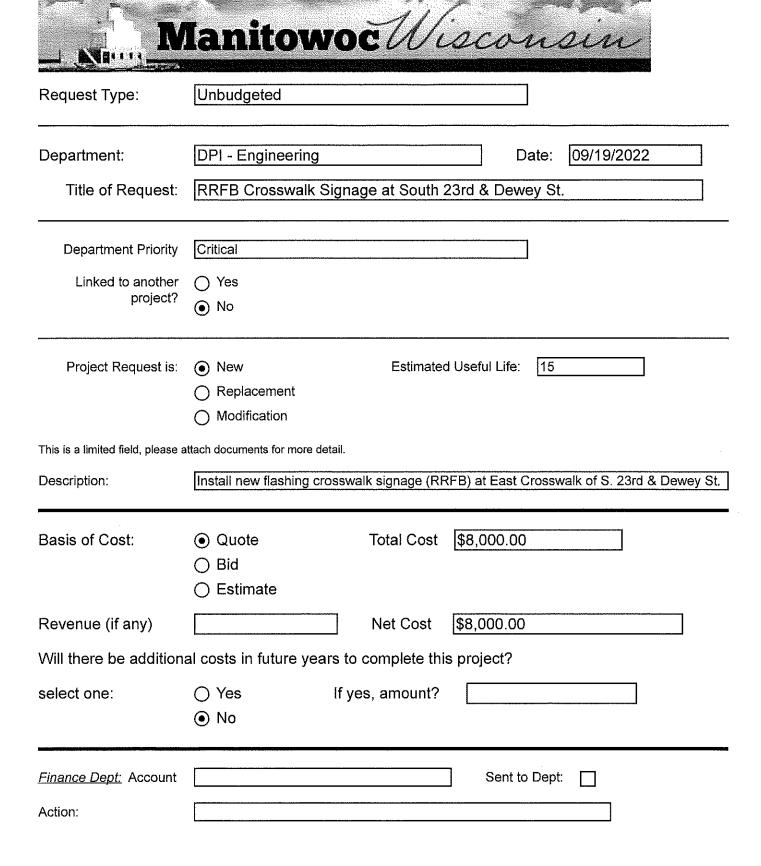
Capital Project Request Form





Standing Committee:

22-0773

Action:				
Place on 1	File - No Co	ancil action nee	ded	
Refer to:	Financ	e/cawe	}	
Refer to	Council	Con	sent C	Non-Consent
Committe	ee Recomme	endation:		
In	stall RI	2FB's «_ (at the int	ersection of
S. Obya	St Dewer	15t. Submit	- unbudgeted	causi reque
	- 2			
Attest:	Chair	Alderperson Bill Sch	lei	Date
	4	284 Red	ell.	
	Alder	person Todd Reckelber	g	
	O.	Van		-
	Alder	person Brett Vanderkin		
		Blut		
	Alder	person Tim Boldt		***
	Davis	n Kadu	alch	
	Alder	person Darian Kaderab	ek	
Approved:				
	Justin	M. Nickels		Date

Mayor

Public Safety Committee

Document Name: Request for Rapid Flashing Beacon signs to be installed at the

intersection of S. 23rd Street and Dewey Street.

Kim Lynch

From: Kim Lynch

Sent: Tuesday, September 20, 2022 10:22 AM

To: Adam Tegen; Nick Reimer; Todd Blaser; Dan Koski; Jeremy Walvoord; Greg Vadney; Kim Lynch

Subject: CAWG request for RRFB S 23 & Dewey **Attachments:** CAWG request RRFB S 23 & Dewey.pdf

Tracking:	Recipient	Response
	Adam Tegen	Approve: 9/20/2022 10:24 AM
	Nick Reimer	Approve: 9/20/2022 10:44 AM
	Todd Blaser	Approve: 9/20/2022 10:32 AM
	Dan Koski	Approve: 9/20/2022 10:25 AM
	Jeremy Walvoord	Approve: 9/20/2022 12:24 PM
	Greg Vadney	
	Kim Lynch	Approve: 9/20/2022 10:50 AM

This is unbudgeted, so this will need to go to the Finance Committee.

