

Pedestrian Crosswalk System: Rectangular Rapid-Flashing Beacon



Quote Number: _____

TAPCO Contact: _____

Customer:	Document Date:	
	Project Name:	
	Project ID:	
	Customer Contact:	
Installation Address/Location:	Phone Number:	
	Email:	
	Lead Time:	
		Lead time upon submittal approval.

Documentation Included:
Pole Layout Drawing
Detection Devices
Controller
Communication Devices
Warning Devices
Power Source
Cabinet
Mounting Equipment
Static Signs

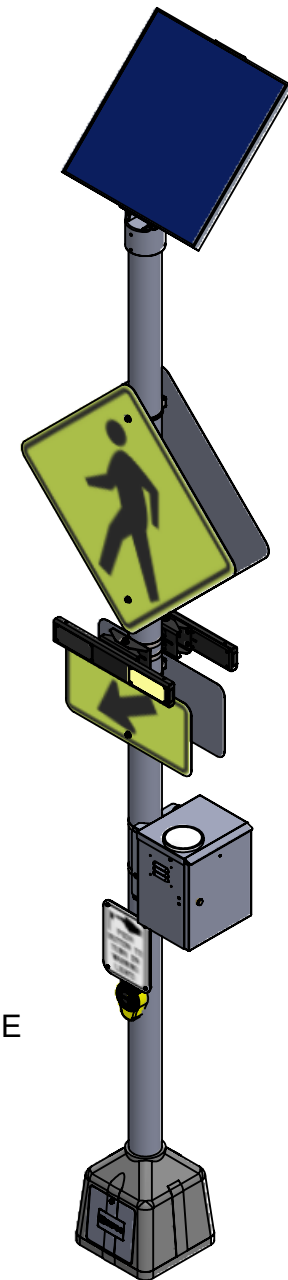
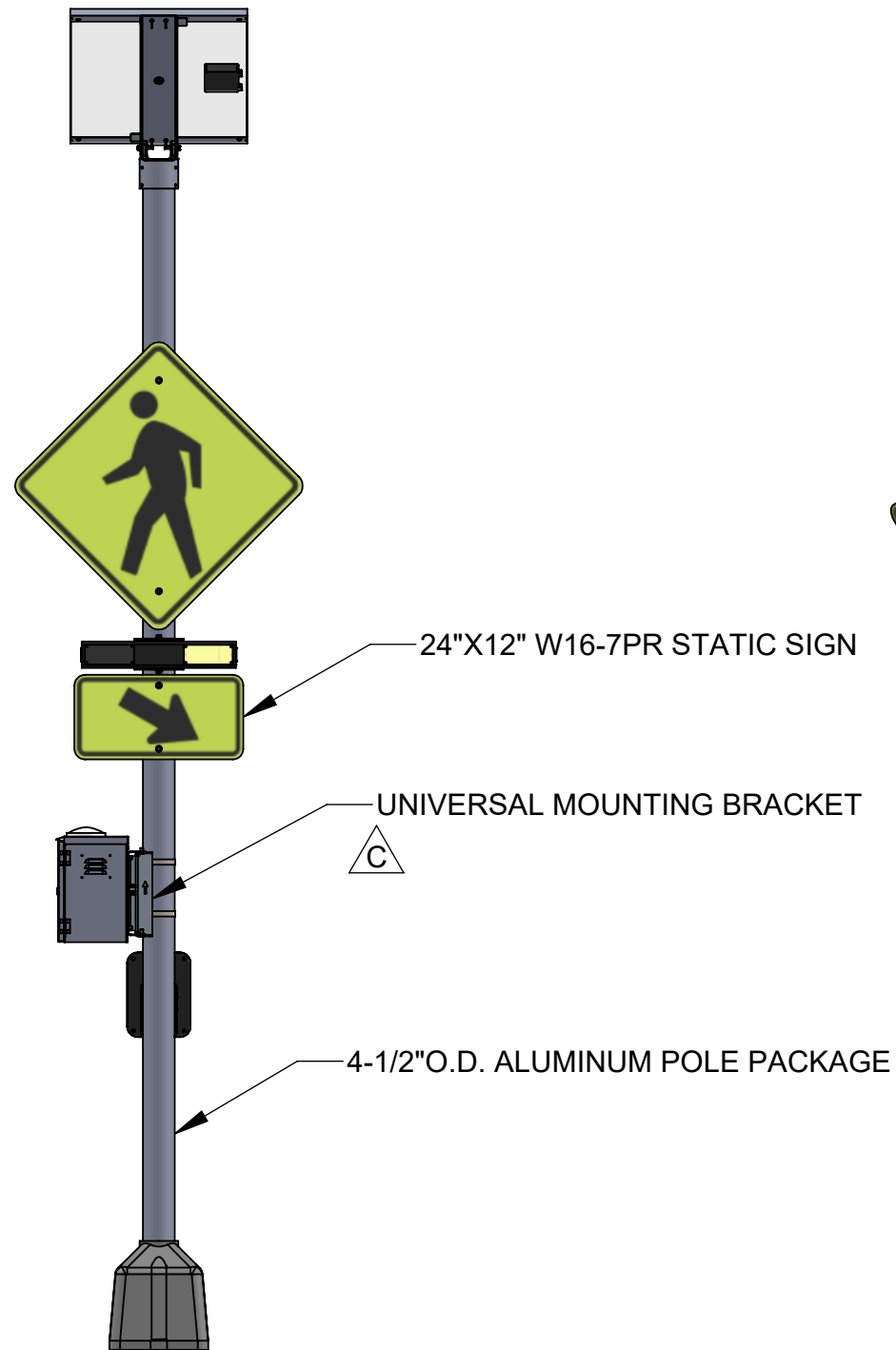
