



Wisconsin Department of Transportation

October 18, 2023

Division of Transportation Systems Development
Bureau of Project Development
4822 Madison Yards Way, 4th Floor South
Madison, WI 53705

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Facsimile (FAX): (608) 266-8459

NOTICE TO ALL CONTRACTORS:

Proposal #14: 6085-02-75, WISC 2024025
Mazomanie - Sun Prairie
USH 151 Interchange
STH 19
Dane County

6085-02-77, WISC 2023359
C Sun Prairie, Windsor Street
N Thompson Rd Intr; Davison Dr Intr
STH 19
Dane County

Letting of November 14, 2023

This is Addendum No. 01, which provides for the following:

Special Provisions:

Revised Special Provisions	
Article No.	Description
23	Traffic Signal Controller and Cabinet, Item SPV.0060.02

Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
42	Traffic Signal Plan - N Thompson Road (Controller Type Change)
43	Sequence of Operations - N Thompson Road (Controller Type Change)
45	Traffic Signal Plan - Davison Drive (Controller Type Change)
46	Sequence of Operations - Davison Drive (Controller Type Change)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

Mike Coleman

Proposal Development Specialist
Proposal Management Section

ADDENDUM NO. 01
6085-02-75/6085-02-77
October 18, 2023

Special Provisions

23. Traffic Signal Controller and Cabinet, Item SPV.0060.02

Replace entire section titled I Traffic Signal Controller with the following:

