



**Traffic Partner  
Program**



**ATS  
Traffic**

# AMM Traffic Partner Products 2024

## **ATS Traffic Winnipeg Branch**

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**atstraffic.ca | Since 1966**

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**canoe**  
procurement group of canada



ASSOCIATION OF  
**MANITOBA**  
MUNICIPALITIES



# Traffic Partner Products

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## Introduction

ATS Traffic has been ensuring safer roads since 1966, and now we've used our vast experiences to develop the Traffic Partner Program. The Traffic Partner program enables ATS to take the customer experience to a far greater level. Through Consultation, Education, Collaboration, and Communication, we can ensure a safer experience for all of our visitors in motion.

As a member of the Traffic Partner Program, we will work together to ensure the safety and success of all of your projects.

### Member benefits include:

- Access to 15,000+ Products
- Traffic Partner Products
- Strategic Planning
- Product & Industry Education
- Access to the Traffic Partner Conference
- and so much more...

As an organization, we are honoured by the 23+ year relationship with the AMM and the ATS Traffic Group.

For more information or to find specific location contacts, please visit our website!



## NEW ATS Traffic Product Catalogue NOW AVAILABLE.

With over 1000+ SKUs and product descriptions the ATS Traffic Product Catalogue offers everything you will require for your work zone. Request your copy today!



# Sign Poster Preview



**Winnipeg**

T: 204.233.1600 F: 204.233.1906  
TF: 880.661.7346



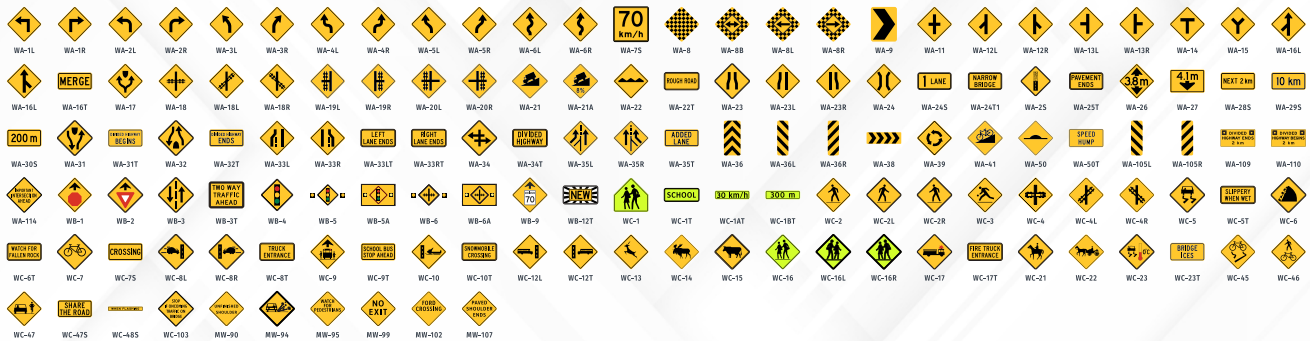
**atstraffic.ca**  
Safety forward.



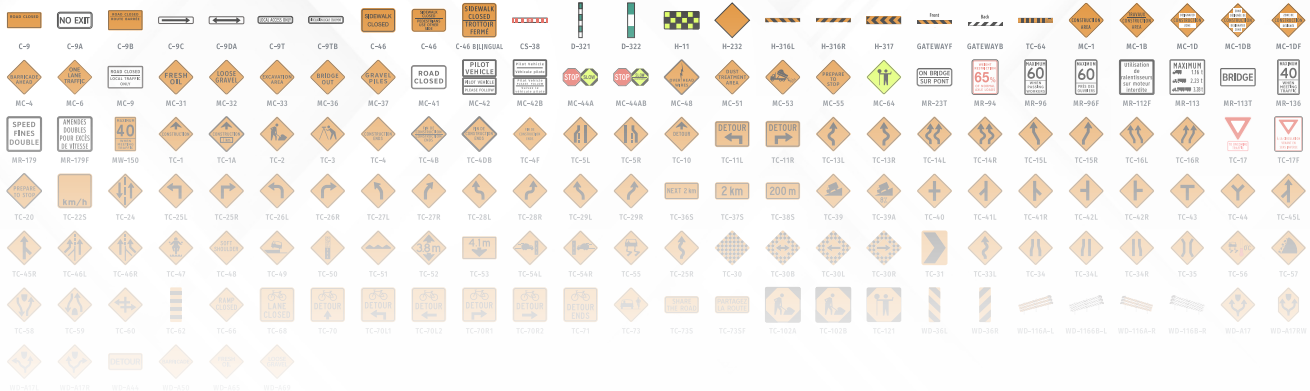
## Regulatory



## Warning



## Construction



## Guide & Information

\*Please contact our team to view the full sign poster.

# Top 50 MB Transportation Signs

Sign	Description	Sign Code	Sheeting Type	Width (cm)	Height (cm)
	Stop ATS SKU: 11110010	RA-1	HIP	75	75
	ARRET STOP ATS SKU: 19110448	MR-125	HIP	60	60
	Stop ATS SKU: 11110009	RA-1	HIP	60	60
	Stop ATS SKU: 11110007	RA-1	HIP	30	30
	3-Way Tab ATS SKU: 19110453	RA-1T3	HIP	60	30
	4-Way Tab ATS SKU: 19110455	RA-1T4	HIP	60	30
	Yield ATS SKU: 11110030	RA-2	HIP	75	60
	Yield ATS SKU: 11110024	RA-2	DG3	75	60
	Maximum 90 ATS SKU: 11110472	RB-1	HIP	75	60
	Maximum 80 ATS SKU: 11110450	RB-1	HIP	75	60
	Maximum 70 ATS SKU: 11110470	RB-1	HIP	75	60
	Maximum 60 ATS SKU: 11110449	RB-1	HIP	75	60
	Maximum 50 ATS SKU: 11110448	RB-1	HIP	75	60
	Maximum 40 ATS SKU: 11110466	RB-1	HIP	75	60
	Maximum 30 ATS SKU: 11110447	RB-1	HIP	75	60
	Maximum Speed Ahead (Content Variable) ATS SKU: 11110207	RB-5	HIP	60	75



# Top 50 MB Transportation Signs

Sign	Description	Sign Code	Sheeting Type	Width (cm)	Height (cm)
	One Way ATS SKU: <b>11110092</b>	RB-21	HIP	90	30
	Do Not Enter ATS SKU: <b>11110112</b>	RB-23	HIP	60	60
	Do Not Pass (Passing Prohibited) ATS SKU: <b>11110141</b>	RB-31	HIP	60	60
	Passing Permitted ATS SKU: <b>11110146</b>	RB-32	HIP	60	60
	No Parking ATS SKU: <b>11110195</b>	RB-51	HIP	30	30
	No Parking (specify arrows) ATS SKU: <b>11110296</b>	RB-51	HIP	60	60
	No Parking with arrows ATS SKU: <b>19110486</b>	RB-51	HIP	30	30
	No Parking (Specific Time Period) ATS SKU: <b>11110198</b>	RB-52	HIP	30	45
	Parking Permitted (Content Variable) ATS SKU: <b>11110200</b>	RB-53	IP	30	45
	Truck Route ATS SKU: <b>11110213</b>	RB-61	HIP	60	60
	Truck Prohibited ATS SKU: <b>11110220</b>	RB-62	HIP	60	60
	No Parking FIRE LANE ATS SKU: <b>19110487</b>	RB-52FL	HIP	30	45
	No Parking Disabled Only ATS SKU: <b>11110324</b>	RB-71	HIP	30	45
	Checkerboard - Solid ATS SKU: <b>11120156</b>	WA-8	HIP	75	75
	Checkerboard - Double Arrow ATS SKU: <b>11120146</b>	WA-8B	HIP	75	75
	Checkerboard - Left or Right ATS SKU: <b>11120164</b>	WA-8R/L	HIP	75	75

# Top 50 MB Transportation Signs

Sign	Description	Sign Code	Sheeting Type	Width (cm)	Height (cm)
	Bump ATS SKU: 19120347	WA-22	HIP	60	60
	Hazard Marker - Object on Left ATS SKU: 11120114	WA-36L	HIP	30	90
	Hazard Marker - Object on Right ATS SKU: 11120118	WA-36R	HIP	30	90
	Pedestrian Crosswalk - Right ATS SKU: 11110044	RA-4R	HIP	60	75
	Pedestrian Crosswalk - Left ATS SKU: 11110042	RA-4L	HIP	60	75
	School Ahead ATS SKU: 11120301	WC-1	DG3	60	60
	Playground Ahead ATS SKU: 11120259	WC-3	HIP	60	60