Use voting buttons above.

Kim Lynch | Interim Finance Director

City of Manitowoc 900 Quay Street Manitowoc, WI 54220 (920) 686-6962



Amber Noworatzky

From:

Greg Minikel

Sent:

Wednesday, August 31, 2022 9:43 AM

To:

Tim Boldt; Dan Koski

Cc:

Bill Schlei; Nick Reimer; Amber Noworatzky; Mark DeZeeuw; 'Amy Jo Deringer'

Subject:

RE: 23rd And Dewey

Attachments:

External: Carmanah R920 RRFB Quote, Info; Traffic Count Summary 2017 - S. 23rd &

Dewey St..pdf

Hi Ald. Boldt,

I was looking into this a little bit as well and also talked to Dan and the Chief about it.

The PS Comm. only wanted us to install advanced warning signs for the crosswalk, which we did.

We could hire a consultant to do the traffic counts and analyze the data for a possible traffic signal, but this would cost around \$5,000 based on quotes we received for 3 other intersections. Dan and I do not believe that the traffic data will meet the requirements or meet the warrants for a traffic signal.

Therefore, the Chief and I were thinking that maybe it just makes sense to simply install the RRFB's on the east crosswalk. Based on the 2017 traffic counts, there were more pedestrians crossing at the east crosswalk than the west one.

I received a quote last week from Decker supply to install a new RRFB at the east crosswalk of the intersection at a cost of \$8,000. The cost to do both crosswalks would be about \$16,000.

So, it would only be another \$3,000 more than just doing the traffic count study and analysis.

I guess we can certainly discuss this at the next PS Committee if you and the Chairman want to put it on the agenda.

Assuming the P.S. Committee approves the RRFB's, we would still have to take this request to the CAWG for approval of an unbudgeted item.

----Original Message----

From: Tim Boldt

Sent: Tuesday, August 30, 2022 9:09 PM

To: Dan Koski <dkoski@manitowoc.org>; Greg Minikel <gminikel@manitowoc.org> Cc: Bill Schlei
bschlei@manitowoc.org>; Nick Reimer <nreimer@manitowoc.org>

Subject: Re: 23rd And Dewey

Good evening gentleman,

As I was reviewing my emails, I noticed that I needed to be more specific on this one.

We had a discussion on the possibility of putting up traffic lights on this intersection.

The main issue of the complaints, is the kids needing to cross before and after school.

The original study was from 2017. However, since then the schools age group has changed. Brining in even younger children to cross that road.

Thanks for taking the time to review this.

Tim Boldt

Amber Noworatzky

From:

Grea Minikel

Sent:

Tuesday, August 23, 2022 4:00 PM

To:

Nick Reimer; Dan Koski

Cc:

Mark DeZeeuw; Amber Noworatzky

Subject:

FW: 23rd And Dewey

According to the January 10, 2022 PS Comm. Meeting Minutes, they wanted us to install advance crosswalk ahead signs in both directions, which we did in short order.

There is nothing in the minutes about doing a study before school was out, unless it is on the video of the meeting, but not in the minutes. So, I am a little confused by Ald. Boldt's comments below.

It would cost us right around \$5,000 to have a consultant do the traffic study and analyze the data, based on quotes I got from TADI last December for 3 other intersections.

It will only cost about \$7,000 to \$9,000 to install the RRFB's. I have asked Decker Supply to get us a quote.

So, Nick and I are thinking, maybe we just install the RRFB's and save the money on the traffic count data and put it towards the RRFB's.

Even if the PS Committee approves it, we would still need to submit an unfunded or unbudgeted request to the CAWG for funding of the project.