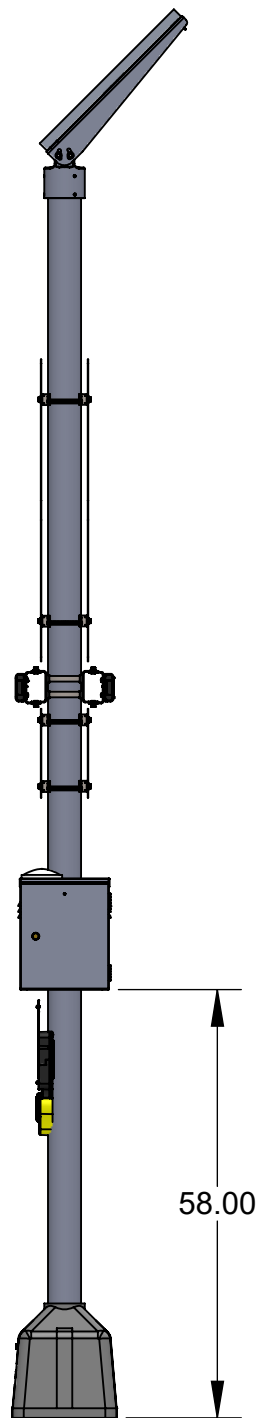
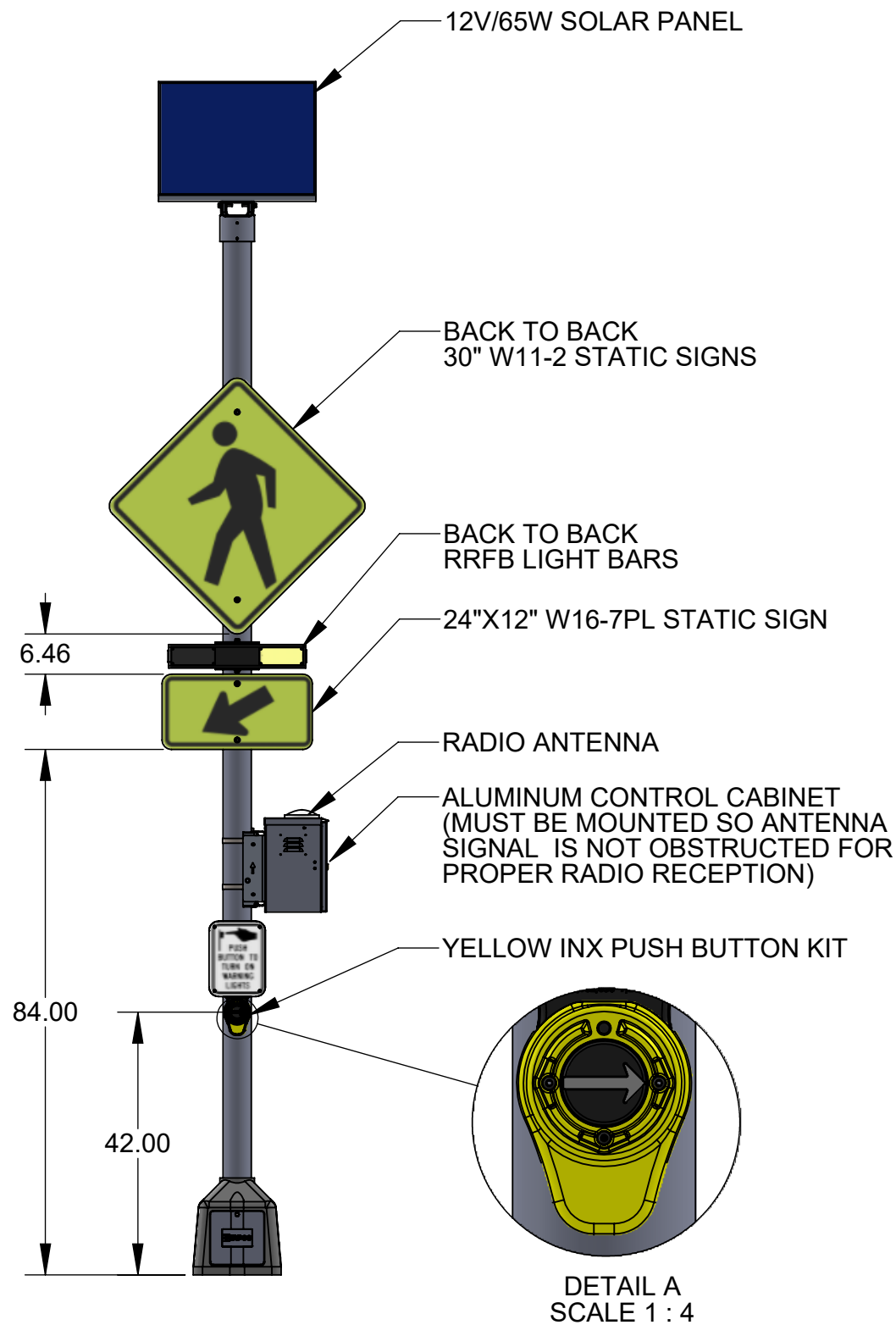
Special Conditions
Scope of work will be required prior to accepting purchase order
Bid as alternate (see below summary of deviations from bid specification).
System contains custom components and is not returnable