# Sign Products

Sign	Description	Sign Code	Sheeting Type	Width (cm)	Height (cm)
	Men Working/Road Work ATS SKU: <a href="#">19120682</a>	TC-2	HIP	75	75
	Men Working/Road Work ATS SKU: <a href="#">19120679</a>	TC-2	DG3	75	75
	Men Working/Road Work ATS SKU: <a href="#">19120798</a>	TC-2	HIP	90	90
	Detour Ahead ATS SKU: <a href="#">19120806</a>	TC-10	HIP	90	90
	Construction Ends (Work Zone Ends) ATS SKU: <a href="#">19120801</a>	TC-4	HIP	90	90
	Construction Area ATS SKU: <a href="#">19120780</a>	MC-1	HIP	90	90
	Prepare to Stop ATS SKU: <a href="#">19120782</a>	MC-55	HIP	90	90
	Flood Waters ATS SKU: <a href="#">19120790</a>	MW-82	HIP	90	90
	Construction Ahead ATS SKU: <a href="#">11120554</a>	WD-101	HIP	75	75
	Loose Gravel ATS SKU: <a href="#">11120596</a>	WD-150	HIP	75	75
	Private Property No Trespassing ATS SKU: <a href="#">19290003</a>	GM-13	HIP	60	45
	No Exit ATS SKU: <a href="#">11120159</a>	WA-8B	HIP	45	45
	Watch for Children ATS SKU: <a href="#">19290024</a>	SM-12	HIP	60	60
	Road Closed Local Traffic Only ATS SKU: <a href="#">19120770</a>	MC-9	HIP	120	75
	Road Closed (Yellow, Org) ATS SKU: <a href="#">19290021</a>	SM-05	HIP	60	60
	Slow ATS SKU: <a href="#">19290026</a>	SM-20	HIP	60	60
	No Thru Traffic ATS SKU: <a href="#">11110319</a>	NS-52	HIP	45	60

# Sign Products

Sign	Description	Sign Code	Sheeting Type	Width (cm)	Height (cm)
	No Through Road ATS SKU: <b>19290023</b>	SM-10	HIP	60	60
	Reverse Turn Left ATS SKU: <b>11120128</b>	WA-4L	HIP	60	60
	Reverse Turn Right ATS SKU: <b>11120130</b>	WA-4R	HIP	60	60
	Sharp Curve Left ATS SKU: <b>11120078</b>	WA-2L	HIP	60	60
	Sharp Curve Right ATS SKU: <b>11120080</b>	WA-2L	HIP	60	60
	Curve Right ATS SKU: <b>11120125</b>	WA-3R	HIP	60	60
	Curve Left ATS SKU: <b>11120122</b>	WA-3L	HIP	60	60

## \*NOTES

1. Traffic Partner PRODUCTS - AMM Signs 2023 applies to all standard Manitoba Transportation 0.81" (2mm) flat sheet aluminum (AL1).
2. ATS is an authorized 3M sign fabricator and carries all applicable reflective sheeting warranties.
3. ATS is a proud member of the Association of Manitoba Municipalities (AMM).
4. HIP = High Intensity Prismatic Reflective Sheeting.
5. DG3 = 3M Diamond Grade Cubed Reflective Sheeting.

## SIGN WARRANTY

A sign warranty against any abnormal deterioration of performance i.e. fading will apply to any ATS manufactured sign the warranty value of which will be calculated on a prorated life basis as indicated in the chart here. Excludes fluorescent diamond – grade.

Sheeting	Warranty Life
HIP	10 Years
DG3	12 Years

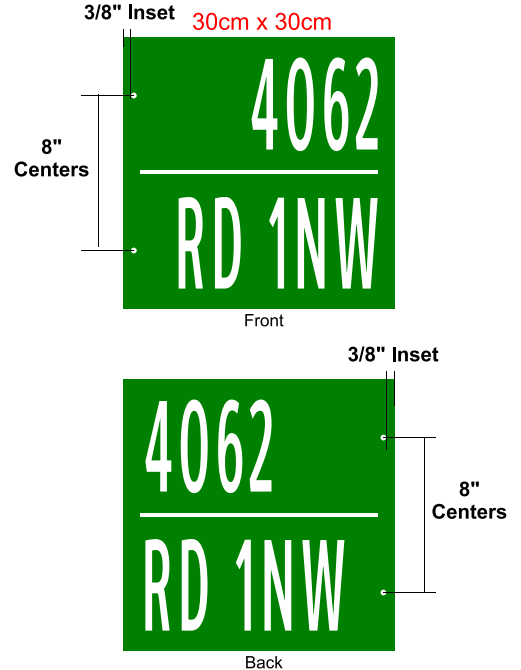
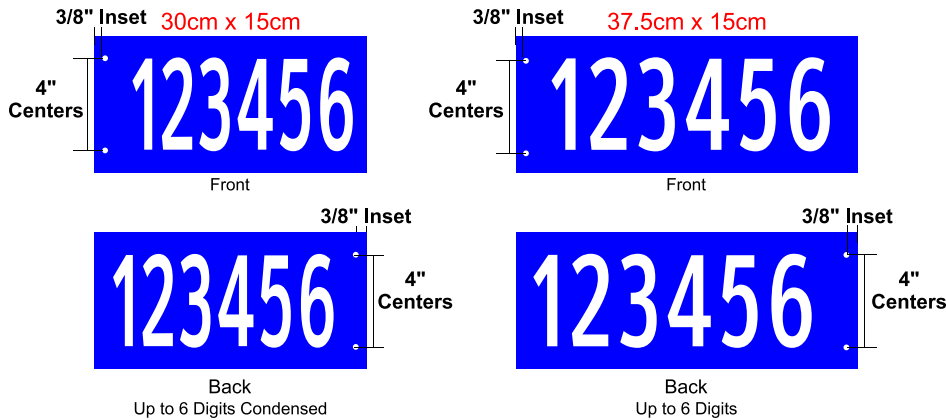


# MANITOBA

## Hole Placements For Civic Address Flag Sign Mounts

Double Sided on Flat Sheet Aluminum

### T-Post



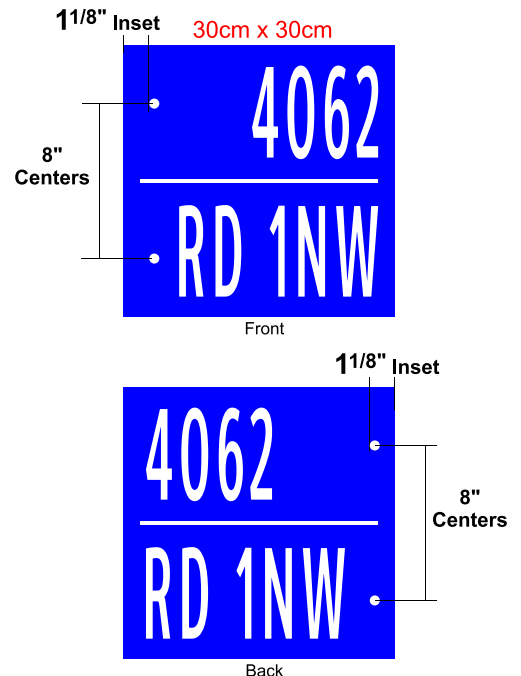
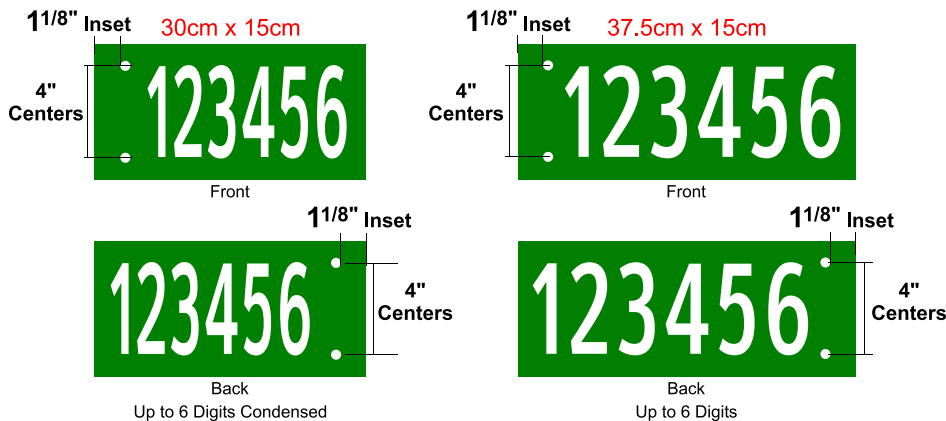
#### T-Post - 3/8" Holes

1.5" Post



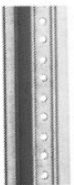
- |                                     |   |                                    |
|-------------------------------------|---|------------------------------------|
| <input type="checkbox"/> 30 x 15cm  | <input type="checkbox"/> 37.5 x 15cm    | <input type="checkbox"/> 30 x 30cm |
| <input type="checkbox"/> Blue       | <input type="checkbox"/> Green          |                                    |
| <input type="checkbox"/> Engineer   | <input type="checkbox"/> HIP            |                                    |
| <input type="checkbox"/> Hwy C Font | <input type="checkbox"/> Clearview Font |                                    |

### Pipeline Post



#### Pipeline-Post - 7/16" Holes

2.25" Post



- |                                     |   |                                    |
|-------------------------------------|---|------------------------------------|
| <input type="checkbox"/> 30 x 15cm  | <input type="checkbox"/> 37.5 x 15cm    | <input type="checkbox"/> 30 x 30cm |
| <input type="checkbox"/> Blue       | <input type="checkbox"/> Green          |                                    |
| <input type="checkbox"/> Engineer   | <input type="checkbox"/> HIP            |                                    |
| <input type="checkbox"/> Hwy C Font | <input type="checkbox"/> Clearview Font |                                    |




atstraffic.ca 800.661.7346

# Sign Hardware

Product	Description	Width (inches)	Height (inches)
	Dual Round or Square Post Top Mount Bracket ATS SKU: 22130073	5"	2 3/8"
	Wood Post Top Mount Bracket ATS SKU: 22130064	4"	4"
	Centre Mount Bracket (Round) sold as each ATS SKU: 22130065	2 3/8"	n/a
	Round Base Plate 8x8 Plate w Round Stub (2 3/8) ATS SKU: 21120120	8"	8"
	Square Base Plate 6"x 6" Plate with Square Stub (2") ATS SKU: 21120781	6"	6"
	Crossover Top Mount Bracket ATS SKU: 22130031	5"	n/a
	12" Top Mount Bracket for Round 2 3/8" ATS SKU: 22130042	12"	n/a
	12" Crossover Bracket ATS SKU: 22130032	12"	n/a








