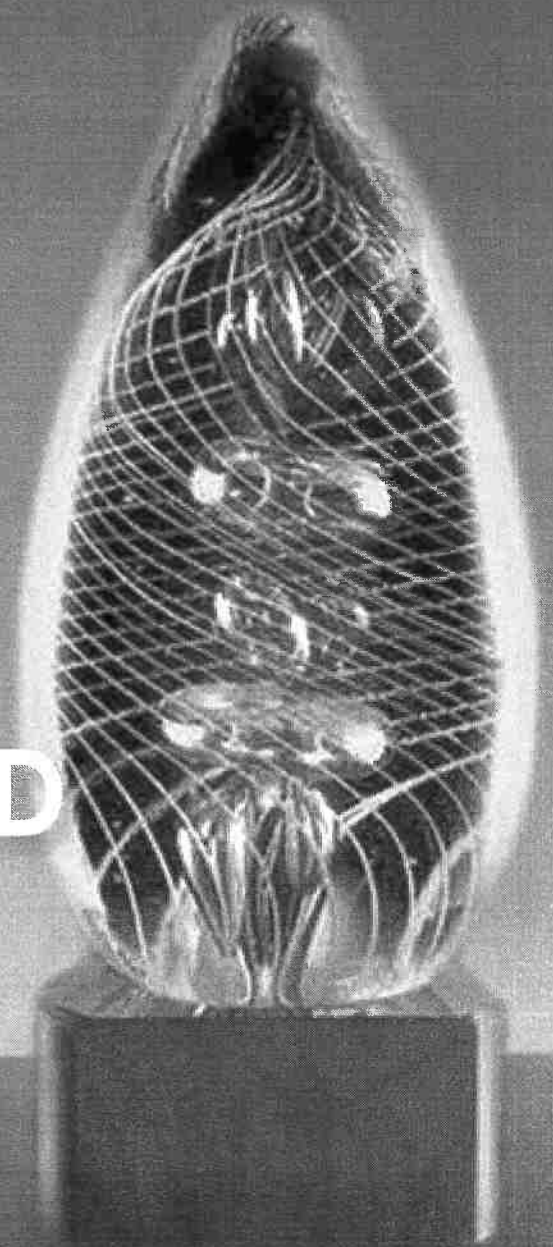


the **1** annual

Municipal Concrete **AWARD**



CONCRETE **AWARD**
Municipal
2010



Cement
Association
of Canada

Association
Canadienne
du Ciment



CONCRETE
ONTARIO

Purpose

The purpose of the award is to promote and recognize the successful collaboration between municipalities and concrete producers for excellence and innovation in municipal concrete projects in Ontario.

Frequency

This will be an annual award. The finalists will be announced at the 2019 Ontario Concrete Awards to be held on November 27, 2019 in the GTA. The Municipal Concrete Project of the Year Award will be announced at the OGRA Conference on February 25, 2020.

Instructions

Please complete all areas of the form. If your municipal concrete (paving, bridge and culvert, flatwork, sidewalk and curb) project qualifies, send the forms to the address below. If judged as the winner you will receive 2 handsome trophies: one for the Region/Municipality, one for the Contractor. The finalists will receive plaques as well.

1. Deadline and entry information

Completed forms and supporting documentation must be postmarked no later than November 01, 2019.

Ontario Good Roads Association
1525 Cornwall Road, Unit #22
Oakville, ON | L6J 0B2

Submissions received after this date will not be accepted.

2. Eligibility

The application should be a collaborative effort between the Region/Municipality and Contractor and signed off accordingly. The municipal concrete project should have been completed between January 1, 2018 and October 31, 2019. There is no minimum contract value and both capital and maintenance projects are eligible.

3. Judging Criteria

- Conformance to specifications based on testing
- Visual appearance
- Workmanship
- Innovation
- Other considerations (work window, night paving, traffic, interaction with public, etc.)

4. Cost

There is no cost for the application. It is an excellent opportunity to showcase your project to the rest of Ontario.

5. Judging Panel

The submission will be reviewed and finalists decided by a minimum of 5 panelists who are members of the CAC/CO/OGRA Municipal Concrete Committee.

