

**Capital
Purchases**



CITY OF NOVI CITY COUNCIL
JUNE 5, 2023

SUBJECT: Approval to purchase a Zamboni 546 ice resurfacer for the Novi Ice Arena from Zamboni Company USA, Inc., a sole source, in the amount of \$109,411.75.

SUBMITTING DEPARTMENT: Parks, Recreation and Cultural Services/Novi Ice Arena

EXPENDITURE REQUIRED	\$109,411.75
AMOUNT BUDGETED	\$110,800 (FY 2023-24 Budget)
APPROPRIATION REQUIRED	\$0
LINE ITEM NUMBER	570-000.00-976.142

BACKGROUND INFORMATION:

City Council approved the purchase of one Zamboni ice resurfacer for Novi Ice Arena in the FY 2023-24 Capital Improvement Program budget to replace an aging 2005 Zamboni 545 unit that has had more than 11,000 hours of use. The 2005 Zamboni 545 will be traded in after July 1, 2023 for \$8,500.00, which will be placed into a Novi Ice Arena revenue account. The new Zamboni will allow ice arena staff to keep the two ice rink surfaces smooth for facility programming and rentals.

The new Zamboni 546 model being recommended for purchase after July 1, 2023 has a 200-gallon capacity ice- making water tank and runs on a Kubota 1.6-litre engine. The Zamboni 546 is engineered to meet or exceed OSHA and ANSI requirements. Purchase includes a 24-month or 2,000-hour parts replacement warranty.

Due to the ceiling height in the location where the machine has to offload the shaved ice, we are limited to purchasing Zamboni machines.

RECOMMENDED ACTION: Approval to purchase a Zamboni 546 ice resurfacer for the Novi Ice Arena from Zamboni Company USA, Inc., a sole source, in the amount of \$109,411.75.

ZAMBONI COMPANY USA, INC.

15714 Colorado Ave. Paramount, CA 90723 USA ☎ +1 562 633 0751 📠 +1 562 633 9365 zamboni.com

May 26, 2023

Kenneth Merriam
Novi Ice Arena
42400 Nick Lidstrom Dr.
Novi, MI 48375



PROPOSAL

“The principal product you have to sell is the ice itself.”

– Frank J. Zamboni

Maintaining an ice surface presents a multitude of challenges. Having efficient and reliable resurfacing equipment should not be one of them. Driven by our founder’s commitment to innovation, we put our product to the test in the harsh environment it will call home. Every feature is deliberately designed to make resurfacing easier and to ensure that the end result is an exceptional sheet of ice. Built by hand. One at a time. The result is an ice resurfacing machine legendary for its quality, durability and superior performance.

MODEL 546:

Proven hydrostatic performance and significant fuel savings provide the industry’s lowest emissions and a cleaner arena environment. An exceptionally efficient 1.6 L engine can be configured for gasoline or propane fuel. On-dash diagnostics with programmed maintenance notifications provide engine performance data on the go. The hydrostatic transmission and powerful double pump for the augers deliver strong conveyor performance at any speed. Our unrivaled down pressure system ensures that all you leave behind is perfect.

INNOVATION:

Our commitment to constant innovation is an investment in the end product. We apply decades of experience working with facility owners and operators into every decision we make. Automated processes provide a consistent end result and reduce the chance for operator error. Opportunities to retrieve and display data from the machine provide a new tool in rink management. The incremental and continued introduction of new and better technologies to our ice resurfacing equipments facilitates savings of time and valuable resources.

QUALITY:

Zamboni sets the standard of quality to which the industry is held. The Zamboni Company holds itself to an even higher standard with ongoing assessment and meticulous quality control, resulting in products which consistently produce the finest sheet of ice even after many years of use. Our rugged four-wheel drive chassis is hand-built using strong all-welded steel tubing. Premium materials and components are

ZAMBONI®

used throughout. We continually collaborate with our customers to ensure the products that will ultimately end up in their facility exceed the high expectations of quality associated with our brand.

VALUE:

Zamboni has a well-deserved reputation as the Industry Leader. One which we don't take for granted. Our products have the lowest cost of operation and maintain the highest residual value. A network of Zamboni Authorized Distributors and our own Customer Service teams provide local service and support for our products. In the world of ice, time is money and unreliable equipment can be a show-stopper. Yet another reason that worldwide, more facility operators choose Zamboni for their ice resurfacing needs. Nothing else is even close.

MACHINE SPECIFICATIONS:

Machine specifications are available online.

MANUFACTURER'S STATEMENT:

This machine is proudly designed and manufactured in Paramount, California by Zamboni Company USA, Inc., a United States company.

WARRANTY:

Twenty-Four (24) months or 2,000 hours, whichever comes first, parts replacement only. Mileage and travel time are not covered under warranty.

SAFETY STANDARDS:

This machine is engineered to meet or exceed OSHA and ANSI safety labeling requirements. In addition to digital safety information, operating instructions and service manuals being provided with the delivery of the machine, all owners/operators have access to all of these materials online at www.zamboni.com to view and download at any time.

FOR ADDITIONAL INFORMATION:

zamboni.com/machines/model-546

zamboni.com/options

Zamboni 546	\$	93,275.00
--------------------	-----------	------------------

3 Way Catalytic Converter, Aluminum Wheels, Black Powder Coated Conditioner, Conditioner Poly Side Plate, Guide Wheel, Lambda Fuel Management System, LPG Low Fuel Light, Parking Brake

ADDITIONAL EQUIPMENT:

Board Brush	\$	6,185.00
Electronic Water Level Sight Gauge	\$	535.00
Integrated Auger Wash Out System	\$	1,325.00
LPG Carburetion (No tanks)	\$	1,400.00
Snow Tank Light	\$	450.00
Stainless Steel Water Distribution Pipe	\$	430.00
Wash Water System w/ Poly Tank	\$	5,175.00
Subtotal	\$	108,775.00
Sourcewell Discount	\$	(-3,263.25)
Transportation	\$	3,900.00
Less Trade-In Zamboni 545-8700	\$	(-8,500.00)
Total	\$	100,911.75

Freight estimated, will be adjusted at time of shipment.

F.O.B:

Paramount, California USA

TERMS:

Net 30 days from date of shipment.

Shipment 500 days or sooner from receipt of order. Pricing firm for 30 days.

Pricing does not include any applicable sales tax.

THANK YOU:



Doug Peters,
Regional Sales Manager

Zamboni Company USA, Inc.

15714 Colorado Ave. Paramount, California 90723 USA
Phone: +1 562 633 0751 Fax: +1 562 633 9365

May 26, 2023

Date



5/10/2023

Jeff Muck,

Via: email

I wanted to follow up on the pre-approval of the purchase of a new Zamboni for the Novi Ice Arena. I have attached the following quotes for two different machines. There are two machines that have been quoted, the first being a propane Zamboni model 546 and the second an electric model 552.

During our process of gathering the information and pricing we explored both propane and electric. After many discussions with both Zamboni and Olympia it is our recommendation to go with the propane Zamboni model 546. The electric we were told would not be the best investment for the facility as the cost to replace batteries and the amount of time our machines are used each day. Replacement of new batteries could cost between \$20,000.00-25,000.00 which would need to be done in about 4-5 years. So, after our discussions with the vendors we feel that the propane unit is the best option.

I have attached both quotes to the letter and email for your reference to get the final approval to place the order. We are in a queue already for the Zamboni but once we give them a firm yes, the process will continue with the purchase.

Thank you for your time,

Jeff Mitchell
General Manager



CITY of NOVI CITY COUNCIL

Agenda Item G
September 26, 2016

SUBJECT: Approval to purchase a Zamboni 546 ice resurfacer for the Novi Ice Arena from Frank J. Zamboni & Co., Inc., a sole source, in the amount of \$98,440.30.

SUBMITTING DEPARTMENT: Parks, Recreation and Cultural Services/Novi Ice Arena

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$ 98,440.30
AMOUNT BUDGETED	\$ 99,000.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	590-000.00-969.006

BACKGROUND INFORMATION: City Council approved the purchase of one Zamboni ice resurfacer for Novi Ice Arena in the FY 2016-17 Capital Improvement Program budget to replace an aging 1998 Zamboni 500 unit that has had more than 8,000 hours of use. The 1998 Zamboni 500 will be traded in for \$16,000, which will be placed into a Novi Ice Arena revenue account. The net cost for the new Zamboni is \$82,440. The new Zamboni will allow ice arena staff to keep the two ice rink surfaces smooth for facility programming and rentals.

The new Zamboni 546 model being recommended for purchase has a 200-gallon capacity ice-making water tank and runs on a Kubota 1.6-litre engine. The Zamboni 546 is engineered to meet or exceed OSHA and ANSI requirements. Purchase includes a 24-month or 2,000-hour parts replacement warranty.

Due to the ceiling height in the location where the machine has to offload the shaved ice, we are limited to purchasing Zamboni machines.

RECOMMENDED ACTION: Approval to purchase a Zamboni 546 ice resurfacer for the Novi Ice Arena from Frank J. Zamboni & Co., Inc., a sole source, in the amount of \$98,440.30.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Burke				
Council Member Casey				

	1	2	Y	N
Council Member Markham				
Council Member Mutch				
Council Member Wrobel				

June 15, 2016

Kris Barnes
Novi Ice Arena
42400 Nick Lidstrom Drive
Novi, MI 48375

PROPOSAL

MODEL: **Zamboni 546**

QUANTITY: **One (1)**

CAPACITY: **Full Size**

- Snow Tank
100 cubic feet (actual volume)
120 cubic feet (compacted)
- Ice Making Water Tank
Constructed of High Density Polyethylene
200 U.S. gallons
Wash Water System (optional)
Constructed of High Density Polyethylene
82 U.S. gallons
Total Water Capacity
282 U.S. gallons

ENGINE: **Kubota 1.6 Litre**

- Four cylinder, 57 HP, 16 valve double overhead cam, 88 ft. lbs of torque, hydraulic valve lifters, liquid cooled
- Timing belt with automatic belt tensioners, 5 main bearings, full-flow oil filter system for long life and ease of maintenance
- Advanced electronic ignition system
- Meets or exceeds CARB/EPA 2012 standards
- Fuel choices LPG or Gasoline
- Load sensing electronic governor enables true "hands-free" engine operation by driver
- On-board engine diagnostic system with fault code readout via dash lamp or diagnostic computer

TRANSMISSION: Sauer-Danfoss Hydrostatic Pump and Motor

- Continuously variable pump and motor and axial piston-type and offer volumetric efficiencies as high as 95%.
- Maximum drawbar pull even at low speeds and full hydrodynamic braking.
- Allows the use of a smaller and more efficient engine while still providing superior on-ice power.
- Hydrostat enables the conveyor augers to operate at full speed, regardless of vehicle speed, even when slowing for corners.

DRIVETRAIN: Dana/Spicer Axles

Model 44 Front-rated 4,300 lb.

Model 60 Rear-rated 6,400 lb.

- Rear axle is a rigid full-float design
- Because the 546 uses Spicer/Dana axles that are optimized for our chassis, we offer the industry's highest manufacturer approved axle capacities.
- Our chassis/axle combination is the key to the Zamboni 546 having a turning radius of 16 feet. This is a full 3 feet tighter than most other machines.

Hub City Transfer Case

- Rugged cast iron housing for rigid gear and bearing support. Heat-treated alloy steel gears are helical cut for greater strength and lower noise.
- Hydrostatic motor is wet-mounted to housing for long shaft life.

Chassis

- 2" X 5" structural steel tubing for high strength and long service.

HYDRAULICS: Sauer-Danfoss Turolla Pump and Permco Motors

- High efficiency gear type double pump has separate pump sections for vertical and horizontal augers for the best conveyor performance in the industry. Priority flow divider provides steering circuit.
- Pump is directly mounted to the engine for trouble free service. No belts or pulleys.
- Motors are high efficiency gear type with cast-iron bodies and case drain.

HYDRAULICS:

- Hydrostatic transmission features loop flushing which provides fresh fluid from tank to hydrostat for enhanced performance and cooler operating temperature.

Filtration and Tank

- Two hydraulic filters (1) 20 micron return line and (1) 10 micron hydrostatic charge loop, ensure a clean environment for all hydraulic components.
- Large 21-gallon tank enhances hydraulic fluid travel to rid the oil of entrapped air and increase heat dissipation.

**SNOW TANK
AND AUGERS**

- Large snow capacity and a tank design that provides all areas of the tank to be completely filled, even the top rear corners.
- The 546's snow tank incorporates a smooth bottom and sides, allowing for the snow to slide out with the least amount of residue and at a much lower height.
- Both 10-inch large diameter augers are double-flighted to ensure good performance even during heavy shaving and the augers are teflon coated for durability.