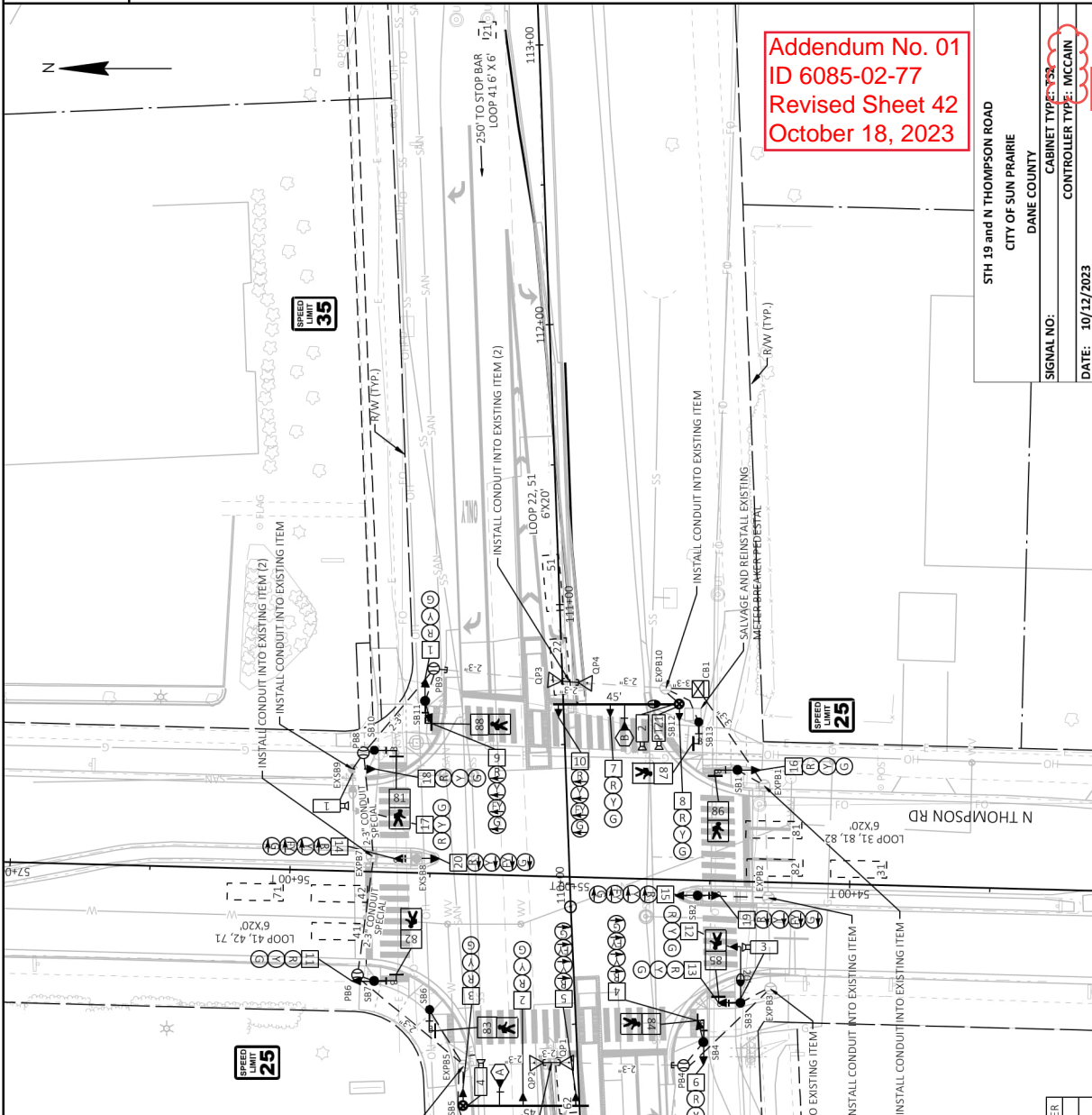
I Traffic Signal Controller

Provide a fully actuated, solid-state, digital microprocessor based McCain Flex TS-2 Type 1 controller (Part Number TS2-1 M73101SWC2) capable of providing the number and sequence of phases, overlaps, and any special logic as described herein. The controller unit shall meet and be operational for the NEMA TS2 Standard, Section 3, specifications for the Type 2 Actuated (A1) configuration. The controller unit shall be capable of being upgraded by only a firmware/software installation to meet and be operational for the NEMA TS2 Standard, Section 3, specifications for the Type 2 Actuated/NTCIP (A1N, Level 2) configuration.

Plan Sheets

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:
Revised: 42, 43, 45 and 46.

END OF ADDENDUM



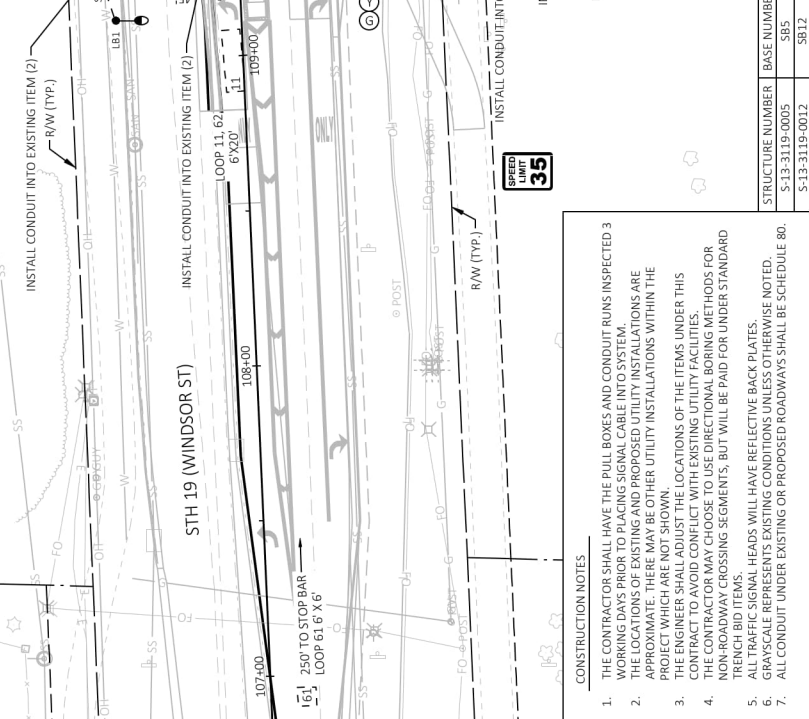
Addendum No. 01
ID 6085-02-77
Revised Sheet 42
October 18, 2023

LEGEND

	TRAFFIC SIGNAL CONTROLLER, CABINET, & CONCRETE BASE
	CONDUIT RIGID NONMETALLIC ONE 2-INCH, UNLESS OTHERWISE NOTED
	SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, & CONCRETE BASE
	SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, & CONCRETE BASE
	SPECIAL MONOTUBE BASE, POLE, 35'-45' ARM
	PEDESTRIAN HEAD WITH PUSH BUTTON
	LUMINAIRE
	MICROWAVE DETECTION
	PULL BOXES STEEL, 24X36-INCH
	PULL BOXES NON CONDUCTIVE, 24X42-INCH
	PULL BOXES STEEL, 12X24-INCH

EVP DETECTOR HEAD AND DESIGNATOR
 PTZ CAMERA
 VIDEO DETECTION ZONE
 SIGNAL HEAD NUMBER
 RED CIRCULAR INDICATOR
 YELLOW CIRCULAR INDICATOR
 GREEN CIRCULAR INDICATOR
 RED ARROW
 YELLOW ARROW
 GREEN ARROW
 QUANTITY POINT (NON-PHYSICAL ITEM)
 PEDESTRIAN SIGNAL FACE 16-INCH