Alternate System Information:

Proprietary information that is stamped (Proprietary Information) should not be shared with others outside of the Contractor, Consultant and End user.

X _____
Customer Approval Signature

X _____
Date



- NOTES:
1. ORIENT SOLAR PANEL TOWARDS SOUTHERN SKY FOR MAXIMUM SOLAR EXPOSURE
 2. CONTROL CABINET HEIGHT MAY VARY.
 3. WORM CLAMPS ARE PROVIDED, STANDARD 3/4" S/S BANDING IS RECOMMENDED
 4. J-BOLTS NOT SHOWN
 5. ALL DIMENSIONS ARE FOR REFERENCE ONLY.
 6. STATIC SIGNS NOT INCLUDED IN SYSTEM.

C	ADDED UNIVERSAL CABINET BRACKET TO DRAWING	CH-409	AK	4/19/2023
B	UPDATE DESCRIPTION FROM 55/48 TO 65/50. UPDATE SOLAR PANEL NOTE TO 65W	CC-392 / CC-692	S.R	3/15/2023
A	INITIAL RELEASE	N/A	AEK	10/29/2020
REV.	DESCRIPTION	ECO	BY	DATE

DIMENSIONS ARE INCH AND TOLERANCES ARE AS FOLLOWS UNLESS OTHERWISE SPECIFIED	
.X	±0.1
.XX	±0.02
.XXX	±0.008
ANGLES	±1°
DESIGNED BY	DATE
AK	04/19/2023
DRAWN BY	DATE
AK	04/19/2023
APPROVED BY	DATE
SR	04/20/2023

 TAPCO TRAFFIC & PARKING CONTROL CO., INC.		5100 West Brown Deer Rd Brown Deer, WI 53223 USA		 
		7840 North 86th Street Milwaukee, WI 53224 USA		
TITLE: PEDX, RRFB, SOLAR 65/50, RADIO, SOP, DS, AMBER, INX, H POLE X2				
SIZE B	DOCUMENT NO. (SEE TABLE FOR P/N)	600640		REVISION C
SCALE:	1:26	REFERENCE:	SHT	1 of 1
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TAPCO. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TAPCO IS PROHIBITED.				

POLARA INX PUSH BUTTON

SPECIFICATIONS

POWER	10 to 24VDC
PUSH BUTTON	ADA compliant. Field adjustable directional arrow is standard; bidirectional and blank buttons available. Optional adjustable locator tone
ACTIVATION CONFIRMATION	Yellow LEDs and voice confirmation activated when push button is pressed; custom message available
PUSH BUTTON HOUSING	Yellow powder coat finish is standard; black and green available
SPEAKER	Field replaceable, weather resistant, 10-watt audio amplifier Maximum volume: 100 dB at 1 meter
INSTRUCTIONAL SIGN	9" x 12" is standard; larger signs available; braille available. Retroreflective sheeting with tamper-resistant mounting screws
OPERATING FORCE	Three adjustable settings: .5 to 3.5 pounds
IDLE CURRENT DRAW	~9mA @ 12 VDC
PEAK CURRENT DRAW	~500mA (@15VDC) with voice message at maximum
ENCLOSURE	NEMA 250 Type 4X Powdercoated cast aluminum cover and backplate
CONNECTIVITY	Bluetooth 5.0 Polara Field Service app for customization
WIRING	6 conductor
OPERATING TEMPERATURE RANGE	-30°F to 165°F (-34°C to 74°C)
DIMENSIONS	9"W x 18.2"L x 2.6"H



IWS CONTROLLER

SPECIFICATIONS

POWER	Solar Charging for 6VDC and 12VDC systems with Power and Charging Indicator Light
INPUTS	Two digital inputs
OUTPUTS	Two LED device driver outputs; Two digital outputs
PROGRAMMABILITY	Locally using serial input (RS232) or remotely using BlinkLink® via cell modem
PROGRAM ACTIVATION OPTIONS	24/7, Dusk 'til Dawn, BlinkLink® Scheduling, Time Clock, Pushbutton, Radar, or other digital input device
LED-WARNING CONTROL COMPATIBILITY	BlinkerSign®, BlinkerBeacon™, RRFB-XL2™, LegendViz™
CONTROLLER DIMMING	Auto-adjustable via solar panel input for 6V and 12V systems; Auto-adjustable via photocell sensor, if equipped, for 120VAC, 6V and 12V systems
INTERNAL SYSTEM CLOCK	Programmable for Daylight Savings Time, and includes integrated backup battery
SELF-DIAGNOSTIC CAPABILITY	Internal temperature monitor; Battery charging temperature monitor
SOLAR CHARGING	6V and 12V capable, with temperature compensation on 12V
DATA COLLECTION	Collect and store system activation data. Read locally through serial interface or remotely with BlinkLink via cell modem
OPERATING TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)
ENCLOSURE	IP67 rated
ENCLOSURE DIMENSIONS	3.2"W x 3.7"H x 2.5"D