CONDITIONER:

- Zamboni Ice Resurfacers have a well-deserved reputation for producing the finest sheet of ice, even after many years of being in use.
- A unique and patented design of spring and hydraulic down pressure is used for superior shaving results.
- Performance will continue for the life of the machine by using replaceable bushings and springs.

HUMAN**ENGINEERING:**

- The operation of the 546 is very simple. The operator sets the engine speed with the "hands-free" governor and drives the machine with a foot control. However, unlike an automotive transmission, the 546 will provide full power and speed to the augers at all times, even while slowing for corners. And the 546 will ensure the snow tank is compacted and completely filled.
- Speed is controlled by the single foot pedal equipped with a "dead-man" safety feature to dynamically brake the vehicle to a stop if the operator's foot leaves the pedal.
- Operator compartment ergonomically designed including steering wheel with a spinner knob.

HUMAN

- ENGINEERING:**
- Engine and hydraulic compartment is easily accessed through both side doors for daily maintenance checks, even with the snow tank down.
 - Wiring and looms are well routed and protected. Wires are individually labelled for easier service and trouble-shooting.

FACILITY

- ENGINEERING:**
- Zamboni Ice Resurfacers offer unparalleled shaving and snow conveyor performance. A quality sheet of ice is among an arena's primary selling features.
 - Zamboni has the tightest turning radius in the industry, enabling operators to resurface deeper into their corners.
 - The snow tank on the 546 is designed in an enlarged package with a flat bottom and sides. This gives the 546 a low front-dumping height. This is important for both dumping indoors as well as outdoors in adverse conditions.
 - Our unique engine and hydrostatic transmission enables the 546 to use a smaller, more efficient engine and can provide significant fuel savings.
 - Industry Reports have recommended that arena ventilation be determined by horsepower of the ice resurfer, which is over half of larger engines used in the competitor's machine. This can translate to considerable energy and facility savings.

MANUFACTURER'S

STATEMENT: The 546 is proudly designed and manufactured by Frank J. Zamboni & Co., Inc., in the United States of America.

WARRANTY: Twenty four (24) months or 2,000 hours, parts replacement only.

SAFETY

STANDARDS: The 546 is engineered to meet or exceed O.S.H.A. and A.N.S.I. safety labelling requirements.

FRANK J. ZAMBONI & CO., INC.

15714 Colorado Avenue
Paramount, CA 90723-0770
Phone (562) 633-0751
Fax (562) 633-9365
www.zamboni.com

PRICE **Zamboni 546** \$ 98,440.30
INCLUDES:

- LPG Carburetion (No Tanks)
- Board Brush
- 3 Way Catalytic Converter
- Lambda Fuel Mgmt. System
- Chrome Wheels
- Wash Water System w/ Poly Tank
- Black Powder Coated Conditioner
- Conditioner Poly Side Plate
- Parking Brake
- LPG Low Fuel Light
- Snow Tank Light
- Auto Snow Breaker
- Stainless Steel Water Distribution Pipe
- Transportation to Novi, MI

Less Trade In: Zamboni 500-6224 (\$16,000.00)

F.O.B.: Paramount, CA

TERMS: Net 30 days on approved credit.
Shipment 225 days or sooner from receipt of order.
Pricing firm for 30 days.
Pricing does not include any applicable sales tax.

THANK YOU:



Doug Peters
Regional Sales Manager

6/15/16
Date

Frank J. Zamboni & Co., Inc.
15714 Colorado Avenue
Paramount, CA 90723
Phone: (562) 633-0751
Fax: (562) 633-9365

Proposal Page 5

ZAMBONI®

Zamboni Replacement Pictures



Picture of the profile of the 1998 Model 500 Zamboni Ice Resurfacing Machine



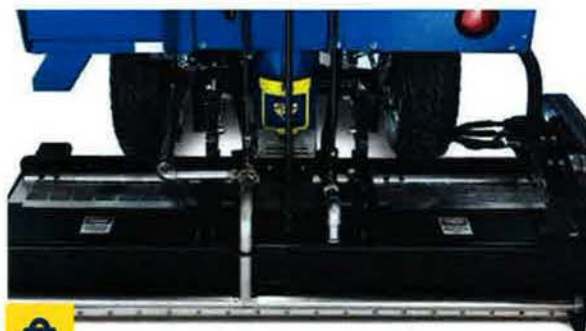
Picture of the front end of the 1998 Model 500 Zamboni Ice Resurfacing Machine



THE PERFECT BALANCE OF POWER AND EFFICIENCY

The clear choice for proven hydrostatic performance and significant fuel savings resulting in the industry's lowest emissions and a cleaner arena environment.

**MODEL
546**



Industry-leading fuel economy, reduced emissions and the lowest cost of operation for significant savings



Ease of operation with familiar automobile style controls and gauges



Exceptional results from our unrivaled down pressure system

MODEL 546



This brochure has been prepared only as a general guide for the customer. Every effort has been made to assure that the information presented is correct. Some features described or shown may be optional at extra cost. Prices, colors, materials, specifications and models are subject to change. For current product information, please contact the Zamboni Company.



POWER AND EFFICIENCY

The compact 1.6 L high output engine can be configured for gasoline or propane. On-board diagnostics with programmed oil change and maintenance intervals.



TRANSMISSION

Continuously variable hydrostatic pump and motor are axial-piston type, providing superior on-ice power with maximum drawbar pull. Full hydrodynamic braking.



DRIVETRAIN

Four-wheel drive. Rugged Dana Spicer® axles combine with an innovative hydrostatic transmission, providing the most reliable drivetrain in the industry.



HYDRAULICS

Efficient double pump delivers full power and speed to the augers, even while the machine slows for corners. Easy to access high quality, low maintenance filters.



CONSTRUCTION

Robust hand-welded steel tubing chassis. Premium primer/paint and rust-free poly water tanks for corrosion resistance in the harsh environment it will call home.



GLOBAL SERVICE AND SUPPORT

Zamboni Customer Service and a network of Zamboni Authorized Distributors provide exceptional and accessible service and support worldwide.

ZAMBONI

zamboni.com

ZAMBONI and the configuration of the Zamboni® ice resurfacing machine are registered trademarks of Frank J. Zamboni & Co., Inc.
© Zamboni 2016

WHY FACILITY OPERATORS CHOOSE **ZAMBONI**

**MODEL
546**

1

★★★★★
**50
YEARS**
★★★★★

OF PROVEN

DRIVETRAIN AND HYDROSTATIC PERFORMANCE

Five decades ago, Zamboni introduced the hydrostatic transmission to the world of ice resurfacing. Recognized as the most reliable drivetrain in the industry, our hydrostatic technology affords industry-leading fuel economy and the lowest emissions.

2

34% MORE POWER
per liter than leading competitor

31.0 HP/L
23.1 kW/L
**ZAMBONI
MODEL 546**

18.6 HP/L
13.9 kW/L
OTHERS

Highest power density in a compact engine package. Maximum power delivered to components when and where it is needed.

3

BEST VALUE RETENTION



The highest residual value speaks to the quality of each machine's construction and durability. Easy to maintain and service with simplicity by design. The industry's lowest cost of operation is yet another reason why Zamboni remains the leader.

4

COMMITMENT TO QUALITY

Our machines are built by hand, one at a time. We continually challenge our product, putting it to the test in the harsh environment it will call home. With machines designed for the needs of facilities large and small; recreational and professional:

**ZAMBONI IS
THE CLEAR CHOICE.**



**Maintenance Projects
(Over \$50,000)
2010 - 2025**



CITY OF NOVI CITY COUNCIL
SEPTEMBER 9, 2024

SUBJECT: Consideration of approval to award the contract to Long Mechanical, the low bidder, for Novi Ice Arena replacement of existing HVAC units in the amount of \$733,560 and amend the budget.

SUBMITTING DEPARTMENT: Parks, Recreation & Cultural Services

KEY HIGHLIGHTS:

- Replacement of the original (1998) Novi Ice Arena HVAC units is necessary due to age and mechanical failures.
- The project scope consists of replacement of the dehumidification unit, locker room make up air unit and a pair of duct furnaces serving the ice rinks.
- The project will require a 2-week shutdown to complete repairs in spring 2025.

	FY 23/24	FY 24/25	Total
EXPENDITURE REQUIRED	\$ 0	\$ 733,560	\$ 733,560
BUDGET			
1. Dehumidification project rollover into FY 2024-2025 (570-000.00-976.221)	\$ 167,505	\$ 167,505	\$ 167,505
2. HVAC Replacement (570-000.00-976.221)	\$	\$ 0	\$
APPROPRIATION REQUIRED	\$	\$ 566,055	\$ 566,055
FUND BALANCE IMPACT	\$	\$ (566,055)	\$ (566,055)
• 20% contingency is included in expenditure requirement • Use of fund balance/reserves of \$566,055. • Current balance of reserves is just over \$900,000			

BACKGROUND INFORMATION:

The City of Novi accepted proposals from qualified firms for the replacement of existing HVAC units at the Novi Ice Arena, located at 42400 Nick Lindstrom Dr, Novi, MI 48375.

The project includes demo and disposal of old units, all gas and electrical connections, delivery and rigging of new equipment, new duct work, and all required permits.

Long Mechanical was the lowest responsible bidder for this project. Long Mechanical has satisfactorily completed similar scale projects for southeast Michigan facilities. Long Mechanical provided a voluntary alternate in the amount of \$11,300 for the replacement of the entire roof of the mechanical area roof. Staff and our consultant, OHM Advisors recommends award of this contract and accepting the voluntary alternate to Long Mechanical in the amount of \$611,300 for the project. Staff is also recommending a 20% contingency be approved for unanticipated expenses that may occur during the project. The City's previously budgeted project of the replacement of dehumidification units will be rolled over to assist with the costs of the HVAC replacement. The rollover amount is \$167,505.

It is important to note, the Ice Arena's last debt service payment was made during fiscal year 2024. The Ice Arena is now debt free. Annual debt service payments were approximately \$500,000.

RECOMMENDED ACTION: Consideration of approval to award the contract to Long Mechanical, the low bidder, for Novi Ice Arena replacement of existing HVAC units in the amount of \$733,560 and amend the budget.

RESOLUTION

NOW, THEREFORE BE IT RESOLVED that the following
Budget Amendment for the HVAC replacement is authorized:

	INCREASE (DECREASE)
Ice Arena Fund	
APPROPRIATIONS	
Capital Outlay	566,055
TOTAL APPROPRIATIONS	\$ 566,055
Net Increase (Decrease) to Fund Balance	\$ (566,055)

I hereby certify that the foregoing is a true and complete copy of a
resolution adopted by the City Council of the City of Novi
at a regular meeting held on September 9, 2024.

Cortney Hanson
City Clerk

August 28, 2024

Jeffrey Muck, CPRP
Director
City of Novi, Parks, Recreation & Cultural Services
45175 Ten Mile Rd Novi, MI 48375

RE: Novi Ice Arena HVAC Replacement
Recommendation of Award

Dear Mr. Jeffrey Muck:

Sealed bids for the Ice Arena HVAC Replacement Project were received and publicly read aloud on Monday, August 26, 2024 at the Finance Department, at 2:00 pm. Proposals were received by the City from three (3) bidders. We have reviewed and checked the bids, and attached the Bid Tabulation for your information. The lowest three bidders are as follows:

Contractor	TOTAL BID
Long Mechanical	\$600,000
Serv-Ice	\$820,000
Technical Hot Cold	\$1,060,550

The project scope consists of replacement of the dehumidification unit, locker room make up air unit and a pair of duct furnaces serving the ice rinks.

Based on the current bidding environment and nationwide inflation, we are satisfied with the bid results. We reached out to other bidders that did show interest in completion of the project. The bid spread can be explained by Long Mechanical self performing approximately 80% of the work while others are subcontracting and including a markup.

Long Mechanical is the apparent lowest responsible bidder for this project. Long Mechanical has satisfactorily completed similar scale projects for southeast Michigan facilities. Long mechanical provided a voluntary alternate in the amount of \$11,300 for the replacement of the entire roof of the mechanical area roof. Therefore, we recommend award of this contract and accepting the voluntary alternate to Long Mechanical in the amount of **\$611,300** for the project.

