

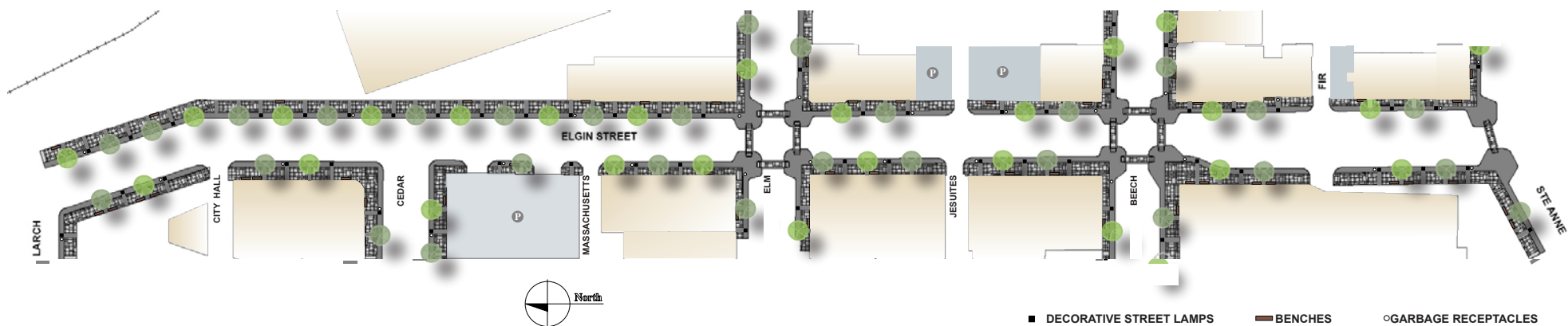


## APPENDIX

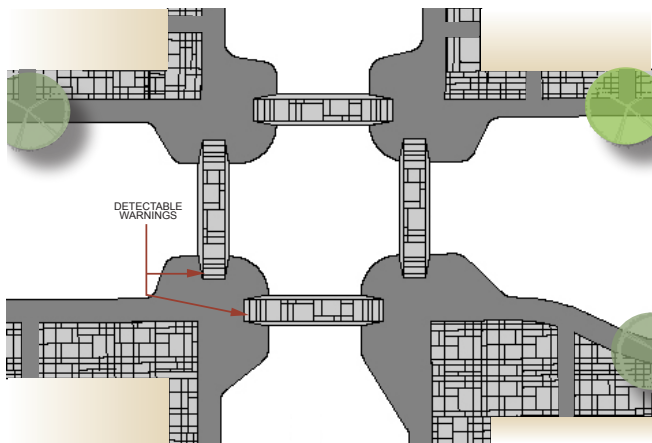
- a. Sample Streets
- b. Technical Sketches
- c. Product Information
- d. Proposed Dark Skies By-law
- e. Proposed Sign By-law
- f. Public Consultation



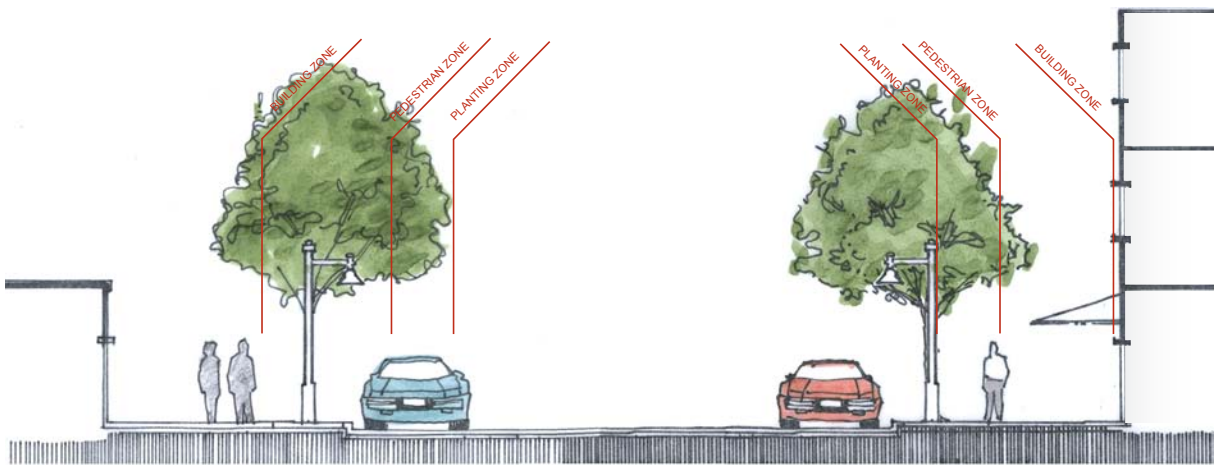
SAMPLE STREET | STREETSCAPE ENHANCEMENT | ELGIN STREET