NOTE: ALL LENSES ARE 12-INCH



- CONSTRUCTION NOTES**
- THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
 - THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 - THE ENGINEER SHALL ADJUST THE LOCATIONS OF THE ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
 - THE CONTRACTOR MAY CHOOSE TO USE DIRECTIONAL BORING METHODS FOR NON-ROADWAY CROSSING SEGMENTS, BUT WILL BE PAID FOR UNDER STANDARD TRENCH BID ITEMS.
 - ALL TRAFFIC SIGNAL HEADS WILL HAVE REFLECTIVE BACK PLATES.
 - APPROXIMATE REFLECTIVE GOODNESS VALUES UNLESS OTHERWISE NOTED.
 - ALL CONDUIT UNDER EXISTING OR PROPOSED ROADWAYS SHALL BE SCHEDULE 80.

PROJECT NO:	6085-02-77	HWY:	STH 19
FILE NAME:	S:\WAD\1000-0099\104\1007\DRAWINGS\CAD\CIVIL\30\60850207\SHETSPLAN\02-0201.SP.DWG		
LAYOUT NAME:	04-0201-SP		
COUNTY:	DANE	TRAFFIC SIGNAL PLAN - N THOMPSON ROAD	1 IN=40 FT
DATE:	10/12/2023 1:01 PM	FLYBY:	WALKER, KURT
DATE:	10/12/2023	DATE:	10/12/2023
SIGNAL NO:		CABINET TYPE:	732
		CONTROLLER TYPE:	MCCAIN
		CITY OF SUN PRAIRIE	
		DANE COUNTY	
		SHEET	42
			E

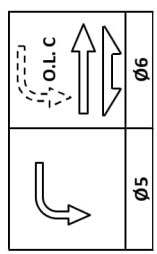
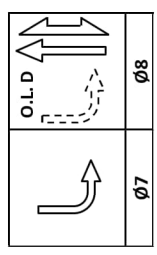
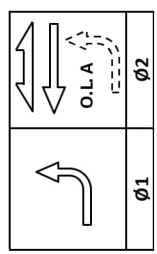
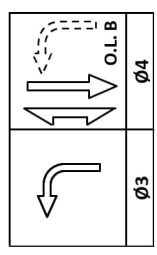


TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
CLOSED LOOP	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWARE	
OPTICOM	X
LIFT BRIDGE	
QUEUE DETECTION	



BARRIER

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	←	→		
PHASE	2+5	6+1		

AFTER PREEMPTION SEQUENCE A, CONTROLLER SHALL RETURN TO PHASES 2+5.
 AFTER PREEMPTION SEQUENCE B, CONTROLLER SHALL RETURN TO PHASES 6+1.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	6	MIN	X
3				X
4		8		X
5				X
6	X	2	MIN	X
7				X
8		4		X

DETECTOR LOGIC

DETECTOR INPUT	19	17	23	21	27	25	31	29	DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)									DETECTOR INPUT								
CALLED PHASE									PLAN LOOP DETECTOR*(S)								
CALL OPTION									CALL OPTION								
DELAY TIME									DELAY TIME								
EXTENSION OPTION									EXTENSION OPTION								
EXTEND TIME									EXTEND TIME								
USE ADDED INITIAL									USE ADDED INITIAL								
CROSS SWITCH PHASE									CROSS SWITCH PHASE								