If you have any questions, please do not hesitate to call me at (989) 928-5911

Sincerely,
OHM Advisors



Sean A. Tabacsko
Project Manager
Encl: Bid Tabulation

cc: Tim Juidici, P.E., OHM



City of Novi
Ice Arena HVAC Replacement
BID TABULATION SHEET
August 26, 2024

Contractor	BOND	ADDENDUM 1	ADDENDUM 2	ADDENDUM 3	Base Bid	Comments
Serv-Ice	X	X	X	X	\$820,000	
Long Mechanical	X				\$600,000	Missing Acknowledgement of Addendums
Technical Hot Cold		X	X	X	\$1,060,550	Missing Bid Bond

FW: Post bid interview - Novi Ice Arena

Jim Long <jlong@longmechanical.com>

Fri 8/30/2024 1:51 PM

To: Sean Tabacsko <Sean.Tabacsko@ohm-advisors.com>

Cc: Chad Neuer <cneuer@longmechanical.com>; Jim Ballantine <jballantine@longmechanical.com>; Allison Long <along@longmechanical.com>

 3 attachments (755 KB)

Addendum 1 Novi Ice Arena.pdf; Addendum 2 Novi Ice Arena.pdf; Novi Ice Arena_Addendum 3_Issued_240821.pdf;

You don't often get email from jlong@longmechanical.com. [Learn why this is important](#)**This Message originated outside your organization.**

Sean,

We enjoyed the meeting also.

Please note that our base bid is not affected by the three attached addendums you sent.

Also to note is that we are a Certified WBE.

We discussed adverse weather and liquidated damages. Will there be something within our contract that will address this item.

Please let us know if you need anything else.

Jim Long

Office: 248-349-0373

Cell: 248-330-5201

www.longmechanical.com

From: Sean Tabacsko <Sean.Tabacsko@ohm-advisors.com>**Sent:** Friday, August 30, 2024 10:53 AM**To:** Jim Long <jlong@longmechanical.com>**Cc:** Jim Long <jlong@longmechanical.com>**Subject:** Re: Post bid interview - Novi Ice Arena

See attached Addendums. Pleasure meeting with you and your team this morning.

 **SEAN TABACSKO | OHM Advisors®**
SENIOR PROJECT MANAGER**D** (989) 393-1717 | **M** (989) 928-5911 | **O** (989) 956-2020

Sean.Tabacsko@ohm-advisors.com | [OHM-Advisors.com](https://ohm-advisors.com)

From: Sean Tabacsko

Sent: Tuesday, August 27, 2024 1:38 PM

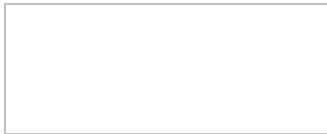
To: Sean Tabacsko <Sean.Tabacsko@ohm-advisors.com>; Jrlong@longmechanical.com
<Jrlong@longmechanical.com>

Cc: Jim Long <jlong@longmechanical.com>

Subject: Post bid interview - Novi Ice Arena

When: Friday, August 30, 2024 10:30 AM-11:00 AM.

Where: <https://ohm-advisors.zoom.us/j/94969901043?pwd=SQsjXDt9AJZ3npdFuu1VtmxpOu2oJl.1&from=addon>



Hi there,

Sean Tabacsko is inviting you to a scheduled Zoom meeting.

[Join Zoom Meeting](#)

Password: 870056

Phone one-tap: [+13126266799](tel:+13126266799), [94969901043](tel:+194969901043)#

Meeting URL: [https://ohm-advisors.zoom.us/j/94969901043?
pwd=SQsjXDt9AJZ3npdFuu1VtmxpOu2oJl.1&from=addon](https://ohm-advisors.zoom.us/j/94969901043?pwd=SQsjXDt9AJZ3npdFuu1VtmxpOu2oJl.1&from=addon)

Join by Telephone

For higher quality, dial a number based on your current location.

Dial: +1 312 626 6799

Meeting ID: 949 6990 1043

Password: 870056

DOCUMENT 00 41 13 - BID FORM - STIPULATED SUM (SINGLE-PRIME CONTRACT)

1.1 BID INFORMATION

- A. Bidder: Long Mechanical
- B. Project Name: Novi Ice Arena HVAC Replacement.
- C. Project Location: 42400 Nick Lidstrom Drive, Novi, Michigan, 48375.
- D. Owner: City of Novi.
- E. Architect: OHM Advisors.
- F. Architect Project Number: 0163-24-0020.

1.2 CERTIFICATIONS AND BASE BID

- A. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by OHM Advisors and Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of:
1. Six Hundred Thousand Dollars Dollars (\$ 600,000.00).

1.3 BID GUARANTEE

- A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within 10 days after a written Notice of Award, if offered within 60 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Base Bid amount above:
1. Eleven Thousand Seven Hundred Dollars Dollars (\$ 11,700.00).
- B. In the event Owner does not offer Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.4 SUBCONTRACTORS AND SUPPLIERS

- A. The following companies shall execute subcontracts for the portions of the Work indicated:
1. Roofing Work: Roof Management
2. Plumbing Work: Long Mechanical
3. HVAC Work: Long Mechanical
4. Electrical Work: Automated Energy Controls

1.5 TIME OF COMPLETION

- A. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Architect, and shall fully complete the Work by June 8, 2025.

City of Novi
Novi Ice Arena HVAC Replacement
OHM PROJECT # 0163-24-0021

BID FORM - STIPULATED SUM (SINGLE-PRIME
CONTRACT)
00 41 13 - Page 1 of 2
07/15/2024

1.6 ACKNOWLEDGEMENT OF ADDENDA

- A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated _____
2. Addendum No. 2, dated _____
3. Addendum No. 3, dated _____
4. Addendum No. 4, dated _____

None

1.7 BID SUPPLEMENTS

- A. The following supplements are a part of this Bid Form and are attached hereto.

1. Bid Form Supplement - Bid Bond Form (AIA Document A310-2010).

1.8 CONTRACTOR'S LICENSE

- A. The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in City of Novi, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.

1.9 SUBMISSION OF BID

- A. Respectfully submitted this 26th day of August, 2024.

- B. Submitted By: Long Mechanical (Name of bidding firm or corporation).

- C. Authorized Signature: _____ (Handwritten signature).

- D. Signed By: JAMES R. LONG (Type or print name).

- E. Title: SECRETARY (Owner/Partner/President/Vice President).

- F. Witnessed By: Chad Newmyer (Handwritten signature).

- G. Attest: _____ (Handwritten signature).

- H. By: ALLISON LONG (Type or print name).

- I. Title: PRESIDENT (Corporate Secretary or Assistant Secretary).

- J. Street Address: 190 E. Main

- K. City, State, Zip: Northville, MI 48167

- L. Phone: 248-349-0373

- M. License No.: 7104573

- N. Federal ID No.: 38-1897840 (Affix Corporate Seal Here).

END OF DOCUMENT 00 41 13

City of Novi
Novi Ice Arena HVAC Replacement
OHM PROJECT # 0163-24-0021

BID FORM - STIPULATED SUM (SINGLE-PRIME
CONTRACT)

00 41 13 - Page 2 of 2

07/15/2024



190 East Main Street · Northville, MI 48167 · (248) 349-0373 · fax: (248) 349-3869

NOVI ICE ARENA HVAC REPLACEMENT

Voluntary Alternate

Completely replace existing roof with 20 year 50 mil Duro-Last roof.

Add To Base Bid: \$11,300.00

THE AMERICAN INSTITUTE OF ARCHITECTS

AIA Document A310 - MODIFIED

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we
Long Mechanical Inc
190 East Main Street, Northville, MI 48167
as Principal, hereinafter called the Principal, and
Hartford Fire Insurance Company
One Hartford Plaza, Hartford, CT 06155-0001
a corporation duly organized under the laws of the State of Connecticut
as Surety, hereinafter called the Surety, are held and firmly bound unto
City of Novi
45175 W. Ten Mile Road, Novi, MI 48375-3024
as Oblige, hereinafter called the Oblige, in the sum of

Five Percent (5%) of Amount Bid Dollars (5%),
for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind
ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by
these presents.

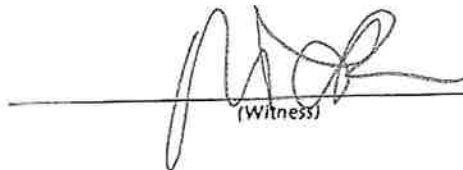
WHEREAS, the Principal has submitted a bid for

Novi Ice Arena HVAC Replacement - Replace Rooftop Equipment

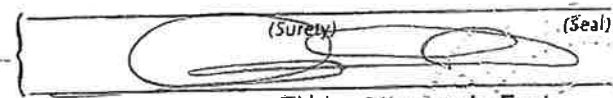
NOW, THEREFORE, if the Oblige shall accept the bid of the Principal and the Principal shall enter into a Contract
with the Oblige in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding mutually acceptable
to the Surety and Oblige with good and sufficient surety for the faithful performance of such Contract and for the prompt
payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter
such Contract and give such bond or bonds, if the Principal shall pay to the Oblige the difference not to exceed the penalty
hereof between the amount specified in said bid and such larger amount for which the Oblige may in good faith contract
with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain
in full force and effect.

Signed and sealed this 26th day of August, 2024


(Witness)


(Witness)

Long Mechanical Inc
 (Principal) (Seal)
(Title) V. PRESIDENT
Hartford Fire Insurance Company

 (Surety) (Seal)
Susan L. Small (Title) Attorney-In-Fact



POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD

BOND, T-11

One Hartford Plaza

Hartford, Connecticut 06155

Bond.Claims@thehartford.com

call: 888-266-3488 or fax: 860-757-5835

KNOW ALL PERSONS BY THESE PRESENTS THAT:

Agency Name: VTC INSURANCE GROUP
Agency Code: 35-351225

- | | |
|-------------------------------------|--|
| ☒ | Hartford Fire Insurance Company, a corporation duly organized under the laws of the State of Connecticut |
| ☒ | Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana |
| ☒ | Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut |
| ☐ | Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut |
| ☐ | Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana |
| ☐ | Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois |
| ☐ | Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana |
| ☐ | Hartford Insurance Company of the Southeast, a corporation duly organized under the laws of the State of Florida |

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, up to the amount of Unlimited:

Jeffrey A. Chandler, Alan P. Chandler, Ian J. Donald, Bryan Forman, Wendy L. Hingson, Kathleen M. Ireland, Megan L. Reynolds, Susan L. Small, Robert Trobec, T.L. Young of TROY, Michigan

their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign its name as surety(ies) only as delineated above by ☒, and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on May 23, 2016 the Companies have caused these presents to be signed by its Assistant Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



Shelby Wiggins

Shelby Wiggins, Assistant Secretary

Joelle L. LaPierre

Joelle L. LaPierre, Assistant Vice President

STATE OF FLORIDA

COUNTY OF SEMINOLE

ss. Lake Mary

On this 20th day of 11th month, 2021, before me personally came Joelle LaPierre, to me known, who being by me duly sworn, did depose and say: that (s)he resides in Seminole County, State of Florida; that (s)he is the Assistant Vice President of the Companies, the corporations described in and which executed the above instrument; that (s)he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that (s)he signed his/her name thereto by like authority.



Jessica Ciccone

Jessica Ciccone
My Commission HH 122280
Expires June 20, 2025

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of August 26th, 2024.

Signed and sealed in Lake Mary, Florida.



Keith D. Dozois

Keith D. Dozois, Assistant Vice President

Rec'd T. Marzanie 8/26/24 1:50 PM

LONG MECHANICAL
190 E. MAIN STREET
NORTHVILLE, MICHIGAN 48167-1692

TO:

SEALED PROPOSAL ENCLOSED
Novi Ice Arena HVAC Replacement
City of Novi Finance Dept.
45175 Ten Mile Rd
Novi, MI 48375



POST BID ADDENDUM 1

DATE: September 3, 2024

PROJECT: Novi Ice Arena HVAC Replacement

OWNER: City of Novi

The following shall be incorporated into the Contract Documents dated 2024 July 15

GENERAL

The liquidated damages clause shall not apply to roofing delays due to weather.

PROJECT MANUAL

DRAWINGS

QUESTIONS

End of Post Bid Addendum No. 1



CITY of NOVI CITY COUNCIL

Agenda Item E

June 17, 2019

SUBJECT: Approval to award the Novi Ice Arena HVAC Energy Management System Upgrade to L.J. Rolls Refrigeration, the low bidder, in the amount of \$75,400.

SUBMITTING DEPARTMENT:

CITY MANAGER APPROVAL: *PA*

EXPENDITURE REQUIRED	\$ 75,400
AMOUNT BUDGETED	\$ 85,000 (FY 2019-2020 Budget)
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	590-000.00-969.014

BACKGROUND INFORMATION:

A Capital Needs Assessment was conducted on the Novi Ice Arena in 2018. The report determined the existing building energy management system is obsolete. The current system is run through a computer with a floppy disk drive, dating it as potentially 20-25 years old.