Plan - Example of Street Enhancements for Elgin Street

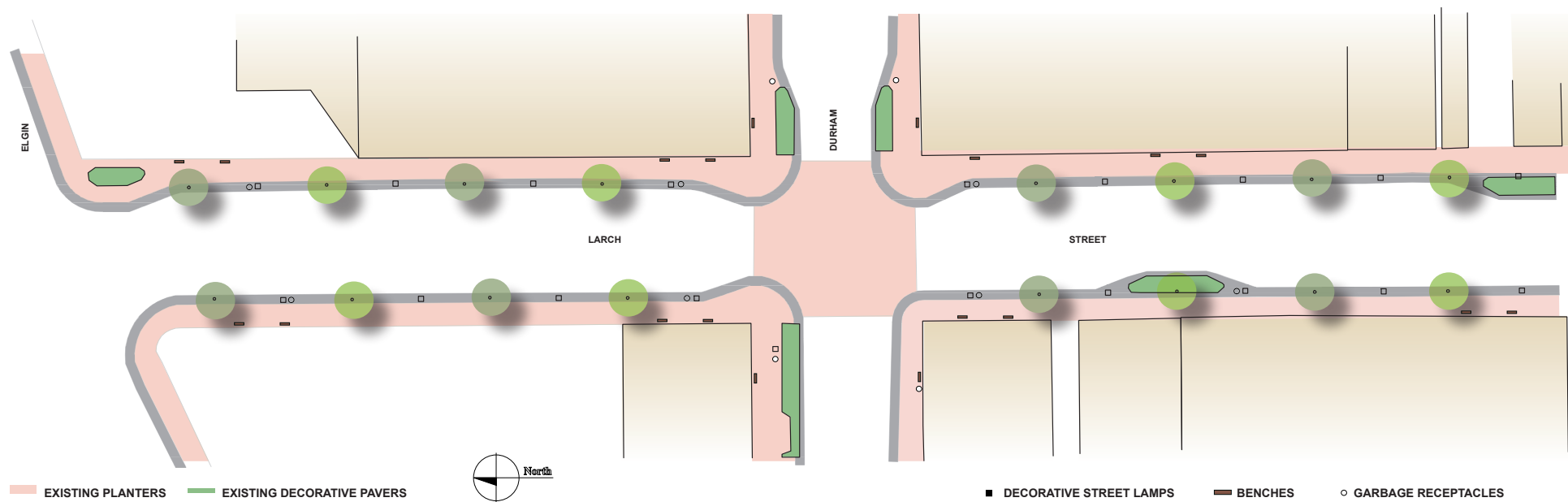


Plan View of Typical Cross Walk Treatment



Typical Section of Steetscape Enhancement

SAMPLE STREET | LIGHT TOUCH ENHANCEMENT | LARCH STREET



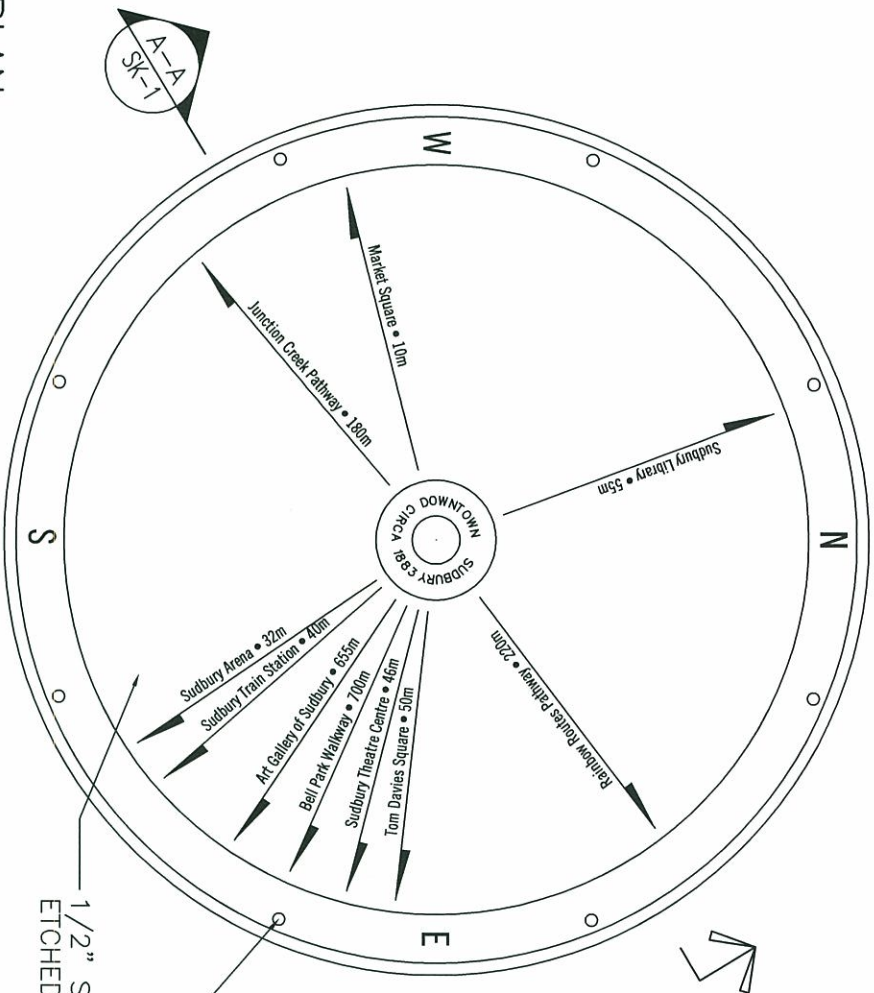
Plan - Example of Street Enhancements for Light Touch Sections such as Larch Street



## **B. TECHNICAL SKETCHES**



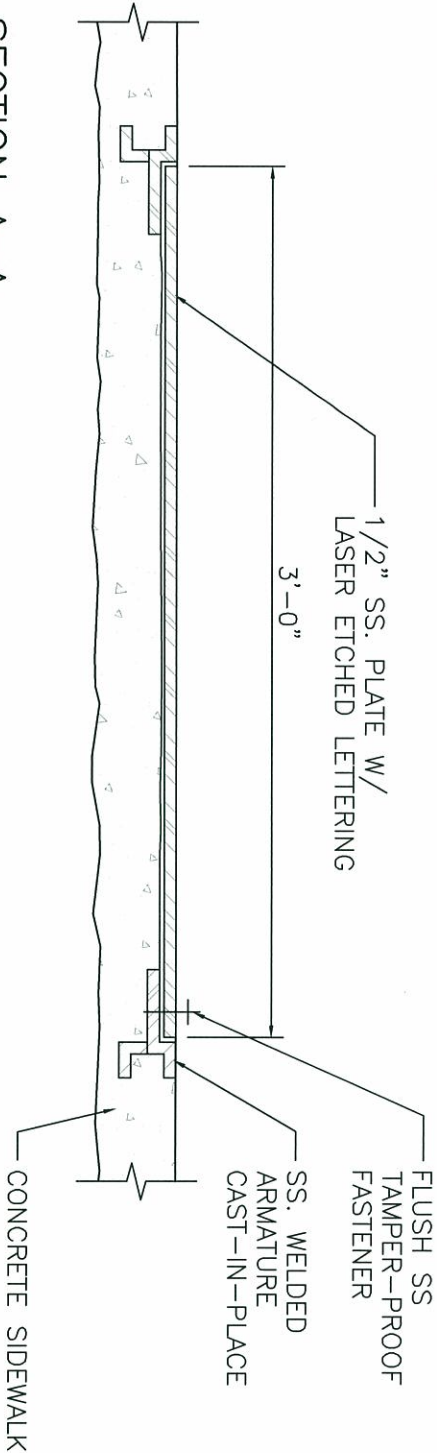
## **B. TECHNICAL SKETCHES (CON'T)**



- NOTE:
1. ALL LETTERING AND GRAPHICS SHALL BE LASER ETCHED.
  2. STAINLESS STEEL SURFACE SHALL BE ANTI-SLIP.
  3. TEXT & MEASUREMENTS SHALL BE CONFIRMED.
  4. ARMATURE SHALL BE DESIGNED BY A STRUCTURAL ENGINEER.
  5. FINAL LAYOUT OF SIGNAGE SHALL BE APPROVED BY DOWNTOWN SUDBURY AND DOWNTOWN VILLAGE CORPORATION PRIOR TO FABRICATION.