----Original Message----

From: Tim Boldt

Sent: Saturday, August 20, 2022 8:01 AM

To: Dan Koski <dkoski@manitowoc.org>; Greg Minikel <gminikel@manitowoc.org> Cc: Bill Schlei
bschlei@manitowoc.org>; Nick Reimer <nreimer@manitowoc.org>

Subject: 23rd And Dewey

Good Morning gentlemen,

In early spring, we addressed this problem after I received some complaints (possibly installing stop lights). Well kids are going back to school and I am receiving them again. I drive this route everyday, and the complaints do merit concerns. (Driver's driving habits definitely are an issue) A study was supposed to be done before school let out. What was the results?

Do we want to measure it with our traffic measuring device once school is in session? This would give us two different time frames for our data, to move forward. I could have this put on the Public Safety Agenda Please let me know which route we would like to take.

Thank You

Tim Boldt

Sent from my iPad

Sent from my iPad

- > On Aug 20, 2022, at 8:00 AM, Tim Boldt <tboldt@manitowoc.org> wrote:
- >
- > Good Morning gentlemen,
- > In early spring, we addressed this problem after I received some
- > complaints (possibly installing stop lights). Well kids are going back to school and I am receiving them again. I drive this route everyday, and the complaints do merit concerns. (Driver's driving habits definitely are an issue) A study was supposed to be done before school let out. What was the results?
- > Do we want to measure it with our traffic measuring device once school
- > is in session? This would give us two different time frames for our data, to move forward. I could have this put on the Public Safety Agenda Please let me know which route we would like to take.
- > Thank You
- > Tim Boldt
- > Sent from my iPad

WISCONSIN STATE HIGHWAY COMMISSION TRAFFIC DEPARTMENT VEHICLE VOLUME COUNT

GRAPHIC SUMMARY SHEET FIGURE DATE JUNC 9, 17 DAY THURSday WEATHER SUN WARM TIME GAM TO 10pm LOCATION: DISTRICT__ COUNTY MANITOWOL RURAL_ CITY Manitowoc S. 23rd St. INTERSECTION. **OBSERVERS** SHEET OFTotal CAES/Thicks+ TRUCK - MORE THAN 4 Pedestrians: 2 ACCUMULATED TOTALS IN BOX WITH ARROWS (INCL.

11,434

Counted together

* CAR & Trucks were

TRUCKS)

ARROW

(3) * TRUCK IN BOX WITHOUT

4 TIME TOTALS COMPUTED FROM

LETTERED BOXES (ALL VEH.)

R920-E RECTANGULAR RAPID FLASHING BEACON



MUTCD-compliant, pedestrian-activated warning beacon for uncontrolled marked crosswalks

- The R920-E is the benchmark for Rectangular Rapid Flashing Beacons (RRFBs)
- Ultra-efficient optics and Energy Management System (EMS)
- Compact design to simplify installation
- · Proven technology platform

Meets and exceeds MUTCD requirements, including IA-21

RRFBs have been found to provide vehicle yielding rates between 72 and 96 percent for crosswalk applications, including 4 lane roadways with average daily traffic (ADT) exceeding 12,000*.

Superior Design and Technology

The R920-E utilizes a self-contained solar engine integrating the Energy Management System (EMS) with an on-board user interface, housed in a compact enclosure together with the batteries and solar panel. MUTCD interim approval IA-21 flash pattern and multiple configurations enable the R920-E to handle all crosswalk applications.

Easy Installation

With its highly efficient and compact design, installation is quick and uncomplicated, dramatically reducing installation costs. Retrofitting can be done where existing sign bases are used to enhance existing marked crosswalks in minutes, and new installations can be completed without the cost of larger poles, new bases, and trenching.

Advanced User-Interface

The R920-E comes with an on-board user interface for quick configuration and status monitoring. It allows for simple in-the-field adjustment of flash pattern, duration, intensity, ambient auto adjust, night dimming, and many more. Settings are automatically sent wirelessly to all units in the system.

Reliable

Designed with Carmanah's industry-leading solar modeling tools to provide dependable year-after-year operation.