BLINKERBEAM® WIRELESS RADIO

SPECIFICATIONS

POWER	6V and 12VDC with power indicator light
INPUT	1 digital input, micro USB
OUTPUTS	2 digital output lines, host serial lines for over the air serial
PROGRAMMABILITY	Locally using USB port or front-mounted joystick
BACKLIT LCD DISPLAY	4 lines at 21 characters per line
RADIO TYPES	Low Power Device Radio Low Power Activation Radio Standard Low Power Radio Standard Medium Power Radio Standard High Power Radio
CONNECTIVITY	Up to 16 devices on one network
FREQUENCY	License free 900 MHz frequency hopping spread spectrum with 10 different RF patterns to prevent interference between collocated radio systems
RANGE	Up to 900 feet standard or longer with optional antennas; Indoor applications do not use antennas
STATUS LEDS	Red, green, yellow, amber
REGULATORY COMPLIANCE	 and ISED compliant
OPTIONAL OUTDOOR ANTENNAS	Omni Whip Omni Dome Omni Base Station Yagi (for specific applications)
OPERATING TEMPERATURE	-40°F to 176°F (-40°C to 80°C); less than 90% relative humidity
DIMENSIONS	3.2"W x 3.7"H x 2.5"D



RECTANGULAR RAPID FLASHING BEACON

RRFB-XL2™

SPECIFICATIONS

POWER	Low voltage, current controlled from TAPCO controller
CONTROLLER DIMMING	Auto-adjustable via solar panel input for 6V and 12V systems; Auto-adjustable via photocell sensor, if equipped, for 120VAC, 6V and 12V systems. Non-dimming option available.
LIGHT BAR HOUSING	Black powder-coated aluminum
CERTIFICATIONS	NEMA TS2
VEHICLE LED MODULES	7"W x 3"H; 2 arrays of 8 amber LEDs spaced 7" apart, SAE J595 Class 1 Certified
PEDESTRIAN LED MODULES	0.5"W x 1.75"H side-viewable, flash simultaneously with vehicle LED (Field-configurable - optional, one, or both sides)
LED COLOR	Amber
FLASH PATTERNS	Interim Approval 21 compliant Wig-Wag plus Simultaneous (WW + S)
VISIBILITY	Daytime: more than 1,000 feet Nighttime: more than 1 mile
UNIVERSAL MOUNTING BRACKET	Articulates up to 30° Mounts to most common size metal or wood posts
MOUNTING HARDWARE	Banding to round pole, U-bolt to round pole, bolt to square pole
LIFE EXPECTANCY	100,000 hours
TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)
LIGHT BAR DIMENSIONS	22"W x 4"H x 1.5"D



FRONT



BACK



SIDE



TOP

65W SOLAR PANEL

SPECIFICATIONS

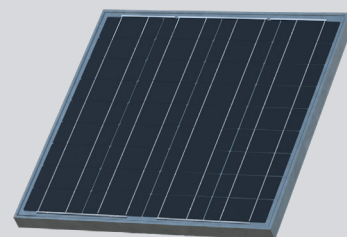
POWER	65W
NOMINAL VOLTAGE	12V
OPEN CIRCUIT VOLTAGE	21.66V
SHORT CIRCUIT CURRENT	3.97A
MAXIMUM POWER VOLTAGE	18.65V
MAXIMUM POWER CURRENT	3.77A
GLASS	High transparent, low iron, tempered
FRAME	Heavy-duty anodized aluminum
CONSTRUCTION	Silicon cells encapsulated in double-layer EVA with a white polymer backing
WEIGHT	10.8lbs
ENCLOSURE	IP67 rated
MOUNTING HARDWARE	Various options available
OPERATING TEMPERATURE RANGE	-40°F to 185°F (-40°C to 85°C)
DIMENSIONS	25.7"W x 25.2"H x 1.4"D

TOP-OF-POLE MOUNTING BRACKET

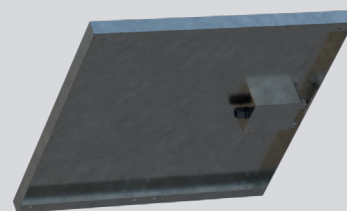
MATERIAL	Aluminum
POLE TYPE	4½" round (shown) or 3" round
MOUNTING HARDWARE	Set screws