PLAN

SCALE: 1 1/2" = 1'-0"



SECTION A-A

SCALE: 1 1/2" = 1'-0"

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PROJECT:

SUDBURY, ONTARIO

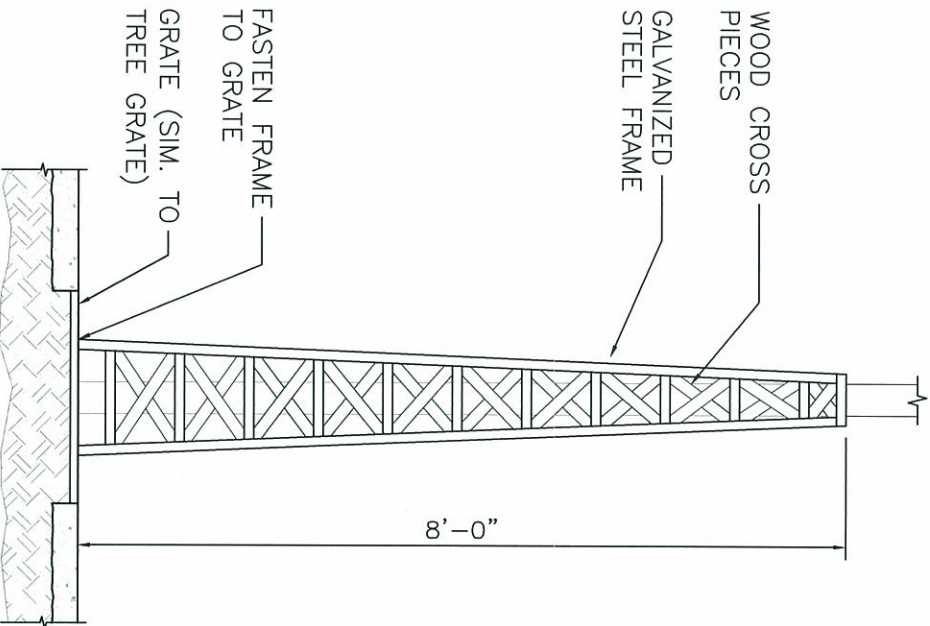
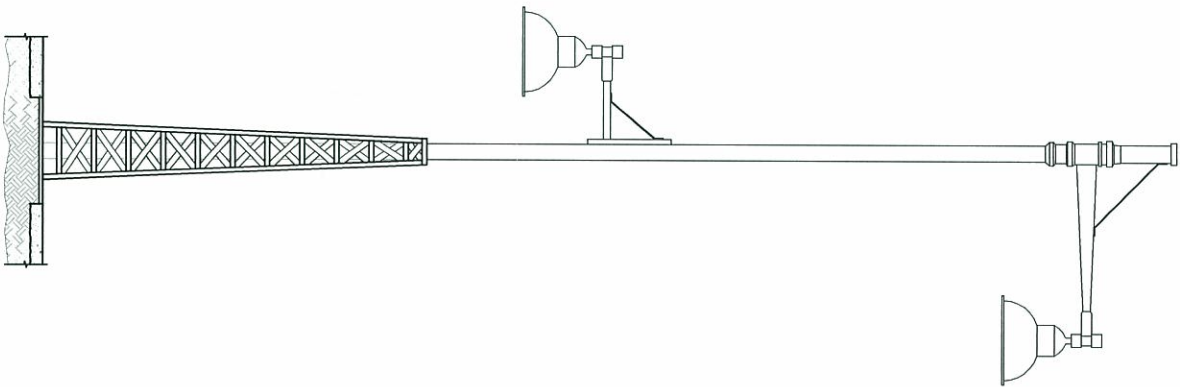
DRAWING:

WAY FINDING SIGNAGE

**J.L. Richards & Associates Limited**  
217-469 Bouchard Street  
Sudbury, ON Canada  
P3E 2K8  
Tel: 705 522 8174  
Fax: 705 522 1512

DESIGN:	JL	DRAWING NO.:	SK-1
DRAWN:	KJ		
CHECKED:	JL	JLR NO.:	20806-S
PLOTTED:	Jul 21, 2008		

NOTE:  
ARMATURE SHALL BE DESIGNED  
BY A STRUCTURAL ENGINEER.



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PROJECT:

Downtown SUDBURY  
STREETSCAPE PROJECT  
SUDBURY, ONTARIO

DRAWING:

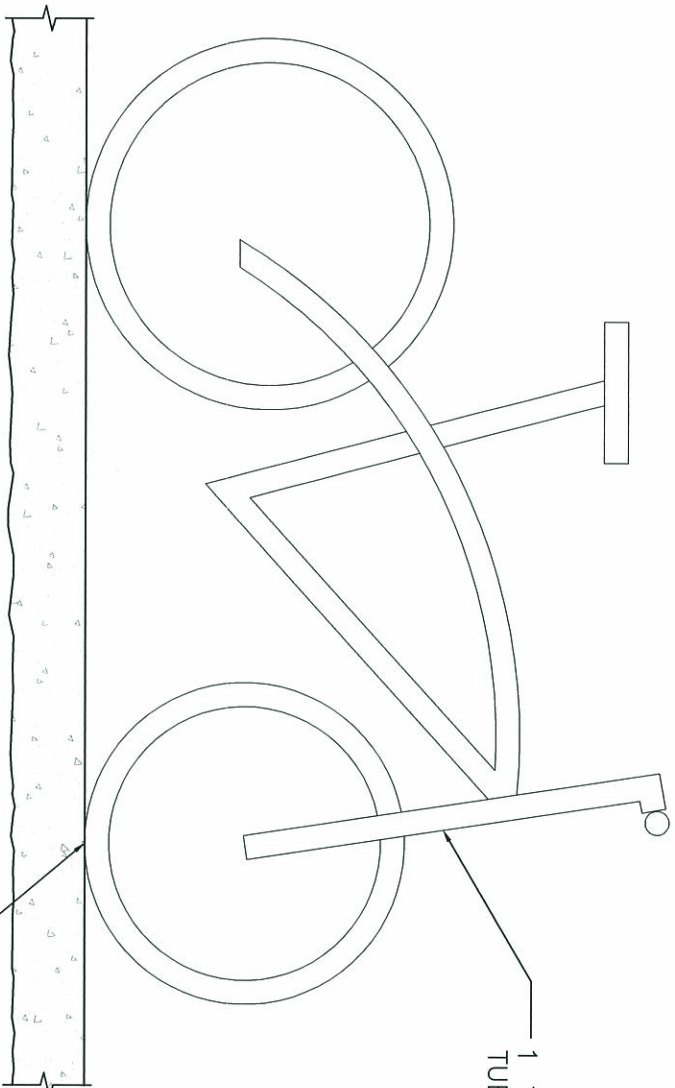
STREET LIGHTING

**J.L. Richards**  
**& Associates Limited**  
217-469 Bouchard Street  
Sudbury, ON Canada  
P3E 2K8  
Tel: 705 522 8174  
Fax: 705 522 1512

DESIGN:	JL	DRAWING NO.:	SK-2
DRAWN:	KJ		
CHECKED:	JL	JLR NO.:	20806-S
PLOTTED:	Jul 21, 2008		



NOTE:  
ARMATURE SHALL BE DESIGNED  
BY A STRUCTURAL ENGINEER.



