

**AGENDA**  
of the  
**FAMILY AQUATIC COMPLEX STEERING COMMITTEE**  
Thursday, February 7, 2013  
12:00 p.m.  
Town of Walkerville Meeting Room  
3<sup>rd</sup> floor, City Hall

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1. **CALL TO ORDER**

2. **ADOPTION OF THE MINUTES**

Adoption of the minutes of the meeting held on December 20, 2012 – *(previously distributed)*.

3. **DECLARATIONS OF CONFLICT**

4. **BUSINESS ITEMS**

4.1 **Financial Summary Update**

The report of the Project Accountant entitled “Financial Summary Update” – *to be e-mailed*.

4.2 **Project Manager’s Update**

The report of the Project Manager dated February 1, 2013 entitled “Project Schedule Family Aquatic Complex” – *attached*.

4.3 **Approval of Atrium Finishes**

The report of the Project Manager dated February 1, 2013 entitled “Atrium Finishes” – *attached*.

4.4 **Approval of Security Cameras & Location Contractors**

The report of the Project Manager dated February 1, 2013 entitled “Security Cameras and Location Contractors for the Family Aquatic Complex” – *attached*.

4.5 **Approval of Sliding Automatic Doors**

The report of the Project Manager dated February 1, 2013 entitled “Sliding Automatic Doors for Lobby and Change Room Access to Pool Areas” – *attached*.

4.6. **Approval of Energy Reduction/Operating Budget Reduction Initiative – Installation of Variable Frequency Drives**

The report of the Project Manager dated February 1, 2013 entitled “Energy and Operating Budget Reduction Initiative – Installation of Variable Frequency Drives” – **attached.**

5. **OTHER BUSINESS**

- 5.1 C. J. Rupp, Lead Architect, Hughes, Condon Marler Architects (HCMA) to provide a verbal update regarding potential aesthetic upgrades to the Natatorium.

6. **Family Aquatic Complex Executive Committee Minutes**

Minutes of the Family Aquatic Complex Executive Committee - **attached for information**

Meeting dates –December 3, 2012, December 10, 2012, December 17, 2012, January 14, 2013 and January 21, 2013.

7. **OTHER BUSINESS**

8. **ADJOURNMENT**

**THE CORPORATION OF THE CITY OF WINDSOR  
OFFICE OF THE CITY ENGINEER- Parks Facilities**



**MISSION STATEMENT:**

*"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"*

<b>Author's Name: Don Sadler</b>	<b>Report Date: February 1, 2013</b>
<b>Author's Phone: 519 791-3312</b>	<b>Date to Steering Committee: February 7, 2013</b>
<b>Author's E-mail: dsadler@city.windsor.on.ca</b>	

**To: Steering Committee Family Aquatic Complex**

**Subject: Project Schedule Family Aquatic Complex**

**1. RECOMMENDATION: City Wide: \_\_\_\_\_ Ward(s): \_\_\_\_\_**

To the Steering Committee **FOR INFORMATION.**

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

The original project schedule was provided to the Steering Committee as it was included in the contract between the City of Windsor and Ellis Don DeAngelis.

The schedule has been used to track variances and establish milestone dates.

**3. DISCUSSION:**

Work has progressed steadily over this past year with major milestones being met. Of importance are:

1. The finished roof over the centre of the complex containing the basement and the 71 metre pool natatorium.
2. The 71 metre Myrtha pool is installed with all the pumps and filters in place, in the basement
3. The building is closed in and gas installed to supply winter heat for inside works.
4. Steel and pillars are placed for the water park allowing that roof, deck and exterior walls can be completed and winter works can be started in this section.
5. Mechanical and electrical work is ahead of schedule which is very important as mechanical and electrical represents a major component of the project.
6. The District Energy hot and cold water in ground piping is complete allowing more regularized construction equipment movement and building exterior walls to proceed. The second phase of

this construction including noise mitigation walls has been awarded through tender and assigned to Ellis Don/DeAngelis Joint Venture.

7. The removal of the minor portion of contaminated soils is 90% complete and two monitoring wells installed. The necessary paper work has been filed with the Ministry of the Environment by Golder and Associates to complete our record of site condition and remediation action plan.
8. The temporary move in date for staff training and system operation is June 15, 2013 with Ellis Don DeAngelis suggesting they and their sub-trades will be working with our staff to help train and complete minor work in anticipation of making the natatorium, change rooms, lobby and spectator area completely available to the City for July 15, 2013. This will allow us opportunity to test the pool and equipment, and schedule a local swim meet well in advance of the International Children's Games.
9. Review of timing system, scorers and judge locations for swim meets have taken place with local swim clubs and the Omega timing system representative.
10. The exterior hard surfacing and landscaping complete with roadway improvements to Church and Bruce will be complete for the games in August.
11. Construction will continue within the water park, but closed off to the public during the games. The southern portion of the property from the south edge of the building to property line will remain construction assembly area for the various trades, however the construction fence will be screened and the area closed off to the general public.
12. The glass (curtain wall) is expected to be installed on the exterior by end of February.

#### **4. RISK ANALYSIS:**

Regular review of the construction schedule and meeting milestone dates allows that the facility will be available for the summer of 2013 to host the International Children's Games.

At this juncture in the project we are on schedule to be complete for the games. Adjustments have been made to sub-schedules; however major milestones continue to be met.

#### **5. FINANCIAL MATTERS:**

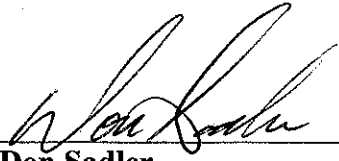
The project remains on budget.

#### **6. CONSULTATIONS:**

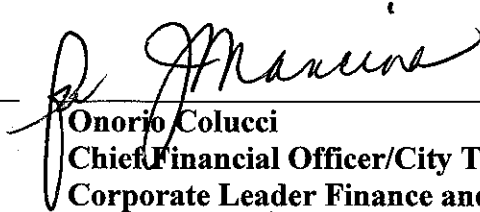
Doug Farmer – Project Manager, Ellis Don DeAngelis  
Architects, Engineers, Consultants

**7. CONCLUSION:**

As of this report the project is on schedule and we continue to hear positive comments from the community.



**Don Sadler**  
Project Manager, Family Aquatic  
Complex



**Onorio Colucci**  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology  
Project Sponsor, Family Aquatic Complex

DS:ch

**APPENDICES: Attachment 1 – Project Schedule (can be printed in colour)**

**DEPARTMENTS/OTHERS CONSULTED:**  
Name:  
Phone #: 519 ext.

**NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX

**THE CORPORATION OF THE CITY OF WINDSOR  
OFFICE OF THE CITY ENGINEER- Parks Facilities**



**MISSION STATEMENT:**

*"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"*

<b>Author's Name: Don Sadler</b>	<b>Report Date: February 1, 2013</b>
<b>Author's Phone: 519 791-3312</b>	<b>Date to Steering Committee: February 7, 2013</b>
<b>Author's E-mail: dsadler@city.windsor.on.ca</b>	

**To: Steering Committee Family Aquatic Complex**

**Subject: Atrium Finishes**

**1. RECOMMENDATION: City Wide: \_\_\_\_\_ Ward(s): \_\_\_\_\_**

That the Steering Committee of the Family Aquatic Complex **APPROVE** the Atrium finishes upgrades as presented by Ellis Don/DeAngelis Joint Venture for a cost of \$102,762.45 and that the expense be charged to the contingency budget for the Family Aquatic Complex

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

At the Steering Committee meeting of September 26, 2012 a request was made by the committee to look at upgrades to the Atrium lobby areas that would create a warm atmosphere to patrons visiting our new Family Aquatic Complex.