Ice Arena Management staff acquired quotes to replace the existing system with a more inclusive Internet accessible system that will manage the building's heating, ventilation and air-conditioning. A new model will operate more efficiently, saving on utility costs and allowing for programmable usage timers. The project specifications were written in order to provide a product that is consistent with other Building Management Systems throughout City-owned facilities.

The project will replace the existing Trane building control system. A new Honeywell building automation system that includes a Niagara 4 JACE 8000 network controller will be installed. All Trane controls, including the BCU network controller, will be removed and disposed of by the contractor. The contractor will fully commission the system and provide as-built drawings before receiving final payment. Work will begin after July 1, 2019.

Two bids were received on May 30 and reviewed by Ice Arena, PRCS and Facilities Management staff. Staff is recommending approval of the award to the low bidder, L.J. Rolls Refrigeration.

RECOMMENDED ACTION: Approval to award the Novi Ice Arena HVAC Energy Management System Upgrade to L.J. Rolls Refrigeration, the low bidder, in the amount of \$75,400.



CITY OF NOVI
NOVI ICE ARENA HVAC CONTROL SYSTEM
BID FORM

We, the undersigned as bidder, propose to furnish to the City of Novi, according to the specifications, terms, conditions and instructions attached hereto and made a part thereof:

A. HVAC Control System, provide & install as specified

\$ 75,400.00 Lump Sum

Make/Model Honeywell Spyder BACnet, Tridium Niagara 4 JACE controllers

Lead time for Equipment/Materials Two weeks

Guaranteed job completion date With start date of July 1, 10 weeks

Warranty One year parts and installation warranty

B. SERVICE AGREEMENT

Year 2 \$ 1,200

Year 3 \$ 1,200

Year 4 \$ 1,200

We acknowledge receipt of the following Addenda: #1 Dated May 22, 2019
(please indicate numbers)

EXCEPTIONS TO SPECIFICATIONS (all exceptions must be noted here or attached on a separate sheet):

No exceptions taken

COMMENTS: _____

NON-IRAN LINKED BUSINESS

By signing below, I certify and agree on behalf of myself and the company submitting this proposal the following: (1) that I am duly authorized to legally bind the company submitting this proposal; and (2) that the company submitting this proposal is not an "Iran linked business," as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, being Michigan Public Act No. 517 of 2012; and (3) That I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the City in this regard.

THIS BID SUBMITTED BY:

Company (Legal Registration) L.J. Rolls Refrigeration Co.

Address 1490 Torrey Rd

City Fenton State MI Zip 48430

Telephone 810-629-7752 Fax 810-629-3616

Representative's Name Erich Ross

Representative's Title Estimator / Project Manager

Authorized Signature 

E-mail eross@ljrolls.com

Date 5/30/2019



CITY OF NOVI

CONTRACTOR QUALIFICATIONS QUESTIONNAIRE

NOVI ICE ARENA HVAC CONTROL SYSTEM



Failure to answer all questions could result in rejection of your proposal.

Name of Firm L.J. Rolls Refrigeration
Address: 1490 Torrey Rd
City, State Zip Fenton, MI 48430
Telephone 810-629-7752 Fax 810-629-3616
Mobile _____
Agent's Name (please print) Erich Ross
Agent's Title Estimator / Project Manager
Email Address: Eross@ljrolls.com
Website LJRolls.com

1. Organizational structure: Corporation, Partnership, etc. Corporation
2. Firm established: 1994 Years in business: 25
3. Has your firm filed for Chapter 7 or Chapter 11 within the last ten (10) years?
No X Yes _____ Reason: _____
4. Under what other or former names has your organization operated?
None
5. How many full time employees? 45 Part time? 0
6. Are you able to provide insurance coverage as required by this bid? Yes
7. 24/7 Emergency Telephone Number 810-629-7752
8. Provide your procedure for handling night & weekend calls
We respond as quick as humanly possible, if the call is billable it will be done so on an overtime rate.
9. List the scope of services (type of work) you are able to perform.
Design build HVACR systems, Plan spec builds of HVACR systems
Service of all HVACR systems, Refrigeration service and install,
Ammonia Service and install

10. List any professional licenses/certifications you/your employees have obtained that would be applicable to this contract.

Hold Mechanical Contracting licensing in Michigan, Ohio, Kentucky, Georgia,
Alabama, Louisiana, Texas, Arkansas, Wisconsin, Illinois, Indiana, as well as
the reciprocating states

Member of ASHRA, NAWIC, WHVACR

11. Please indicate brands of HVAC equipment you are authorized service technicians for.

Any and All

12. Provide a list of employees and all other professional staff to be assigned to this contract. Include name, title, license number, years of experience, full/part time, on-call availability, qualifications, and experience.

Erich Ross / Project manager / would staff and run the project / full time

Eric Klammer / Controls engineer / would make final connection and programming / full time

Forrest Jacobs / Electrician / to pull wire and install conduit if needed / full time

Patric Smith / Service Tech / would provide a hand where needed / full time

13. List equipment, tools and all other resources available to your firm to perform this contract:

Too many to list, any and all tools required to complete the project.

14. Provide a list of all open contracts your company currently holds. Include contact name, organization, type, size, required date of completion, percentage of completion, value of contract.

HTI / Design build / 27,400 sq/ft two story office 160,000 sq/ft warehouse /

LTU / Plan and spec / 6,400 single story office renovation

Royal Oak Orthopedic Vascular Institute of Michigan / Plan and spec/ 28,500
sq/ft two story Hospital

Giffin / Design build / 21,200 sq/ft two story office 87,400 sq/ft warehouse /

15. **References:** Provide at least three (3) references for projects that are comparable in scope to this bid. Several references from municipalities would be desirable.

Company Frank Rewold and Sons

Address 303 East Third St, Rochester, MI 48307

Phone 248-601-1242 Contact name Adam Gut

Company JB Donaldson

Address 37610 Hills Tech Dr, Farmington Hills, MI 48331

Phone 248-334-9045 Contact name Scott Kreutzer

Company The Alan Group

Address 1800 Brinston Dr, Troy, MI 48083

Phone 248-298-0100 Contact name Richard Scheck

16. Claims & Suits: Does your firm have any litigation pending or outstanding against your organization or its officers? If yes, please provide details.

No X Yes _____

17. Provide any additional information you would like to include which may not be included within this Questionnaire. You may attach additional sheets.

THE FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS:

Signature of Authorized Company Representative: 

Representative's Name (please print) Erich Ross

Date 5/30/2019

THE AMERICAN INSTITUTE OF ARCHITECTS



AIA Document A310

Bid Bond

KNOW ALL MEN BY THESE PRESENTS, that we

L.J. Rolls Refrigeration Co.
1490 Torrey Road, Fenton, MI 48430

as Principal, hereinafter called Principal, and

Old Republic Insurance Company
P.O. Box 789, Greensburg, PA 15601-0789

a corporation duly organized under the laws of the State of **Pennsylvania**
as Surety, hereinafter called Surety, are held and firmly bound unto

City of Novi
45175 West Ten Mile Road, Novi, MI 48375

as Obligee, hereinafter called Obligee, in the sum of **Five Percent of Accompanying Bid**

Dollars **(5% of Bid)**
for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for (Here insert full name, address and description of project)

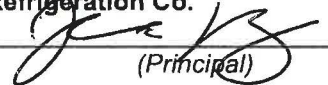
Novi Ice Arena HVAC Control System

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall enter into a Contract with the Obligee in accordance with the terms of such bid, and give such bond or bonds as may be specified in the bidding or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract and give such bond or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed and sealed this 30th day of May, 2019.

L.J. Rolls Refrigeration Co.

(Witness)


(Principal) (Seal)
PRESIDENT
(Title)

Old Republic Insurance Company

(Witness)


(Surety) (Seal)
(Title)
Nicholas Ashburn, Attorney in Fact



OLD REPUBLIC INSURANCE COMPANY

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That OLD REPUBLIC INSURANCE COMPANY, a Pennsylvania stock insurance corporation, does make, constitute and appoint:

MICHAEL D LECHNER, ROBERT D HEUER, MARK T MADDEN, HOLLY A NICHOLS, NICHOLAS ASHBURN, JASON ROGERS, OF TROY, MI

its true and lawful Attorney(s)-in-Fact, with full power and authority, not exceeding \$50,000,000, for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto (if a seal is required), bonds, undertakings, recognizances or other written obligations in the nature thereof, (other than self-insurance workers compensation bonds guaranteeing payment of benefits, asbestos abatement contract bonds, waste management bonds, hazardous waste remediation bonds or black lung bonds), as follows:

**ALL WRITTEN INSTRUMENTS IN AN AMOUNT NOT TO EXCEED
SIX MILLION DOLLARS(\$6,000,000)----- FOR ANY SINGLE OBLIGATION.**

and to bind OLD REPUBLIC INSURANCE COMPANY thereby, and all of the acts of said Attorneys-in-Fact, pursuant to these presents, are ratified and confirmed. This document is not valid unless printed on colored background and is multi-colored. This appointment is made under and by authority of the board of directors at a meeting held on March 14, 2014. This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of the OLD REPUBLIC INSURANCE COMPANY on March 14, 2014.

RESOLVED FURTHER, that the chairman, president or any vice president of the Company's surety division, in conjunction with the secretary or any assistant secretary of the Company, be and hereby are authorized and directed to execute and deliver, to such persons as such officers of the Company may deem appropriate, Powers of Attorney in the form presented to and attached to the minutes of this meeting, authorizing such persons to execute and deliver and affix the seal of the Company to bonds, undertakings, recognizances, and suretyship obligations of all kinds, other than bail bonds, bank depository bonds, mortgage deficiency bonds, mortgage guaranty bonds, guarantees of installment paper and note guaranty bonds. The said officers may revoke any Power of Attorney previously granted to any such person. The authority of any Power of Attorney granted by any such officer of the Company as aforesaid shall not exceed fifty million dollars (\$50,000,000.00), except (a) bonds required to be filed as open penalty bonds, and (b) bonds filed with any court or governmental authority requiring an unlimited penalty in bonds filed in that court.

RESOLVED FURTHER, that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the Company
(i) when signed by the chairman, president or any vice president of the Company's surety division and attested and sealed (if a seal be required) by any secretary or assistant secretary; or
(ii) when signed by a duly authorized Attorney-in-Fact and sealed with the seal of the Company (if a seal be required).

RESOLVED FURTHER, that the signature of any officer designated above, and the seal of the Company, may be affixed by facsimile to any Power of Attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, OLD REPUBLIC INSURANCE COMPANY has caused these presents to be signed by its proper officer, and its corporate seal to be affixed this 28TH day of FEBRUARY, 2019.

OLD REPUBLIC INSURANCE COMPANY


Assistant Secretary

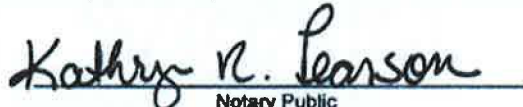



Vice President

STATE OF WISCONSIN, COUNTY OF WAUKESHA - SS

On this 28TH day of FEBRUARY, 2019, personally came before me, ALAN PAVLIC and JANE E CHERNEY to me known to be the individuals and officers of the OLD REPUBLIC INSURANCE COMPANY who executed the above instrument, and they each acknowledged the execution of the same, and being by me duly sworn, did severally depose and say; that they are said officers of the corporation aforesaid, and that the seal affixed to the above instrument is the seal of the corporation, and that said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority of the board of directors of said organization.




Notary Public
My commission expires: 9/28/22

(Expiration of notary commission does not invalidate this instrument)

CERTIFICATE

I, the undersigned, assistant secretary of the OLD REPUBLIC INSURANCE COMPANY, a Pennsylvania corporation, CERTIFY that the foregoing and attached Power of Attorney remains in full force and has not been revoked; and furthermore, that the Resolutions of the board of directors set forth in the Power of Attorney, are now in force.

46-5332



Signed and sealed at the City of Brookfield, WI this 30th day of MAY, 2019.


Assistant Secretary

GUY HURLEY INS & SURETY SERV.

THIS DOCUMENT HAS A COLORED BACKGROUND AND IS MULTICOLORED ON THE FACE. THE COMPANY LOGO APPEARS ON THE BACK OF THIS DOCUMENT AS A WATERMARK. IF THESE FEATURES ARE ABSENT, THIS DOCUMENT IS VOID.



CITY of NOVI CITY COUNCIL

Agenda Item D
February 27, 2017

SUBJECT: Approval to award the Ice Arena Evaporative Condenser tower replacement project to Serv-Ice Refrigeration., the low bidder, in the amount of \$93,175.