ANCHORAGE SYSTEM TO BE  
DESIGNED BY STRUCTURAL  
ENGINEER

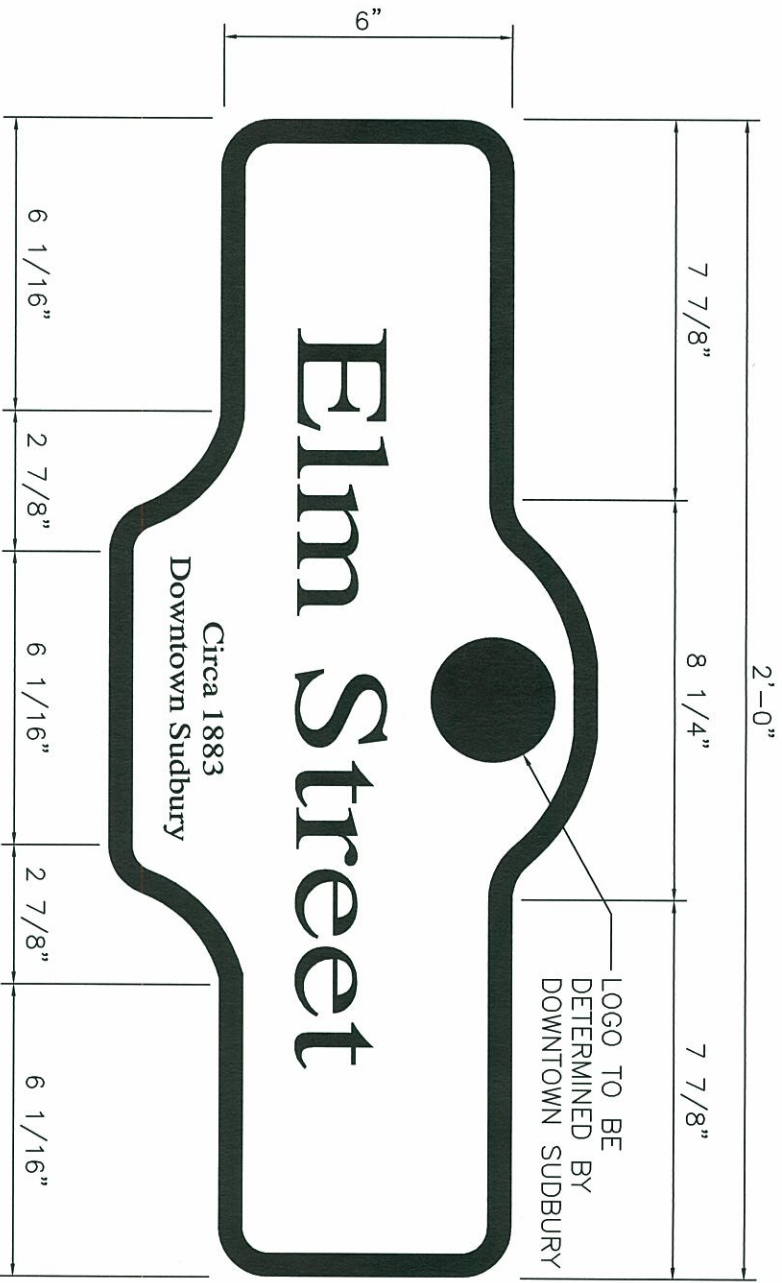
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reproduced or used for purposes other than  
execution of the described work without the express  
written consent of J.L. Richards & Associates Limited.

PROJECT:  
**Downtown SUDBURY  
STREETSCAPE PROJECT**  
SUDBURY, ONTARIO

DRAWING:  
**BICYCLE RACKS**

**J.L. Richards**  
**& Associates Limited**  
217-469 Bouchard Street  
Sudbury, ON Canada  
P3E 2K8  
Tel: 705 522 8174  
Fax: 705 522 1512

DESIGN: JL	DRAWING NO.: SK-3
DRAWN: KJ	
CHECKED: JL	JLR NO: 20806-S
PLOTTED: Jul 21, 2008	



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PROJECT:	Downtown SUDBURY STREETSCAPE PROJECT SUDBURY, ONTARIO		DRAWING:	DIRECTIONAL SIGNAGE	
----------	---	--	----------	---------------------	--

**J.L. Richards & Associates Limited**  
217-469 Bouchard Street  
Sudbury, ON Canada  
P3E 2K8  
Tel: 705 522 8174  
Fax: 705 522 1512

**J.L. Richards**  
ENGINEERS-ARCHITECTS-PLANNERS

DESIGN:	JL	DRAWING NO.:	SK-4
DRAWN:	KJ	JLR NO.:	20806-S
CHECKED:	JL		
PLOTTED:	Jul 21, 2008		



**C. PRODUCT INFORMATION**





10H00 > Boulevard

# Domus Series





## Domus Series

The Domus Series is one of the most versatile luminaires offered by Lumec. This classic shape was one of the first in a line of innovative Lumec designs. Encompassing most of the exclusive Lumec innovations, the Domus can fit into any environment; be it the main street of a small Alaskan village or the downtown of a high-tech center. Combined with today's efficient optics, Domus embodies the tradition of excellence in Lumec products.

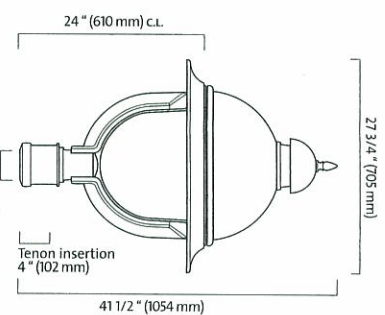
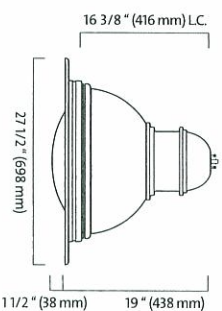
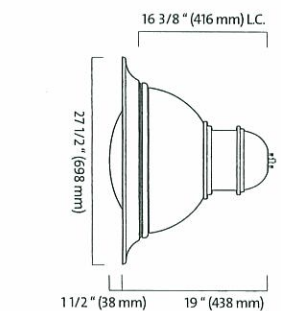
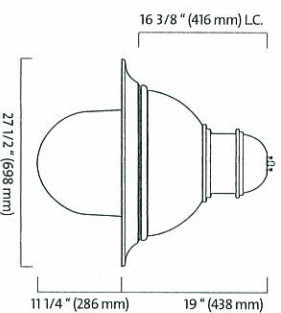
### Characteristics

- > Constructed from top-quality materials, the Optima Series maintains **excellent performance** in even the most demanding environment.
- > **Sealsafe**® optical systems (IP66) virtually eliminate Luminaire Dirt Depreciation (LDD)
- > **Tool-free access** to lamp and electrical components for ease of maintenance.
- > SHA and SSA optical chambers **reduce glare** by using a unique combination of reflectors and internal prism refractors.
- > SCB optical chamber offers **exceptional performance** and cutoff with a combination of a hydro-formed aluminum reflector and a tempered glass lens.
- > **Dark-sky friendly** SG optics provide full-cutoff in five distributions.