**3. DISCUSSION:**

The lead architect HCMA Hughes Condon Marler and Associates work with the team from Ellis Don/DeAngelis Joint Venture and the City of Windsor to develop some upgraded features that are represented in the attached renderings. The details of the enhancements, along with the related costs, are contained in the attached schedule. Those additions to the lobby floors, ceilings and walls greatly enhance the appearance.

**4. RISK ANALYSIS:**

The expenditure reduces the available contingency budget..

**5. FINANCIAL MATTERS:**

The cost for upgrades identified in the attached renderings is \$102,762.45 inclusive of the management fee and bonding. Funds are available in the contingency budget of the Family Aquatic Complex.

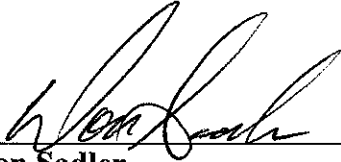
The Steering Committee will receive a separate financial report, including an analysis of the available contingency budget.

**6. CONSULTATIONS:**

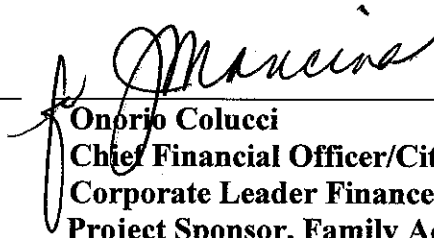
City of Windsor  
Hughes Condon Marler and Associates  
Ellis Don/DeAngelis Joint Venture

**7. CONCLUSION:**

Upgrade to the finishes of the Atrium lobby area will greatly enhance the appearance of the complex and provide visitors with a warm, inviting space.



**Don Sadler**  
Project Manager, Family Aquatic  
Complex



**Onorio Colucci**  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology  
Project Sponsor, Family Aquatic Complex

DS:ch

**APPENDICES: Appendix A - Lobby Upgrades  
Appendix B - Atrium Renderings**

**DEPARTMENTS/OTHERS CONSULTED:**

**Name:**  
**Phone #: 519            ext.**

**NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX

**WAC - Lobby Upgrades**

31-Jan-13

DESCRIPTION	SUB-TRADE	ORIGIN	PRICE	TOTALS
Upgrades to finishes in main lobby area		Owner Request		\$ 96,900.00
Upgrade Flooring	Budget		\$ 32,500.00	
Add wall cladding	Budget		\$ 7,500.00	
Add Column Wraps	Budget		\$ 14,400.00	
Add Wood cladding to bulkheads	Budget		\$ 25,000.00	
Fireplace	Budget		\$ 12,500.00	
Additional Framing & drywall	Budget		\$ 5,000.00	
Sub-Total				\$ 96,900.00
O/H&P @ 5%				\$ 4,845.00
Sub-Total				\$ 101,745.00
Sub-Guard				\$ 1,017.45
<b>TOTAL EXTRA</b>				<b>\$ 102,762.45</b>



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<b>Author's E-mail: dsadler@city.windsor.on.ca</b>	

**To: Steering Committee Family Aquatic Complex**

**Subject: Security Cameras and Location Contactors for the Family Aquatic Complex**

**1. RECOMMENDATION: City Wide: \_\_\_\_\_ Ward(s): \_\_\_\_\_**

That the Steering Committee of the family Aquatic Complex **APPROVE** the supply and installation of additional security cameras, location contactors and access control infrastructure for a cost of \$122,468.66 and that the expense be charged to the contingency fund of the Family Aquatic Complex.

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

As a design build structure the full strategic location of cameras and location contactors to provide security of this large facility was not completely known until our final architectural drawings were established.

**3. DISCUSSION:**

Completion of the door access locations allows us to understand the viewing angles for the building. City staff responsible for the facility has reviewed with the architects and builders each access point inside and outside the building with an aim to allow controlled flow of patrons and security for non public areas. This has increased the number of cameras in the facility.

**4. RISK ANALYSIS:**

The security of the building and surveillance of all areas by our staff is integral to the City limiting our exposure to risk.

**5. FINANCIAL MATTERS:**

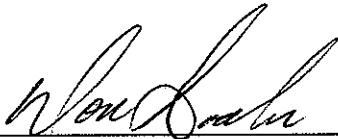
The cost for supply and installation of these additional security features complete with management fee and bonding is \$122,468.66, with supporting documentation attached.

**6. CONSULTATIONS:**

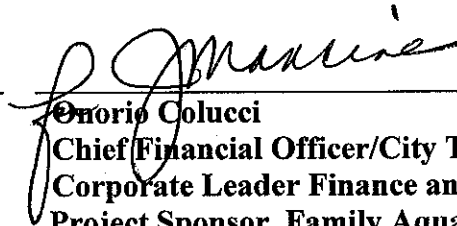
Parks and Facilities and Recreation Staff  
Mid South Contractors  
Vollmer  
Thyssen Krupp Elevator  
Ellis Don/DeAngelis

**7. CONCLUSION:**

With these enhanced security features the overall complex can be more secure and the Family Aquatic Complex staff can be more productive with camera surveillance of remote areas.



**Don Sadler**  
Project Manager, Family Aquatic  
Complex



**Onorio Colucci**  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology  
Project Sponsor, Family Aquatic Complex

DS:ch

**APPENDICES: Appendix A – Costing Summary**

**DEPARTMENTS/OTHERS CONSULTED:**  
Name:  
Phone #: 519 ext.

**NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX

WAC - PCN 19  
 Security System Upgrades  
 31-Jan-13

DESCRIPTION	SUB-TRADE	ORIGIN	PRICE	TOTALS
Changes to Security System		PCN 19		\$ 115,482.00
Electrical/Data	Mid South		\$ 109,986.00	
Elevator security upgrades	Thyssen		\$ 5,496.00	
Sub-Total				\$ 115,482.00
O/H&P @ 5%				\$ 5,774.10
Sub-Total				\$ 121,256.10
Sub-Guard				\$ 1,212.56
TOTAL-EXTRA				\$ 122,468.66

## EXTRA TO CONTRACT

DATE: January 14, 2013

TO: EllisDon / DeAngelis  
ATT: Doug Farmer

Pages: 1

RE: Windsor Family Aquatic Centre - PCN 19  
TKE Job # EBG743/4  
*—k*

Dear Doug,

Further to our review of PCN19, please find below the scope of work and pricing related to these changes:

- Main Floor Hall Card Reader Provisions – Elev. #2:
  - Provide new elevator control software with the main floor lobby hall card reader provisions.
  - Provide updated electrical prints to reflect changes.
  - Work with security contractor to interface the hall card reader system with the elevator control system.
  
