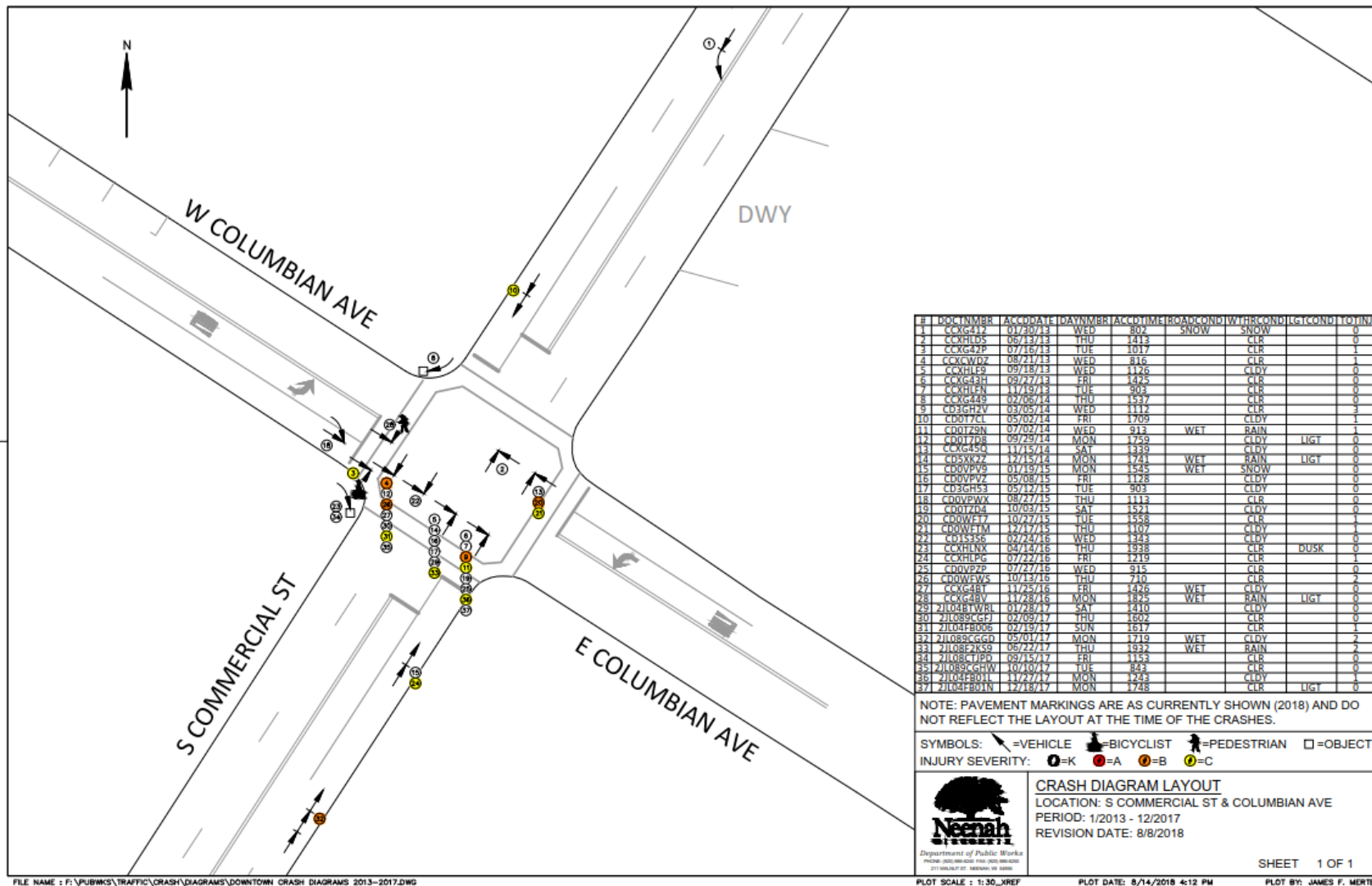


Church St & Doty Ave

- Currently Stop Controlled North/South on Church St
- All-Way Stop Warrants – Not Met MUTCD
 - Minimum Volume *At Least* 300 vph for min 8 Hours
 - AM Peak Hour 153 on N/S, 122 on E/W
 - PM Peak Hour 195 on N/S, 152 on E/W
 - WisDOT Supplemental Criteria
 - Similar Function Class – Met
 - Closely Balanced ADT – Met
 - Crash History – Not Met



Columbian Avenue & Commercial Street Crash Diagram



FILE NAME : F:\PUB\WCS\TRAFFIC\CRASH\DIAGRAMS\DOWNTOWN CRASH DIAGRAMS 2013-2017.DWG

PLOT SCALE : 1:30_XREF

PLOT DATE: 8/14/2018 4:12 PM

SHEET 1 OF 1

PLOT BY: JAMES F. MERTEN

Crash Diagram Layout

Location: S Church St & W Doty Ave

Period: 1/2013 - 12/2017

Revision Date: 8/8/2018

#	DOCL NUMBER	ACCDATE	DAYNUMBER	ACCDTIME	ROADCOND	WTHRCOND	LGTCND	TOT INJ
1	CCXBDW	05/03/13	FRI	1305	WET	CLDY		0
2	CD3GHD	09/23/13	FRI	1305	WET	CLDY		1
3	CCXWGE	02/16/14	SUN	147	SNOW	SNOW	LIGHT	0
4	CCXHLG	03/20/14	THU	1634		CLR		0
5	CCXHLN	03/28/14	MON	1645	WET	RAIN		0
6	CD3GHS	05/13/14	THU	1244		CLDY		0
7	CD0VPW	07/30/15	THU	827		CLR		0
8	CD0WSP	08/15/15	SAT	336		CLR	LIGHT	1
9	CD3GHS	12/15/15	TUE	1020		CLDY		3
10	CD3GHS	10/25/16	WED	1652	WET	RAIN		4
11	21104FB00	04/24/17	MON	1802		CLR		1
12	21104BTW50	08/09/17	WED	1030		CLR		1
13	21104BTW54	09/01/17	FRI	936		CLDY		0
14	21104BTW55	09/22/17	FRI	1219		CLR		0

SYMBOLS: =VEHICLE =BICYCLIST =PEDESTRIAN =OBJECT

INJURY SEVERITY: =K =A =B =C

Neenah
Department of Public Works
PHONE: 920.866.6611 FAX: 920.866.6612
211 WALSH ST. WAUKESHA, WI 53090

Crash Diagram Layout
LOCATION: S Church St & W Doty Ave
PERIOD: 1/2013 - 12/2017
REVISION DATE: 8/8/2018

SHEET 1 OF 1