# Sign Hardware (cont.)

Product	Description	Width (inches)	Height (inches)
	U Channel Anchor Post ATS SKU: 21110053	n/a	3.5"
	Square Anchor Post (2 1/4") ATS SKU: 21110109	n/a	3"
	U Flange Pipeline Post ATS SKU: 21110051	n/a	7"



Description	ATS SKU	Lengths
U Channel Post	21110044	6"
	21110042	8"
	21110045	10"
	21110062	12"
Round Post (2 3/8")	21110317	6"
	21110319	8"
	21110311	10"
	21110313	12"
Square Post (2")	21110143	6"
	21110142	8"
	21110138	10"
	21110106	12"

# Assorted Products

	Description	ATS Code	Sheeting	Width (in)	Length
	Looper Post 2-4" White HIP band	32110072	HIP		42"
	11lb Rubber Delineator base	32110044			
	28" cone with 7lb base	32110523	HIP		
	AMP Channelizer drum 2x4" HIP white and orange stripes	32110297	HIP		
	20lb Black Traffic Barrel Base	32110721			
	Windmaster sign stand 4818K2	23120020			
	Compact sign stand 3612DLK	23120000			



White Delineator Post  
Black Top

32120038

66"

4" Orange Strip for Water  
Marker Posts (Requires 2)

12115230

DG3

4"

1-12" Orange DG Band

12115231

DG3

12"

1-8" White HIP Band






12115232

HIP

8"



# Assorted Products

	Description	ATS Code	Sheeting	Width (in)	Length
	FH-60 Orange Hydrant Marker & 2" HIP Orange Reflective Band	62110030	HIP		60"
	L Bracket Galvanized with 2 Holes	32120015			
	FG 300 PE Cloverleaf Channelizer Post	32120266			36"
	Orange Base	32120264			
	Butyl Pad	32120141		8"	8"

# Message Signs



## PCMS-320

The PCMS-320 is a mid-size full-matrix trailer-mounted portable changeable message sign. The PCMS-320 features the NTCIP-compliant V-Touch controller, Opti Power lens, Tilt-and-Rotate solar panels, JamLogic fleet management software (modem required) and optional Stealth Technology. This unit combines energy-efficient design and high-quality construction to provide the most reliable and cost-effective message signs on the market. The PCMS-320 has a compact design which makes it perfect to be used on highway construction projects where space is limited and in urban areas.



## SP-715V PRO SERIES

The SP-715V PRO is a battery/solar powered trailer-mounted speed sign, with 3-digit display. It features our Stealth Technology, V-Touch SP controller, JamLogic® Fleet Management Software and state-of-the-art doppler radar. Our speed sign is designed to display real-time speed information to the motoring public, reducing speeds and providing a safer environment.



## ST-4825 PRO SERIES

The ST-4825 Pro Series is a trailer-mounted arrowboard with 25 LED lamps. It features our innovative single-mast design, V-Switch controller, Stealth Technology and OptiBright lamps. The unit combines energy-efficient design and high-quality construction to provide the most reliable and cost-effective arrowboard on the market.



## FLAGGER-MAC

The Ver-Mac Flagger-Mac is a trailer mounted automated gate device that is designed for flagging operations. The Flagger-Mac system consists of two automated gate devices that is operated by a traffic control person using a wireless remote controller. This technology allows the person to fully control both devices from a safe location outside the work zone. The Flagger Mac is equipped with two 12-inch lamps, (1) red and (1) yellow, one adjustable gate with flag, V-Touch controller with wireless remote and stealth technology. The Flagger-Mac is designed to increase the safety of the traffic control flagger by minimizing their exposure to traffic.



## FLAGGER-MAC LITE

The Flagger-Mac Lite is a compact, robust, and safe flagging device that deploys quickly and easily from the back of a truck.

The wireless remote can be used at a distance of 100m. The 12-inch lamps can be viewed day or night.

*\*Multiple options & custom solutions available for rent or purchase - contact our team to learn more!*

# Truck Mount Options

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**TM-548**

FULL-MATRIX **TRUCK-MOUNTED** MESSAGE SIGN  
48 X 78 INCH. (1207 X 1969 MM)  
30 X 56 PIXELS



**TM-3048**

FULL-MATRIX **TRUCK-MOUNTED** MESSAGE SIGN  
48 X 68 INCH. (1727 X 1219 MM)  
30 X 56 PIXELS



**TM-2056**

FULL-MATRIX **TRUCK-MOUNTED** MESSAGE SIGN  
35 X 78 INCH. (883 X 1969 MM)  
20 X 56 PIXELS



**TM-1056**

FULL-MATRIX **TRUCK-MOUNTED** MESSAGE SIGN  
22 X 78 INCH. (559 X 1969 MM)  
10 X 56 PIXELS

# EQUIPMENT RENTALS

R



GIVE YOUR TEAM THE  
TOOLS THEY NEED  
WHEN AND WHERE  
THEY NEED THEM.

We have the highest-quality equipment and a broader range of products than any other company on the road. Our crews bring the equipment to the site, set it up, and take it down when the project is over.

BARRICADES

BARRIERS

CONES

DELINEATORS

BARRELS

SIGNAGE

MESSAGE BOARDS





# Installation Services

## Guardrail & Cable Barrier



ATS can provide both the supply and install of a variety of products for large-scale projects, including work on bridges and highways. Our specialized installation team has the equipment and expertise to install impact attenuation devices and other technical product lines on time and on budget. This includes:

- TL-3 & TL-4 rated High Tension Cable Barrier
- Approach Guardrail (bridge applications)
- W-beam and Thrie Beam Guardrail
- Median Gates
- Side Mount & Overhead Traffic Signs
- Permanent Delineation



With the proper equipment and resources necessary to install various types of Guardrail and Cable Barrier, including a Turchi Post Pounder (which significantly reduces installation time) we can provide a variety of Installation Services for your project.

### Guardrail

Our team consists of experienced crew members with a wealth of experience in the installation of Guardrail in both w-beam and thrie-beam applications. With crews present in the province of Saskatchewan, a Turchi Post Pounder and other large-scale equipment at our disposal, ATS Traffic can take care of all aspects of large infrastructure projects. This includes all types of Bridge Tie ins and all varieties of crash ends in any field application required.

### Cable Barrier

Similar to Guardrail, Cable barrier systems are commonplace on Highways because of the benefit of slope, hazard and median protection. ATS offers both the supply and install of TL-3 and TL-4 rated cable barrier, with a proficient and highly trained team to install major Cable Barrier manufacturers' systems.

## Other Installation Services

### Information Signs (extruded Aluminum)

ATS can install any size ground mount sign on concrete bases and I-beam breakaway steel posts – so long as it follows Alberta Transportation (or provincial) specification.

### Regulatory Sign Installation

ATS can install any size ground mount sign on concrete bases and I-beam breakaway steel posts – so long as it follows Alberta Transportation (or provincial) specification.





**Guardrail & Cable Barrier Installation Examples:**



**Contact us today for more information.**

<b>Edmonton</b> 780.440.4114	<b>Calgary</b> 403.248.3241	<b>Langley</b> 604.530.9908
<b>Regina</b> 306.522.0511	<b>Saskatoon</b> 306.242.4407	<b>Winnipeg</b> 204.233.1600

[atstraffic.ca](http://atstraffic.ca) | Since 1966





# SHORING



R



**Single Wall Trench Shield**

Single Wall Trench Shields (SWTS) provide a lightweight adaptable shoring solution for trench depths of up to 12' in C-60 soils. Single Wall Trench Shields are professionally engineered to have a large open working area. These shields come in 2'- and 4'-high sections that are stackable. They can be easily transported in a pick-up truck or van. They are light enough to be assembled by hand and moved by a mini excavator or backhoe. This makes them a great choice for even the tightest jobsite conditions.

With options such as legs kits, wheel kits, stacking kits, and end shore panels, the Single Wall Trench Shield can be used for almost any small tie-in or service. They can be assembled with adjustable aluminum spreaders or the pneumatic shoring struts, giving the option of having an even more versatile fleet.

R



**Pneumatic Multi-Shoring System**

The Multi-Shoring System is the quickest and safest way of shoring trenches with existing utilities and crossings. It can be lowered in as a complete unit, and when multiple sets are used in a trench, it is easy to remove the trailing set and move it to the front for uninterrupted production. The system is made up of spot-rail pads and Finn Form panels and used with standard-series shoring struts. Unlike standard sheets of plywood, the Finn Form panels will not swell when exposed to water or muddy jobsite conditions. This system is stronger, more durable, and capable of far greater depths than the conventional 2" x 10" plank uprights and plywood.

Available in 4' width by 6', 8', 10' & 12' heights.