- Camera Provisions on Elev. #1 and #2:
  - Supply and install an additional traveling cable on each car with the necessary coax cable or 18ga wires for the in elevator cameras.
  - Provide a power supply on the elevator car top for the cab cameras.
  - Work with camera supplier to mount and power up the camera.

**NOTE:** The camera equipment and card reader equipment is to be supplied and installed by others. Also, please be advised that CAT6 cable is not possible for cameras. TKE will supply coax or 18ga wires.

### Change Order Pricing:

The total extra cost for the above changes as described herein will be Five Thousand Four Hundred Ninety-Six Dollars (\$5,496.00) plus HST. The above is extra to our base contract and we require a formal change order to proceed with the change. Also, this pricing is based on work being completed while our crews are already on site installing the elevators.

Submitted by,  
Gary Medeiros  
ThyssenKrupp Elevator



Accepted by EllisDon / DeAngelis

Signature: \_\_\_\_\_  
*I have authority to bind the company*

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_



Mid South Contractors ULC

3110 Devon Drive  
Windsor, Ontario  
N8X 4L2  
Phone: (519) 966-6163  
Fax: (519) 966-1019

Attn: Ellis-Don / DeAngelis

January 15, 2013

Re: Windsor Aquatic Centre

CCO # 31 PCN # E005

MS -RFC # 17R

Security Changes ( added cameras and recorder ) / Changes to Exterior Interior Door Security Hardware.

Attn: Doug Farmer

Mid South Contractors ULC is pleased to submit our quotation regarding the above mentioned project in the amount of:

**\$109,986.00 Plus HST**

**Please Note: Door Contacts added on CO # 19 are now part of this PCN and need to be added to the drawing & door schedule.-020A-024A-024B-027A-014A-017A-005A-002A**

Our quotation is based on the following qualifications:

2. Our quotation includes:
  - Work quoted for straight time .
3. Our quotation does not include:
  - HST taxes
  -

If there are any questions please feel free to call us at 966-6163 or fax at 966-1019. Please note that all quotes are valid only for thirty (30) days.

Sincerely,

Johncarlo Salvatore  
P/M

Confidential

Page 1

2/1/2013

MSC PROJECT JOB NUMBER		WINDSOR AQUATIC CENT	DATE:	01/15/2013			
CHANGE ORDER NO.		PCN # 19R	EST. BY:	JOHN SALVATORE			
FIELD ORDER NO.							
MEC WORK ORDER NO(S)							
MSC RFCG/BP NO.		RFC # 17					
DESCRIPTION OF WORK:							
CHANGES TO SECURITY SYSTEM / EXTERIOR INTERIOR DOORS ALL LEVELS							
DESCRIPTION	QTY.	MATERIAL	EXTENSION	LABOUR	EXTENSION		
#1 DRAWING # E201 -ADD 1 CS PTZ CAMARA			\$6,799.00				
CONDUIT FOR THE ABOVE			\$1,980.00				
#2 DRAWING # E-601 ADD 7 DOOR CONTACTS			\$2,350.00				
ADD 1 INSIDE ELEVATOR CAB CAMERAS			\$4,690.00				
CONDUIT FOR THE ABOVE X 1			\$3,940.00				
#3 DRAWING # E-602 ADD C1 CAMERA CONSESSION AREA			\$2,000.00				
CONDUIT FOR THE ABOVE			\$1,950.00				
#4 DRAWING #EQU-CARD READER LOBBY FOR ELEVATOR			\$3,044.00				
ADD CAMERA FITNESS AREA			\$2,050.00				
ADD 9 DOOR CONTACTS			\$3,050.00				
CONDUIT FOR THE ABOVE			\$1,938.00				
#5 DRAWING #E204-1 CS PTZ ON H. PART ROOF			\$8,450.00				
ADD 1 DOOR CONTACT STAIRS			\$243.00				
CONDUIT FOR THE ABOVE			\$1,950.00				
#6 PROVIDE PELCO DIGITAL SENTRY SERVERS			\$30,674.00				
<b>BISSUM</b>							
Door / CONTACTS Operator Connection	11	\$15.00	E	\$165.00	1.00	E	11.00
MUD BOX	8	\$1,046.29	C	\$8,370.32	60.00	C	4.80
3/4 EMT	300	\$98.80	C	\$29,640.00	5.00	C	15.00
3/4 STEEL CONNECTORS	12	\$96.12	C	\$1,153.44	0.10	E	1.20
3/4 STEEL COUPLINGS	36	\$80.54	C	\$2,900.04	0.05	E	1.80
3/4 SUPPORTS	42.8471	\$1.52	E	\$65.14	6.00	C	2.57
				\$0.00			0.80
<b>1st Floor</b>							
3/4 EMT	900	\$98.80	C	\$88,920.00	5.00	C	45.00
3/4 STEEL CONNECTORS	60	\$96.12	C	\$5,767.20	0.10	E	6.00
3/4 STEEL COUPLINGS	25	\$80.54	C	\$2,013.50	0.05	E	1.25
3/4 SUPPORTS	128.571	\$1.52	E	\$1,954.27	6.00	C	7.71
1 EMT	600	\$181.87	C	\$109,122.00	8.50	C	39.00
1 STEEL CONNECTORS	50	\$130.18	C	\$6,509.00	0.12	E	6.00
1 STEEL COUPLINGS	100	\$98.58	C	\$9,858.00	0.06	E	6.00
1 SUPPORTS	85.7143	\$1.95	E	\$167.14	7.00	C	6.00
Door / CARD READERS / CONTACTS / HORNS	41	\$15.00	E	\$615.00	1.00	E	41.00
15A 1P Breaker	1	\$25.00	E	\$25.00	0.50	E	0.50
MUD BOX	24	\$1,086.29	C	\$26,010.96	60.00	C	14.40
600 J BOX	12	\$988.69	C	\$11,864.28	75.00	C	9.00
#10 600 VOLT 1/C WIRE	600	\$304.18	M	\$182,508.00	8.00	M	6.40
<b>2nd Floor</b>							
Door / CARD READERS / CONTACTS / HORNS	18	\$15.00	E	\$270.00	1.00	E	18.00
15A 1P Breaker	1	\$25.00	E	\$25.00	0.50	E	0.50
MUD BOX	12	\$1,086.29	C	\$13,035.48	60.00	C	7.20
600 J BOX	4	\$988.69	C	\$3,954.76	75.00	C	3.00
#10 600 VOLT 1/C WIRE	480	\$304.18	M	\$146,006.40	8.00	M	3.20
3/4 EMT	780	\$98.80	C	\$77,064.00	5.00	C	35.00
3/4 STEEL CONNECTORS	36	\$96.12	C	\$3,460.32	0.10	E	3.60
3/4 STEEL COUPLINGS	180	\$80.54	C	\$14,497.20	0.05	E	9.00
3/4 SUPPORTS	180	\$1.52	E	\$273.60	6.00	C	6.00
<b>STIPULATED CONTRACTORS COSTS</b>							
Value:			\$16,535.00				

