



**Office of the City Administrator  
CITY OF HOQUIAM**

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## **Report From Officer**

DATE: April 17, 2024  
TO: Mayor Ben Winkelman and Council Members  
FROM: Brian Shay, City Administrator  
SUBJECT: WCIA Risk Reduction Grant Awarded

The Washington Cities Insurance Authority has awarded the City of Hoquiam a \$20,000 risk reduction grant to install a dynamic curve warning system at the sharp curve where Sumner Avenue becomes Riverside Avenue near the Farmer's Market. This improvement was suggested by WSDOT in August and recommended by the Public Safety Committee in November.

**Recommendation:**

Staff recommends that the Council accept the grant and proceed with the purchase and installation of the warning signs.



HOQUIAM CITY COUNCIL  
PUBLIC SAFETY & LAW COMMITTEE REPORT

DATED: November 13, 2023.

TO THE HONORABLE MAYOR AND  
MEMBERS OF THE CITY COUNCIL:

WE, YOUR PUBLIC SAFETY AND LAW COMMITTEE, RECOMMEND:

Speed sign between 21<sup>st</sup> and 22<sup>nd</sup> on Sumner Ave. Reducing  
Sumner driving lanes to 10 ft wide to slow traffic.  
Reducing Riverside Ave turn lane to begin at 19<sup>th</sup> St.  
Yellow/Black arrow signs along turn onto Riverside Ave.  
Riverside Ave lanes narrowed to 10 ft. wide

SIGNED:

Elizabeth Reid  
Elizabeth Reid, Chair

~~Liamie Brand~~ Merrell Davis

Dave Hinchey  
Dave Hinchey

Bill Nelson  
Bill Nelson

Brandon Pauley  
Brandon Pauley

[ ] SEE ATTACHED STAFF REPORT OR OTHER DOCUMENT

Optional speed warning  
and curve warning  
enhancements on  
approach

Left-side buffered bike lane.

Right-side parking maintained

Summer  
Parkings

Sumner Ave / Riverside Ave  
at 20th Street

Legend

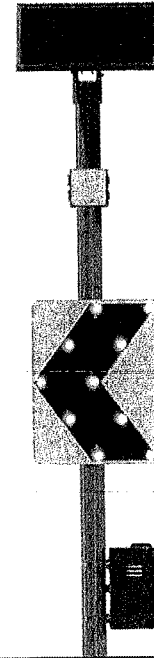
(A)



# BLINKERCHEVRON™ DYNAMIC CURVE WARNING SYSTEM

PRODUCT OPTIONS

REQUEST QUOTE



BlinkerChevron™ Dynamic Curve Warning System

A large black rectangle with a white play button icon in the center, representing a video player.

## OVERVIEW

Engineered to fit the contours of any curve, the BlinkerChevron™ Dynamic Curve Warning System features wirelessly connected LED-enhanced signs to reduce in-curve speeds, keeping drivers on the road.

Proven to reduce horizontal curve crashes by 58%\*

- Sequential, simultaneous or custom flash patterns
- Various system activation capabilities, including vehicle speed, vehicle classification and weather detection
- Integrates with advance curve warning alerts and message boards
- Double-sided system available

## WHITE PAPER

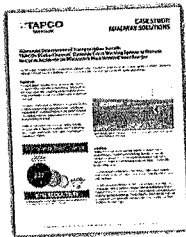
Reducing rural roadway departures starts with understanding where and why they occur and what safety countermeasures are available. Learn how to better protect all road users with these data-driven insights.



### Reducing Rural Roadway Departures

[GET WHITE PAPER](#)

## CASE STUDIES



### Wisconsin Department of Transportation

Discover how the Wisconsin Department of Transportation saw a 97 percent decrease in accidents on one of Wisconsin's most traveled interchanges.

[READ CASE STUDY](#)

*"We have also installed [this curve warning system] on two-lane roads, and they have been very successful in reducing crashes."*

– Tom Heydel

WisDOT Southeast Region Signing & Marking Operations & Design Engineer

### PennDOT Explores Dynamic Light Curve Safety Benefits

Sequential Lighting Curve Warning Systems

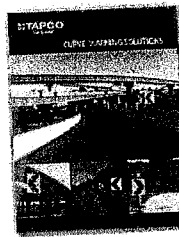


### Dynamic Curve Warning Systems in Action



## SOLUTIONS BROCHURE

Need to keep drivers on the road? Discover how to reduce roadway departures today by downloading the TAPCO curve warning solutions brochure.