R

All products marked with the "R" label are also available for rent



# I-SAFE 1 SL



## Variable Message Sign (VMS) with alternating speed and text/images



The I-SAFE 1 sign links the speed information (green, orange or red displayed depending on driver's behavior) to a 768 LED matrix on which you can display personalized pictograms.

With its internal radar and removable battery, the I-SAFE 1 is mobile and easy to use. It can also be powered using a solar power kit or AC power.

### Benefits

- Compact
- Light
- Predefined settings
- Calendar function (up to 4 periods/day)

### User-Friendly

- Comprehensive software for data analysis
- Full standard kit including the fastening system

### Multi-Purpose

- 1 product = 4 power possibilities (battery, solar, public lighting, mains power)
- Possibility to display 2 pictograms successively for one measure
- Anti-speeding record function
- Fully customizable settings

### Features

- Vehicle activated traffic calming
- Amber LED or 3-LED display colours (green, orange, red)
- Personalized pictograms (or short messages)
- Set up using PC software and USB flash drive





HOUSTON RADAR

# ARMADILLO TRACKER

Armadillo Tracker™ is a fully integrated multi-lane bidirectional traffic data gathering device. Featuring small size, no hassle field setup, non-intrusive sensing technology and long range wireless connectivity Armadillo Tracker ensures operational safety during installation and data retrieval.

## FEATURES

- Patent pending true dual beam “speed trap” technology inherently provides accurate measurements without the need for in situ calibration.
- World’s lowest power usage highly integrated multi-lane traffic measurement radar. At 0.85 Watts SpeedLane requires 10X less power than competing products.
- FCC and CE listed for full 250MHz operation to suit variety of application requirements.
- Mounts on the side of the road for non-intrusive traffic data collection and works in all weather and lighting conditions.
- Simultaneously measures all vehicles in 8 user defined lanes.
- All traffic measurements are on per-vehicle, per-lane basis, available in real-time and stored in device memory.
- Lane-by-lane vehicle counts, length based class, average and 85th percentile speeds, occupancy, headway and gap measurements.
- Companion Windows application provides intuitive GUI to set all configuration parameters, display real time plots of targets and view snapshots & streaming HD video.
- Built-in long range Class I 2.1+EDR Bluetooth, RS232/RS485 serial ports and Ethernet.
- 512 Mbytes of on-board storage plus µSD card expansion slot.
- Built-in 1.3MP HD video camera for sighting makes setup a snap and allows convenient remote monitoring of traffic.
- Powerful SQL based query interface for historical data.
- Optional cloud based server to aggregate data from multiple devices provides quick and seamless dashboard view.
- Optional built-in UPS with rechargeable battery keeps unit running for over 24hrs on loss of external power.



CARMANAH

# R920-E

## RECTANGULAR RAPID FLASHING BEACON

Pedestrian-actuated warning system for uncontrolled marked crosswalks; The R920 is the benchmark for Rectangular Rapid Flashing Beacons.

RRFBs have been found to provide vehicle yielding rates between 72 and 96 percent for crosswalk applications, including 4 lane roadways.

### MOUNTING OPTIONS

2.0" - 2.5" Perforated  
Square Post Mount



2.38" - 2.88" Diameter  
Round Post Mount



4.0" - 4.5" Diameter



Side Post Mount



### FEATURES

- Ultra-efficient optical and Energy Management System (EMS)
- Compact design to simplify installation
- Proven technology platform
- Exceeds FHWA standards
- Superior Design and Technology:
  - The R920 utilizes a self-contained solar engine integrating the energy management system with an on-board user interface, housed in a compact enclosure together with the batteries and solar panel.
  - In low light conditions, the ambient auto-adjust option provides over-lighting protection and system efficiency, while still meeting MUTCD light intensity requirements.



# R920-MX

## Connected Crosswalk Beacon or Sign

Boost safety at unsignalized crossings with proven technology, actionable alerts, and street-level data.

- ✓ Every system ships with **3 years of free remote connectivity**
- ✓ Actionable email and text alerts
- ✓ Remote system access via MX Cloud™
- ✓ Quick setup and local access with MX Field App™ (iOS®/Android™)
- ✓ 'Smart module' design for simple installation and richer data
- ✓ Solar Power Report (SPR) available for every location

### Free out-of-the-box connectivity

R920-MX systems have connectivity embedded into their design, making installation easy. From the moment a system receives power, it connects both locally to the MX Field App and remotely to MX Cloud, providing easy remote access to system status, settings and data. RRFB systems come with default settings that meet MUTCD Standards, including wig-wag plus simultaneous (WW+S) flash pattern.

### Timely and actionable alerts

Cities can enable email and text alerts so they can know the minute there's an issue, be it a knockdown, dead battery or something else. Detailed location and module information reduce downtime and boost site visit efficiency while providing optimal citizen safety.

### Comprehensive asset visibility and data collection

All MX systems come with MX Cloud, a web-based application that lets users remotely access system locations, alerts, settings and data like daily activation counts. The GPS map not only gives cities better visibility, but enables streamlined, proactive asset management and future planning.

### Long-lasting, reliable operation

Every MX module is built to last with durable, weatherproof aluminum construction and vandal-resistant wireless antennas. Solar-powered models are solar-sized to project locations, backed by a Solar Power Report (SPR) to prove year-round sustainability.



Meets MUTCD Standards



Buy America/  
BABA compliant



3-year limited  
warranty



carmanah®  
MX Series



Cabinet-based solar and AC (100-240 VAC) available

Rectangular rapid flashing beacon (RRFB) shown

## MX Series Connective Capabilities



MX CLOUD  
(REMOTE)



MX FIELD APP  
(LOCAL)

### What's a Solar Power Report™ (SPR)?

No matter where you install your solar-powered system, your product should be carefully sized for its location to ensure it will be operational for the long-term.

Over the last 20+ years, our engineers have developed a field-proven software simulation that helps us replicate the real-life conditions of your project location—and determine the best solar-powered solution for your project.

Learn more about our process at [carmanah.com/spr](https://carmanah.com/spr).

# R920-MX

Connected Crosswalk Beacon or Sign



carmanah® MX Series

carmanah.com | traffic@carmanah.com | 1-844-412-8395

## MX FLASHER MODULES




MX RRFB Module



MX Beacon Module



MX LED Sign Module

MX RRFB Module	<p>Meets MUTCD approval (IA-21) and MUTCD (Canada) Standards</p> <p>Purpose-built optics exceed SAE J595 class 1 intensity by 2.5-3x when used as recommended; meet SAE J578 chromaticity</p> <p>3" (76 mm) x 7" (178 mm) clear, UV-rated polycarbonate lens with yellow LEDs and side-emitting pedestrian confirmation LEDs</p> <p>Stainless steel mounting brackets make back-to-back installation simple and enable in-field aiming for maximum effectiveness</p> <p>Yellow or black powder-coated light bar covers</p> <p>Light bar configuration: uni-directional or bi-directional</p> <p>RRFB backplate and mast arm mount available</p> <p>In-field aiming: rotate the light bar towards the incoming vehicle lane, independent of the wire hole location</p>
MX Beacon Module	<p>Meets MUTCD Standards: 2009 MUTCD, Chapter 4L, Flashing Beacons</p> <p>Meets ITE recommendations for signal intensity and distribution</p> <p>12" (305 mm) or 8" (203 mm) diameter LED modules, yellow</p> <p>Yellow or black heads in UV-resistant polycarbonate or aluminum</p> <p>Side of pole arm and top of pole mount kits available</p>
MX LED Sign Module	<p>Meets MUTCD LED requirements for color, flash rate and dimming</p> <p>3M High Intensity Prismatic or Diamond Grade retroreflective sheeting and components</p> <p>UV-resistant polycarbonate channels and waterproof housings protect wiring; include fully integrated junction box</p> <p>Standard 30" and 36" W11-2 and S1-1 sign sizes (others available)</p> <p>Standard yellow and fluorescent yellow-green sign colors available</p> <p>Standard banding, through bolt and U-bolt mount kits available</p>
Options	<div>  <p>Accessible Pedestrian Signals (APS) push button</p> </div> <div>  <p>Overhead lighting fixture (<a href="#">see data sheet</a>)</p> </div> <div>  <p>Passive pedestrian detection</p> </div>

## MX POWER MODULES

Solar	<p>12 VDC operation, solar sized to specific geographic location</p> <p>Includes 12-month Solar Power Report to ensure sustainability</p> <p>System designed for 5+ year battery life</p> <p>Replaceable, recyclable, sealed, maintenance-free AGM batteries offer the widest temperature range and longest life</p>
AC (only MX 300/400)	100-240 VAC in standard configurations
Construction	<p>Weatherproof, gasketed enclosure with vents for ambient air transfer (NEMA 3R)</p> <p>Lockable door</p> <p>Cabinet systems include Type II lock option (standard for MX 400)</p> <p>Corrosion-resistant aluminum with stainless steel hardware</p> <p>Raw aluminum finish or black powder-coated</p>