H & E Controls					
SUB TOTALS				\$87,332.40	
				\$87,332.40	
<b>UTILITY COSTS</b>					
GAS AND TRAVEL			\$65.00	E	\$0.00
DELIVERIES		1	\$45.00	E	\$45.00
TRAVEL TIME (\$0.40/KM)			\$8.43	E	\$0.00
ESA INSPECTION / TRENCH INSPECTION					\$0.00
RENTALS					\$13.00
<b>LABOUR</b>					\$8.00
TOTAL HRS					299.14
WIREMAN				\$74.50	299.14
FOREMAN (10% OF WIREMAN MAN HOURS)				\$87.00	6.00
GENERAL FOREMAN (20 % OF WIREMAN MAN HOURS)				\$88.00	6.00
<b>B TOTAL</b>			<b>MATERIAL / OTHER</b>		<b>LABOUR</b>
COST			\$87,700.40		\$22,285.61
COSTS		10%			
<b>TOTAL</b>			\$87,700.40		\$22,285.61
					\$109,986.01

NO MARK UP



2013-01-15

Mid South Contractors, LTD  
3110 Devon Drive  
Windsor, Ontario N8X4L2  
519-966-6163



Att: John Savatore

RE: Windsor Aquatic Complex (Proposed Change Notice HCMA # 14)

John, I am pleased to provide you with pricing for the Windsor Aquatic Complex (Proposed Change Notice HCMA # 14).

**Scope of Work Pricing**

- Note the following includes labour, materials, and rentals required to complete the following NOT INCLUDING HST TAX.

1. Supply and install 9 Door contacts and cabling to suit for various doors in addition to original contract Based on meeting held at DeAngellis office 2013-01-11. \$ 2,932.20
  
2. Supply and install 11 Card readers, 1 ACX 5740 enclosure and cabling to suit for various doors in addition to original contract. Based on meeting held at DeAngellis office 2013-01-11. \$ 11,188.00
  
3. Supply and install 2 Emergency stations Based on meeting held at DeAngellis office 2013-01-11. \$ 2,063.00

✓ Mechanical ✓ Electrical ✓ Sheet Metal  
✓ Millwright/Rigging ✓ Data/Communications

vollmer.ca

Phone: 519.966.6100 Fax: 519.966.0934  
Email: vollmer@vollmer.ca  
3822 Sandwich St. Windsor, ON N9C 1C1



Our Cost for this proposed Change order is Sixteen Thousand Five Hundred and Thirty Five Dollars Plus HST  
\$ 16,535.00 plus HST

Note the following:

1. Work to be performed during a regular business hours Monday - Friday 7:30AM -4:00PM.
2. Access to all areas of work to be provided by customer in a timely manner.
3. This quotation is valid for 30 days from quotation date.
4. HST is not included in pricing above.

If you have any questions please feel free to contact me to discuss.

Sincerely,

  
Mike Shaw RCDD/OSP  
Communications Manager  
Phone: (519) 966-6100 ext.264  
Fax: (519) 966-0934  
Email: [mshaw@volimer.ca](mailto:mshaw@volimer.ca)



2013-02-01

Mid South Contractors, LTD  
 3110 Devon Drive  
 Windsor, Ontario N8X4L2  
 519-968-6163



Att: John Savatore

RE: Windsor Aquatic Complex (Proposed Change Notice HCMA # 19) (REVISED)

John, I am pleased to provide you with pricing for the Windsor Aquatic Complex (Proposed Change Notice HCMA # 19).

**Scope of Work Pricing**

- **Note the following includes labour, materials, and rentals required to complete the following NOT INCLUDING HST TAX.**

1. Drawing E201:	
1. Add one C5 PTZ camera on the wall at roof height near the corner of Pitt and Church	\$ 6,764.10
2. Drawing E601:	
1. Add an additional seven door contacts to monitor the status of the doors from the elevator lobbies to the main mechanical areas. Note: Pricing assumes that a spare input point is available near the door location.	\$ 2,291.16
2. Add two cameras in elevator cabs. Note: travel cable and cab work by elevator company not included in this quotation.	\$ 4,425.30
3. Drawing E602:	
1. Add One fixed C1 cameras to the Concession areas	\$ 1,972.30
4. Drawing E603:	
1. Add one card reader in the Lobby for elevator # 2	\$ 2,944.34

✓ Mechanical ✓ Electrical ✓ Sheet Metal  
 ✓ Millwright/Rigging ✓ Data/Communications

vollmer.ca

Phone: 519.968.6100 Fax: 519.968.0024  
 Email: vollmer@vollmer.ca  
 3922 Sandwich St. Windsor, ON N9C 1C1

2. Add one C1 fixed camera on the fitness area	\$	1,972.30
3. Add 9 door contacts to monitor the status of the stairs an meeting area storage areas.	\$	2,932.20
5. Drawings E804:		
1. Add one C5 PTZ camera on highest part of roof	\$	8,369.50
2. Add one door contact to stair door	\$	310.15
6. Provide Pelco Manufactured Digital Sentry Server and Storage Units for the CCTV system, includes licenses. NOTE: Storage of 4 X 3 Tera byte Servers having 9 TERABYTES of Storage for are required for Video bandwidth of this project at minimum. Additional storage may be added at an additional cost.	\$	20,574.00

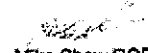
Our Cost for this proposed Change order is Fifty Two Thousand Five Hundred and Fifty Five Dollars Plus HST  
**\$ 52,555.00 plus HST**

Note the following:

1. Work to be performed during a regular business hours Monday - Friday 7:30AM -4:00PM.
2. Access to all areas of work to be provided by customer in a timely manner.
3. This quotation is valid for 30 days from quotation date.
4. HST is not included in pricing above.

If you have any questions please feel free to contact me to discuss.

Sincerely,

  
Mike Shaw RCDD/OSP  
Communications Manager  
Phone: (519) 966-6100 ext.264  
Fax: (519) 966-0934  
Email: [mshaw@volmer.ca](mailto:mshaw@volmer.ca)

**THE CORPORATION OF THE CITY OF WINDSOR  
OFFICE OF THE CITY ENGINEER- Parks Facilities**



**MISSION STATEMENT:**

*"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"*

<b>Author's Name: Don Sadler</b>	<b>Report Date: February 1, 2013</b>
<b>Author's Phone: 519 791-3312</b>	<b>Date to Steering Committee: February 7, 2013</b>
<b>Author's E-mail: dsadler@city.windsor.on.ca</b>	

**To: Steering Committee Family Aquatic Complex**

**Subject: Sliding Automatic Doors for Lobby and Change Room Access to Pool Areas**

**1. RECOMMENDATION: City Wide: \_\_\_\_\_ Ward(s): \_\_\_\_\_**

That the Steering Committee of the Family Aquatic Complex **APPROVE** the changes to the entrance doors to the lobby and from change rooms to pool spaces at a cost of \$59,717.82 and that the expense be charged to the contingency budget for the Family Aquatic Complex.

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

In most of our recreation facilities we have sliding automatic doors. These doors have been installed in recent years to replace swing doors because of their superior performance.

**3. DISCUSSION:**

Many of our patrons comment positively on the introduction of the automatic sliding doors and the ease of entrance to facilities. Automatic swing doors with electric eye sensors have doors opening toward you automatically if you have a two way entrance/exit situation. A sliding door system does not have this issue. The other positives are that you have much faster access in and out, plus the doors are not open as long reducing heating and cooling costs in your building.

