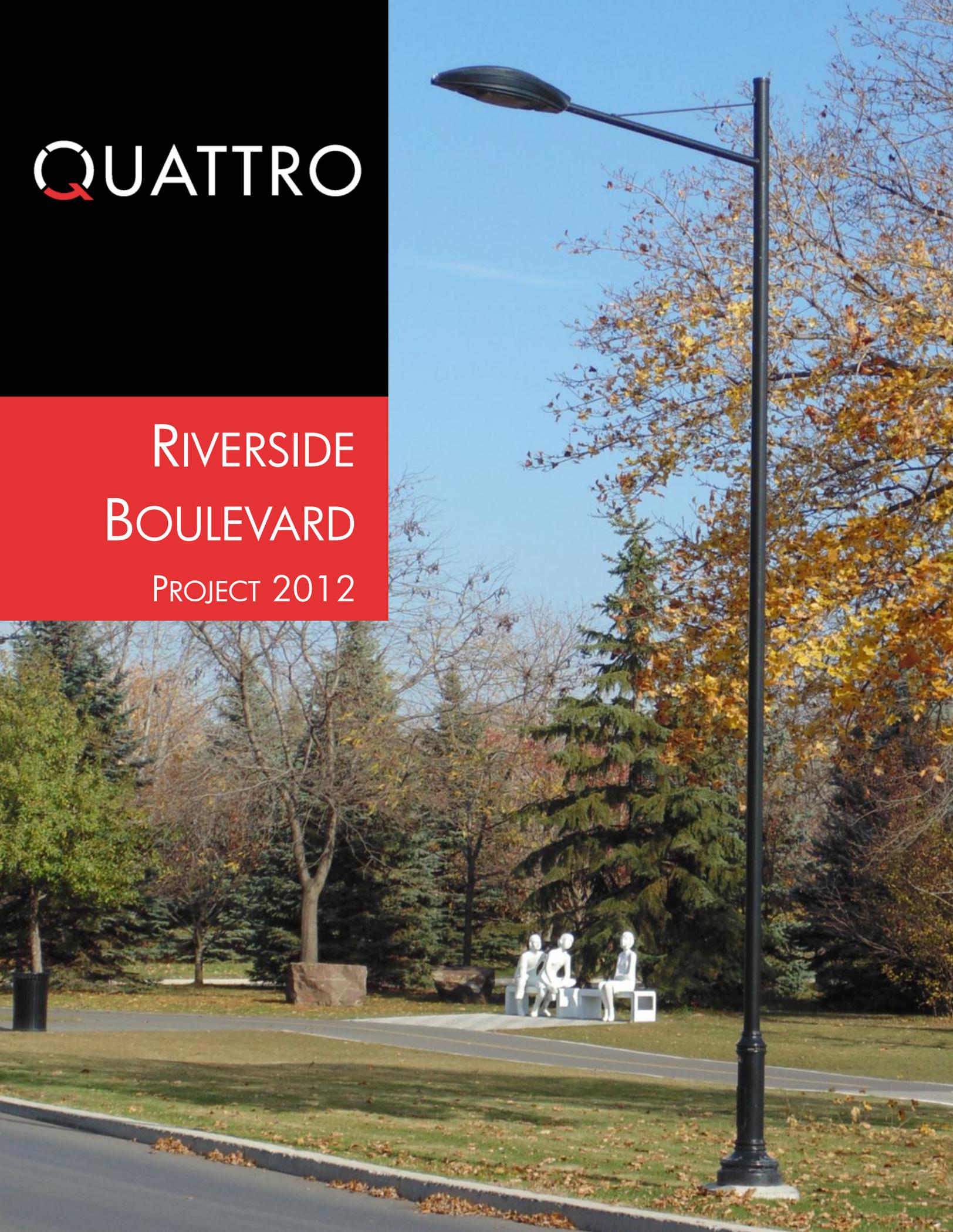


QUATTRO

RIVERSIDE  
BOULEVARD  
PROJECT 2012



# THE REMARKABLE TRANSFORMATION OF RIVERSIDE AVENUE: A VOCATION CHANGE

## CONTEXT

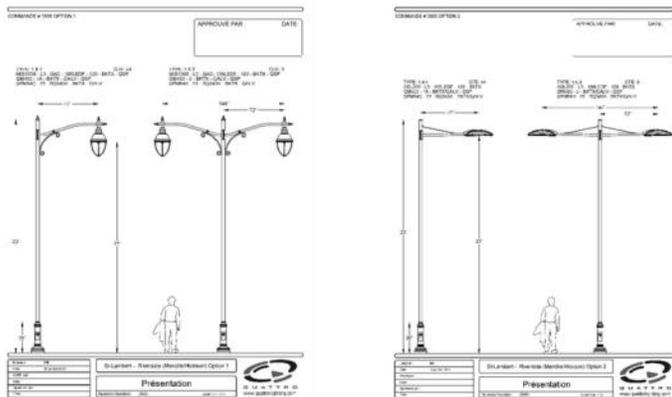
Date: June 2012

City: Saint-Lambert, Quebec

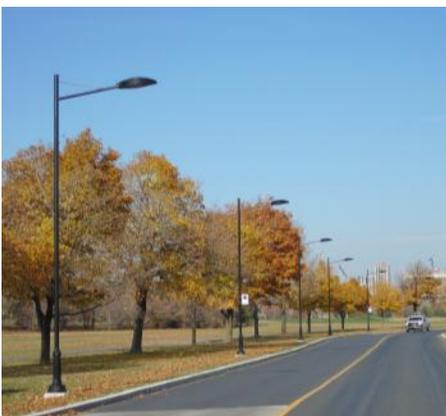
In 2012, the city of Saint Lambert began renovating Riverside Street, one of its lifeline, as many underground infrastructures dated back to 1913.

## MANDATE

Planned in 3 phases between 2012 and 2017, the goal was not only, to reduce through traffic arriving from highway 132 to Riverside, but also, to embellish the surroundings. Total estimated cost for the project was \$43.2 million.



For a total of 9km, this project also includes 3km of surrounding avenues (Saint-Denis, Edison, Hickson, Du Rhône and D'Anjou) and allows for the redevelopment of Riverside Street. Narrowing the roadway to just 1 lane on each side (from 12 to just over 8 meters), will reduce the speed of the vehicles. "We want to give the street back to its residents" says Georges Pichet, Director of the Land Use in Saint-Lambert. The reconstruction enables the City to conform its bicycle path, from 2.6m to 3m. As for the sidewalk, it will be larger (from 1.2 to 2m) and include a green planting strip. This will give pedestrians a greater sense of security. Bus shelters and landscaped areas will also be added.



## CHALLENGE

The lighting project of Riverside Street is particularly complex as it aims to upgrade the lighting system, as well as modifying the street's vocation, by improving the environment of nearby residents while ensuring the safety of motorists, pedestrians and cyclists.

In addition to changing the nature of Riverside Drive, the City and the engineering specialist SNC Lavalin, wants to adopt a new approach in the process of awarding the lighting contract. Lighting specifications usually included until now a single specified product without real approved equivalence, thus limiting any competition.



The recent adoption by the National Assembly of PL76 wants to change mentalities in awarding contracts and ethics. The main concern of this Act is to ensure cities get the best possible prices and to create competition. One of the requirements for municipalities is the implementation of a contract management policy by January 1st 2011.

Hence, in respect to its contract management policy, the City of Saint-Lambert adopts a performance tender allowing fair competition among technologies and lighting products and ensuring best quality and price possible. This approach, in addition to seeing to the proper management of public funds, promotes compliance with applicable laws to fight against bid rigging, prevent intimidation, influence peddling, corruption and conflict of interest. Thus, the city opting for an open specification, ensure to avoid any situation that could compromise the impartiality and objectivity of the solicitation and that of the management of the resulting contract.