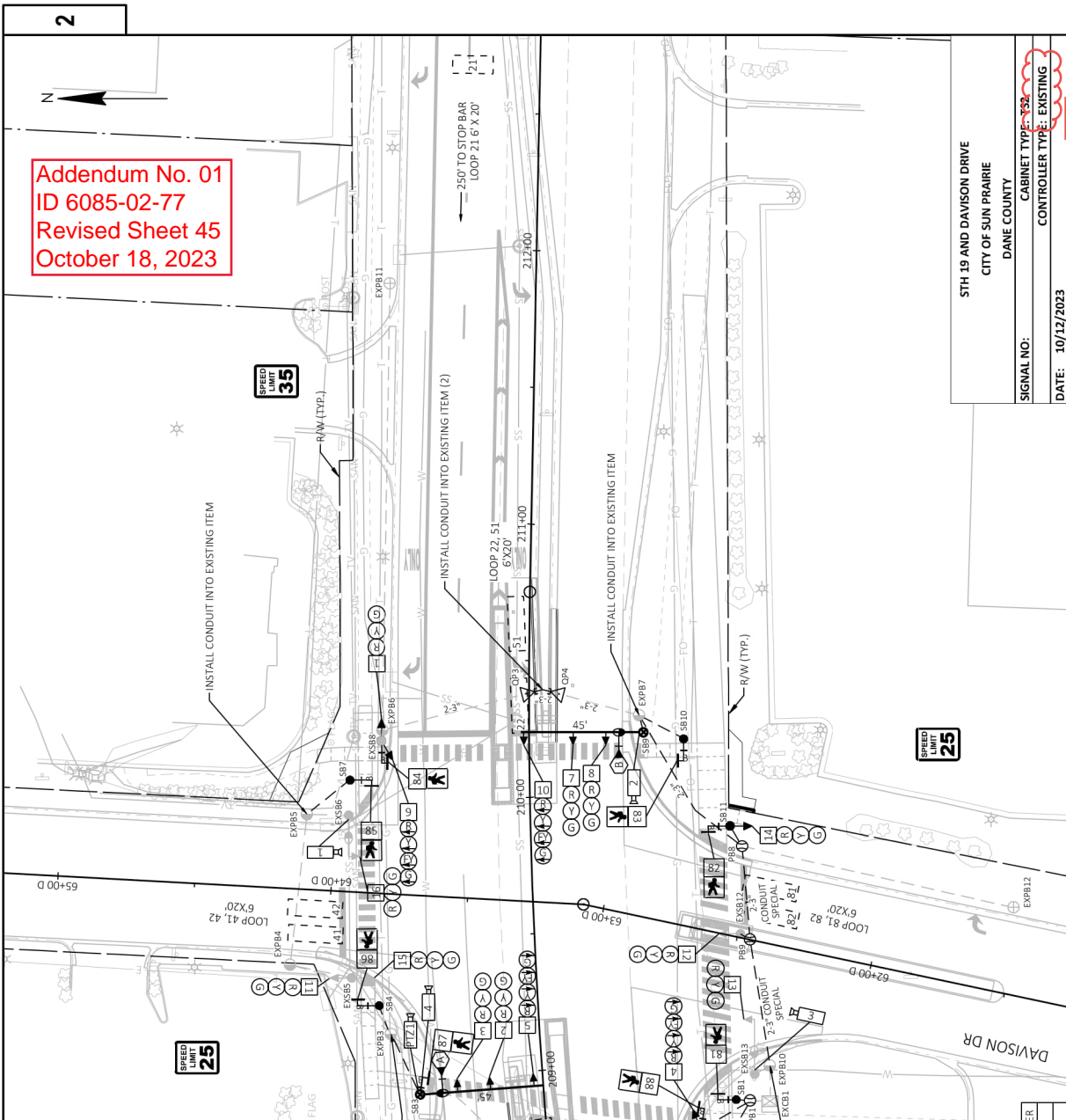
GENERAL NOTES:

Addendum No. 01
 ID 6085-02-77
 Revised Sheet 43
 October 18, 2023

5TH 19 and N THOMPSON ROAD
CITY OF SUN PRARIE
DANE COUNTY
SIGNAL NO:
CABINET TYPE: 132A
CONTROLLER TYPE: MCCAIN
DATE: 10/12/2023

Addendum No. 01
 ID 6085-02-77
 Revised Sheet 45
 October 18, 2023

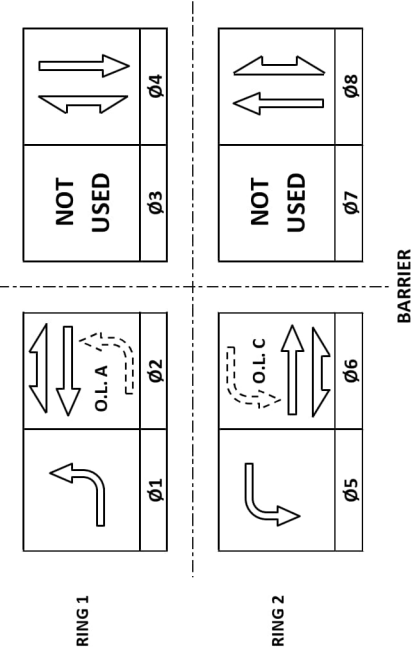
LEGEND	
	TRAFFIC SIGNAL CONTROLLER, CABINET, & CONCRETE BASE
	CONDUIT RIGID NONMETALLIC ONE 2-INCH, UNLESS OTHERWISE NOTED
	SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, & CONCRETE BASE
	SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, & CONCRETE BASE
	SPECIAL MONOTUBE BASE, POLE, 35'-45' ARM
	PEDESTRIAN HEAD WITH PUSH BUTTON
	LUMINAIRE
	MICROWAVE DETECTION
	PULL BOXES STEEL, 24X36-INCH
	PULL BOXES NON CONDUCTIVE, 24X42-INCH
	PULL BOXES STEEL, 12X24-INCH
	EVP DETECTOR HEAD AND DESIGNATOR
	PTZ CAMERA
	VIDEO DETECTION ZONE
	SIGNAL HEAD NUMBER
	RED CIRCULAR INDICATOR
	YELLOW CIRCULAR INDICATOR
	GREEN CIRCULAR INDICATOR
	RED ARROW
	YELLOW ARROW
	GREEN ARROW
	QUANTITY POINT (NON-PHYSICAL ITEM)
	PEDESTRIAN SIGNAL FACE 16-INCH
	NOTE: ALL LENSES ARE 12-INCH