In the change rooms entering the pool area sliding doors will allow the doors to remain closed when patrons do not need access to the pool decks and assist with positive pressure in the pool areas which limit the hot moist air from entering the change rooms. The climate is subsequently more comfortable in the change areas. The additional benefit is at the end of program sessions the doors can be closed to accessing the pool areas from the change rooms because there are emergency break out panels in the doors. An emergency egress from the change rooms to the exit doors on the decks of the Water Park and Natatorium must be kept, and without this slider

door system a staff member would have to remain on the deck to ensure no patron enters the pool spaces without supervision.

#### **4. RISK ANALYSIS:**

Without the sliding door system with emergency break out panels the risk of a patron re-entering the pool areas after they have gone to the change room at the end of a session would need to be mitigated by staff placed on the deck until all patrons had showered, changed and left the change rooms and out to the lobby. From a financial perspective, this expenditure reduces the amount available within the project contingency budget.

#### **5. FINANCIAL MATTERS:**

The cost to upgrade the entrance doors in the lobby and the change rooms to the pool spaces with electrical requirements, including Ellis Don/DeAngelis Joint Venture management fee and bonding is \$59,717.82. Funds are available in the contingency budget of the Family Aquatic Complex.


The Steering Committee will receive a separate financial report, including an analysis of the available contingency funds.

#### **6. CONSULTATIONS:**

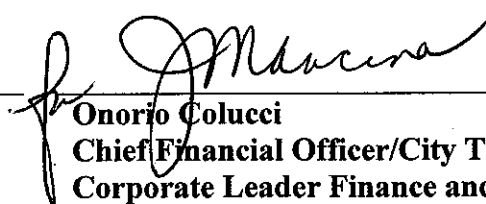
City of Windsor Building Department  
Fire Department  
HCMA  
Ellis Don/DeAngelis

#### **7. CONCLUSION:**

The addition of the automatic sliding doors inclusive of the electrical infrastructure will be much more user friendly, reduce our operating risk and improve air quality in the change rooms.



**Don Sadler**  
Project Manager, Family Aquatic  
Complex



**Onorio Colucci**  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology  
Project Sponsor, Family Aquatic Complex

DS:ch

**APPENDICES: Appendix A - Door change pricing**

**DEPARTMENTS/OTHERS CONSULTED:****Name:****Phone #: 519            ext.****NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX

**WAC - PCN14R1**  
**Door Changes**  
 31-Jan-13

DESCRIPTION	SUB-TRADE	ORIGIN	PRICE	TOTALS
<b>Door Changes Throughout Building</b>		<b>PCN14R1</b>		<b>\$ 56,311.00</b>
Add Stanley Auto Sliders	Stanley		\$ 87,661.00	
Credit Aluminum Doors & Frames	CGI		\$ (31,350.00)	
Sub-Total				\$ 56,311.00
O/H&P @ 5%				\$ 2,815.55
Sub-Total				\$ 59,126.55
Sub-Guard				\$ 591.27
<b>TOTAL EXTRA</b>				<b>\$ 59,717.82</b>



DEANGELIS CONSTRUCTION  
5138 County Rd. 46 RR#3  
Maidstone, ON  
Tel: 519-737-1888  
Fax: 519-737-6544

Dave Evans  
Territory Manager

Quotation #7627-1  
Windsor Aquatic Centre

Toronto Branch  
2495 Meadowpine Blvd  
Mississauga, ON  
L5N 6C3  
Tel: 905-309-5294  
Fax: 905-309-5915  
Email: David.Evans@sbdinc.com

December 10, 2012

Stanley Access Technologies, a division of Stanley Canada Corporation is pleased to provide you a quotation to furnish and install the following:

- 2 ea. Dura-Glide 3000 Bi-Parting Sliding Door. 171" (172.75") x 92" clear anodized finish c/w alarm contacts and 1/4" clear temp glass.
- 2 ea. Dura-Glide 3000 Bi-Parting Sliding Door. 128.75" x 92" clear anodized finish c/w alarm contacts and 1/4" clear temp glass.
- 8 ea. Dura-Glide 3000 Single Sliding Door. 88" x 92" clear anodized finish c/w alarm contacts, "fail secure" solenoid locks and 1/4" tinted temp glass.
- 1 ea. Dura-Glide 3000 Single Sliding Door. 96" x 92" clear anodized finish c/w alarm contacts and 1/4" clear temp glass.

**Net Price: \$87,661.00**

**Scope of Work:**

Supply and install above equipment.

**Lead Time/Warranty:**

Lead Time: Current equipment lead time is 4-6 weeks from receipt of order and approved dimensions. Equipment is furnished and installed during normal business hours, (8:00AM to 4:30PM, Mon-Fri).

Warranty: 1 year parts and labor. During normal business hours Mon-Fri 8:00AM to 4:30PM.

**Exclusions:**

- Preparation of rough opening.
- 120 volts AC to inside auto door header.
- After hours premium labor.

If you would like to pay by Credit Card, please contact us at 1(800) 722-2377 Ext. 6.  
We accept the following Credit Cards:







DEANGELIS CONSTRUCTION  
 5138 County Rd. 46 RR#3  
 Maidstone, ON  
 Tel: 519-737-1888  
 Fax: 519-737-6544

Dave Evans  
 Territory Manager

Quotation #7627-1  
 Windsor Aquatic Centre

Toronto Branch  
 2495 Meadowpine Blvd  
 Mississauga, ON  
 L5N 6C3  
 Tel: 905-309-5294  
 Fax: 905-309-5915  
 Email: David.Evans@sbdInc.com

**Conditions**

Acceptance of this offer by the purchaser shall constitute an order and contract for the purchase of the items described herein. We shall not be liable for the non-performance of this contract, in whole or in part, if such non-performance is the result of any cause or causes beyond our reasonable control, including (but without limitation by reason of enumeration) the following: fires, strikes, differences with employees, casualties, delays in transportation, shortage of cars, government restrictions or other causes; nor shall these exceptions be limited or waived by any other terms of the contract, whether printed or written. Terms: net 30 days, subject to the approval of our credit department, progress billings made to meet project requirements will be invoiced when applicable and subject to the same terms. In the event it shall become necessary for Stanley Access Technologies, a division of Stanley Canada Corporation to enforce any of the provisions of this agreement, purchaser agrees to pay all costs and expenses associated with such enforcement including without limitation, the fee of a collection agency and an attorney. Price above excludes sales tax, use tax, if applicable, and has been included in our quote.

Prepared by: Dave Evans

Preliminary Install Date:

This section is to be completed by customer. Please sign one of the following options:

Name (print): \_\_\_\_\_ Date: \_\_\_\_\_ Ref# \_\_\_\_\_

This is my authorization to proceed with the above stated work at the price of \$87,661.00. No contract or purchase order will be issued in addition to this accepted quote.

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Signature must be by an individual granted the authority to sign legally binding documents.

OR

Name (print): \_\_\_\_\_ Date: \_\_\_\_\_ Ref# \_\_\_\_\_

I will be issuing a contract or PO based on this quote.