	MX 100	MX 200	MX 300	MX 400
Type	Integrated solar + battery	Integrated solar + battery	Separate solar + cabinet	Separate solar + cabinet
Housing Dimensions & Weight (w/o batteries)	<p>12.6 x 13.6 x 5.3"</p> <p>320 x 345 x 135 mm</p> <p>5 lb (2.3 kg)</p>	<p>30 W version:</p> <p>18.3 x 15.7 x 5.8"</p> <p>465 x 399 x 147 mm</p> <p>11 lb (5.0 kg)</p> <p>50 W version:</p> <p>18.3 x 26.3 x 5.8"</p> <p>465 x 668 x 147 mm</p> <p>14 lb (6.4 kg)</p>	<p>16.7 x 11.3 x 7.0"</p> <p>424 x 287 x 178 mm</p> <p>10 lb (4.5 kg)</p> <p>AC version weight: 12 lb (5.4 kg)</p>	<p>21.9 x 16.1 x 8.3"</p> <p>556 x 409 x 211 mm</p> <p>19 lb (8.6 kg)</p> <p>AC version weight: 21 lb (9.5 kg)</p>
Mount Kits	<p>Top of Pole Mount</p> <p>Side of Pole Mount</p> <p>Universal solar mounts:</p> <ul style="list-style-type: none"> <li>2-2.5" perforated square posts</li> <li>2.38-2.88" OD round poles</li> <li>3.5-4.5" OD round poles</li> <li>Side of pole</li> </ul>		<p>Top of Pole Mount</p> <p>Side of Pole Mount</p> <p>Cabinet mounts:</p> <ul style="list-style-type: none"> <li>Standard banding</li> <li>Through bolts</li> <li>U-bolts (MX 400 only)</li> </ul> <p>Universal solar mounts:</p> <ul style="list-style-type: none"> <li>3.5-4.5" OD round poles</li> <li>Side of pole</li> </ul>	
Batteries	1-2x 7 Ah	1-2x 18 Ah	1x 18, 35 or 55 Ah	1x 35, 55 or 100 Ah
Solar	15 W	30 or 50 W	50, 80 or 170 W	50, 80 or 170 W
Solar Dimensions & Weights	See housing dimensions above	See housing dimensions above	<p>50 W:</p> <p>26.3 x 21.2" (668 x 538 mm)</p> <p>10 lb (4.5 kg)</p> <p>80 W:</p> <p>30.7 x 26.5" (780 x 672 mm)</p> <p>13 lb (5.9 kg)</p> <p>170 W:</p> <p>59.1 x 26.3" (1500 x 668 mm)</p> <p>25 lb (11.3 kg)</p>	

## WIRELESS COMMUNICATION AND DATA COLLECTION

Local	MX Field App (Bluetooth®)
System-To-System	Linked MX systems flash in sync up to 1,000 ft (305 m) away
Remote	MX Cloud (cellular)
Location & Time	GPS

## INCLUDED WITH EVERY SYSTEM

MX Subscriptions	<p><b>3 years out-of-the-box remote connectivity with MX Lite</b></p> <p><a href="#">See all MX subscriptions</a></p>
MX Cloud	MX Cloud for remote health status monitoring, email/SMS alerts, scheduling, asset management, programming and more
MX Field App	<p>Bluetooth® mobile app for on-site setup, local access to default settings, system health status and more</p> <div>   </div>
Warranty	<p>3-year limited warranty on MX system</p> <p>1-year limited warranty on batteries</p>
Support	<p>Carmanah's North American product support technologists available for solution building, solar sizing and troubleshooting</p> <p>24/7 access to Carmanah's online <a href="#">Product Support Center</a></p>
Customize	<b>Build an R920-MX online</b>

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**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.

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## AV-200 SERIES: LED ENHANCED TRAFFIC SIGNS

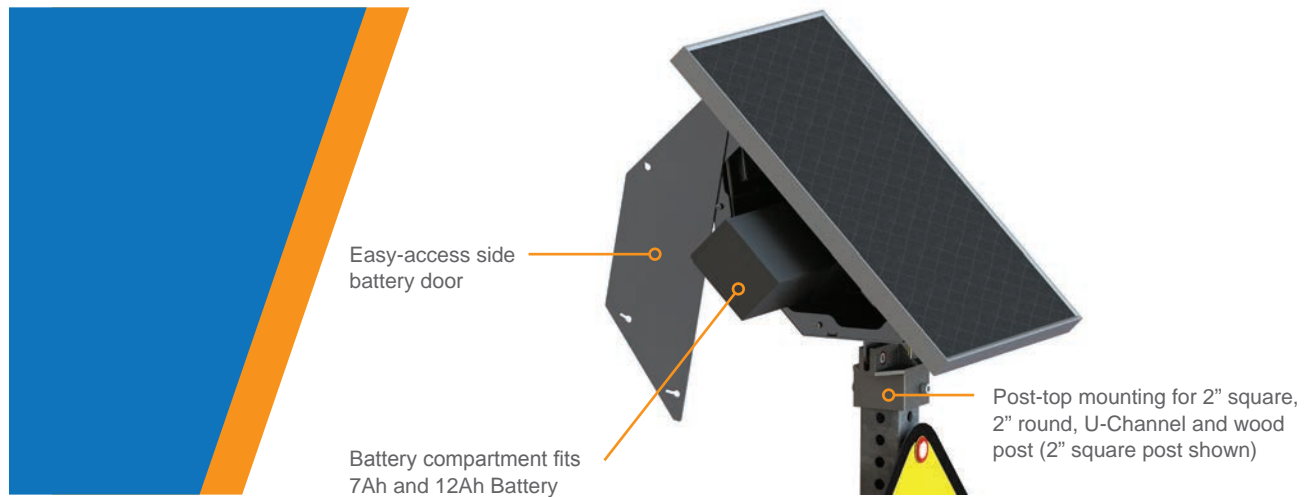
- **MUTCD Compliant**
- **Improves Intersection Safety**
- **Solar Powered**
- **Easily Installs on existing sign posts**



The Aailed Technologies AV-200 LED Enhanced Sign has been designed from the ground-up to provide reliable year-round 24 hour operation. Built with industry leading solar and LED technology, it is equipped with:

- Ultra-efficient LEDs and Lenses,
- Integrated maximum power point tracking,
- High-efficiency monocrystalline 20W solar panel,
- The option of 84 or 144 watt-hours of battery capacity.

The AV-200 will operate in challenging solar conditions including cold temperatures, low sun hours, and partial shading. The compact, self-contained design allows for rapid installation on new or existing round, square, U-channel, or wood sign posts.



## TECHNICAL SPECIFICATIONS

### SIGN:

- Substrate: 0.080" 5052 Alloy Aluminum
- Sheeting: 3M™ Diamond Grade™ DG<sup>3</sup> Reflective Sheeting with anti-graffiti protective film
- Legend: MUTCD Compliant R1-1 Stop Sign, MUTCD Chapter 2C Warning Signs
- Sizes: 24", 30", 36", 48"

### LEDs:

- 8 High-intensity red or yellow LEDs
- MUTCD compliant flash pattern
- 24 hour operation
- High-efficiency LED lens
- Sealed LED housing assembly

### SOLAR / BATTERY SYSTEM:

- Ultra-low power microprocessor with temperature compensating maximum power point tracking
- Variable intensity adjustable to ambient light
- 20W high efficiency monocrystalline solar panel
- 84 Wh (watt-hour) battery capacity (12V, 7Ah SLA)
- Optional 144 Wh (watt-hour) battery capacity (12V, 12Ah SLA)

### ENCLOSURE:

- 5052 Aluminum pole top mounted enclosure houses solar panel, controller, and battery
- Vented battery compartment with sealed electronic sub-enclosure and IP67 sealed wire harness connector
- Side access to battery with captive fasteners and quick disconnect terminals
- 8.5" W x 14.8" L x 4.7" D enclosure with 13.6" W x 18.5" L x 1" D solar panel
- Pole mounting options: 2" square, 2 3/8" round, U-Channel, wood post

### ENVIRONMENTAL:

- NEMA TS 2, Sections 2.2.7, 2.2.8, and 2.2.9 Compliant
- RoHS Compliant

\*specifications subject to change without notice  
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CARMANAH

# R247-E

## SOLAR FLASHING BEACON

24 Hour Flashing Beacon for Warning Signs and Stop Signs.

The R247-E is the standard for 24 Hour Flashing Beacons. The ultra-efficient solar technology delivers high intensity light output in a compact, lightweight, and easy to install solar engine.

### FEATURES

- Industry leading light output
- Available with Red or Amber beacons
- Proven technology platform
- MUTCD Compliant

#### High Intensity Light Output:

- The R247-E provides a high intensity 24 hour flashing beacon that provides year round performance in the most challenging solar conditions. An ultra-efficient energy management system coupled with the latest LED technology delivers a high intensity, continuous flash output.

#### Advanced User-Interface:

- The R247-E features an on-board user interface and display that provides quick configuration and status monitoring.



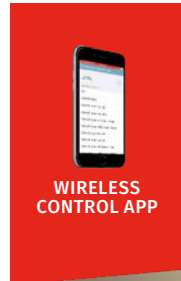


FIRST LIGHT TECHNOLOGIES

# SCL2 SERIES

## SOLAR LED INTEGRATED COMMERCIAL AREA LIGHT

The SCL2 Series solar LED luminaire is a great fit for commercial, parking lot, recreational bikeway/pathway and public space lighting applications. The self-contained, unobtrusive design integrates its solar power, adaptive control and LED technologies into a compact and efficient form. With robust construction, and unequalled performance the SCL2 series is an excellent fit wherever cost effective, full cutoff lighting is required.