SUBMITTING DEPARTMENT: PRCS; IT-FM *FM*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$93,175
AMOUNT BUDGETED	\$95,000
APPROPRIATION REQUIRED	None
LINE ITEM NUMBER	590-000.00-969.017

BACKGROUND INFORMATION:

The existing Ice Arena Evaporative Condenser tower is approaching the end of its useful life. The costs of operation and repairs are increasing. New machines provide a more energy efficient operation of the refrigeration plant. The more efficient the refrigeration plant operates, the better the ice quality will be.

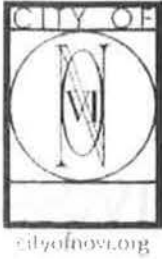
The scope calls for the replacement of the existing EVAPCO ATC-370 cooling tower with a new energy efficient unit that is attached in the specifications. The existing unit was installed in 1998 and is currently working in fair condition. The cooling tower cools and condenses the hot ammonia gas back into a liquid to be used in the refrigeration process. Compressors will not run without a properly working cooling tower. Ice cannot be made without all phases of the refrigeration system operating correctly.

The Invitation for Bids for the Novi Ice Arena Evaporative Condenser tower replacement project was posted on the Michigan Intergovernmental Trade Network (MITN) website. A mandatory pre-bid meeting was held on site on January 26th, 2017 which was attended by seven firms. We received three bids in response to the Invitation for Bids.

RECOMMENDED ACTION: Approval to award the Ice Arena Evaporative Condenser tower replacement project to Serv-Ice Refrigeration., the low bidder, in the amount of \$93,175.

CITY OF NOVI
Ice Arena Evaporative Condenser Tower Replacement
February 15, 2017 11:00 A.M.

	Serv-Ice Refrigeration	Tech Mechanical	Miller-Boldt
A. Evaporative condenser Tower Replacement	\$ 93,175	\$ 95,000	\$ 115,000
Make/Model proposed	BAC PCC-0214-0718N20	Baltimore Air Coil PCC-0214-0718N020	Baltimore Air Coil PCC-0214-0718N020
Lead time for equipment (ARO)	6 weeks	8 weeks	8 weeks
Days required to perform the work	one day for change out	1 day/24 hours	2 days
Manufacturer's Warranty	one year	three years parts & labor	3 years parts & labor
Labor Warranty	one year	one year	1 year labor warranty on piping & subcontract work
Exceptions		none	without exceptions
Comments		none	
Acknowledged Addenda 1 & 2	Yes	Yes	Yes
Bid bond included?	Yes	Yes	Yes



CITY OF NOVI
NOVI ICE ARENA –
EVAPORATIVE CONDENSER TOWER REPLACEMENT

BID FORM

We, the undersigned as bidder, propose to furnish to the City of Novi, according to the specifications, terms, conditions and instructions attached hereto and made a part thereof:

A. Evaporative Condenser Tower Replacement \$ 93,175.00 **Lump Sum**

Make/Model proposed BAC PCC-0214-0718N20

Lead Time for Equipment (after receipt of order): 6 weeks

Days required to perform the work: one day for change out

Manufacturer's Warranty one-year

Labor Warranty one-year

We acknowledge receipt of the following Addenda: No #1, No #2
 (please indicate numbers)

EXCEPTIONS TO SPECIFICATIONS (all exceptions must be noted here):

COMMENTS:

REFERENCES: Please provide at least three client (3) references for projects of similar scope done in the last 3 years.

Company USA Arena

Address 14900 Beck Road Plymouth, Mi 48170

Phone 734-558-3083 Contact name Tony Noble

Company Kensington Valley Ice House

Address 10540 Citation Dr. Brighton, MI 48116

Phone 248-798-5536 Contact name Jim Sokol

Company Michigan State University-Munn Arena

Address 1 Chestnut Road East Lansing, MI 48824

Phone 517-432-4121 Contact name Tom Campbell

NON-IRAN LINKED BUSINESS

By signing below, I certify and agree on behalf of myself and the company submitting this proposal the following: (1) that I am duly authorized to legally bind the company submitting this proposal; and (2) that the company submitting this proposal is not an "Iran linked business," as that term is defined in Section 2(e) of the Iran Economic Sanctions Act, being Michigan Public Act No. 517 of 2012; and (3) That I and the company submitting this proposal will immediately comply with any further certifications or information submissions requested by the City in this regard.

THIS BID SUBMITTED BY:

Company (Legal Registration) Serv-Ice Refrigeration, Inc.

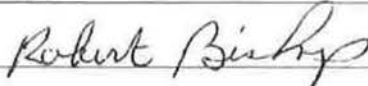
Address 143 Cady Centre # 207

City Northville State MI Zip 48167

Telephone 248-735-6000 Fax 248-692-0508

Representative's Name Bob Bishop

Representative's Title President

Authorized Signature 

E-mail sbishop4@comcast.net

Date 2/10/2017



SERV-ICE REFRIGERATION, INC.

143 Cady Centre, #207 • Northville, MI 48167 • Phone: (248) 735-6000 • Fax: (248) 735-6001

February 10, 2017

City of Novi
45175 Ten Mile Road
Novi, MI 48375

Subject: Evaporative Condenser Tower Replacement-**Voluntary Alternate**
Bid Due: 2/15/17

In lieu of the BAC Evaporative Condenser in the base bid, we can offer a WXR Model WXR-1000, 304 stainless steel coils, 304 stainless steel shell and sump pan. Comes complete with spray pump, two direct drive fans, pan heater and make-up float. Frequency drives will be Yaskawa.

Deduct \$6,175.00 from base bid price.
Total for the WXR Evaporative Condenser is \$87,000.00

This voluntary alternate submitted by:
Robert Bishop
President
Serv-Ice Refrigeration, Inc.



Bond Number 2334556

Bid Bond

KNOW ALL BY THESE PRESENTS, That We, Serv-Ice Refrigeration, Inc. as Principal,
and WEST BEND MUTUAL INSURANCE COMPANY, a corporation organized under the laws of the State of Wisconsin
and having its principal office in Middleton, Wisconsin, in said State, as Surety, are held and firmly bound unto
City of Novi as Owner, in the full and just sum of
Five Percent (5 %) of amount bid for the payment
whereof said Principal binds its heirs, administrators, and executors and said Surety binds itself, its successors
and assigns firmly by these presents

WHEREAS, said Principal has submitted to said Owner a bid or proposal for

City of Novi Ice Arena Evaporative Condenser Tower Replacement

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH that if within Sixty days hereof and in
accordance with said proposal a contract shall be awarded to said Principal and the said Principal shall enter into a
contract for said work and shall furnish bond with surety as required for its faithful performance then this obligation
shall be void, otherwise remain in full force and virtue.

Signed and Sealed this 15 day of February, 20 17

Principal:

Serv-Ice Refrigeration, Inc.

Witness: Sergio Belsky

By: Robert Fisher (SEAL)
Name Typed ROBERT FISHER PRESIDENT
Title

Surety:

West Bend Mutual Insurance Company

Witness: _____

By: Darlene Fisher (SEAL)
Name Typed: DARLENE FISHER, Attorney-In-Fact
Title

Agency Name: ALLIED INSURANCE MANAGERS INC

Address: 1055 E SOUTH BLVD, SUITE 110

ROCHESTER HILLS, MI 48307

Phone Number: (248) 853-0930

MICHIGAN ONLY: This policy is exempt from the filing requirements of Section 2236 of the Insurance Code of 1956,
1956 PA 218 and MCL 500.2236.

NB 0192 02 08

Page 1 of 1



2334556

Power of Attorney

Know all men by these Presents, That West Bend Mutual Insurance Company, a corporation having its principal office in the City of West Bend, Wisconsin does make, constitute and appoint:

DARLENE FISHER

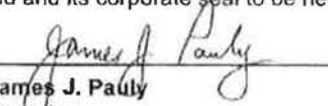
lawful Attorney(s)-in-fact, to make, execute, seal and deliver for and on its behalf as surety and as its act and deed any and all bonds, undertakings and contracts of suretyship, provided that no bond or undertaking or contract of suretyship executed under this authority shall exceed in amount the sum of: Seven Million Five Hundred Thousand Dollars (\$7,500,000)

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following Resolution adopted by the Board of Directors of West Bend Mutual Insurance Company at a meeting duly called and held on the 21st day of December, 1999.

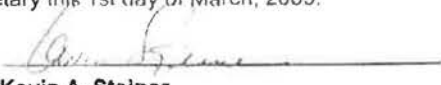
Appointment of Attorney-In-Fact. The president or any vice president, or any other officer of West Bend Mutual Insurance Company may appoint by written certificate Attorneys-in-Fact to act on behalf of the company in the execution of and attesting of bonds and undertakings and other written obligatory instruments of like nature. The signature of any officer authorized hereby and the corporate seal may be affixed by facsimile to any such power of attorney or to any certificate relating therefore and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the company, and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the company in the future with respect to any bond or undertaking or other writing obligatory in nature to which it is attached. Any such appointment may be revoked, for cause, or without cause, by any said officer at any time.

In witness whereof, the West Bend Mutual Insurance Company has caused these presents to be signed by its president undersigned and its corporate seal to be hereto duly attested by its secretary this 1st day of March, 2009.

Attest


James J. Pauly
Secretary

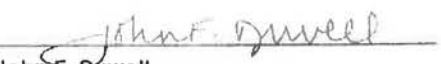



Kevin A. Steiner
Chief Executive Officer / President

State of Wisconsin
County of Washington

On the 1st day of March, 2009 before me personally came Kevin A. Steiner, to me known being by duly sworn, did depose and say that he resides in the County of Washington, State of Wisconsin; that he is the President of West Bend Mutual Insurance Company, the corporation described in and which executed the above instrument; that he knows the seal of the said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation and that he signed his name thereto by like order.

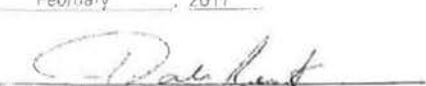



John F. Duwell
Executive Vice President - Chief Legal Officer
Notary Public, Washington Co. WI
My Commission is Permanent

The undersigned, duly elected to the office stated below, now the incumbent in West Bend Mutual Insurance Company, a Wisconsin corporation authorized to make this certificate, Do Hereby Certify that the foregoing attached Power of Attorney remains in full force effect and has not been revoked and that the Resolution of the Board of Directors, set forth in the Power of Attorney is now in force.

Signed and sealed at West Bend, Wisconsin this 15 day of February, 2017




Dale J. Kent
Executive Vice President -
Chief Financial Officer

ELECTRICAL SPECIFICATIONS

GENERAL

1. PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS OR METHODS REQUIRED TO ACCOMPLISH THE ELECTRICAL REVISIONS HEREIN SPECIFIED AND/OR INDICATED ON PLAN AND AS REQUIRED TO ACCOMMODATE PROJECT ARCHITECTURAL REVISIONS. INCLUDE MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK, INCLUDING HANGERS, SUPPORTS, ANCHORS, EXPANSION MEANS, CONDUIT, WIRE, FITTINGS, ETC.
2. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (N.E.C.), N.F.P.A., LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
3. THE CONTRACTOR SHALL VISIT THE SITE, EXAMINE AND VERIFY THE CONDITIONS UNDER WHICH HIS WORK MUST BE CONDUCTED BEFORE SUBMITTING A PROPOSAL. THE SUBMITTING OF A PROPOSAL IMPLIES THAT THE CONTRACTOR HAS VISITED THE SITE AND IS CONVERSANT WITH ALL EXISTING CONDITIONS, OBSTRUCTIONS AND ALL CONDITIONS WHICH WILL BE ENCOUNTERED, AS REQUIRED TO PERFORM THE WORK AS INDICATED ON PLAN OR HEREIN SPECIFIED.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL TESTS NECESSARY TO DETERMINE THAT ALL WIRING AND EQUIPMENT INSTALLED UNDER THIS SPECIFICATION IS IN SATISFACTORY CONDITION AND BE PERFORMED TO THE SATISFACTION OF ALL HAVING JURISDICTION OVER THE ELECTRICAL WORK.
 - A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE IN WRITING ALL WORK IN CONNECTION WITH HIS ELECTRICAL CONTRACT FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION AND ACCEPTANCE BY THE OWNER. ALL WORK AND MATERIALS REQUIRED BY THE ELECTRICAL CONTRACTOR IN ORDER TO SATISFY THE GUARANTEE SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION

1. DISCONNECT, REMOVE, OR RELOCATE PRESENT EQUIPMENT, OUTLETS, FIXTURES, DEVICES, WIRING, ETC., AS INDICATED ON PLAN, HEREIN SPECIFIED, OR AS OTHERWISE REQUIRED TO CONFORM TO THE ELECTRICAL REVISIONS.
2. EXISTING WIRING ONCE REMOVED FROM CONDUIT OR BOXES SHALL NOT BE REUSED. EXISTING CONDUIT AND BOXES REMOVED SHALL NOT BE REUSED. REMOVED MATERIALS SHALL BE REMOVED FROM THE PREMISES EXCEPT ITEMS AS MAYBE DESIGNATED AS SALVAGEABLE BY THE OWNERS REPRESENTATIVE AND THESE ITEMS SHALL BE DELIVERED TO THE OWNER FOR THEIR DISPOSITION. DELIVERY SHALL INCLUDE PLACING THE ITEMS AT ANY LOCATION WITHIN THE BUILDING AS SO DIRECTED BY THE OWNER.
3. ALL WIRING SHALL BE REMOVED COMPLETE TO SOURCE. ALL UNUSED CONDUIT, OR CONDUIT NOT REQUIRED TO REMAIN SHALL BE REMOVED COMPLETE.
4. THE ORIGINAL FUNCTION OF THE PRESENT ELECTRICAL WORK TO BE MODIFIED SHALL NOT BE CHANGED UNLESS REQUIRED BY THE SPECIFIC REVISIONS TO THE SYSTEM AS SPECIFIED OR SHOWN ON THE PLANS.