If you would like to pay by Credit Card, please contact us at 1(800) 722-2377 Ext. 6.  
 We accept the following Credit Cards:



# Change Order Request



Contract Glaziers

C.O.R. # 1178-03

G.C. #

Date: 12-14-12

Project Name: Windsor Family Aquatic Centre

Project #: 1178

To: EllisDon Corp/DeAngelis JV  
Attn: Christian Catenacci  
401 Pitt St W  
  
Windsor, ON N9A 0B2

From: Contract Glaziers  
Bryon Turner  
620 Sprucewood  
Windsor, ON N9C 0B2

Phone: (519) 254-1631 Fax:

Phone: (519) 969-1740 Fax: (519) 969-0099

We hereby propose to make the following changes:

PCN-14R1

As per Proposed Change No 14R1

Delete standard swing doors and associated framing for the following openings;  
103A,103B,103C,103D,124A,124E,125A,126A,133A,134A,135A,135E,145A,145B,145  
C,145D

Change Order Price (\$31,350.00)

This price is good for 30 days. If conditions change, this price is void.

We are requesting a time extension of 5 days in conjunction with this change.

Bryon Turner 12/14/2012

Author Date Sent

Accepted

The above prices and specifications of this Change Order request are satisfactory and are hereby accepted. All work to be performed under same terms and conditions as specified in original contract unless otherwise specified.

Authorized Signature

Date of Acceptance

**THE CORPORATION OF THE CITY OF WINDSOR  
OFFICE OF THE CITY ENGINEER- Parks Facilities**



**MISSION STATEMENT:**

*"The City of Windsor, with the involvement of its citizens, will deliver effective and responsive municipal services, and will mobilize innovative community partnerships"*

<b>Author's Name: Don Sadler</b>	<b>Report Date: February 1, 2013</b>
<b>Author's Phone: 519 791-3312</b>	<b>Date to Steering Committee: February 7, 2013</b>
<b>Author's E-mail: dsadler@city.windsor.on.ca</b>	

**To: Steering Committee Family Aquatic Complex**

**Subject: Energy and Operating Budget Reduction Initiative – Installation of Variable Frequency Drives**

**1. RECOMMENDATION: City Wide: \_\_\_\_\_ Ward(s): \_\_\_\_\_**

1. That the Family Aquatic Complex Steering Committee **APPROVES** the purchase and installation of 23 variable frequency drives, for a total cost of \$140,222.79 **AND** that the expense be charged to the Contingency budget for the Family Aquatic Complex.
2. That the Steering Committee support Council approval for the CAO and City Clerk to sign agreements with the Ontario Power Authority for energy grants.

**EXECUTIVE SUMMARY:**

N/A

**2. BACKGROUND:**

Variable Frequency Drives allow motors to operate at demand loads and not at manufacturer design - full loads in a typical on or off function.

**3. DISCUSSION:**

The Family Aquatic Complex has a total of 46 separate motors to operate the pool mechanical system. Our consultants Smith and Anderson and Chorley and Bissett reviewed the various sizes and use of the motors and recommended 23 of the motors would provide an energy savings payback of less than 3 years if Variable Frequency Drivers were installed.

In addition, through Sergio Grando, our Manager of Energy Initiatives, I was put in touch with Enwin who assisted greatly on the application to "ON Energy Retrofit Program" for which we are eligible based on our building permit application being prior to January 1<sup>st</sup> of 2012.

The ON Energy High Performance New Construction Program (HPNC) will also be applied for based on the energy reduction initiatives already included in our design such as "Dectlon Heat Recovery Units".

#### **4. RISK ANALYSIS:**

There is no operating risk in improving energy efficiency in the Family Aquatic Complex. However, from a financial point of view, it does reduce the available contingency funds.

#### **5. FINANCIAL MATTERS:**

The price for installation of the 23 VFD's Variable Frequency Drives is \$140,222.49, including the Ellis Don DeAngelis management fee and bonding.

The initial indication is that our application for a grant from the Ontario Power Authority supported by Enwin will be approved and could yield over \$40,000. This grant would reduce our payback period to less than 2 years if approved.

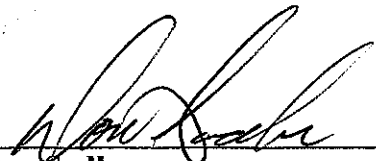
The Steering Committee will receive a separate report on Financial Matters, including an analysis of the available contingency funds.

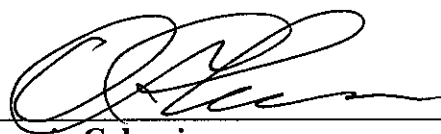
#### **6. CONSULTATIONS:**

Smith and Anderson and Chorley and Bissett  
Enwin  
Ellis Don DeAngelis  
Manager of Energy Initiatives  
Union Gas

#### **7. CONCLUSION:**

The installation of the Variable Frequency Drives to our selected large motors in the FAC will provide substantial energy savings for the operation of the facility. Although difficult to quantify, the life cycle of the motors, before they need rebuilt, or replaced, should be increased, offering additional savings.

  
\_\_\_\_\_  
**Don Sadler**  
Project Manager, Family Aquatic  
Complex

  
\_\_\_\_\_  
**Onorio Colucci**  
Chief Financial Officer/City Treasurer and  
Corporate Leader Finance and Technology  
Project Sponsor, Family Aquatic Complex

DS:ch

**APPENDICES: Appendix A – Enwin Email  
Appendix B – Cost Summary from Mid South**

**DEPARTMENTS/OTHERS CONSULTED:**

**Name:**

**Phone #: 519            ext.**

**NOTIFICATION :**

Name	Address	Email Address	Telephone	FAX

**From:** [croutliffe@enwin.com](mailto:croutliffe@enwin.com) [<mailto:croutliffe@enwin.com>]  
**Sent:** December 10, 2012 3:37 PM  
**To:** Sadler, Don  
**Cc:** Piatek, Andrew; Davies, Bill; [bob.gordon@chorley.com](mailto:bob.gordon@chorley.com); Slater, Doug; Rakidzioski, Steve; [lmusyj@enwin.com](mailto:lmusyj@enwin.com)  
**Subject:** RE: Grant application.

Don,

As discussed....the short answer is yes.

The OPA states that "projects which are eligible under the saveONenergy High Performance New Construction Program are not eligible under the saveONenergy RETROFIT program". However, knowing that the building permit was applied for prior to January 1, 2012, the VFD's are not eligible for an incentive under HPNC. Therefore, we can get them through the RETROFIT program.

That being said, we need our project timeline to align with the RETROFIT program rules. All equipment being installed has to be "pre-approved" by the utility. This means that material should not be purchased OR installed prior to the application being submitted and "pre-approved" by EnWin.

Regards,  
Chris

Chris Routliffe, BSc  
CDM Program Coordinator - Commercial and Institutional  
Conservation & Demand Management  
EnWin Utilities Ltd.  
Email: [croutliffe@enwin.com](mailto:croutliffe@enwin.com)  
p. 519-255-2888 x709 | m. 226-345-7984



The information contained in this email message is private. It may contain confidential information and may be legally privileged. It is intended for the exclusive use of the addressee(s). If you are not the intended recipient, you are hereby notified that any dissemination, distribution or reproduction of this communication is strictly prohibited. If the intended recipient(s) cannot be reached or if a transmission problem has occurred, please notify the sender immediately by return e-mail and destroy all copies of this message. Thank-You.