DMS60-SHA

## > Luminaires (luminaires are UL and CSA approved)



### DMS50-SHA/SSA

EPA: 1.35 sq. ft.  
Weight: 42 lbs (19.1 kg)

### DMS50-SCB

EPA: 1.00 sq. ft.  
Weight: 42 lbs (19.1 kg)

### DMS50-SCB-FB

EPA: 1.00 sq. ft.  
Weight: 42 lbs (19.1 kg)

### DMS60-SHA

EPA: 1.82 sq. ft.  
Weight: 40 lbs (18.1 kg)

## > HID Lamps (high intensity discharge)

WATTAGE	SHA3M-PC/SCB3M SSA3M-PC	SHA3M-ACDR SSA3M-ACDR	DMS60 SG	DMS50 SG
50 MH, medium	✓	✓	RB	✓
70 MH, medium	✓	✓	RB	✓
100 MH, medium	✓	✓	RB	✓
150 MH, medium	✓	✓	RB	✓
175 MH, mogul	✓	✓	RB	✓
200 MH, mogul	✓	N/A	RB	✓
250 MH, mogul	✓	N/A	RB	✓
400 MH, mogul	N/A	N/A	N/A	RB R <sup>1</sup>
35 HPS, medium	✓	✓	RB	✓
50 HPS, mogul	✓	✓	RB	✓
70 HPS, mogul	✓	✓	RB	✓
100 HPS, mogul	✓	✓	RB	✓
150 HPS, mogul	✓	✓	RB	✓
200 HPS, mogul	✓	N/A	RB <sup>1</sup>	✓ <sup>1</sup>
250 HPS, mogul	✓	N/A	RB <sup>1</sup>	✓ <sup>1</sup>
400 HPS, mogul	N/A	N/A	N/A	RB <sup>1</sup>

✓: Available  
1: n/a with SCFM  
N/D: Not available  
RB: Remote ballast required  
RJ: Reduced Jacket ED28 required

## > QL Lamps

WATTAGE	SCB5	SHA
55QL	✓	✓
85QL	✓	✓

High frequency generator for induction lamp (4000K). Instant start. Operating range 50-60 Hz or DC. Lamp minimum starting temperature -40F (-40 °C).

## > Optical systems lamps QL (lamps included)

 <b>SHA optics</b> Sealed optical chamber consisting of a reflector permanently assembled on top of an internal prismatic globe.	 <b>SCB5 optics</b> Sealed optical chamber consisting of a reflector permanently assembled on top of a tempered-glass sag lens.	 <b>SHA:</b> Asymmetrical > House shield available in option (H5)	 <b>SCB5:</b> Symmetrical > multi-top ballast also available
--	---	---	--

\* Photometry available on Lumec web site [www.lumec.com](http://www.lumec.com)

## > Optical systems (lamps not included)



**SHA and SSA optics**  
Sealed optical chamber consisting of a reflector permanently assembled on top of an internal prismatic globe.

In the above optics, the sleeve and shutter permit exact positioning of the lamp. SHA & SSA refractors available in: **ACDR:** Acrylique (175 W max), **PC:** Polycarbonate  
Add suffix to optical system code.



**SCB optics**  
Sealed optical chamber consisting of a reflector permanently assembled on top of a tempered-glass sag lens.

**SCB3M:** Asymmetrical  
 > House shield available in option (H5)

In the above optics, the sleeve and shutter permit exact positioning of the lamp.

> see next page for more optical systems

## > Maintenance



### Access to internal component

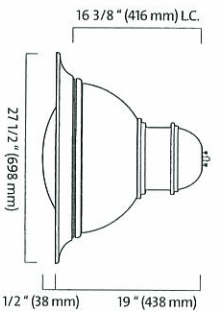
The luminaire's hood can be opened by simply applying pressure on the latch located on the technical ring. The hood can then be pivoted along a hinge incorporated in the technical ring. A built-in stopper holds the cover at 90° from the technical ring.



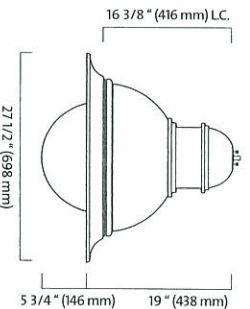
### Access to lamp

A simple quarter-turn of the **Sealsafe**® shutter provides easy access to the lamp. Quick-disconnect terminals between the lamp and the ballast tray ensure safe and easy lamp replacement.

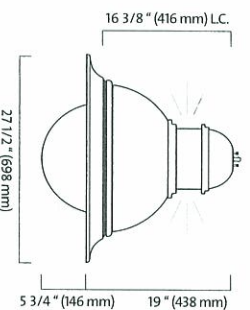




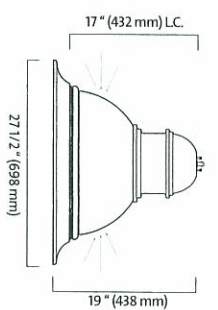
**DMS50-SC-SLG**  
EPA: 1.00 sq. ft.  
Weight: 42 lbs (19.1 kg)



**DMS50-SC-DL**  
EPA: 1.20 sq. ft.  
Weight: 42 lbs (19.1 kg)



**DMS50-SC-LR-DL**  
EPA: 1.20 sq. ft.  
Weight: 42 lbs (19.1 kg)



**DMS50-SC-LD**  
EPA: 1.20 sq. ft.  
Weight: 42 lbs (19.1 kg)



**SC Optics**  
Segmented cut-off reflector system set in faceted arc-image duplicating patterns

**SCQ:**

Symmetrical

**SG1:**

Symmetrical

**SG2:**

Asymmetrical

**SG3:**

Asymmetrical

**SGFM:**

Forward throw

> House shield available for SG2 and SG3

\* Photometry available on Lumec web site [www.lumec.com](http://www.lumec.com)

## > Options de luminaire

## > Adaptors

**FS** Fusing (consult factory)

**HS** House shield

**FB** Flat base spinning

**LD** Luminous dome,  
250 W maximum  
(SG optics only)

**LR** Luminous ring,  
250 W maximum  
(SG optics only)

**DL** Polycarbonate drop lens,  
250 W maximum  
(SG optics only)

**SLPC** Polycarbonate sag lens,  
175 W maximum  
(SG optics only)

**SLG** Tempered glass sag lens  
(SG optics only)



MA1

The luminaire is suspended by means of a mounting adaptor with a 1 1/4" (32mm) npt threaded hole accepting a threaded tube from the mounting.  
(retrofit adaptor for existing mounting)



SMB

The luminaire is suspended by means of a decorative side-mounting cast-aluminum adaptor. This adaptor accepts tubes from 1 5/8" to 2 3/8" (41 to 60 mm) and is adjustable to more or less 5°.