### BENEFITS

- Cost effective design ships fully assembled and installs in minutes
- Smart Connect provides wireless control & communication with your light
- Low installation cost and minimal site impact with no trenching, cabling or wiring Minimal ongoing costs with no electrical bills or bulbs to change
- Operates entirely independent from the grid and is immune to power outages
- A sustainable choice without recurring carbon emissions

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The SLC in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.

### GROUND SCREW

For 16'-20' poles

*Easy Install with screw pile*



Our ground screw foundations use the natural compression of the earth for strength and stability.

Unlike concrete foundations which disturb the site with excavation and require waiting for concrete delivery and curing time, we install ground anchors in minutes with minimal site disturbance, at a lower cost.

When used with solar lighting, the need for wiring trenches is completely eliminated.

# FIRST LIGHT TECHNOLOGIES

# SOLAR LED BOLLARDS

## PLB

### Architectural Solar Illuminated Bollard

- Contemporary styling
- Cutoff lighting for pathways and outdoor spaces
- Provides effective ground-level illumination

## WLB

### Architectural Solar Illuminated Wayfinding Bollard

- Familiar louvred design
- Wayfinding/delineation applications
- Highly-visible fixture adds style to any location

## PLB-AC

### High-Efficiency Illuminated Bollard

- Wired version of our solar PLB
- Full cutoff lighting for AC powered applications
- Ideal for new and retrofit AC applications



## GROUND SCREW

### For 36" LED Bollard

*Easy Install with screw pile*



Our ground screw foundations use the natural compression of the earth for strength and stability.

Unlike concrete foundations which disturb the site with excavation and require waiting for concrete delivery and curing time, we install ground anchors in minutes with minimal site disturbance, at a lower cost.

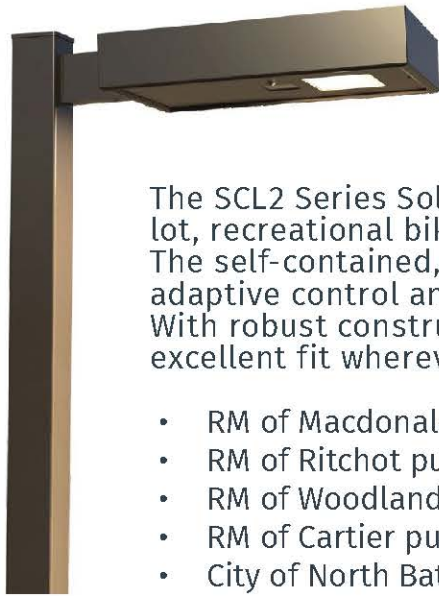
When used with solar lighting, the need for wiring trenches is completely eliminated.

## FEATURES & BENEFITS

- **Wire Free Lighting**  
No electrical design or trenching required
- **Save Time & Money**  
Our solar lights cost 50% less than wired lighting and only take 15 minutes to install
- **Lighting All Night Every Night**  
You can count on our lights to deliver effective light year without maintenance
- **Great Day Time Appearance**  
Our solar lights look like lights and our designs complement your project aesthetic with a low chance of vandalism or theft

# SCL2/PLB SERIES

## CREATE SUSTAINABLE MUNICIPALITIES WITH SOLAR STREET LIGHTS



**Lighting for pathways, parks, streets, and trails.  
Join the list of municipalities below:**

The SCL2 Series Solar LED Illuminaire is often used for commercial, parking lot, recreational bikeway/pathway and public space lighting applications. The self-contained, unobstrusive design integrates its solar power, adaptive control and LED technologies into a compact and efficient form. With robust construction and high performance, the SCL2 Series is an excellent fit wherever cost effective or full cutoff lighting is required.

- RM of Macdonald purchased 105
- RM of Ritchot purchased 2
- RM of Woodlands purchased 1
- RM of Cartier purchased 1
- City of North Battleford purchased 43

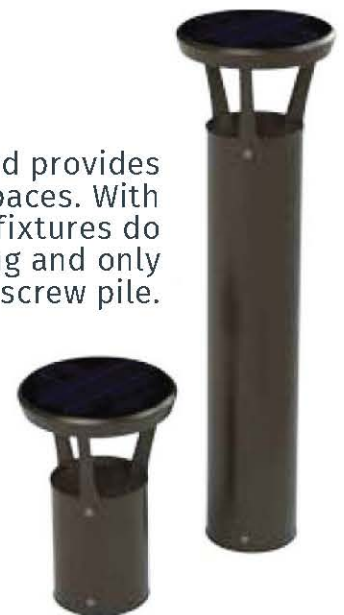


### VERIFIED SUSTAINABLE SOLUTIONS PROGRAM

ATS Traffic works with municipalities across Canada to design and implement sustainable, solar-powered solutions to promote mobility for vulnerable road users

The PLB Architectural Solar Illuminated Bollard provides cutoff lighting for pathways and outdoor spaces. With contemporary styling, these self-contained fixtures do not require electrical design, wiring or trenching and only take about 15 minutes to install using a screw pile.

- City of North Battleford purchased 49
- Town of Devon Alberta purchased 80



**\*Check provincial and federal grants for rebates**

# FAQ

## TECHNICAL SUPPORT



### **Solar-powered lighting products offer the following benefits:**

- Low install costs and minimal site impacts with no trenching, cabling or wiring
- Self-contained design ensures that the lights are easy to install
- Minimal ongoing costs with no electricity bills or bulbs to change
- Immunity from power outages
- Visibly green statement with no ongoing carbon emissions

### **Q. The sunlight at my site is highly variable. How do I know if your solar lights will operate effectively?**

All of our solar-powered lights are enabled by our innovative Solar Lighting Controller (SCL). The SCL in each light is "self-learning" and it allows the lights to predictively adapt to their surroundings, thus providing a level of lighting performance and reliability unavailable in other solar lighting products. A brief conversation will quickly determine if the conditions for our SCL will provide you with the lighting levels you require.

### **Q. When do your lights turn on/off?**

Our lights turn on/off automatically based on one of five factory set lighting profiles:

- Lights on at dusk, off at dawn
- Lights on at dusk, off after 6 hours
- Lights on at dusk, dim to 30% after 6 hours till dawn
- Lights on at dusk, off after 5 hours, on 1 hour before dawn
- Lights on at dusk, dim to 30% after 5 hours, on 1 hour before dawn

### **Q. How long will your light fixtures last?**

Our light fixtures estimated useful life is 15-20 years.

### **Q. How long will the light's battery last?**

Our high-performance lithium batteries useful life is typically 8-10 years.

### **Q. How long will your battery operate without the ability to re-charge?**

Unlike most solar lights, our products learn and adapt to its environment and therefore have the ability to predict and set the appropriate reserve levels to maintain good operation in adverse conditions. Under worst case scenarios, the battery's "autonomy" and its ability to operate without a re-charge would be approximately 14 days.

# IPL Series

## Solar LED Integrated Architectural Area Light

Project: \_\_\_\_\_

Type: \_\_\_\_\_

Quantity: \_\_\_\_\_



The IPL series solar LED luminaire is an ideal choice for architectural, commercial, recreational bikeway/pathway and public space lighting applications. The self-contained, contemporary, curvilinear design smartly embraces modern solar power, adaptive control and LED technologies. With robust construction, and unequalled performance the IPL series is an excellent fit wherever high-quality, full cutoff lighting and minimal visual clutter is required.

Utilizing solar power and LEDs, the IPL is completely self-contained and offers significant benefits over grid-based pathway lights including:

- Low installed cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Not affected by power outages
- Provide a visibly green statement without recurring carbon emissions

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The SLC in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.