SIDE-OF-POLE MOUNTING BRACKET

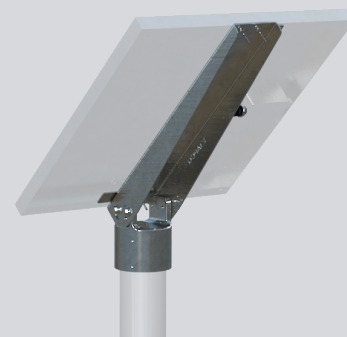
MATERIAL	Aluminum
POLE TYPE	Universal (4½" shown)
MOUNTING HARDWARE	Banding, U-bolt, or bolt



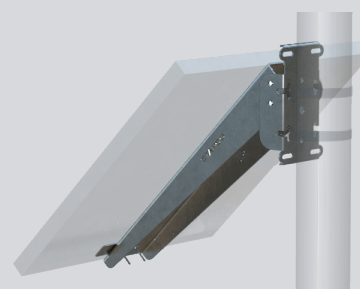
FRONT



BACK



**TOP-OF-POLE
MOUNTING BRACKET**



**SIDE-OF-POLE
MOUNTING BRACKET**

50Ah BATTERY

Sealed Lead-Acid

SPECIFICATIONS

VOLTAGE	12V
CAPACITY AT C/100	50Ah
VENT	Valve Regulated
TERMINAL	I6
NON-SPILLABLE	As defined by Department of Transportation (DOT), International Commercial Airline Organization (ICAO) and International Airline Transport Association (IATA) definitions
WEIGHT	32.23 lbs
OPERATING TEMPERATURE RANGE	-40°F to 176°F (-40°C to 80°C)
DIMENSIONS	7.75"Lx6.49"Wx6.69"H



MEDIUM CONTROL CABINET

CABINET SPECIFICATIONS

CERTIFICATION	NEMA 3R type
MATERIAL	0.080" aluminum
MOUNTING OPTIONS	4 stainless steel studs for various mounting bracket options including banding, U-bolt, wall-mount, square pole and wood post.
HINGES	2 tamper-resistant stainless steel hinges
ACCESS	Replaceable #2 traffic lock with keys
VENTING	Screened vents on cabinet side and door
DRAINAGE	Screened drain holes on bottom of cabinet
UV RESISTANT LABEL	Applied to exterior of cabinet outlining model number, serial number, date of manufacture as well as any applicable regulatory information
CONTROL PANEL	All circuit components are attached or connected to removable control panel for maintenance
DOOR MOUNTED POUCH	Contains system documents
ENCLOSURE DIMENSIONS	12.5"W x 15"H x 9.9"D



FRONT



BACK

UNIVERSAL SIDE-OF-POLE CABINET MOUNTING BRACKET

UNIVERSAL MOUNTING BRACKET

MATERIAL	5052-H32 Aluminum
MOUNTING HARDWARE INCLUDED	U-bolts and Straight Bolts, 3/8-16" (2) 3.5"L, (1) 4.5x6, (1), 4x5.5, (1) 3.5x4.5, (1) 2.375x3.5 (HK01AA)
MOUNTING METHODS ACCEPTED	Through bolts, u-bolts, banding
ACCEPTED POLE TYPES	2-3/8", 3", 3-1/2", 4", 4-1/2" Round, 2" Square Perforated Post
COMPATIBLE CABINETS	Small: 108766-PEM Medium: 108045-PEM (shown) Large: 120652-PEM
HUB EXTENSION	Threaded Pipe Extension (2), 3/4" x 2.5" SCH 40 Aluminum and 1-1/4" x 2.5" SCH 40 Aluminum
BRACKET TO CABINET HARDWARE	Nut, serrated flange, 5/16-18 SS
SECURITY HARDWARE	Tamper Resistant Screw, 1/4-20X0.75, BH Torx
SECURITY HARDWARE TOOL	Torx Driver, T-27 Pin Head, 1/4" Hex Driver
WEIGHT	7 lbs.
DIMENSIONS	12.54"Lx8.14"Wx3.5"D