Trusted

With thousands of installations, Carmanah's beacons are the benchmark in traffic applications and other transportation applications worldwide.



WE SIMPLIFY PLANNING.

Contact us to get your Energy Balance Report and purchase specifications.

1.844.412.8395

★ traffic@carmanah.com

carmanahtraffic.com

REPRESENTED IN YOUR REGION BY:

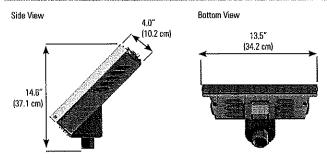
U.S. Department of Transportation Federal Highways Administration, Publication No. FHWA-HRT-10-043 -"Effects of Yellow Rectangular Rapid-Flashing Beacons on Yielding at Multilane Uncontrolled Crosswalks"

R920-E RECTANGULAR RAPID FLASHING BEACON

* carmanah° Traffic

1.844.412.8395 | traffic@carmanah.com | carmanahtraffic.com

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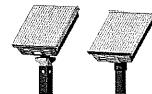
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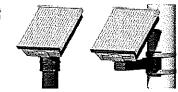
Square Pole Mount

2.0" - 2.5" Perforated 2.38" - 2.88" Diameter Round Pole Mount

4.0" - 4.5" Diameter Round Pole Mount

Side Pole Mount





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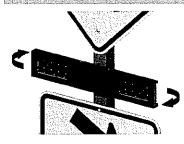
Uni-directional Configuration

Bi-directional Configuration





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Rotate the light bar towards the incoming vehicle lane, independent of the wire hole location.















America Walks



Specifications subject to local environmental conditions, and may be subject to change. All Carmanah products are manufactured in facilities that are certified to ISO quality standards. US Patent No 6,573,659, Other patents pending.

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Document: SPEC_TRA_R920-E_RevS

ļ	Adjustable system settings with auto-scrolling LED display on our latest EMS
	System test, status, and fault detection: battery, solar, button, beacon, radio, day/night
	Flash patterns: RFB1 (WW+S), RFB2 (WSDOT), 0.5 sec. alternating (MUTCD), 0.5 sec. unison (MUTCD), 0.1 sec. unison, 0.25 sec. unison, 0.1 sec. x3 quick flashes unison, 0.1 sec. x3 quick flashes alternating
	Input: momentary for push button activation, normally open switch, normally closed switch
	Flash duration; 5 sec. to 1 hr.
On-Board	Intensity setting: 20 to 1400 mA for multiple RRFBs, circular beacons, or LED enhanced signs
User Interface (OBUI)	Nighttime dimming: 10 to 100% of daytime intensity
	Ambient Auto Adjust: increases intensity during bright daytime
	Automatic Light Control: reduces intensity if the battery is extremely low
	Temperature correction: yellow or red beacons
	Calendar: internal time clock function
	Radio settings: enable/disable, selectable channel from 1 to 14
	Output: enabled when beacons flashing daytime and nighttime, or nighttime only
	Activation counts and data reporting via OBUI or optional USB connection
	MUTCD interim approval IA-21 and MUTCDC compliant
	Purpose-built light bar optics = maximum efficiency and no stray light
	Exceeds SAE J595 class 1 intensity by 2.5 to 3x when used as recommended Meets SAE J578 chromaticity
0-61	3 in (76 mm) x 7 in (178 mm) clear, UV-rated polycarbonate lens with yellow LEDs
Optical	High-power LEDs: +90% lumen maintenance (L90) based on IES LM-80
	Side-emitting pedestrian confirmation LEDs
	Independent, stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness
	Yellow, black, or green powder coated light bar covers
	Encrypted, wireless radio with 2.4 GHz mesh technology
	Wireless update of settings from any unit to all systems on the same radio channel
	User-selectable multiple channels to group different beacons and ensure a robust wireless signal
Connectivity	Communicates with all other Gen III radio-enabled systems including our R620-E, -F, and -G circular beacons
	Instantaneous wireless activation: <150 ms
	Wireless range: 1000 ft (305 m)
	Integrated, vandal-proof antenna
	13 W high-efficiency photovoltaic solar panel
Energy	45 deg tilt for optimal energy collection
Collection	Maximum Power Point Tracking with Temperature Compensation (MPPT-TC) battery charger for optimal energy collection in all solar and battery conditions
	12 V 14 Ahr. battery system
Energy Storage	Replaceable, recyclable, sealed, maintenance-free, best-in-class AGM batteries offer the widest temperature range and longest life
didags	Battery design life: +5 yrs.
	Tool-less battery change with quick connect terminals and strapping for easy installation
	Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)
Solar Engine Construction	Lockable, hinged lid for access to on-board user interface and batteries
	Corrosion-resistant aluminum with stainless steel hardware
	Raw aluminum finish or yellow, black, or green powder coated
	Prewired to minimize installation time
	High-efficiency optics and EMS = the most compact, lightweight system
	19 lb (8.6 kg) including batteries, excluding beacons and push button
	-40 to 165° F (-40 to 74° C) system operating temperature
Environmental	-40 to 140° F (-40 to 50° C) battery operating temperature
	150 mph (241 kph) wind speed as per AASHTO LTS-6
Activation	Push button: ADA-compliant, piezo-driven with visual LED and two-tone audible confirmation
Warranty	5-year limited warranty