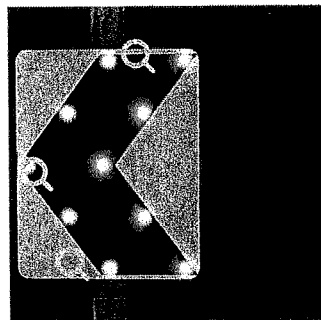
### Curve Warning Solutions Brochure

Browse all TAPCO curve warning solutions in one document

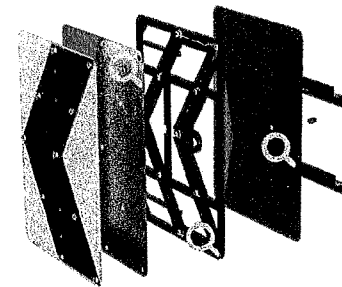
[GET BROCHURE](#)

## LED-ENHANCED WARNING ALERT BLINKERCHEVRON™

Edge-lit around the chevron symbol and engineered to capture drivers' attention, each BlinkerChevron™ is MUTCD-compliant and flashes in accordance with MUTCD section 2A.07.



FLASH ON



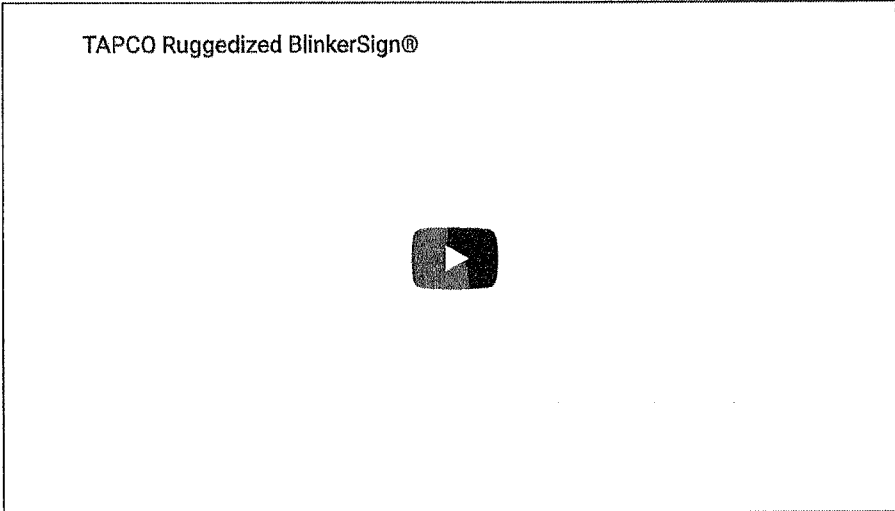
[LEARN MORE](#)

## RUGGEDIZED OPTION AVAILABLE

Extreme weather events can inflict severe damage to standard traffic signs.

Reinforced with two additional layers of material, the ruggedized BlinkerSign® is engineered to take on heavy winds, plowed snow and falling debris.

To review power requirements, specifications and more details about the TAPCO ruggedized BlinkerSign®, download the data sheet below.



[DOWNLOAD DATA SHEET](#)

[READ BLOG](#)

## SELECT YOUR PRODUCT

Dynamic Curve Warning Systems are engineered to maximize safety on any curve. A combination of activation, flash patterns and power options can be custom-built to fit the uniqueness of your curve.

### PRODUCT SELECTION

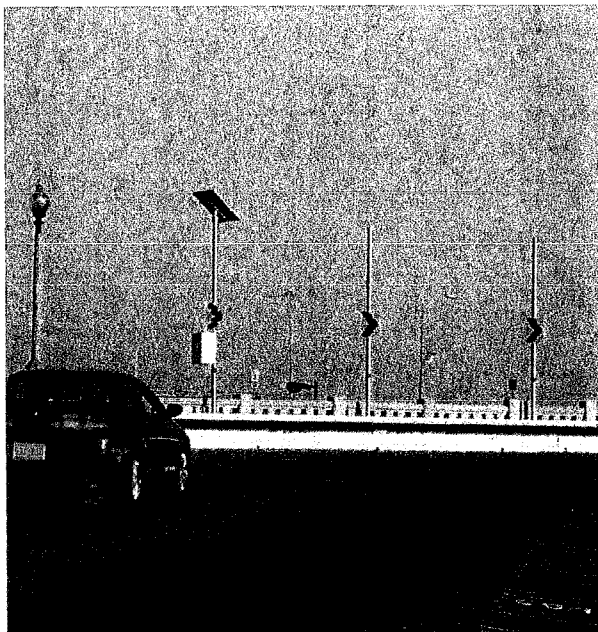
- Activation ⓘ
- Unsure ▼
- Arrangement ⓘ
- Unsure ▼
- Flash Pattern ⓘ
- Unsure ▼
- Power and Control ⓘ
- Unsure ▼
- Enhancement ⓘ
- Unsure ▼