**From:** "Sadler, Don" <[dsadler@city.windsor.on.ca](mailto:dsadler@city.windsor.on.ca)>  
**To:** "Slater, Doug" <[DSlater@uniongas.com](mailto:DSlater@uniongas.com)>, <[croutliffe@enwin.com](mailto:croutliffe@enwin.com)>, <[bob.gordon@chorley.com](mailto:bob.gordon@chorley.com)>, "Piatek, Andrew" <[andrew.piatek@chorley.com](mailto:andrew.piatek@chorley.com)>, "Davies, Bill" <[bdavies@uniongas.com](mailto:bdavies@uniongas.com)>  
**Cc:** "Rakidzioski, Steve" <[srakidzioski@uniongas.com](mailto:srakidzioski@uniongas.com)>  
**Date:** 2012-12-10 03:10 PM  
**Subject:** RE: Grant application.

---

Can we then apply for the 19 VFD's we are now installing as a retro fit?

**From:** Slater, Doug [<mailto:DSlater@uniongas.com>]  
**Sent:** December 10, 2012 3:05 PM  
**To:** Sadler, Don; [croutliffe@enwin.com](mailto:croutliffe@enwin.com); [bob.gordon@chorley.com](mailto:bob.gordon@chorley.com); Piatek, Andrew; Davies, Bill  
**Cc:** Rakidzioski, Steve  
**Subject:** RE: Grant application.

Gentlemen;

Because the building permit was applied for in 2011 we are limited to the 2011 program which does not include the VFD's

I need you to fill in the attached application form completely, I have inserted what I could from the version 2 application that Sergio sent in.

**All application and worksheets need to be Version 1**, these are available on the same page as the Version 2 just scroll toward the bottom of the page [Link for Relevant Docs](#)

As soon as we receive the application and worksheets etc. we can make a case to the OPA for the waiver.

Please contact me if you have any questions

Regards

**Doug Slater**

HPNC Energy Advisor

Union Gas Limited | A Spectra Energy Company

109 Commissioners Road West, PO Box 5353 | London, ON N6A 4P1

Off: 519-667-4442

Cel: 519-200-8974

Fax: 519-667-4263

[dslater@uniongas.com](mailto:dslater@uniongas.com)

**From:** Sadler, Don [<mailto:dsadler@city.windsor.on.ca>]

**Sent:** December-10-12 2:30 PM

**To:** Sadler, Don; [croutliffe@enwin.com](mailto:croutliffe@enwin.com); [bob.gordon@chorley.com](mailto:bob.gordon@chorley.com); Piatek, Andrew; Davies, Bill; Slater, Doug

**Subject:** RE: Grant application.

Sorry. The FAC Building Permit # was applied for in 2011. Permit# 2011 146985 & issued & paid for June 2012.

**From:** Sadler, Don

**Sent:** December 10, 2012 2:28 PM

**To:** Sadler, Don; 'croutliffe@enwin.com'; 'bob.gordon@chorley.com'; 'Piatek, Andrew'; 'bdavies@uniongas.com'; 'DSlater@uniongas.com'

**Subject:** RE: Grant application.

All. Doug Slater---Union Gas is in the process of putting together a waiver request to send over to Enwin & get FAC in to the HPNC program. The original application date was 19/10/2012. All---Doug has offered his assistance filling in the worksheets, which can capture all our energy saving initiatives. Please contact Doug as above or 519 667 4442 or mobile 519 200 8974. Thx to all.

**From:** Sadler, Don

**Sent:** December 7, 2012 8:52 AM

**To:** Sadler, Don; 'croutliffe@enwin.com'; 'bob.gordon@chorley.com'; 'Piatek, Andrew'; 'bdavies@uniongas.com'

**Subject:** RE: Grant application.

Chris, Bob & Andrew. Early on in the process we City had considered application for energy grants based on new construction & we had been communicating with Bill Davies at Union Gas. Subsequently the FAC is adding variable frequency drives to some of our motors. This email is to put all of you together in order that application can be made under the most suitable program. Thank you all for your assistance & interest in our build.

**From:** Sadler, Don

**Sent:** December 6, 2012 8:41 AM

**To:** 'croutliffe@enwin.com'; 'bob.gordon@chorley.com'; 'Piatek, Andrew'

**Subject:** Grant application.

Chris. Thank you for your call & suggestion that we could possibly include other energy enhancements that are above the building code & included in our M&E design. Chris Routliffe 519 255 2709 Bob Gordon 1 519 679 8660. Bob will be in touch. Thx to all.

*This email communication and any files transmitted with it may contain confidential and or proprietary information and is provided for the use of the intended recipient only. Any review, retransmission or dissemination of this information by anyone other than the intended recipient is prohibited. If you receive this email in error, please contact the sender and delete this communication and any copies immediately. Thank you.*





**Mid South Contractors ULC**

3110 Devon Drive  
Windsor, Ontario  
N8X 4L2  
Phone: (519) 966-6163  
Fax: (519) 966-1019

**Attn: Ellis-Don / DeAngelis**

**January 9, 2013**

**Re: Windsor Aquatic Centre**

**REF# SI / CCO # 18 PCN # E004-Revised**

**MS -RFC # 12 A-R & 12 B-R**

**Provide and Install 43 VFD**

**Attn: Doug Farmer**

Mid South Contractors ULC is pleased to submit our quotation regarding the above mentioned project in the amount of:

<b>#1</b>	<b>\$111,956.00 Plus HST</b>
<b>#2</b>	<b>\$20,267.00 Plus HST</b>

Our quotation is based on the following qualifications:

2. Our quotation includes:

- Supply and install / Mounting a total of 23 VFD .
- Commissioning .
- Work quoted for straight time .
- Reroute control cabling.
- 

3. Our quotation does not include:

- HST taxes
- Credit for existing soft start MCC components .
- Start up and Mechanical commissioning.

If there are any questions please feel free to call us at 966-6163 or fax at 966-1019. Please note that all quotes are valid only for thirty (30) days.

Sincerely,

Johncarlo Salvatore  
P/M

Confidential

Page 1

1/9/2013

## PROPOSED CHANGE NOTICE



**C&B No. 6800**

**Date 4 January 2013**

**PCN No. E004R**

<b>To</b>	HUGHES CONDON MARLER ARCHITECTS SUITE 300-569 JOHNSON STREET VICTORIA BC V8W 1M2 ATTN: Mr. George Gogoulis	<b>Owner</b>	CITY OF WINDSOR 350 CITY HALL SQUARE 4TH FLOOR, CITY HALL WINDSOR, ON N9C 6S1 ATTN: Mr. Don Sadler, Project Manager
<b>Project</b>	C11350 Windsor Family Aquatic Complex	<b>Location</b>	Windsor, Ontario

The purpose of this PROPOSED CHANGE NOTICE is to pass information to the Contractor and to give notice of a contemplated change in the work. This Proposed Change Notice does not authorize any change in work until a price has been established and approved by a Change Order.