## > Mountings

(Consult the Pole Guide for details and the complete line of mountings)



IF



LM



MM



NM



MR



RM



1A



2



2A



3



3B



4

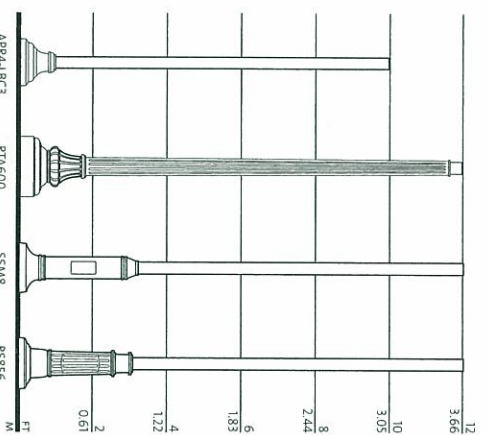


M

## > Configurations

## > Finishes

The specially formulated Lumital powder coat finish is available in a range of many standard colors.  
(Consult Lumec's Color Chart for complete specifications)



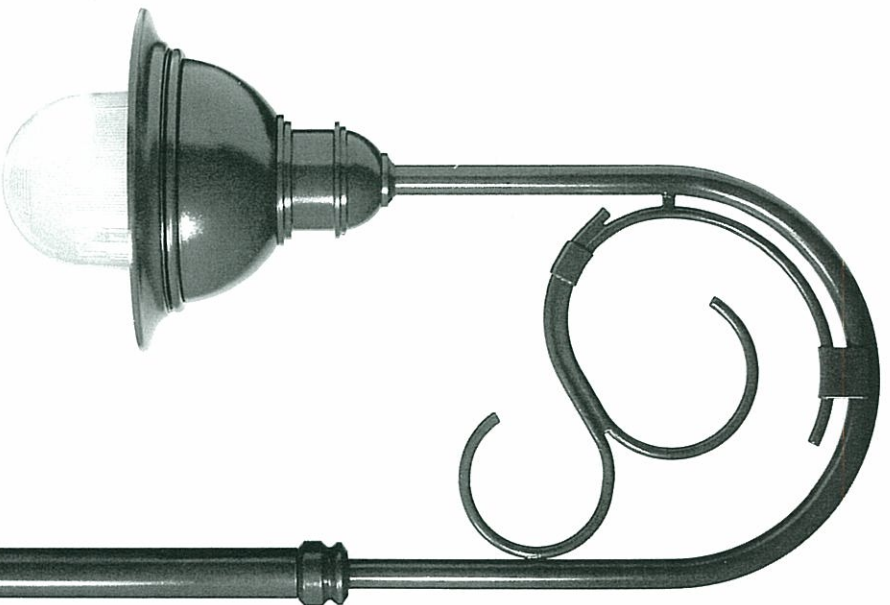
Luminaire	Lamp	Optical System	Voltage	Adaptor	Options	Mounting & configuration	Pole	Finish
DMS50	100 HPS	SHA3L-ACDR	120	SMB	FS-LR	MR-1A	R80-T5	GNTX

## > Ordering sample

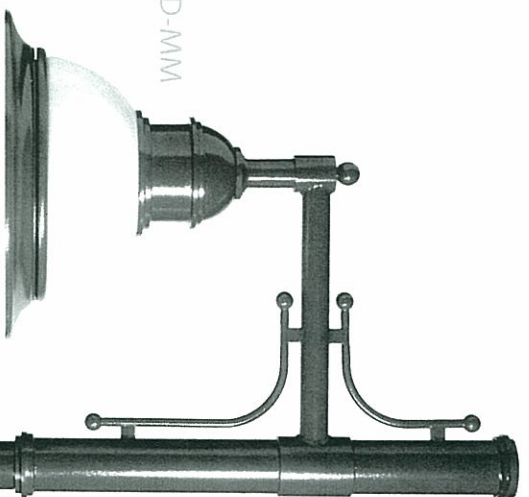
### Access to ballast

The tool-free drop-in unitized ballast tray is slipped into the post top box which rests on the optical support plate. Here again, the use of quick-disconnect terminals ensures safe and easy ballast maintenance