Decker Supply Co Inc. 1115 O'Neill Ave PO Box 8008 Madison WI 53708

QUOTATION

Quote Number:

479351

Quote Date:

08/25/22

Page:

1

Customer Phone:

Customer Fax: (920)683-4748

CITY OF MANITOWOC PUBLIC WORKS **B** P.O. BOX 1090 MANITOWOC, WI 54221

L L

Entered By: **JOSH** Location:

Account Cd: Salesperson:

MANPUB 7250

CITY OF MANITOWOC PUBLIC WORKS S

2655 SOUTH 35TH STREET MANITOWOC, WI 54220

I 920-686-6910

P ATTN: GREG

RFQ Number:

Ship Via:

DIRECT/JOSH DEL

Taxable:

Pmt Terms: NET 30

Line	Order Qty Part Number	Description	Price U	JM	Ext Price	Est Ship
1	2.00 R920-SOLAR	R920-E RRFB SOLAR ENGINE - NAT ALUM (84303) - EACH ENGINE WILL BE POWERING 2 LB'S AND 1 PB	\$1,762.0000	EA	\$3,524.00	08/25/22
2	2.00 R920-TELTOPMONT	R920 2-2.5" TELESPAR OR 2 3/8" ROUND TOP OF POLE MOUNT - NAT ALUM (82872)	\$99.0000	EA	\$198.00	08/25/22
3	4.00 E SERIES BATT	BATTERY (7 Ahr) FOR E SERIES RRFB (CARMANAH R920) - P/N: 67620	\$41.0000	EA	\$164.00	08/25/22
4	4.00 R920 LIGHT BAR	R920 LIGHT BAR W/CONFIRMATION LIGHTS, BLACK - 87668	\$580,0000	EA	\$2,320.00	08/25/22
5	4.00 LB HARNESS	LIGHT BAR HARNESS, 16', 78227	\$65.0000	ΕA	\$260.00	08/25/22
6	2.00 PB-68319	CARMANAH: POLARA BULLDOG PB, YELLOW	\$146.0000	EA	\$292.00	08/25/22
7	2.00 PB HARNESS	PUSH BUTTON HARNESS, 16', 84390	\$65.0000	EA	\$130.00	08/25/22
8	2.00 PB-FRAME-9X12	9 X 12 PUSH BUTTON FRAME KIT, - YELLOW (79558)	\$127.0000	EA	\$254.00	08/25/22
9	2.00 R10-25 S8PW0912	PUSH BUTTON TO TURN ON 9" X 12" PHI/CS .080 (BLK/WH) * PRISMATIC H.J. *	\$16.0000	EA	\$32.00	08/25/22
10	2.00 PS22544H12G	4' X 2-1/4" SQ.TUBE 4-H 12GA	\$27.8500	EA	\$55.70	08/25/22