BASIC MATERIALS AND METHODS

1. BRANCH CIRCUIT WIRE AND CABLE SHALL BE COPPER WITH 98% CONDUCTIVITY AND SHALL MEET THE TESTS AND STANDARDS SET FORTH BY NEMA, U.L. AND IPCEA. WIRE FOR GENERAL USE SHALL BE COPPER, TYPE THHN/THWN, 90 DEGREES C. ALUMINUM WIRE SHALL NOT BE USED. 120 VOLT BRANCH CIRCUIT WIRING SERVING CIRCUITS WHERE THE WIRE LENGTH FROM THE OVER CURRENT DEVICE TO THE LAST LOAD OR DEVICE ON THE CIRCUIT, IS GREATER THAN 100 FEET, SHALL BE #10 AWG.
2. IN GENERAL CONDUIT FOR USE ON THIS PROJECT SHALL BE THIN WALL (EMT) WITH COMPRESSION FITTINGS. RIGID STEEL CONDUIT SHALL BE USED WHERE REQUIRED BY CODE OR WHERE REQUIRED FOR PHYSICAL STRENGTH AND SHALL UTILIZE THREADED FITTINGS. ALL CONDUIT, CONDUIT ELBOWS AND COUPLINGS SHALL BE HOT DIPPED GALVANIZED AND CONFORM TO THE LATEST ANSI SPECIFICATIONS FOR STEEL CONDUIT, ZINC COATED.

SAFETY SWITCHES:

1. SAFETY SWITCHES SHALL BE PROVIDED WHERE INDICATED ON PLAN OR AS REQUIRED FOR CODE CONFORMANCE.
2. SAFETY SWITCHES SHALL BE HEAVY DUTY NON-FUSIBLE TYPE UNLESS INDICATED OTHERWISE, QUICK-MAKE, QUICK-BREAK, SAFETY INTERLOCK TYPE, SINGLE THROW, THREE POLE, WITH GROUND BUS OF 600 VOLT OR 250 VOLT RATING REQUIRED AND WITH AMPERE AND/OR HP RATINGS INDICATED ON AS DRAWINGS OR REQUIRED FOR THE INSTALLATION. IN GENERAL, ENCLOSURES SHALL BE NEMA 3R GENERAL PURPOSE TYPE.
3. SAFETY SWITCHES SHALL BE MANUFACTURED BY ALLEN BRADLEY, SIEMENS OR SQUARE D.

FUSES:

- A. ALL FUSES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL FUSE HOLDERS SHALL BE PROVIDED WITH FUSE REJECTION CLIPS. ALL FUSES SHALL BE OF THE SAME MANUFACTURER AND SHALL BE BUSSMANN, OR GOULD.
- B. CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY BUSSMANN FUSETRON DUAL-ELEMENT FUSES FRN-R OR FRS-R OR APPROVED EQUAL. ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT CIRCUIT ELEMENTS. FUSE SHALL INCORPORATE A SPRING ACTIVATED THERMAL OVERLOAD ELEMENT HAVING A MELTING ALLOY AND SHALL BE INDEPENDENT OF THE SHORT CIRCUIT CLEARING CHAMBER. THE FUSE MUST HOLD 500% OF RATED CURRENT FOR A MINIMUM OF 10 SECONDS AND BE LISTED BY U.L., WITH AN INTERRUPTING RATING OF 200,000 AMPERES R.M.S. SYMMETRICAL.



Architects
Engineers
Planners

23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax

www.nsa-ae.com

Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:
BIDS AND PERMITS

Drawn: JC Designed: JC

Checked: Approved:

CAD Drawing File: ESK-1.dwg

Copyright ©2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

ELECTRICAL
SPECIFICATIONS

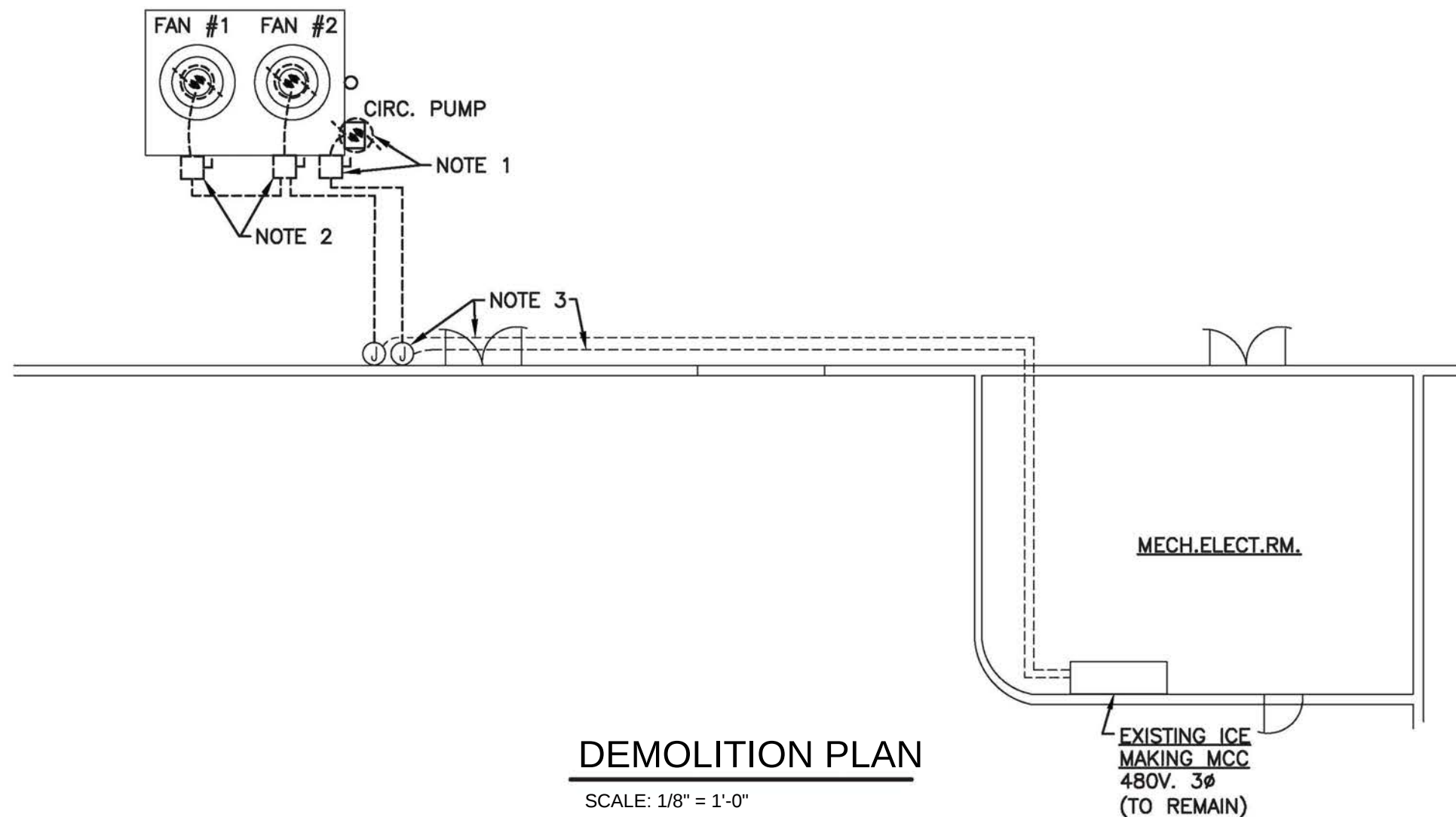
Sheet Number:

ESK-1

NOTES:

1. DISCONNECT PUMP AND PAN HEATER FOR REMOVAL BY MECHANICAL TRADES. REMOVE WIRING COMPLETE TO SOURCE (EXISTING MCC IN MECHANICAL/ELECTRICAL ROOM.). RE-USE CONDUIT AND JUNCTION BOX ATTACHED TO EXTERIOR WALL TO FEED NEW PUMP AND PAN HEATER.
2. DISCONNECT EVAP. CONDENSER FAN NO.1 AND NO.2 FOR REMOVAL BY MECHANICAL TRADES. REMOVE WIRING COMPLETE TO SOURCE (EXISTING MCC IN MECHANICAL/ELECTRICAL ROOM.). RE-USE CONDUIT AND JUNCTION BOX ATTACHED TO EXTERIOR WALL TO FEED NEW EVAP. CONDENSER FANS.
3. EXISTING WALL MOUNTED JUNCTION BOX AND CONDUIT TO EXISTING MCC TO BE RE-USED TO SERVE NEW WIRING TO NEW EVAP. CONDENSING UNIT, PAN HEATER AND CIRC. PUMP.

(E) EVAPORATIVE CONDENSER



Client:



Project Title:

**NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT**

Date:
01-06-17

Issued for:
BIDS AND PERMITS

Drawn: JC Designed: JC

Checked: Approved:

CAD Drawing File: ESK-2.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

**ELECTRICAL
DEMOLITION PLAN**

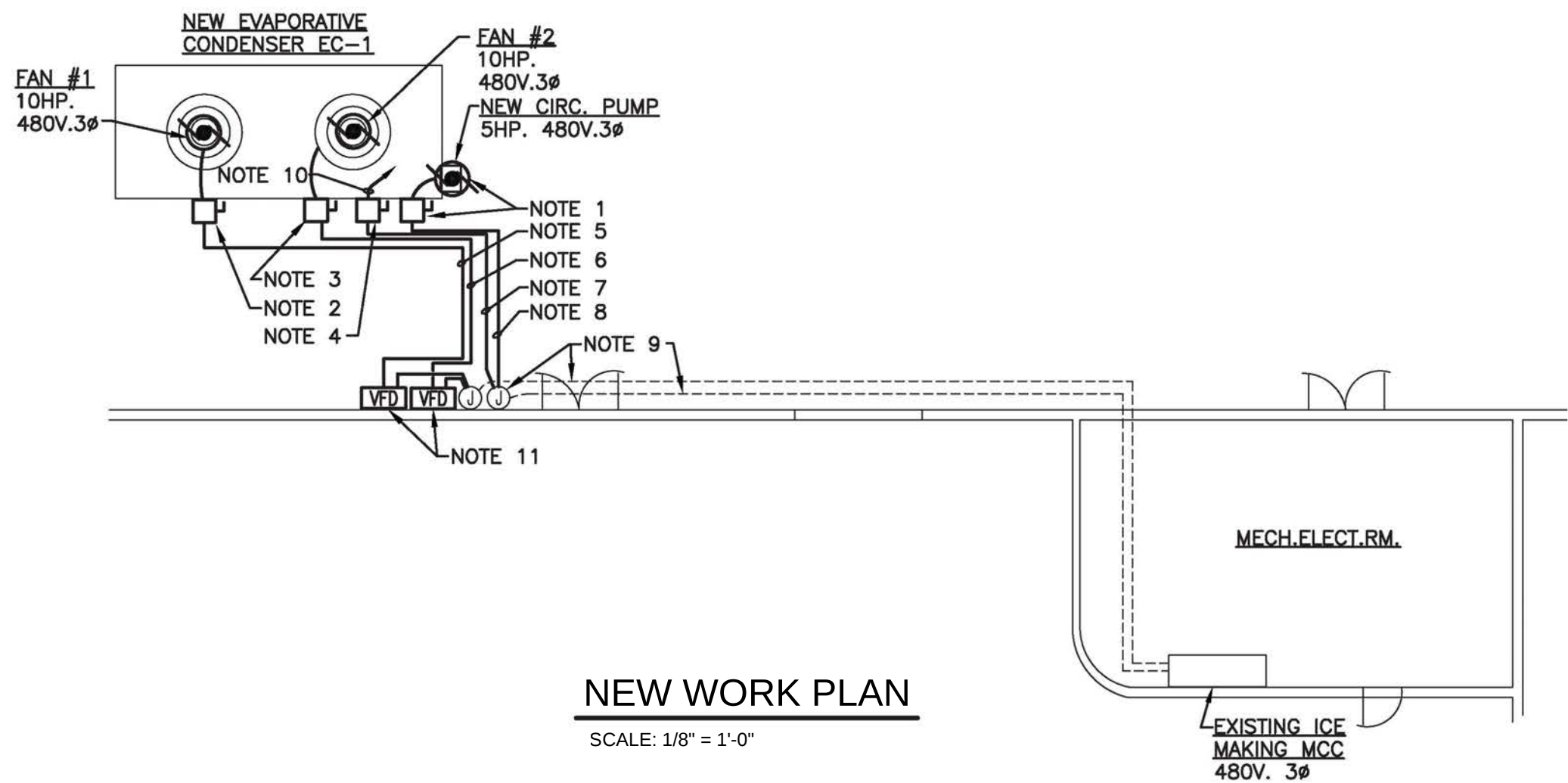
Sheet Number:

ESK-2

NOTES:

1. NEW 30A.3P.480V. NON-FUSED NEMA 3R DISCONNECT SWITCH (PROVIDED BY MECHANICAL TRADES, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR) TO SERVE NEW CIRC. PUMP.
2. NEW 30A.3P.480V. NON-FUSED NEMA 3R DISCONNECT SWITCH (PROVIDED BY MECHANICAL TRADES, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR) TO SERVE NEW EVAP. FAN NO.1.
3. NEW 30A.3P.480V. NON-FUSED NEMA 3R DISCONNECT SWITCH (PROVIDED BY MECHANICAL TRADES, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR) TO SERVE NEW EVAP. FAN NO.2.
4. NEW 30A.3P.480V. NON-FUSED NEMA 3R DISCONNECT SWITCH (PROVIDED BY MECHANICAL TRADES, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR) TO SERVE NEW PAN HEATER.
5. PROVIDE NEW 3/4"C. FROM NEW DISCONNECT SWITCH SERVING FAN NO.1 TO EXISTING JUNCTION BOX VIA VFD, ROUTE NEW 3#10,1#12G. VIA NEW AND EXISTING CONDUIT TO EXISTING NEMA 1 STARTER IN ICE MAKING MCC. REPLACE FUSES WITH 20A. DUAL ELEMENT TIME DELAY TYPE.

6. PROVIDE NEW 3/4"C. FROM NEW DISCONNECT SWITCH SERVING FAN NO.2 TO EXISTING JUNCTION BOX VIA VFD, ROUTE NEW 3#10,1#12G. VIA NEW AND EXISTING CONDUIT TO EXISTING NEMA 1 STARTER IN ICE MAKING MCC.REPLACE FUSES WITH 20A. DUAL ELEMENT TIME DELAY TYPE.
7. PROVIDE NEW 3/4"C. FROM NEW DISCONNECT SWITCH SERVING PAN HEATER TO EXISTING JUNCTION BOX, ROUTE NEW 3#12,1#12G. VIA NEW AND EXISTING CONDUIT TO EXISTING NEMA 1 STARTER IN ICE MAKING MCC. REPLACE FUSES WITH 25A. DUAL ELEMENT TIME DELAY TYPE.
8. PROVIDE NEW 3/4"C. FROM NEW DISCONNECT SWITCH SERVING CIRC. PUMP TO EXISTING JUNCTION BOX, ROUTE NEW 3#10,1#12G. VIA NEW AND EXISTING CONDUIT TO EXISTING NEMA 1 STARTER IN ICE MAKING MCC. REPLACE FUSES WITH 15A. DUAL ELEMENT TIME DELAY TYPE.
9. EXISTING JUNCTION BOXES AND CONDUIT TO BE RE-USED TO SERVE NEW EVAPORATIVE CONDENSER EP-1.
10. 3#10,1#10G.-3/4"C. FROM DISCONNECT SWITCH TO PAN HEATER BY ELECTRICAL CONTRACTOR.
11. WALL MOUNT NEW NEMA 3R VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY MECHANICAL TRADES, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.



NEW WORK PLAN

SCALE: 1/8" = 1'-0"



Architects
Engineers
Planners

23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax

www.nsa-ae.com

Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:

Drawn: JC Designed: JC

Checked: Approved:

CAD Drawing File: ESK-3.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

ELECTRICAL
NEW WORK PLAN

Sheet Number:

ESK-3

DEMOLITION GENERAL NOTES:

- 1. WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, LAWS, ACTS AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
- 2. THE OWNER RESERVES THE RIGHT TO SALVAGE ON ALL MATERIALS/ITEMS REMOVED.
- 3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY PROBLEMS THAT MIGHT OCCUR DURING THE DEMOLITION WORK.
- 4. THE DEMOLITION CONTRACTOR SHALL REPAIR DAMAGES MADE TO THE EXISTING EQUIPMENT, UTILITY PIPING, AND INSULATION.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL EXAMINE THE SITE AND BE FAMILIAR WITH THE CONDITIONS UNDER WHICH THIS CONTRACT MUST BE EXECUTED.
- 2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SYSTEMS WITH OTHER TRADES AND OWNER TO AVOID INTERFERENCES.
- 3. THE CONTRACTOR SHALL VERIFY ALL SPACE CONDITIONS AND DIMENSIONS PRIOR TO THE FABRICATION AND THE INSTALLATION OF THE PIPING SYSTEM.
- 4. ALL WORK SHALL BE DONE IN A MANNER CONDUCTIVE TO A PROFESSIONAL ENVIRONMENT. ALL AREAS MUST BE KEPT AS NEAT AS POSSIBLE, AND AREAS SHALL BE CLEANED BEFORE LEAVING SAID AREAS ON A DAILY BASIS.
- 5. PROVIDE COMPLETE OPERATING SYSTEMS WITH MATERIALS OF CONSTRUCTION AND METHODS OF FABRICATION, ASSEMBLY, ERECTION, TESTING, AND INTERIM OPERATION IN COMPLIANCE WITH THE REQUIREMENTS SPECIFIED HEREIN AND THE REQUIREMENTS OF APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
- 6. COORDINATE PIPE ROUTING AND EQUIPMENT INSTALLATION WITH EXISTING CONDITIONS TO AVOID INTERFERENCES.
- 7. DEMOLITION WORK SHALL BE COMPLETED TO THE EXTENT INDICATED OR SPECIFIED.
- 8. THE OWNERS NORMAL OPERATION IN SURROUNDING AREAS WILL BE CONTINUED DURING DEMOLITION. THE DEMOLITION SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE OWNER'S EXPRESSED CONSENT. CONTRACTORS SHALL COORDINATE AND SCHEDULE EXTENT OF DEMOLITION WORK WITH OWNER IN FIELD.
- 9. COMPLY WITH OWNER'S CORPORATE STANDARDS AND ALL APPLICABLE LOCAL CODES, STANDARDS, AND REGULATIONS.
- 10. CONFIRM THAT EXISTING SYSTEMS ARE INACTIVE AND PURGED BEFORE TAPPING INTO THEM, UNLESS OTHERWISE DIRECTED.
- 11. CONTRACTOR SHALL REVIEW THE DOCUMENTS OF ALL INTERFACES TRADES, CONTRACTS, AND DRAWINGS PRIOR TO BIDDING AND COMMENCEMENT OF WORK TO ENSURE SUCCESS OF FINISHED WORK.
- 12. ALL EQUIPMENT AND MATERIAL BROUGHT TO THE SITE IS THE PROPERTY OF THE CONTRACTOR UNTIL THE OWNER HAS OFFICIALLY ACCEPTED THE FINAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROTECTION FOR EQUIPMENT AND MATERIAL UNTIL COMPLETION OF THE PROJECT.

ABBREVIATIONS FOR DRAWINGS	
ABBREV.	DESCRIPTION
RS	REFRIGERANT SUPPLY
RR	REFRIGERANT RETURN
CW	COLD WATER (MAKE UP)

EVAPORATIVE CONDENSER SCHEDULE											
MARK	LOCATION	UNIT TYPE	MANUFACTURER	MODEL NUMBER	BASE HEAT REJECTION	AIRFLOW RATE (CFM)	FAN DATA		PUMP DATA		REFRIGERANT
							HP	ELECTRICAL	HP	ELECTRICAL	
EC-1	ICE ARENA	INDUCED DRAFT	BALTIMORE AIRCOIL COMPANY	PCC-0214-0718N020	860	82,950	(2)10	460/3/60	5	460/3/60	R717



23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax

www.nsa-ae.com

Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-08-17

Issued for:
BIDS & PERMITS

Drawn: MS

Designed: MS

Checked:

Approved:

CAD Drawing File: MSK-1.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

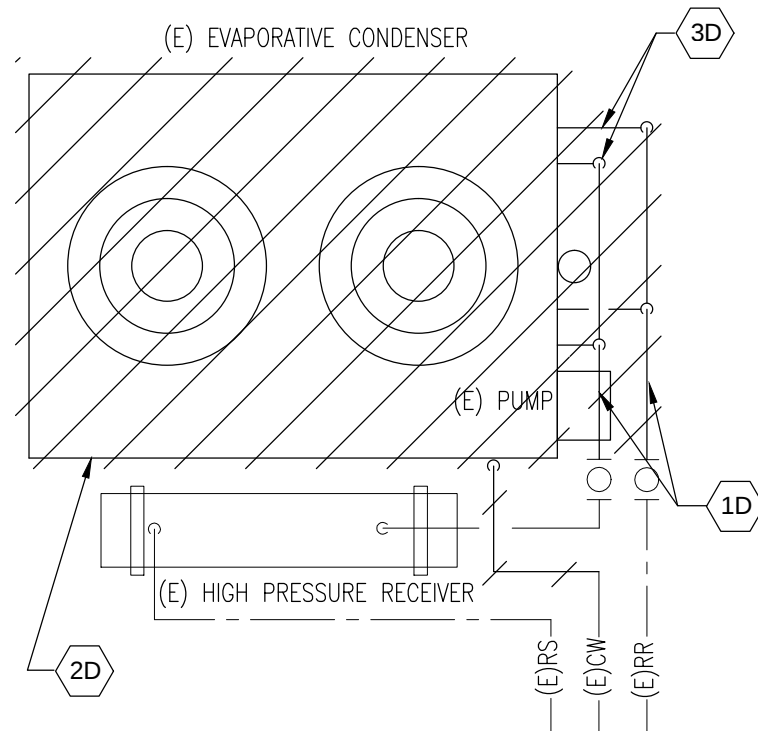
Project Number:

Sheet Title:

MECHANICAL
SCHEDULES, NOTES,
AND ABBREVIATIONS

Sheet Number:

MSK-1

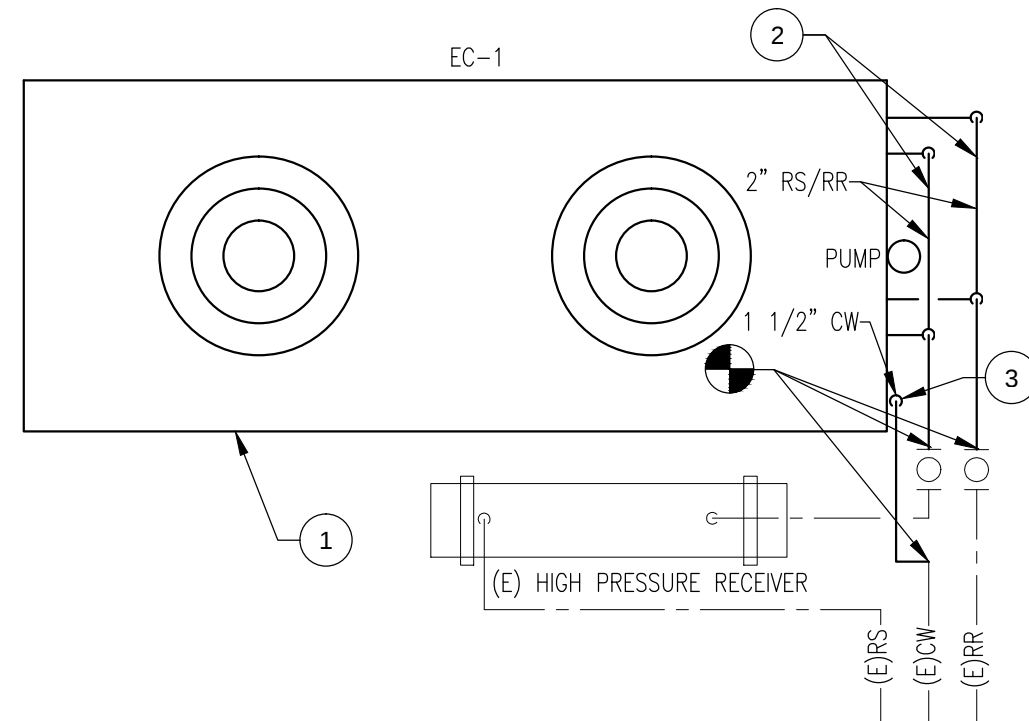


DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

DEMOLITION KEY NOTES:

- 1D EVACUATE EXISTING AMMONIA FROM DEMOED PIPING THRU RELIEF VALVE INTO HIGH PRESSURE GAS RECEIVER. SEE MSK-7 FOR MORE INFO.
- 2D DISCONNECT AND REMOVE EXISTING EVAPORATIVE CONDENSER COMPLETE WITH SUPPORT STRUCTURE, COLD WATER PUMP, ELECTRICAL AND CONTROLS.
- 3D CUT AND CAP EXISTING REFRIGERANT SUPPLY/RETURN PIPING AND MAKE UP COLD WATER PIPING. AS INDICATED.