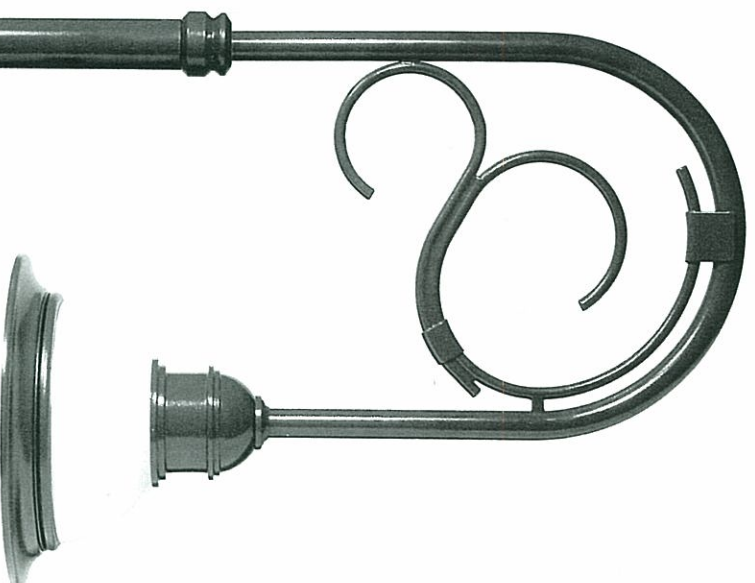




DMS50-SHA-NM

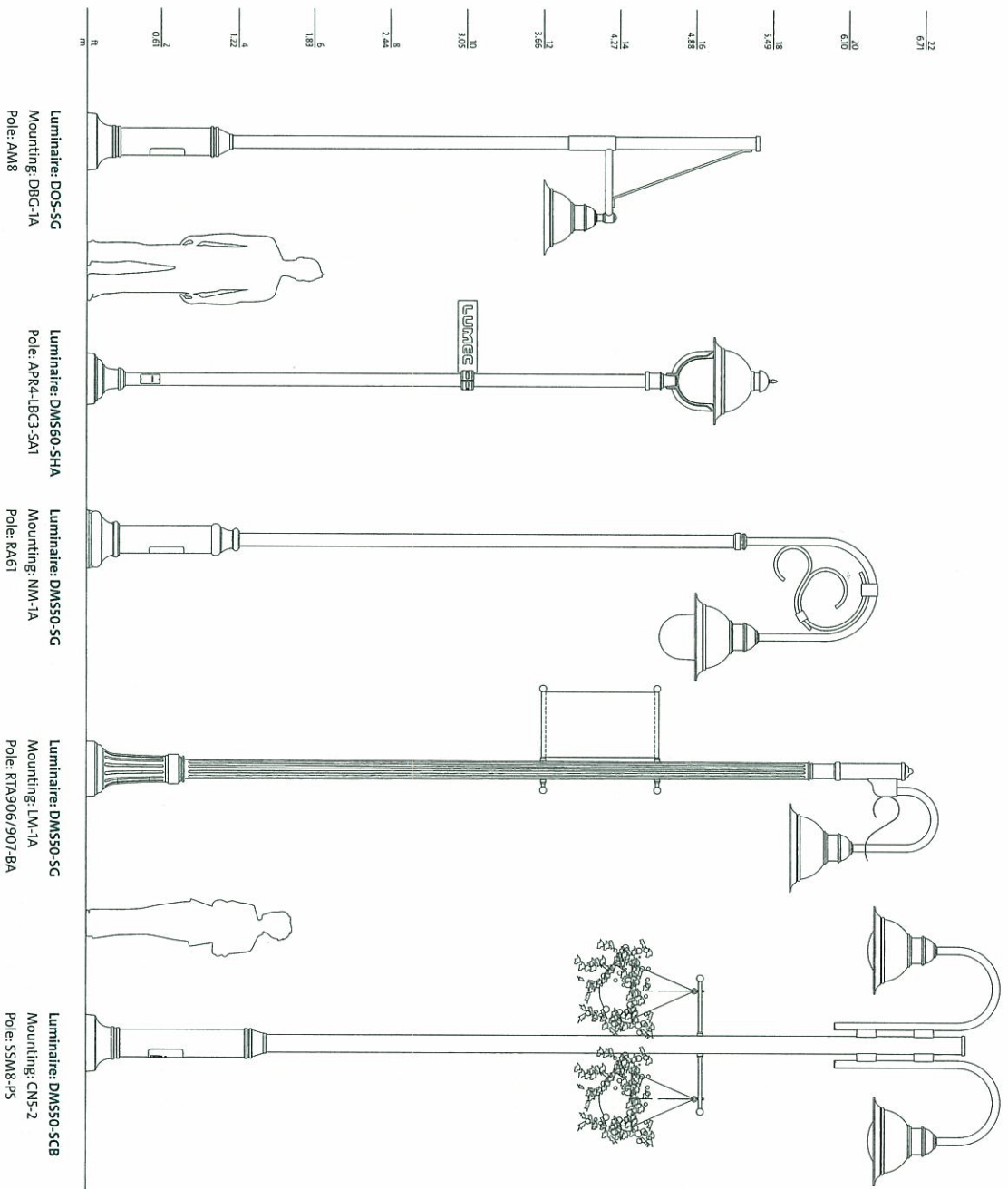


DMS50-SG-LD-MM



DMS50-SG-LD-NM





www.lumec.com

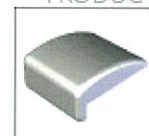
# Lumec Head Office

640, Cûr  -Boivin Boulevard  
Boisbriand, Qu  bec  
J7G 2A7 Canada

T  l. : (450) 430.7040  
Fax : (450) 430.1453

A Genlyte Company

**LUMEC**

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PDF File](#)[Download  
DWG File](#)**COMPLIMENTARY PRODUCTS****MLWR400WV-20****MLB 400W****MLP400M****Materials**

The MLB400BW bench frame is constructed of H.S. steel tube and flat bar. The seat employs Ipe wood slats.

**Dimensions**

Height: 17.00" (43.2cm)  
Length: 70.00" (177.8cm)  
Depth: 17.00" (43.2cm)  
Seat: 17.00" (43.2cm)

**Weight**

100lbs (45kg.)

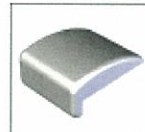
**Finishes**

All steel components are protected with **E-Coat rust proofing**. The Maglin **Powdercoat System** provides a durable finish on all metal surfaces. Wood slats are finished with penetrating sealers.

**Installations**

The MLB400BW park benches are delivered pre-assembled. Holes (0.5") are provided in each foot for securing to base.



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Option**DOWNLOAD PRODUCT FILES**Download  
PDF FileDownload  
DWG File**COMPLIMENTARY PRODUCTS****MLWR400WV-20****MLB 400BW****MLP400M****Materials**

The MLB400W bench frame is made from H. S. steel tube and flat bar. The seat and back employ wood slats, steel tube, or lasered steel panels.

**Dimensions**

Height: 32.00" (81.3cm)  
Length: 70.00" (177.8cm)  
Depth: 24.75" (62.9cm)  
Seat: 17.00" (43.2cm)

**Weight**

175lbs (80kg.)

**Finishes**

All steel components are protected with **E-Coat rust proofing**. The Maglin **Powdercoat System** provides a durable finish on all metal surfaces. Wood slats are finished with semi gloss or penetrating sealers.

**Installations**

The MLB400W park benches are delivered pre-assembled. Holes (0.5") are provided in each foot for securing to base.

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Powdercoating

Ipe Hardwood



MAGLIN™

BENCHES

TRASH CONTAINERS

BIKE RACKS

PLANTERS

BOLLARDS

ASH RECEPTACLES

RECYCLING UNITS

ACCESSORIES

CLUSTER SEATING

MLB970W



PRODUCT OPTIONS



Plaque  
Option

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Download  
Sketchup  
Model

COMPLIMENTARY PRODUCTS



MLWR970-32



MLB 970BW



MTB970



MRC972

#### Materials

The MLB970W bench ends are made from solid cast aluminum. The seat employs 2.625" x 1" and 5.5" x 1" (actual) Ipe slats.

#### Dimensions

Height: 33.00" (83.8cm)  
Length: 70.00" (177.8cm)  
Depth: 22.50" (57.2cm)

#### Weight

135lbs (61kg.)

#### Finishes

All steel components are protected with **E-Coat rust proofing**. The Maglin **Powdercoat System** provides a durable finish on all metal surfaces. Wood slats are finished with penetrating sealers.

#### Installations

The MLB970W park bench is delivered pre-assembled. Holes (0.5") are provided in each foot for securing to base.



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Get a **price** fast with our  
Quick Quote System!

[CLICK HERE](#) FOR DETAILS**Park Benches**

Stop, rest, wait, relax, reorganize, converse, or people watch - just a sample of the many uses for a Maglin bench. The blend of diverse materials and designs creates a collection with vast applications. All our steel components are E-coated and powder coated providing superior resistance to corrosion.

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PDF File**COMPLIMENTARY PRODUCTS****MLWR250-32****MLP200****Materials**

The MRC253 recycling station frame is constructed using heavy duty steel flat bar. Three 20 imperial gallon commercial grade plastic liners and funnel lids are provided.

**Dimensions**

Height: 38.00" (96.5cm)  
Width: 60.00" (152.47cm)  
Depth: 21.00" (53.5cm)

**Weight**

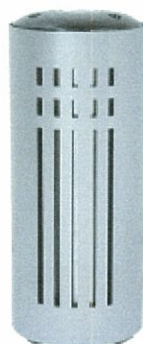
320lbs (145kg.)

