



1. Project Identification

PROJECT LOCATION MAP INTERSECTION OF STH 19/CTH N/E. MAIN STREET AT CHURCH STREET SUN PRAIRIE, WISCONSIN

3-face signal on metal light pole with pedestrian walk/don't walk indicators









Multiple 3-face signals on metal pole with pedestrian walk/don't walk indicators

**3b. Existing Conditions** 

## Traditional metal signal poles attached to concrete bases

## Metal base appears to be cracked







**3b. Existing Conditions** 

Pedestrian push button





Signal with pedestrian countdown timer (Ped timer - NW corner only)

Pedestrian push button
- awkward placement
with proximity to fire hydrant

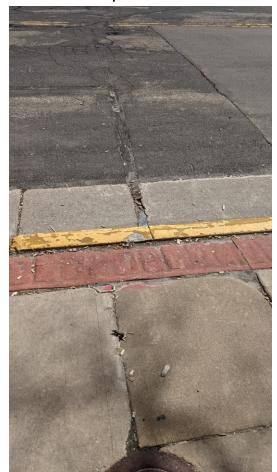






**3b. Existing Conditions** 

Loop detection locations have deteriorating pavement







**3b. Existing Conditions** 

## Existing signal controller cabinet requires painting



It is recommended that video detection be installed at this intersection.

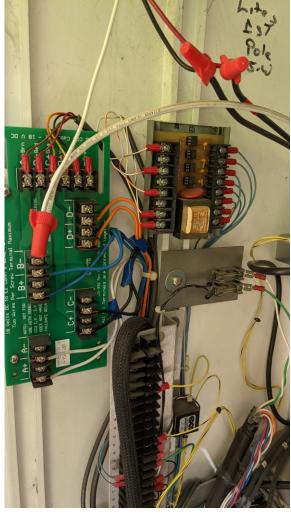




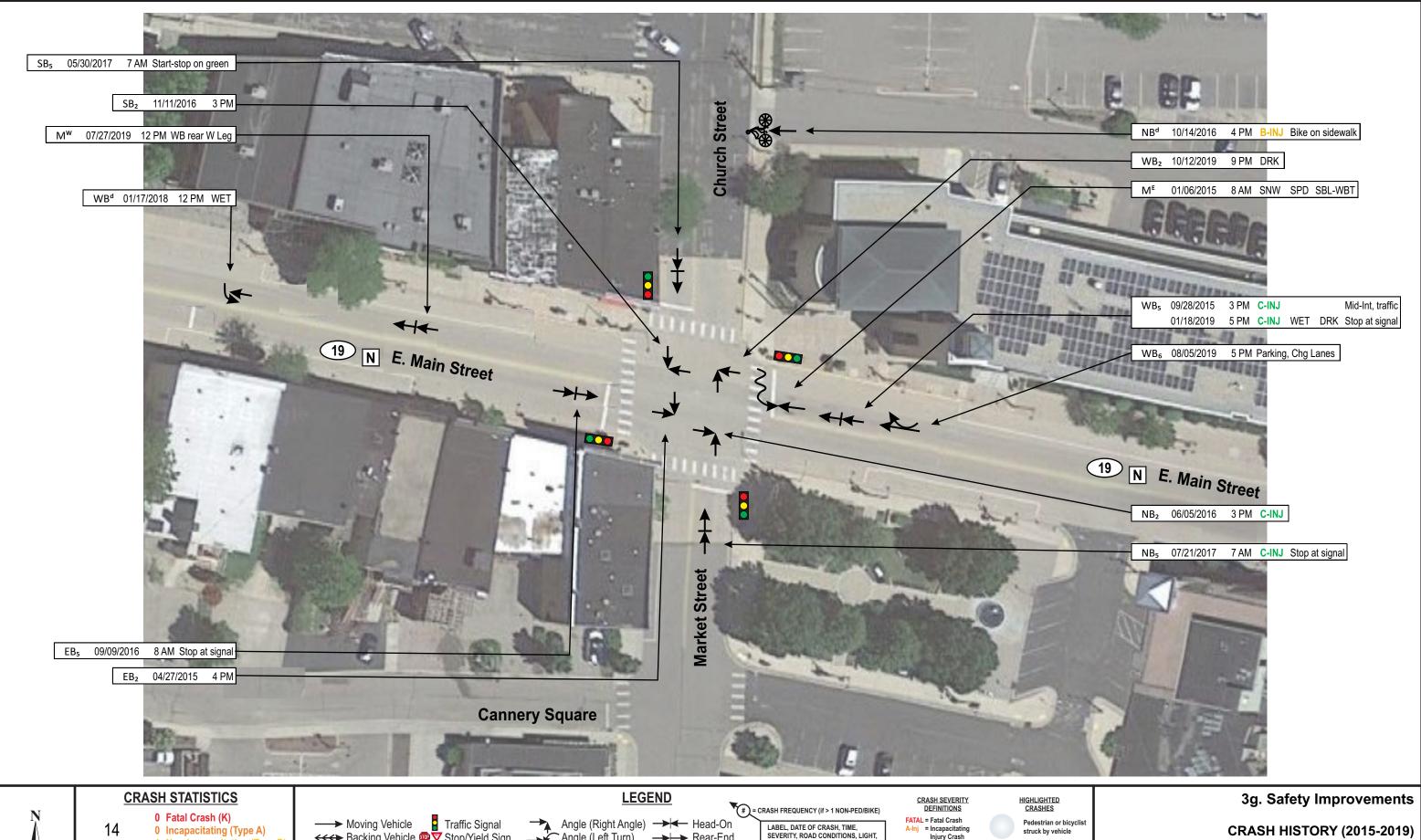
SIEMENS MODEL: 8133-0000-099 S/O: 3006739572 DATE CODE: H17 SER #: 158066