PROJECT SUBMISSION:

Municipality: **City Of Vaughan**

Contact Person: **Paul Marcoccia, Project Manager, Infrastructure Delivery**

Contact Phone Number: **905.832.8585 x 8173** Email Address: **paul.marcoccia@vaughan.ca**

Contractor: **Emmacon Corp**

Contact Person: **Danny Quattrociocchi**

Contact Phone Number: **416.677.1526** Email Address: **danny@emmacon.ca**

PROJECT SCOPE / SUMMARY:

Remove, excavate and dispose of the existing asphalt parking lot located at the Fire Station 7-3 and EMS 31 shared facility. Replace the complete parking lot with 250mm thick concrete slab on grade, approx. 2500 m2. The project required us to excavate approx. 1m in depth and install all new granular base, both heavy duty and light duty. All emergency response units remained operational with minimal disruption, as the project was carried out in phases. All areas were protected by safety fence and all appropriate traffic control. Project duration was 1 month start to finish. Please see below for a detailed list of work scope in sequence:

- Mobilization, supply and install safety fence, signage and safety hoarding for phase 1
- excavate, remove and dispose of existing asphalt parking lot and granular base
- install new 3/4 crusher run limestone and compact to 100% proctor density
- remove and replace localized concrete curb in parking lot perimeter
- adjust and pour cast in place catch basin frames
- place and broom finish 250mm thick concrete slab on grade, approx. 800m2
- sawcut as per detailed drawings
- wash and clean the newly installed slab on grade
- new line painting for light duty parking stalls
- 7 day curing wait time. Concrete achieved over 30 mpa within 7 days
- all of the above taken place while both the Fire Station and EMS station fully operational

- supply and install safety fence, signage and safety hoarding for phase 2. Open phase 1 for day to day operations
- excavate, remove and dispose of existing asphalt parking lot and granular base
- lower and install new electrical ducts for existing street lights
- install new 3/4 crusher run limestone and compact to 100% proctor density
- install new subdrain to ensure proper drainage
- remove and replace localized concrete curb in parking lot perimeter
- adjust and pour cast in place catch basin frames
- place and broom finish 250mm thick concrete slab on grade, approx. 1700m2
- sawcut as per detailed drawings
- wash and clean the newly installed slab on grade
- new line painting for light duty parking stalls
- 7 day curing wait time. Concrete achieved over 30 mpa within 7 days
- open phase 2 of parking lot
- remove all safety fence, safety hoarding and signage
- demobilization and completion of project
- all of the above taken place while both the Fire Station and EMS station fully operational

Notes:

- approx. 200 triaxle loads excavated, removed and disposed
- approx. 2200 tonne of new granular installed and compacted
- approx. 700 cubic metres of concrete placed and finished, anti slip
- approx. 30 employees took part in the completion of this project
- no work related accident or incident occurrences
- no disruption to the facility emergency response call outs
- very minimal disruption to the public
- total project value - \$448,280.87

PROJECT DETAILS:

Locations: 7690 Martingrove Rd - Vaughan Ont.

Duration of Project: 1 month

Concrete Volume(s) and Mix Type(s):

approx. 700 cubic metres

35 mpa with 5-7% air
maximum w/cm ratio of 0.40
minimum 30mpa within 7 days
20mm aggregate
plastic air content 25%
slump 125mm +/- 30
minimum 5.0 mpa flexural strength
Super P additive - plastol 341

Why does this project fulfill/meets the purpose of this Award?

This project is the first City of Vaughan owned facility of which they have replaced the entire asphalt parking lot with cast in place concrete. The City has encountered multiple issues and failed attempts with asphalt paving on this particular parking lot, due to the heavy vehicles being used by Fire Rescue and EMS, causing severe shear damage due to the tight turning radius. Concrete was the only ideal alternative for this joint-use facility.

Supporting Documentation - *Mandatory*

1. **Photographs** - Photos are to accompany this application on a USB drive in .jpg format in high resolution. One must be a "long shot" showing a main feature of the project and its surroundings.
2. **Test Results** - A summary of the concrete test results showing compliance to project specifications.

Supporting Documentation - *Optional*

1. **Video** - A maximum 3-minute video on standard USB drive showing all phases/details of the paving project.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION PROVIDED IS ACCURATE AND TRUE.

Municipality:

Print Name: Paul Marcoccia

Signature:



Contractor:

Print Name: Danny Quattrociocchi

Signature:



Additional Comments:

Contractor comments:

We as contractors are very proud to say that we have completed the project successfully and have taken part in assisting our emergency responders such as fire fighters and paramedics, further more the Heroes that save our lives day in and day out.

Respectfully yours,

Danny Quattrociocchi
Director of Operations
Emmacon Corporation

City of Vaughan comments:

This short duration project was completed while keeping a joint-use emergency services building completely operational throughout the construction phases. There was extensive testing of the sub-base preparation prior to commencement of the concrete pours. The concrete was tested at 3, 7 and 28-day intervals and the test results had exceeded expectations in all cases. The joint effort of a very cooperative, attentive, and capable contractor and City of Vaughan staff made for a very successful end result.

- Paul Marcoccia / Project Manager / City of Vaughan