**Finishes**

All Steel components are protected with **E-Coat Rust Proofing**. The Maglin **Powdercoat System** provides a durable finish on all metal surfaces.

**Installations**

The MRC253 recycling station is delivered pre-assembled. Holes (0.5") are provided in each mounting foot for securing to base.

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Option**OPTIONS**Tray  
Option**DOWNLOAD PRODUCT FILES**Download  
PDF File**COMPLIMENTARY PRODUCTS****MLB 700W****MLB 700AW****MLWR700M-32****MLP700****Materials**

The MLAU700 ash receptacle is constructed using a laser cut sheet metal frame. A durable, fire resistant liner and cast aluminum dome top or tray option is provided.

**Dimensions**

Height: 28.38" (72.1cm)  
Diameter: 11.95" (30.4cm)

**Weight**

40lbs (18kg.)

**Finishes**

All Steel components are protected with **E-Coat Rust Proofing**. The Maglin **Powdercoat System** provides a durable finish on all metal surfaces.

**Installations**

The MLAU700 ash receptacle is delivered pre-assembled. Holes (0.5") are provided in each foot for securing to base.





#### **D. RECOMMENDATION FOR A DARK SKIES BY-LAW**

The general purpose and goal of a “Dark Skies By-law” is to protect and promote public health, safety and welfare, quality of life, and the ability to view the night sky, by establishing regulations and a process of review for exterior lighting.

Section 129 of the Municipal Act allows for municipalities to pass by-laws to regulate outdoor illumination, among other issues such as noise, dust and odours. The Municipal Act sets up a permit system for regulating outdoor lighting fixtures. The main tools available to municipalities in Ontario for regulating outdoor lighting include site plan control under the Planning Act and lighting by-laws under the Municipal Act.

Outdoor illumination by-laws address many of the same issues as a site plan control except that the by-law approach allows municipalities to regulate new lighting fixtures for existing development through a permit process.

#### ***Benefits***

By establishing regulations for lighting, Cities are able to:

- Protect against direct glare and excessive lighting (light pollution)
- Prevent light trespass in all areas; promote efficient and cost effective lighting
- Ensure that sufficient lighting can be provided where needed to promote safety, visibility and security for the properties, businesses and rights of way within the City.
- Protect and reclaim the ability to view the night sky, and thereby help preserve the quality of life within the City.

#### ***By-law Structure***

A “Dark Skies By-law” may have:

- Definitions for types of lighting and lighting issues:
  - Fully Shielded, Glare, Full cut-off fixtures, Light Trespass, Light Pollution, Footcandle, Direct light, Fixture





- Specifics guidelines for components/areas of the downtown:
  - Outdoor vs. Street area lighting, height, type of light, hours to be turned off, shielding
- Exemptions:
  - Sensor activated lighting, Vehicular lights, Outdoor lights with incandescent lamps to or less than 100 watts, Decorative outdoor lighting with bulbs less than 25 watts (such as holiday), Outdoor lighting using only fossil fuels (torches or lanterns)
- Prohibitions:
  - Laser source light, searchlights
- Requests for exemption for temporary events
- Grandfathering provisions

### ***Municipal Examples***

There are two municipalities in Ontario that have recently passed “Dark Skies By-laws” under the new Municipal Act: the Township of Mississippi Mills, which is located in eastern Ontario; and the Township of Central Manitoulin.

Central Manitoulin’s by-law is a relatively general with reference to technical provisions.

In contrast, Mississippi Mills’ by-law is more specific in nature and provides more guidance/restrictions related to technical requirements.

Richmond Hill had passed a Light Pollution By-law prior to changes to the Municipal Act, and is similar in nature to Mississippi Mills.

1. Central Manitoulin “Dark Skies By-law” available at:  
<http://www.centralmanitoulin.ca/downloads/2003-16%20Outdoor%20Lighting%20Control%20Act.pdf>

2. Mississippi Mills’ “Dark Skies By-law” is available at:  
<http://www.srac.ca/im/lpa/miss03-62.doc>

3. Richmond Hill Light Pollution By-law is available at:  
<http://code.municipalworld.com/richmondhill/1050.pdf>



#### **E. RECOMMENDATIONS FOR AN AMENDMENT TO SIGN BY-LAW 2007-250**

It is recommended that special sign provisions for the Downtown be added through an amendment to the current Sign By-law.

##### ***Awnings, Canopy & Marquee Signs:***

- Graphic or lettering limited to maximum 20% of surface.
- Must be > 2.5 m above ground.

##### ***Poster Signs:***

- Adhesive tape may be used to attach the poster.
- The poster should be made of biodegradable material (eg. paper).
- No posters shall be erected :
  - On any tree;
  - On any post or pole on any median, traffic island or central boulevard;
  - On any traffic signal or traffic control device; or
  - On any post or pole not identified or designated by the city.

##### ***Sidewalk Signs (Sandwich Boards):***

- May not be permanently secured to anything.
- May be placed on public sidewalk, adjacent to curb or front wall of business being advertized but not in the Pedestrian Zone.

##### ***Restrict:***

- Signs that are out of scale with the buildings, and with neighbouring building and signs.
- Signs of inappropriate materials, such as plastic or vinyl.
- Insertion or attachment of signs in such a way as to inflict damage to the building.
- Internally lit signs.
- Billboard signage using a large portion of the façade as a sign.
- Oversized franchise signage.
- Using more than two signs on a façade.
- Obscuring important architectural detail with the signs.
- Obscuring the sign of an adjacent business owner.
- Paper signage on the inside of the windows.
- Creating visual clutter by providing too much information.



- Flashing, animated or electronic display message signs.
- Projecting signs
- Roof signs
- Signs within a Sight Triangle (as per Zoning By-law # 95-500Z, Section 13)
- Signs in any required parking space.
- Wall & parapet signs
- Billboards
- Inflatable signs
- Ground signs

**F. PROCESS AND PUBLIC PARTICIPATION**

Key tasks of Phase II included:

- Review and research of relevant background studies and literature, including the results of Phase I
- Preparation of a preliminary Final Site Amenity Design to be used for consultation purposes
- Consultation with key stakeholders and the general public
- Preparation of a Final Site Amenity Design and Specifications Report

- Estimated opinion of probable costs
- Provision of all maps and drawings in digital format

A series of meetings were held to gain information, including specific technical information related to addressing implementation issues. These included:

March 13, 2008	Project Initiation with Steering Committee
March 27, 2008	Information Gathering with Steering Committee and Technical Committee
April 24, 2008	Review of Preliminary Final Design with Steering Committee
May 1, 2008	Review of Preliminary Final Design with Steering Committee and the Technical Committee



May 5, 2008	Review of Preliminary Final Design Meeting with Downtown Sudbury, and the Greater Sudbury Development Corporation
May 7, 2008	Review of Preliminary Final Design through Public Open House
July, 2008	Review Consultation Results with Steering Committee

Comments from these meetings were recorded and used to develop the Final Design, and have led to the development of recommendations for implementation.