## SOLUTION

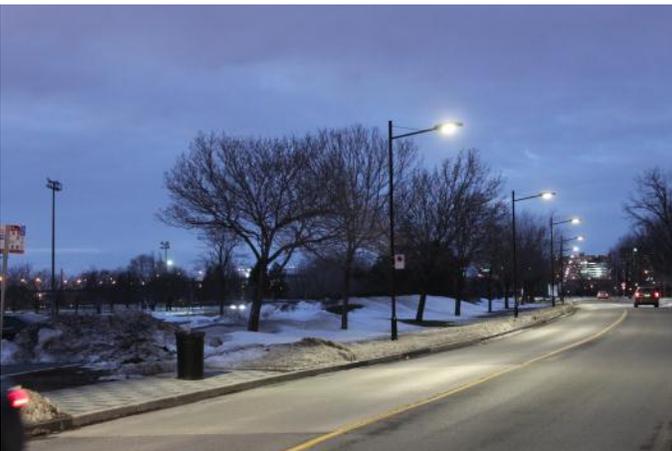
The challenge of the technical proposal laid in the difficulty to meet the requirements of lighting and uniformity levels, while respecting the aesthetic and architectural character of the product and ensuring a maximum spacing streetlights. Maximize the spacing ensured the competitiveness of the financial offer. Other technical elements such as the pole, the dimensions, the normative requirements or source are all available or intrinsic characteristics to the standard offer of Quattro.

Several iterations were performed on a photometric level to meet the minimum requirements of the specification and MIS100S and ADL200 models were preliminarily selected. Two choices of lighting fixtures have been proposed with 3 spacing scenarios: 24 m as required in the specification, 27.5 m with horizontal luminaires and 30.0m with 10 degrees inclined luminaires.

	Luminaire	Quantity of Luminaires Phase I	Photometric level compliance
Quotation 24.0m	MIS100S	48 single - 3 double	Yes
Solution 27.5m	ADL200 (0 deg)	44 single - 3 double	Yes
Solution 30.0m	ADL200 (10 deg)	40 single - 3 double	Yes

The photometric analysis allowed us to validate our lighting concepts and ensure we met the basic standards set by the IES as well as the quotation requirements. The results of photometric studies were analyzed and a final solution was presented to the city council. It turned out that all the options considered met the required photometric level. Nevertheless, the scenario of the ADL200 luminaires tilted at 10 degrees offered a significant performance advantage and profitable commercial aspect.

The optimal solution proposed by Quattro thus allow to reduce the number of lamp posts by 15% making this much more economical and with an increased level of security.



## INNOVATING LIGHTING CHOICE

The Riverside Street lighting project is particularly complex since it aims to upgrade the lighting system in a project where we try to change the vocation of the urban artery, by improving the living environment of nearby residents while ensuring the safety of motorists, pedestrians and cyclists traveling therein.



Quattro's passion is to create distinctive environments that improve the quality of life. By exploiting the multiple facets of the lighting project, we promote the welfare and safety of users, without condition. For this, we strive to offer innovative lighting furniture with exclusive design. Vectors of identity and urban valuation but also feelings generators, they combine efficiency and simplicity to optimize visual comfort by respecting the specificities of any given space: roads, pedestrian areas, meeting areas or relaxation, architecture, landscapes... The functional decorative lamp post is a coherent planning and innovative solution which aims to beautify the living space, day and night, while preserving our environment.

The ADELO series innovates on all fronts in the way of providing modern urban lighting. To create a trendy, distinctive style, everything has been redesigned in this fixture: graceful curves, elegant shapes, clean lines, minimalist design; to give any urban street the most sought after modern look. The maintenance of these lights is easy and tool free. In addition, they are IP66 certified, "Dark Sky" friendly and are energy efficient, since powered by LEDs.

Quattro SPM64 pole is a decorative bottleneck type steel pole and decorated with a base and joint cover BQ340A like Tuscan columns of ancient Greek architecture. Timeless product that can accept lights from modern to contemporary style. The QM503 arm is available in single and double, steel or aluminum and embellished with a thread-like decorative element. Finesse, lightness and simplicity make this set a unique product that will cross the years without a wrinkle.

## QUATTRO REALISES REMARKABLE PROJECTS

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Quattro is a Quebec based company located in Longueuil. It specialises in manufacturing decorative and functional light structures for municipal lighting. Whether you are an architect, an urbanist, an engineer or a building contractor, Quattro will know how to help you throughout your project. You will benefit from the aesthetics, the assembling simplicity and the performance of our high quality energy efficient lighting solutions, as well as from the courteous service and the efficient partnership of a professional team.

*For Quattro, developing and managing lighting projects implies and involves knowledge of the environment and of the people, technology, materials, manufacturing and architecture. All in order to ensure a safe, comfortable and attractive urban atmosphere. We will turn your idea into a remarkable project.*

QUATTRO

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