FRONT - OPEN



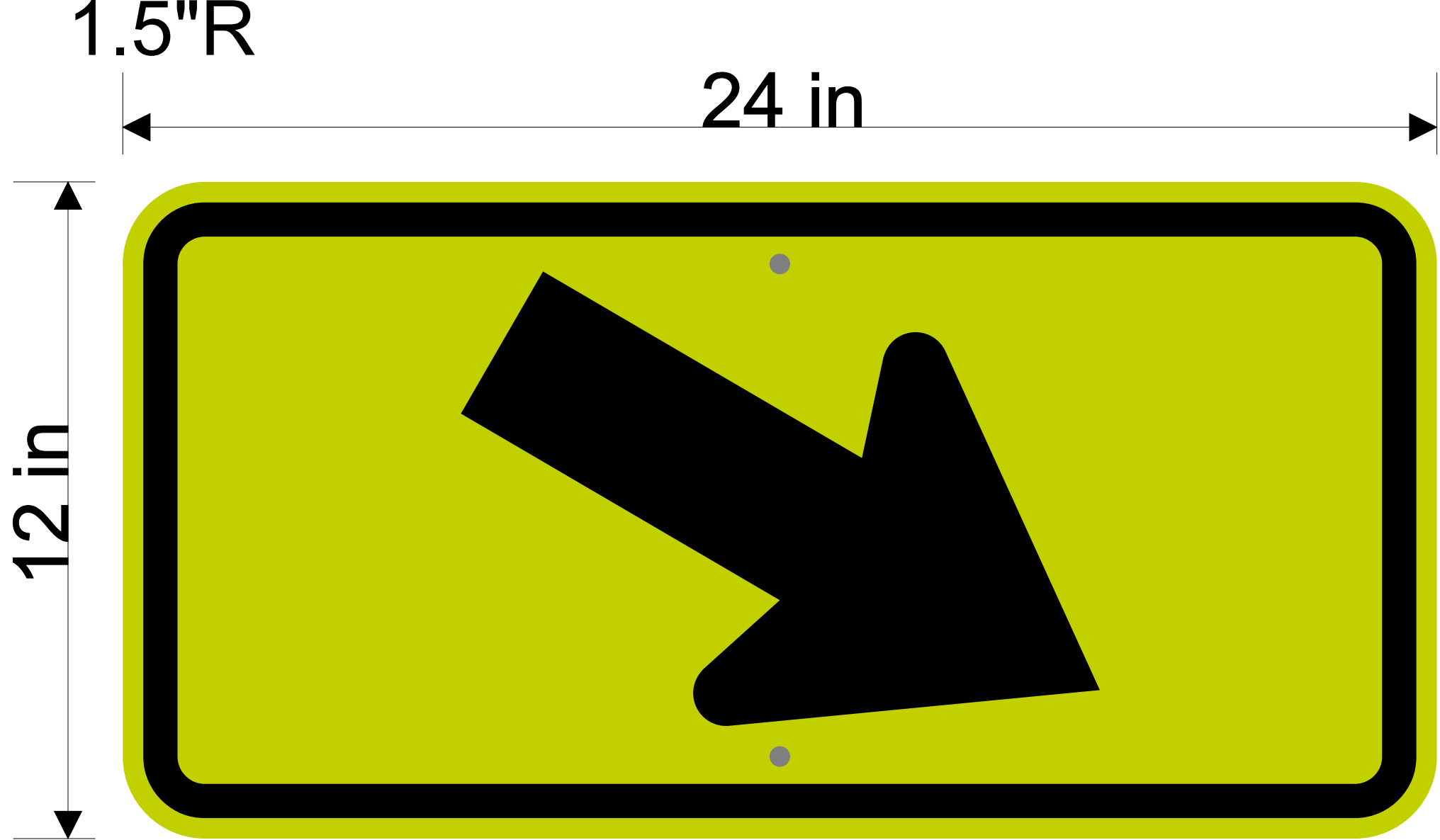
FRONT - CLOSED



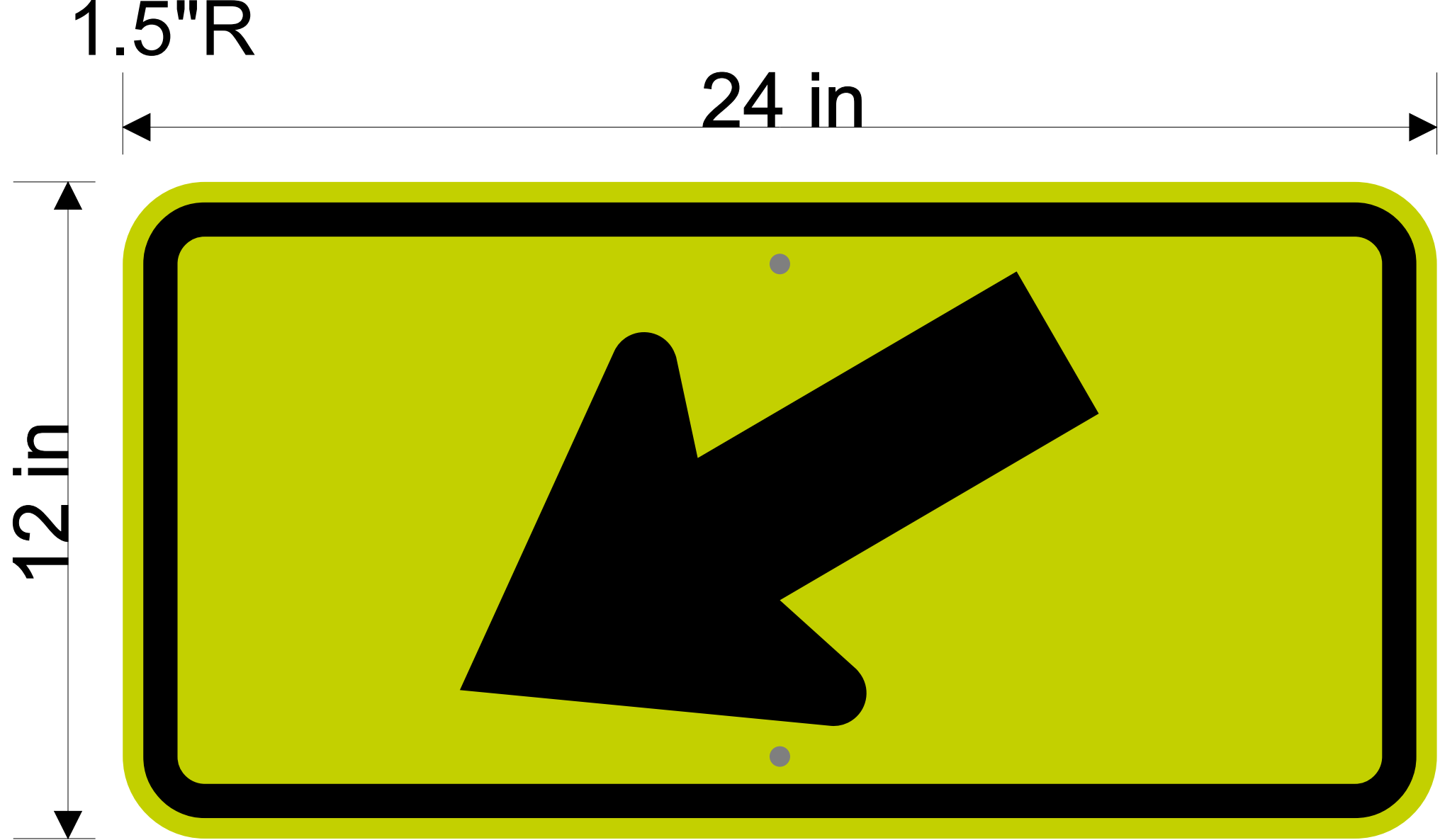
BACK - CLOSED



30" Diamond, 1.875" Rad
w/(2) 3/8" holes 30" apart on center
Sheeting: DG3 Fluor. Yellow-green



24"x12" .080 gauge, 1.5" Rad
w/(2) 3/8" holes 1.5" in
Sheeting: DG3 Fluor. Yellow-green



24"x12" .080 gauge, 1.5" Rad
w/(2) 3/8" holes 1.5" in
Sheeting: DG3 Fluor. Yellow-green