- CONSTRUCTION NOTES
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
 3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF THE ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
 4. THE CONTRACTOR MAY CHOOSE TO USE DIRECTIONAL BORING METHODS FOR NON-ROADWAY CROSSING SEGMENTS, BUT WILL BE PAID FOR UNDER STANDARD TRENCH BID ITEMS.
 5. ALL TRAFFIC SIGNAL HEADS WILL HAVE REFLECTIVE BACK PLATES.
 6. ALL PULL BOXES REFERRED TO AS EXISTING GOOD UNLESS OTHERWISE NOTED.
 7. ALL CONDUIT UNDER EXISTING OR PROPOSED ROADWAYS SHALL BE SCHEDULE 80.

PROJECT NO: 6085-02-77	HWY: STH 19	COUNTY: DANE	TRAFFIC SIGNAL PLAN - DAVISON DRIVE	SHEET	45	E
FILE NAME: S:\WAD\1000-1099\104\1007\DRAWINGS\CAD\CIVIL\30\60850207\SHETSPLAN\02-0201.SP.DWG	LAYOUT NAME: 02-0201-SP	PLOT DATE: 10/12/2023 1:01 PM	PLOT BY: WALKER, KURT	PLOT NAME: 1 IN=40 FT	DATE: 10/12/2023	WISDOT/CADD SHEET 42
STRUCTURE NUMBER: 5-13-3120-0003		BASE NUMBER: SB3	SIGNAL NO: 82			
S-13-3120-0009		SB9	CABINET TYPE: 732			
			CONTROLLER TYPE: EXISTING			
			DANE COUNTY			
			CITY OF SUN PRAIRIE			
			STH 19 AND DAVISON DRIVE			

HEAD NUMBERS	F	L	A	A	H	R	R
Ø1							
Ø2							
Ø3							
Ø4							
Ø5							
Ø6							
Ø7							
Ø8							
Ø2P							
Ø4P							
Ø6P							
Ø8P							



TYPE OF INTERCONNECT/COMMUNICATION	X
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	X
NONE	X
TBC	
TRAFFIC RESPONSIVE	
CLOSED LOOP	
ADAPTIVE	
*LOCATION OF MASTER	S-
CONTROLLER NO:	SS-
SIGNAL SYSTEM NO:	

TYPE OF LIGHTING	X
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	X
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWARE	
OPTICOM	X
LIFT BRIDGE	
QUEUE DETECTION	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	6	MIN	X
3				X
4		8		X
5				X
6	X	2	MIN	X
7				X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE	A	B	C	D
MOVEMENT	←	→	↔	
PHASE	2-5	6+1		

AFTER PREEMPTION SEQUENCE A, CONTROLLER SHALL RETURN TO PHASES 2-5.
 AFTER PREEMPTION SEQUENCE B, CONTROLLER SHALL RETURN TO PHASES 6+1.

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR(S)	11	22	42	61	81			
CALLED PHASE	1	2	4	6	8			
CALL OPTION								
DELAY TIME					X			
EXTENSION OPTION								
EXTEND TIME				X				
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR(S)	21	41	51	62	82			
PHASE CALLED	2	4	5	6	8			
CALL OPTION			X					
DELAY TIME								
EXTENSION OPTION								
EXTEND TIME			X					
USE ADDED INITIAL								
CROSS SWITCH PHASE								

GENERAL NOTES:

- 1.
- 2.
- 3.
- 4.

Addendum No. 01
 ID 6085-02-77
 Revised Sheet 46
 October 18, 2023

STH 19 AND DAVISON DRIVE CITY OF SUN PRAIRIE DANE COUNTY
SIGNAL NO:
CABINET TYPE: 022
CONTROLLER TYPE: EXISTING
DATE: 10/12/2023