Decker Supply Co Inc. 1115 O'Neill Ave PO Box 8008 Madison WI 53708

QUOTATION

Quote Number:

479351

Quote Date:

08/25/22

Page:

2

Customer Phone:

Customer Fax: (920)683-4748

CITY OF MANITOWOC PUBLIC WORKS В P.O. BOX 1090

L L MANITOWOC, WI 54221

JOSH

Entered By: Location:

Account Cd: Salesperson: **MANPUB**

7250

CITY OF MANITOWOC PUBLIC WORKS

2655 SOUTH 35TH STREET H MANITOWOC, WI 54220

I 920-686-6910

P

ATTN: GREG

RFQ Number:

Ship Via:

DIRECT/JOSH DEL

Taxable:

Pmt Terms: NET 30

Line	Order Qty Part Number	Description	Price	UM	Ext Price	Est Ship
11	2.00 PS25018ODA12G	18" X 2-1/2" SQ,TUBE 4-H 12GA (OMNI DIRECTIONAL ANCHOR)	\$29,5000	EA	\$59.00	08/25/22
12	2.00 PS2124H12G	12' 2" X 2" SQ.TUBE 4-H 12GA	\$68.7000	EA	\$137.40	08/25/22
13	4,00 W11-2 S8FY30DI	PEDESTRIAN ADVANCE SYMBOL 30" DI DG/CS .080 (BLK/FLYL)	\$53.0000	EA	\$212.00	08/25/22
14	2.00 W16-7L S8FY2412	DIAGONAL ARROW DOWN LEFT 24" X 12" DG3/CS (BLK/FLYL)	\$22.0000	EA	\$44.00	08/25/22
15	2.00 W16-7R S8FY2412	DIAGONAL ARROW DOWN RIGHT 24" X 12" DG/CS (BLK/FLYL)	\$22.0000	EA	\$44.00	08/25/22
16	2.00 CORNER BOLT MED	CORNER BOLT MEDIUM FOR 2 1/2"	\$0,0000	EΑ	\$0.00	08/25/22
17	2.00 JAM NUT	JAM NUT FOR CORNER BOLT	\$0.0000	EA	\$0.00	08/25/22
18	8.00 WASHER 3/8NYLON	NYLON WASHER 3/8"X1-1/4"X,080 (STATE SPEC)	\$0,0000	EA	\$0.00	08/25/22
19	8.00 DRIVE RIVET	DRIVE RIVET FOR SQUARE POSTS (ALL STEEL)	\$0,000	EA	\$0.00	08/25/22
		- ADD FREIGHT, LISTED BELOW - SALESPERSON: JOSH				

⁻ SALESPERSON: JOSH

Decker Supply Co Inc. 1115 O'Neill Ave PO Box 8008 Madison WI 53708

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Quote Number:

479351

Quote Date:

08/25/22

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3

Customer Phone:

Customer Fax: (920)683-4748

CITY OF MANITOWOC PUBLIC WORKS

В P.O. BOX 1090

MANITOWOC, WI 54221

L L

JOSH

Entered By: Location:

Account Cd: Salesperson:

MANPUB 7250

2655 SOUTH 35TH STREET H MANITOWOC, WI 54220

CITY OF MANITOWOC PUBLIC WORKS

I 920-686-6910

P

ATTN: GREG

RFQ Number:

Ship Via:

DIRECT/JOSH DEL

Taxable:

Pmt Terms: **NET 30**

Line Order Qty Part Number Description

Price UM

Ext Price

Est Ship

Thank you for the opportunity of quoting.

Prices are good for 45 days from quotation date.

Subtotal:

\$7,726.10

Sales Tax:

\$0.00

Freight:

\$225.00

Total:

\$7,951.10