## FLASH PATTERNS

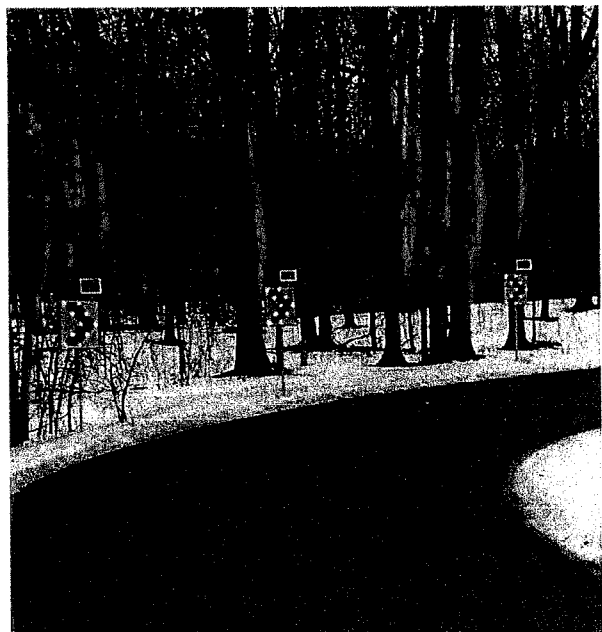
### SEQUENTIAL

Delivers a pull-through effect, guiding drivers through the curve



### SIMULTANEOUS

Flashes all chevrons in unison once the system is activated



## POWER AND CONTROL OPTIONS

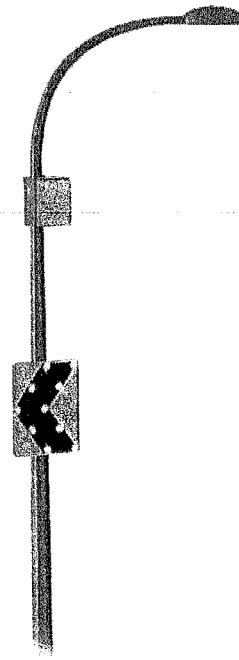
### FLEX POWER

Flex Power options provide flexible system configuration for multiple applications and power requirements while allowing easy access to control cabinets.

### AC POWER



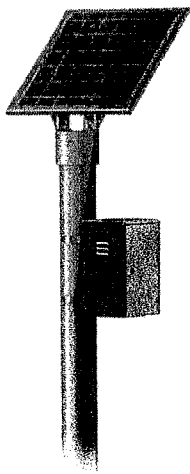
120VAC



Streetlight Power

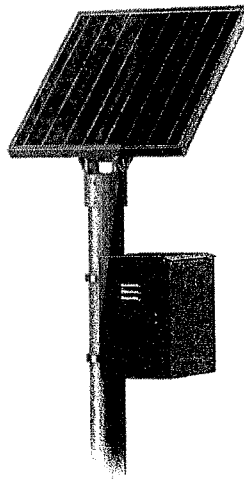
### SOLAR POWER

Any solar TAPCO system can be designed to fit your power or environmental need. Additional options are available upon request.



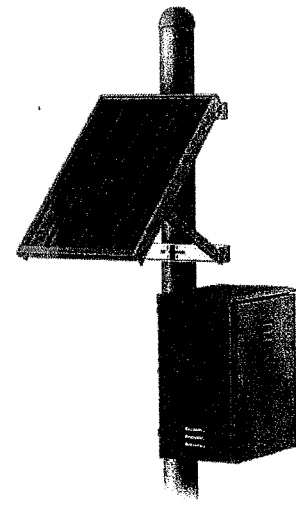
26-watt solar panel  
27Ah battery capacity