**3b. Existing Conditions** 



0 Incapacitating (Type A)

4 Possible (Type C) 9 Property Damage Only

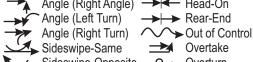
0.60 Crashes Per Million Entering Vehicles

Crashes

← Backing Vehicle ▼ Stop/Yield Sign ---- Pedestrian 🏌 ----- Bicyclist

Parked Vehicle

Fixed Object





SEVERITY, ROAD CONDITIONS, LIGHT, ALCOHOL, DRUGS, SPEED-RELATED, NOTES ABOUT CRASH

Note: Deer Crashes Not Included \*Economic Loss = \$85k (KAB), \$25k (C),\$4k (PDO)

= Non-Incapacitating

Injury Crash
= Property Damage
Only Crash

struck by vehicle

**CRASH HISTORY (2015-2019)** INTERSECTION OF E. MAIN STREET/STH 19/CTH N & **CHURCH STREET/MARKET STREET SUN PRAIRIE, WISCONSIN** 

## **COST SUMMARY**

\$ 30,600 \$ -\$ 244,800 \$ 275,400 Design: Real Estate: Construction: **Total Project Cost:** Municipal Funding (10%\*): \$ 27,540

\*10% of Design and Construction Cost

4. Project Cost

SIGNAL ITEMS						
Conceptual Cost Estimate						
Main at Church						
Sun Prairie, WI						
4/7/2021						
ltem	Quantity	l	Unit Price		Total	
Remove existing signal items	1	\$	4,500.00	\$	4,500.00	
Overhead signals w/trombone arms	4	\$	8,500.00	\$	34,000.00	
Signal standards	4	\$	2,250.00	\$	9,000.00	
Vehicular signal heads	12	\$	925.00	\$	11,100.00	
Pdestrian signal heads	8	\$	675.00	\$	5,400.00	
Pedestrian push buttons	8	\$	625.00	\$	5,000.00	
Replacement wiring and misc.	1	\$	49,000.00	\$	49,000.00	
Video vehicle detection	1	\$	24,000.00	\$	24,000.00	
Street lighting adjustments	1	\$	15,000.00	\$	15,000.00	
Mobilization	1	\$	12,500.00	\$	12,500.00	
Traffic control	1	\$	4,500.00	\$	4,500.00	
Temporary signals	1	\$	30,000.00	\$	30,000.00	
Contingencies	10%			\$	20,400.00	
Design Engineering	15%			\$	30,600.00	
Construction Engineering	10%			\$	20,400.00	
Total				\$	275,400.00	