## TECHNICAL SPECIFICATIONS

<b>Solar Module:</b>	<ul style="list-style-type: none"> <li>▪ High-efficiency mono-crystalline cells</li> <li>▪ Inconspicuously mounted on top of luminaire</li> <li>▪ Used for day/night detection (no photocell required)</li> </ul>
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<b>Solar Lighting Controller (SLC):</b>	<ul style="list-style-type: none"> <li>▪ High-efficiency, temperature compensated Maximum Power Point Tracking (MPPT)</li> <li>▪ Micro-controller based technology</li> <li>▪ Includes high-efficiency LED driver</li> <li>▪ Integrated into luminaire housing</li> <li>▪ Designed to automatically manage lighting performance based on environmental conditions and lighting requirements</li> <li>▪ Patent Pending</li> </ul>
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<b>Battery:</b>	<ul style="list-style-type: none"> <li>▪ High performance Lithium (LiFePO<sub>4</sub>)</li> <li>▪ Exceptional 8 – 10 year life cycle</li> <li>▪ High temperature tolerance</li> <li>▪ Contained within luminaire housing</li> <li>▪ Designed for easy battery changes when required</li> </ul>
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<b>LEDs and Optics:</b>	<ul style="list-style-type: none"> <li>▪ 100,000 hour L70 lifetime</li> <li>▪ Warm (3000K) and neutral (4500K) white color temperatures available</li> <li>▪ High efficiency Type 2, 3, 4 and 5, full cut-off optics</li> <li>▪ Typical lumen output from 850 to 1200 lumens</li> </ul>
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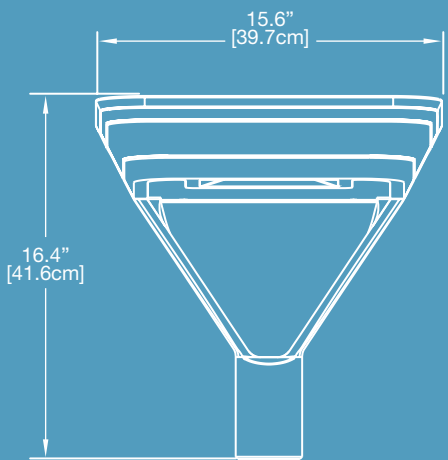
<b>Mechanical Construction:</b>	<ul style="list-style-type: none"> <li>▪ Cast, low copper aluminum top, housing, and arms</li> <li>▪ Stainless fasteners with security fastener option</li> <li>▪ Architectural grade, super durable, TGIC powder coat</li> <li>▪ Four standard colors with custom colors available</li> </ul>
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<b>Factory Set Lighting Profiles:</b>	<ul style="list-style-type: none"> <li>▪ On at dusk, off at dawn</li> <li>▪ On at dusk, off after 6 hours</li> <li>▪ On at dusk, dim to 30% after 6 hours till dawn</li> <li>▪ On at dusk, off after 5 hours, on 1 hour before dawn</li> <li>▪ On at dusk, dim to 30% after 5 hours, on 1 hour before dawn</li> </ul>
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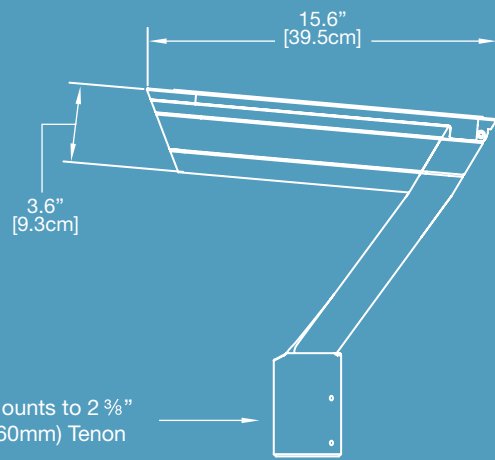


EPA: 0.65ft<sup>2</sup> (0.06m<sup>2</sup>)

Weight: 35 lbs (15.9 kg) including battery



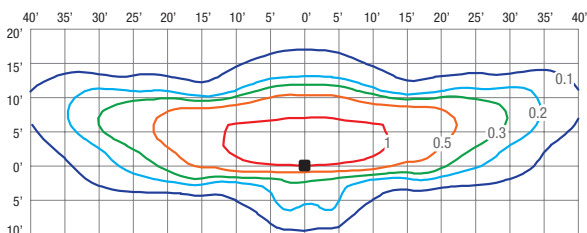
Front View



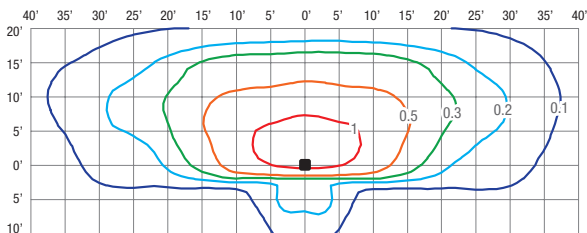
Side View

12  
3.66  
10  
3.05  
8  
2.44  
6  
1.83  
4  
1.22  
2  
0.61  
ft  
m

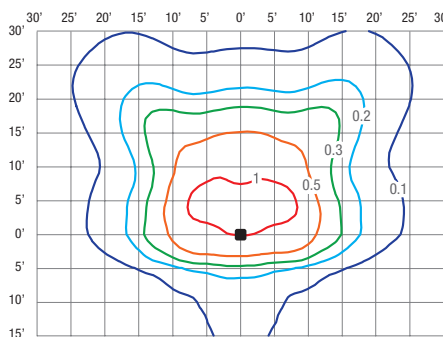
## PHOTOMETRICS (IES files available on request)



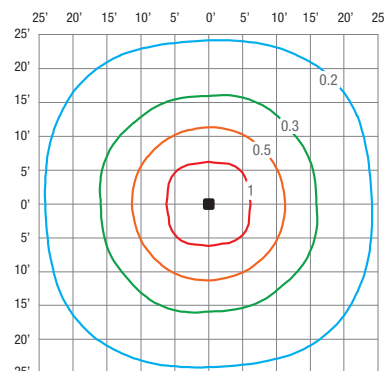
IPL - Type 2



IPL - Type 3



IPL - Type 4



IPL - Type 5

If you have any questions, please don't hesitate to call us  
toll free at 1-844-279-8754 (USA & Canada).

## ORDER MATRIX

Series	Mounting	Finish	Distribution	LED Color	Lighting Profile	Options
IPL	PTM - Post Top Mount	BK - Black	T2 - Type 2	WW - 3000K	00 - Dusk till dawn	SEC - Security Fasteners
		BZ - Bronze	T3 - Type 3	NW - 4500K	01 - Dark +6 hours then off	
		SV - Silver	T4 - Type 4		02 - Dark +6 hours then 30%	
		WH - White	T5 - Type 5		03 - Dark +5 hours, off, Dawn -1 hour	
		CC - Custom			04 - Dark +5 hours, 30%, Dawn -1 hour (DEFAULT)	

Notes:

- Photometrics based on 12 ft mounting height
- Specifications subject to change without notice
- All light levels in foot candles (fc) with 4500K color temperature and 850 lumen output
- To convert to lux multiply light level by 10.7



**Illuminating**  
ENGINEERING SOCIETY

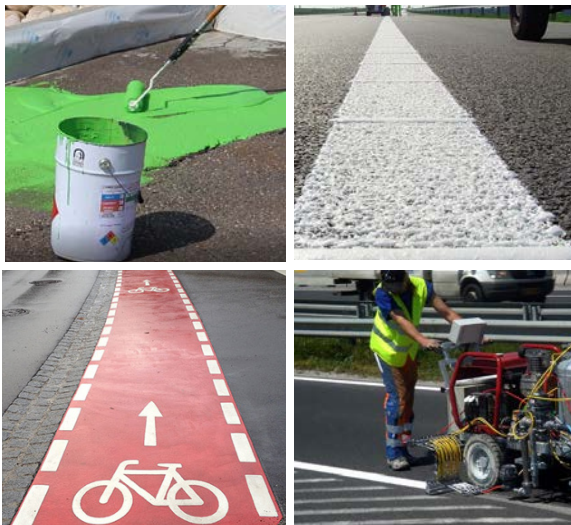




# OPTAMARK®

## PERFORMED THERMOPLASTIC

OptaMark® is a heavy-duty intersection grade preformed thermoplastic pavement marking with proven durability on a wide variety of pavement surfaces. No preheating and heat indents indicate material reached molten state. Quick and easy to apply, the interconnected material reduces layout time during application.



# PLASTIROUTE™

## COLD PLASTIC ROAD MARKING MATERIAL

Cold plastic is suitable for high traffic requirements and all climates. The application of PlastiRoute™ products is very flexible. You can apply the products with ordinary tools like a trowel, scraper, draw-box or roller as well as non-electric hand-driven machines. If you choose to apply the cold plastics by machine a wide variety of road marking patterns and lines are available.

# CHIPFILL™

## HOT-APPLIED SURFACE DEFECT REPAIR SYSTEM

When heated, the binders in the thermoplastic bond to the bitumen in the asphalt. This makes ChipFill™ a durable and cost-effective solution as it prevents damages from becoming bigger and more expensive to repair. ChipFill™ can be used for fixing cobblestones and preventing erosion and growth of weeds between them.



## THERMOPLASTIC MARKINGS

PRODUCT #	CATEGORY	DESCRIPTION	SIZE	COLOUR
51110136	Optamark	Right Turn Arrow	9'10"x4'4"	White
51110137	Optamark	Straight Arrow	9'10"x4'4"	White
51110139	Optamark	Standard Combi Arrow Right	16"x5'3"	White
51110141	Optamark	Yield Line - Shark's Teeth	12"x18"	White
51110143	Optamark	Line	4"x3'	White
51110151	Optamark	Line	4"x3'	Yellow
51110163	Optamark	Line	4"x3'	Blue
51110140	Optamark	Line	12"x3'	White
51110144	Optamark	Line	12"x3'	White
51110145	Optamark	Line	24"x3'	White
51110155	Optamark	Straight Arrow	11'4"x2'6"	Yellow
51110156	Optamark	Left Turn Arrow	9'10"x4'4"	Yellow
51110157	Optamark	Line BLG	24"x3'	Green
51110158	Optamark	Bike Lane Straight Arrow	4'11"x1'9"	White
51110159	Optamark	"ONLY"	8'	White
51110160	Optamark	"SCHOOL"	8'	White
51110161	Optamark	Bicycle Rider FHWA BLG	4'x7'	Green/White
51110164	Optamark	Shared Lane Symbol	9'3"x3'4"	White
51110167	Optamark	Sharrow Symbol	10'x3'3"	White
51110168	Optamark	Shared Pathway Symbol	5'3"x3'6"	White
51110169	Optamark	Super Sharrow Symbol	11'7"x4'6"	White
51110173	Optamark	Combi Arrow Left	16'x15'3"	White
51110176	Optamark	Straight Arrow	9'10"x3'3"	White
51110177	Optamark	Straight Arrow	18'x3'6"	White
51110180	Optamark	Reversible Turn Arrow	8'2"x6'3"	White
51110181	Optamark	Combi Arrow Left/Right	8'x10'	White
51110138	Optamark w/ Optatrac	Bicycle Rider	6'6"x3'4"	White
51110179	Optamark w/ Optatrac	Bicycle Symbol Left	6'6"x3'3"	White
51110182	Optamark w/ Optatrac	"School Zone Crosswalk"	6'x6'	White
51110185	Optamark w/ Optatrac	Line	24"x3'	Yellow
51110188	Optamark w/ Optatrac	Line	24"x3'	White
51110135	Optatrac	Yield Line - Shark's Teeth	24"x36"	White
51110148	Optatrac	Straight Arrow	2/box	White
51110149	Optatrac	Right Turn Arrow	2/box	White
51110150	Optatrac	Left Turn Arrow	2/box	White
51110175	Optatrac	Line	3'x6"	White
51110178	Optatrac	Line	6"x3'	Red
51110174	Optatrac	Line	16"x3'	White