**REFERENCE: ELECTRICAL**

Provide VFD's and ~~delete starters for the following motors:~~ (Separate Price for Item 1 and 2) ✗

1. PD2, PD3, PD4, PD6, PD7, PD8, PD9, PA1, PA2, PB1, PC1, PC2, PD1, PD5, PE1, PF1, PF2, PF3 and PG1.
2. AHU-108A, AHU-108B, CP-317A and CP-317-B.

CDO

**Chorley + Bisset Ltd.**

per 

6800\_pcn-e004r\_vfds.docx

CHORLEY + BISSET LTD.  
189 YORK ST., SUITE 28  
LONDON, ON, CANADA N6B 1R4

P: 519-679-8660    chorley.com  
F: 519-679-2145

MSC PROJECT JOB NUMBER	WINDSOR AQUATIC CENTR	DATE:	JANUARY 9/13
CHANGE ORDER NO.	Co # 18 pcc # 4R	EST. BY:	JOHNCARLO SALVATORE
FIELD ORDER NO.			
MSC WORK ORDER NO(S)			
MSC RFC/GBP NO.	RFC# 12-B REVISED		
<b>DESCRIPTION OF WORK:</b>			
PROVIDE VFD UNIT # 1			
<b>DESCRIPTION</b>	<b>QTY.</b>	<b>MATERIAL</b>	<b>EXTENSION LABOUR EXTENSION</b>
			\$0.00 0.00
			\$0.00 0.00
#14 600 VOLT 1/C WIRE	4000	\$190.10 M	\$760.40 6.00 M 24.00
9463 BELDEN	2000	\$376.03 M	\$752.06 16.00 M 32.00
CONTROL TERMINATIONS	32	\$0.50 E	\$16.00 0.20 E 6.40
TERMINATE VFD / MOUNT / WIRE / COMMISS	4		\$0.00 4.00 E 16.00
UNISTRUST FRAME / SUPPORT / BRACKETS	4	\$75.00 E	\$300.00 2.00 E 8.00
			0.00
OFF LOADING	4		1.00 E 4.00
SUPPLIERS & CONTRACTORS COSTS			\$7,933.00 0.00
CLEAN OUT MCC TO ACCOMMODATE VFD	4	\$45.00 E	\$180.00 1.50 E 6.00
WITH COVER PLATES			
<b>SUB TOTALS</b>			\$9,941.46
			\$9,941.46
<b>OTHER COSTS</b>			
CASS AND TRAVEL		\$65.00 E	\$0.00
DELIVERIES	1	\$45.00 E	\$45.00
TRAVEL TIME (\$0.49/KM)		\$0.43 E	\$0.00
ESA INSPECTION	8	\$33.00 E	\$264.00
RENTALS			\$500.00
<b>LABOUR</b>			
			\$0.00
<b>TOTAL HRS</b>			96.40
WIREMAN			\$74.50 96.40
FOREMAN (10% OF WIREMAN MAN HOURS)			\$82.00 10.00
GENERAL FOREMAN (20 % OF WIREMAN MAN HOURS)			\$88.00 5.00
<b>B TOTAL</b>		<b>MATERIAL / OTHER</b>	<b>LABOUR</b>
O/H		\$10,750.46	\$8,441.80
POSTS	10%	\$1,075.05	
<b>TOTAL</b>		<b>\$11,825.51</b>	<b>\$8,441.80</b>
			\$20,267.31

MSC PROJECT JOB NUMBER	WINDSOR AQUATIC CENTR	DATE:	JANUARY 9/13	
CHANGE ORDER NO.	Co # 18 pcr # 4 R	EST. BY:	JOHNCARLO SALVATORE	
FIELD ORDER NO.				
MSC WORK ORDER NO(S).				
MSC RFC/GBP NO.	RFC # 12-A-REVISED			
DESCRIPTION OF WORK:				
PROVIDE VFD UNIT # 1				
DESCRIPTION	QTY.	MATERIAL	EXTENSION LABOUR EXTENSION	
			\$0.00	0.00
			\$0.00	0.00
#14 600 VOLT 1/C WIRE	8000	\$190.10 M	\$1,520.80	6.00 M 48.00
9463 BELDEN	4000	\$376.03 M	\$1,504.12	16.00 M 64.00
CONTROL TERMINATIONS	80	\$0.50 E	\$40.00	0.20 E 16.00
TERMINATE VFD / MOUNT / WIRE / COMMISS	19		\$0.90	4.00 E 76.00
UNISTRUST FRAME / SUPPORT / BRAKETS	19	\$75.00 E	\$1,425.00	2.00 E 38.00
OFF LOADING	19			1.00 E 19.00
SUPPLIERS SUB-CONTRACTORS COSTS			\$72,538.00	0.00
CLEAN OUT MCC TO ACCOMMODATE VFD WITH COVER PLATES	19	\$45.00 E	\$855.00	1.50 E 28.50
SUB TOTALS			\$77,672.92	
			\$77,672.92	
OTHER COSTS				
CASS AND TRAVEL		\$65.00 E	\$0.00	
DELIVERIES	2	\$45.00 E	\$90.00	
TRAVEL TIME (\$0.49/KM)		\$0.43 E	\$0.00	
ESA INSPECTION	19	\$33.00 E	\$627.00	
RENTALS			\$500.00	
LABOUR				\$0.00
TOTAL HRS				289.50
WIREMAN			\$74.50	289.50
FOREMAN (10% OF WIREMAN MAN HOURS)			\$82.00	29.00
GENERAL FOREMAN ( 20 % OF WIREMAN MAN HOURS)			\$88.00	14.00
G TOTAL		MATERIAL / OTHER		LABOUR
O/H		\$78,889.92	\$25,177.75	
COSTS	10%	\$7,888.99		
TOTAL		\$86,778.91	\$25,177.75	
				\$111,956.66



**NEDCO**  
3040 DEZIEL DRIVE  
WINDSOR, ONT. N8W 5A5  
PHONE 519-974-0099  
FAX 519-974-2877

Hi Don,

We are pleased to provide the following:

ABB Variable Frequency Drives complete with BACnet Protocol, 5% Input Line Impedance, RFI/EMI Filters in a NEMA 12 Enclosure, Output Reactor in a Separate Enclosure, Start-up and Two Years Warranty.

**Price 1**

Quantity	Voltage	Horsepower
1	600	7.5
3	600	10
1	600	15
3	600	20
1	600	25
1	600	30
4	600	50
2	600	60
3	600	75

Our price for the above is: \$ 72,328<sup>00</sup>

**Price 2**

Quantity	Voltage	Horsepower
2	600	7.5
2	600	15

Our price for the above is: \$ 7,933<sup>00</sup>

**Notes:**

- The above prices are in Canadian Funds, Freight allowed, net 30 days, all taxes extra.
- Our offer is valid for 30 days from the date of this quotation.
- We are providing 5% Input Line Impedance to limit the harmonics.
- ADM can conduct a harmonic analysis and provide Harmonic Filters if required, at Extra cost.
- ADM requires 10 working day notice to schedule your start-up assistance.

Regards,