DOWNLOAD DATA SHEET



65-watt solar panel  
50Ah battery capacity

DOWNLOAD DATA SHEET

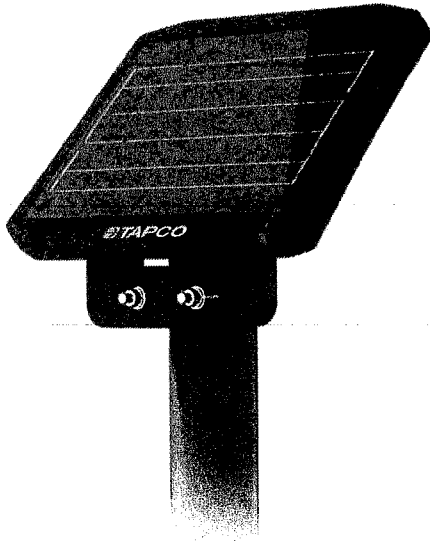


85-watt solar panel  
105Ah battery capacity

DOWNLOAD DATA SHEET

## TOP-OF-POLE SELF-CONTAINED CONTROL CABINETS

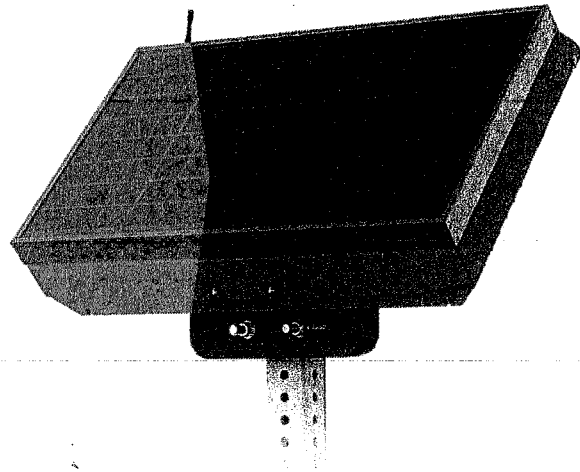
Blending seamlessly into the surrounding environment, these self-contained control cabinets house power supplies for quick installation, with no trenching or in-ground wiring needed.



**13-watt solar panel**  
**28Ah battery capacity**

- Up to 28Ah of battery power delivers autonomy up to 30 days
- Weighs only 10 pounds; lightweight and easy to install

[DOWNLOAD DATA SHEET](#)



**30-watt solar panel**  
**44Ah battery capacity**

- The 12-volt system is engineered to power a larger assortment of warning alert options
- Compact design allows for easy assembly on new or existing posts and poles

[DOWNLOAD DATA SHEET](#)

[Back to Product Selection](#)

## SYSTEM ENHANCEMENTS



### ADVANCE CURVE WARNING ALERTS

Integrate Advance Curve Warning Alert with this system to provide advance warning of changes in road trajectory with customized signs and advisory speed plaques.

[LEARN MORE](#)

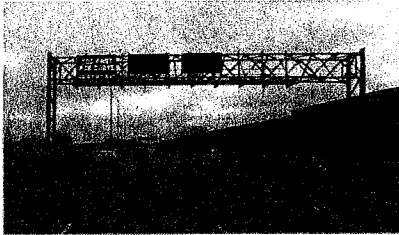


### ROAD WEATHER INFORMATION SENSOR

Precipitation sensor triggers system activation and adjusts speed threshold when unfavorable weather conditions are present based on predetermined specifications.

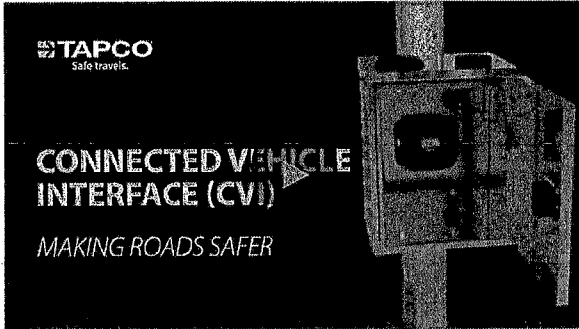
### MESSAGE BOARDS

**Blankout Signs** - Display warning messages and flash overhead beacons when drivers are traveling too fast for the curve



**Dynamic Message Boards** - Provide en-route information that adjusts to a warning when the driver is traveling too fast for the curve ahead

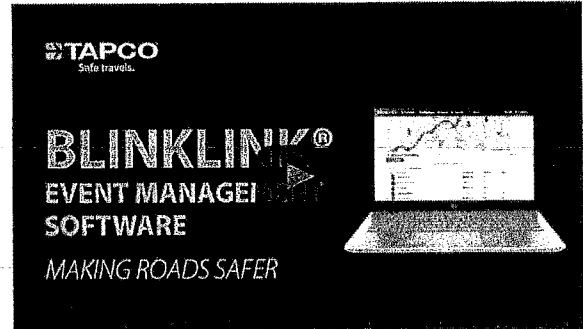
[LEARN MORE](#)



### CONNECTED VEHICLE INTERFACE

Add another layer of safety to your system with the Connected Vehicle Interface, an Ethernet interface for TAPCO BlinkerChevron™ Dynamic Curve Warning Systems to connect with and communicate information to connected vehicle infrastructure, such as roadside units (RSUs).

[GET CONNECTED VEHICLE READY](#)



### BLINKLINK® POWERED BY TAPCO

Enhance this system with BlinkLink®, powered by TAPCO, an easy-to-use, cloud-based software application for agencies to remotely manage and monitor their Intelligent Warning Systems.

[REMOTELY MANAGE YOUR SYSTEMS](#)

## REQUEST TECHNICAL INFORMATION



**WRITTEN SPECS**

[REQUEST](#)



**SYSTEM USER GUIDE**

[REQUEST](#)



**SYSTEM DRAWING**

[REQUEST](#)

## REQUEST SERVICE INFORMATION

Get a customized service agreement for optimal performance and peace of mind.