Performed Thermoplastic Road Markings



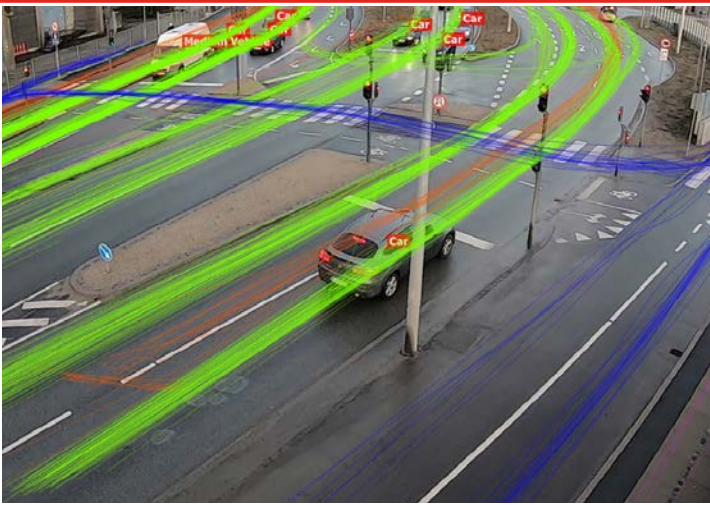
## PARKING THERMOPLASTICS

PRODUCT #	CATEGORY	DESCRIPTION	SIZE	COLOUR
51110152	Optamark	Electric Vehicle Symbol	34"x39"	White
51110154	Optamark	Electric Vehicle Symbol	40"x40"	White
51110146	Optamark	Handicap Kit	40"x40"	White on Blue
51110147	Optatrac	Handicap Kit	48"x48"	White on Blue
51110162	Optamark	Dynamic Handicap	40"x40"	White/Blue

## OTHER THERMOPLASTIC PRODUCTS

PRODUCT #	CATEGORY	DESCRIPTION	SIZE	COLOUR
51110142	PlastiRoute	Rollplast Bike Lane	2.39g	Green
51110165	PlastiRoute	Rollplast Bike Lane	2.39g	Blue
51110170	Optabond	Adhesive Pads	5"x5"	Black
51110153		Geveko Sealer	1.05g	





## DFS Light

### Unlimited traffic data

Become a real traffic expert thanks to DFS Light cloud service: traffic counting, OD-matrix, turn counts, statistics, trajectories, various exports and visualizations and much more just in a few clicks.

Automated video analysis of traffic from any ground-based video source.

## DFS Aerial

### AI eye in the sky

Need super accurate data from drone footage? Send your video for DataFromSky Aerial Analysis - the most advanced technology for traffic monitoring at the microscopic level. Trajectory & GPS position, speeds, acceleration, Tg&Tf calculation, capacity estimation, Time to Collision, Safety analysis and road user behavior patterns - in-depth traffic study thanks to DFS Aerial.



## Traffic Detector

### Real-time traffic monitoring

Do you need real-time 24/7 counts and statistics of traffic? Traffic Detector is the right solution: embedded system for real-time traffic analysis from fixed cameras! Complex OD-matrix, turning movement counts, open API and detection of 6 classes provided by the most advanced traffic AI. Use TrafficDetector for adaptive control of traffic lights.

## Parking Detection

### Smart parking with artificial intelligence

PD system monitors the actual occupancy of a parking lot, provides its managers with valuable information about the daily turnaround and navigates drivers all the way to an empty parking spot. Parking rule violation, parking time exceeded, parking payment management - PD can help with all of that and much more!



# Return Policy

Unfortunately, circumstances can arise where product needs to be returned. This document provides a procedure for the return of materials that do not meet order requirements (i.e. damaged, shortages of product, wrong product or incorrect item, and/or defective products). In addition, this document will provide a procedure for return of materials other than damaged, shortages, wrong shipment or incorrect item, and defective products. ATS Traffic accepts returned goods for the following reasons, timeframe and under the associated policy:

Reasons for Returned Materials	Reporting Timeframe	Policy
Damaged goods	<p>All damaged materials received by an AAMDC customer must be reported to ATS Traffic within two (2) business days (48 hours) of delivery.</p> <p>Concealed damages must be reported within ten (10) business days.</p>	<p>Upon delivery, visible damages must be noted on the Bill of Lading, signature of person receiving the damaged materials, and the carrier driver's signature.</p> <p>Damages that are not reported on Bill of Lading must be held until an inspection by the carrier is completed and a report is issued. Customer may request an inspection of damages. ATS Traffic will contact the delivery carrier for an inspection. Once the carrier report is issued, ATS Traffic Customer Service will issue an authorization to return product. A copy of the inspection report and a Return Materials Authorization (RMA) must accompany the returned product. (The procedure to request an RMA is seen in section 1 below.) Whenever possible, a picture of the damaged materials should accompany the inspection report.</p> <p>Please note: No credit will be issued without report showing damages on Bill of Lading at the time of delivery or on a carrier's report.</p>
Shortage	<p>All visible shortages received by the customer must be reported to ATS Traffic within two (2) business days (48 hours) of delivery.</p> <p>Concealed shortages must be reported within ten (10) business days.</p>	<p>Upon delivery, quantity discrepancies must be noted on the Bill of Lading, accompanied with signature of person receiving shipment and the carrier driver's signature. Claims made after the recommended timeframes will not be honored.</p> <p>Please note: No credit will be issued unless visible shortage is noted on Bill of Lading at the time of delivery.</p>
Wrong shipment or incorrect items	All wrong shipments or incorrect items must be reported to ATS Traffic Customer Service within two (2) business days (48 hours) of delivery.	ATS Customer Service will arrange for pick-up of materials from customer. All incorrect items will be corrected to customer specifications.
Defective Products	Defective products must be reported to ATS Traffic Customer Service w	ATS Customer Service will arrange for pick-up of materials from customer. All defective materials will be inspected and actioned through Sales Support for corrective action or credit.
Damaged Goods	A returned product other than damages, shortage, wrong shipment or incorrect items must be reported to ATS Traffic within ten (10) business days. In addition, product must be received at the issuing branch within thirty (30) days. After thirty (30) days no product will be accepted.	<p>Once notification is reported to ATS Traffic, we will issue an authorization to return the product (RMA). Returned materials are subject to a fifteen percent (15%) restocking fee.</p> <p>A twenty five percent (25%) restocking fee will be charged on returned special order materials.</p> <p>ATS does not offer any credit for custom ordered products.</p> <p>Note: restocking fees do not apply if the item is defective or damaged, or customer received the wrong shipment.</p>

## Return Materials Authorization (RMA) Process

### 1) Requesting a Return Materials Authorization (RMA):

- To request a RMA number, please contact your Sales Support representative indicated on the following page and obtain a Return Authorization Number and shipping instructions or fax a request for the return item. Please note: When faxing a request for return item, provide a contact name, fax and telephone number, product description, quantity, a copy of the packing list and or invoice, and reason for the return. All authorized returns must be shipped to originating branch of ATS Traffic, unless otherwise instructed by your ATS Customer Representative.

# Sales & Customer Service Contact Information



Timely service and customer satisfaction are the hallmark of ATS culture. If you experience a quality or service issue, please contact your Account Manager or sales support team by corresponding region. These individuals have immediate access to the customer service information and resources to resolve most issues quickly and efficiently.

If they are unable to do so, they will escalate the issue to senior management who will engage the required additional resources to expedite a solution.

## Key Contact

### **Jill Hawryluk – Account Manager**

982 Powell Avenue, Winnipeg, MB R3H 0H6

**C** 204.233.1600 **F** 204.793.3401

**E** [jillh@atstraffic.ca](mailto:jillh@atstraffic.ca)

**E** [info@atstraffic.ca](mailto:info@atstraffic.ca)

[atstraffic.ca](http://atstraffic.ca) | Since 1966

### **ATS Traffic - Winnipeg**

982 Powell Avenue, Winnipeg, MB R3H 0H6

**T** 204.233.1600 **TF** 1.877.953.1600

**E** [winnipegsales@atstraffic.ca](mailto:winnipegsales@atstraffic.ca)

### **ATS Traffic - Brandon**

340 Park Avenue East, Brandon, MB R7A 7A7

**T** 431.244.4611 **TF** 1.877.953.1600

**E** [brandonsales@atstraffic.ca](mailto:brandonsales@atstraffic.ca)

*Check out our [website](http://atstraffic.ca) for locations, product information and more!*



***Safety forward.***



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