NEW WORK PLAN

SCALE: 1/4" = 1'-0"

NEW WORK KEY NOTES:

- 1 NEW EVAPORATIVE CONDENSER (EC-1) COMPLETELY WITH PLATFORM, CW PUMP, ELECTRICAL AND CONTROLS. SEE MSK-3/4 FOR MORE INFO.
- 2 EXTEND NEW 2" REFRIGERANT SUPPLY/RETURN PIPES FROM EXISTING RS/RR AND CONNECT TO NEW EC-1. FIELD VERIFY EXISTING PIPING LOCATION AND SIZE.
- 3 EXTEND NEW 1 1/2" COLD WATER (CW) MAKE UP PIPE FROM EXISTING CW AND CONNECT TO NEW EC-1. FIELD VERIFY EXISTING PIPING LOCATION AND SIZE.
- 4 AFTER INSTALLATION OF EC-1 PRESSURE TEST AMMONIA PIPING FOR LEAKAGES. CHARGE THE EC-1 WITH EXISTING AMMONIA. ADD NEW AMMONIA AS NECESSARY. REFER TO IIAR STANDARD PRACTICES.

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:
BIDS & PERMITS

Drawn:	MS	Designed:	MS
Checked:		Approved:	

CAD Drawing File: MSK-2.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

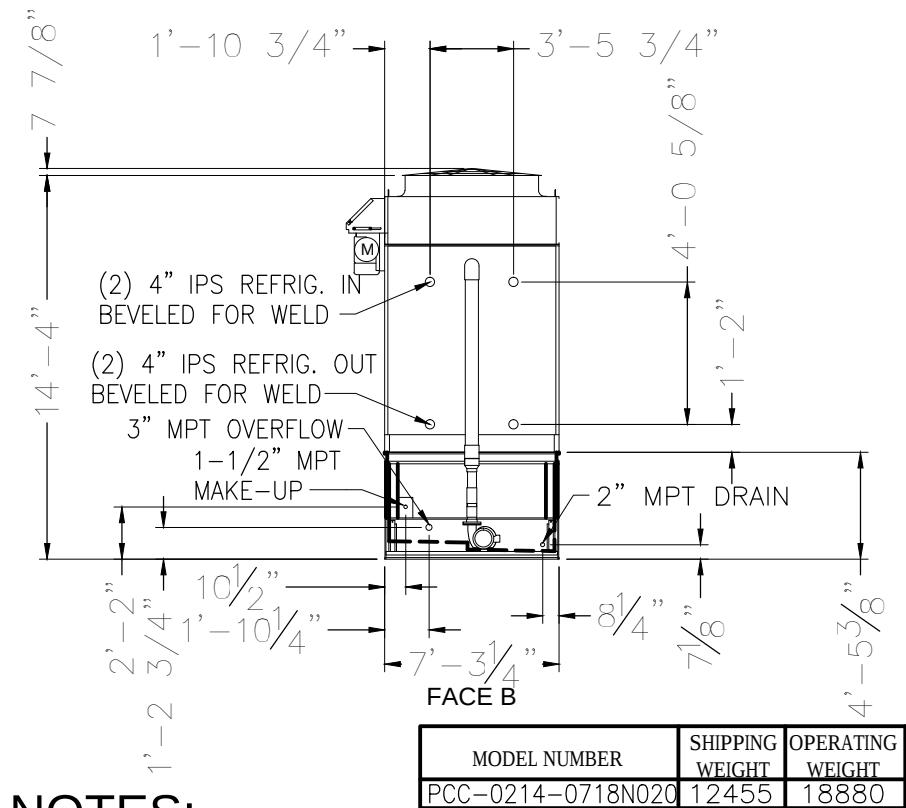
Project Number:

Sheet Title:

MECHANICAL
DEMO AND NEW
WORK PLAN

Sheet Number:

MSK-2



NOTES:

- DRAWINGS ARE NOT TO SCALE. ALL DIMENSIONS ARE IN FEET AND INCHES.
- UNLESS OTHERWISE INDICATED, CONNECTIONS 3" AND SMALLER ARE MPT AND CONNECTIONS 4" AND LARGER ARE BEVELED FOR WELDING.
- DIMENSIONS SHOWING LOCATION OF COIL AND BASIN CONNECTIONS ARE APPROXIMATE AND SHOULD NOT BE USED FOR PREFABRICATION OF CONNECTING PIPING.
- FOR WEIGHT LOADINGS AND SUPPORT REQUIREMENTS, REFER TO THE SUGGESTED STEEL SUPPORT DRAWING.
- HEAVIEST SECTION IS THE COMBINED WEIGHT OF FAN AND COIL SECTIONS, REFER TO THE P-SERIES COUNTERFLOW INDUCED DRAFT COIL PRODUCTS RIGGING AND ASSEMBLY MANUAL FOR SUGGESTED LIFTING METHOD.
- THE AREA ABOVE THE DISCHARGE MUST BE UNOBSTRUCTED.
- DO NOT SUPPORT PIPING FROM UNIT CONNECTIONS. ALL NECESSARY PIPING SUPPORTS TO BE SUPPLIED BY OTHERS.
- M = MOTOR LOCATION

EVAPORATIVE CONDENSER DETAIL

SCALE: NONE

NSA
Architects
Engineers
Planners

23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax

www.nsa-ac.com
Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:
BIDS & PERMITS

Drawn: MS Designed: MS

Checked: Approved:

CAD Drawing File: MSK-3.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

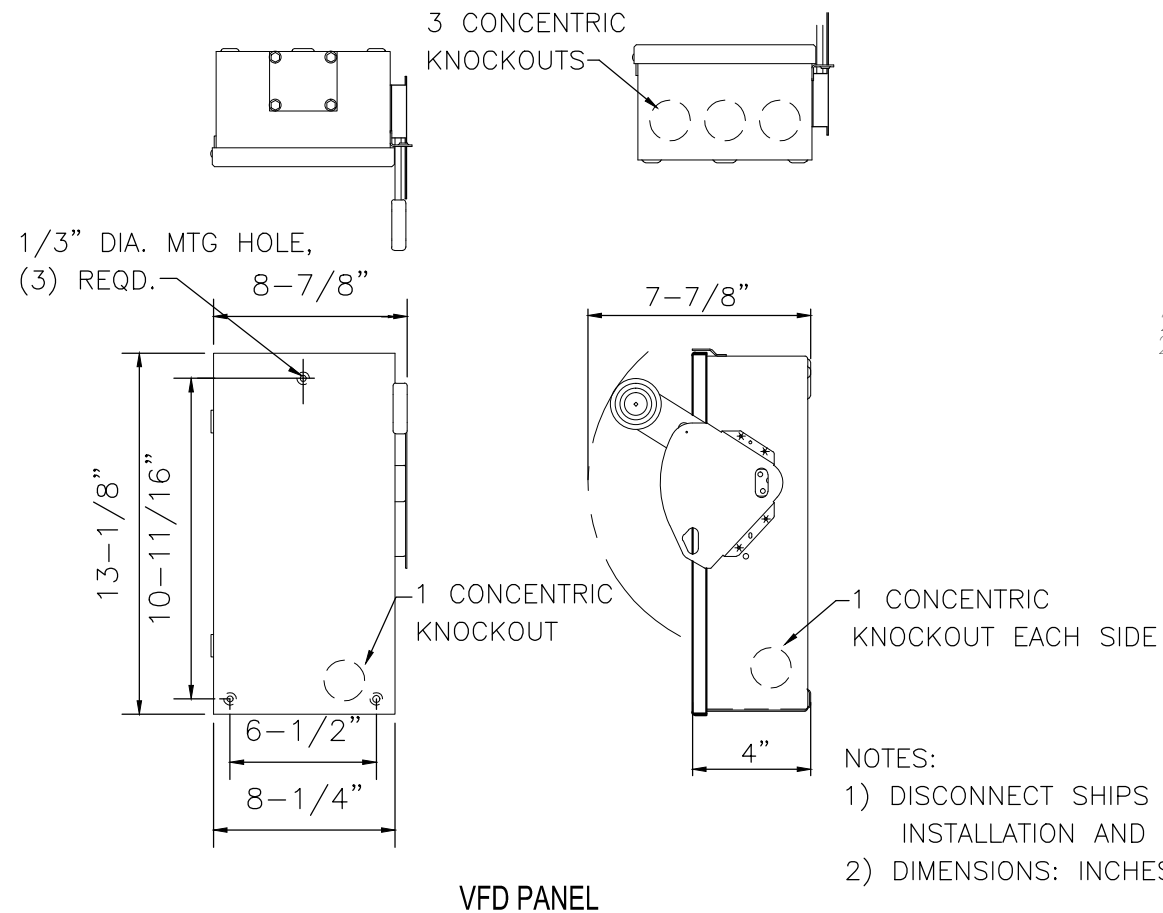
Project Number:

Sheet Title:

MECHANICAL
DETAILS

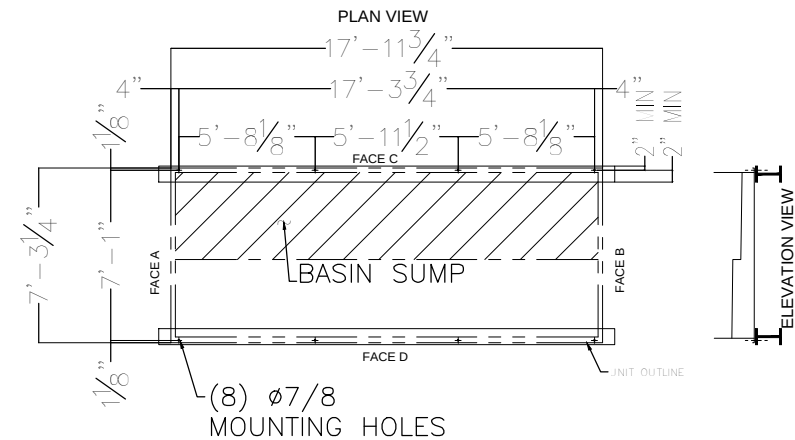
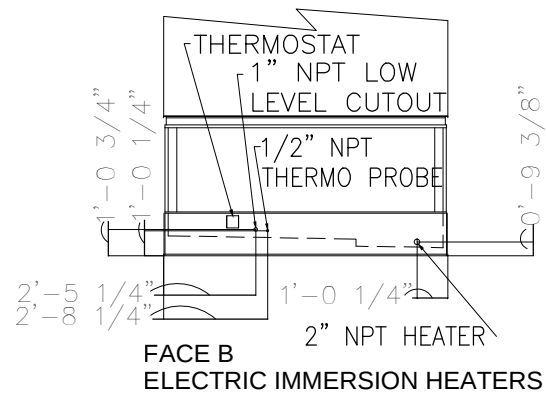
Sheet Number:

MSK-3



NOTES:

1. USE ONLY BAC PROVIDED VFD
2. NEVER SET DRIVE SPEED AMPERAGE ABOVE MOTOR NAMEPLATE SETTINGS
3. USE VFD RATED CABLE TO CONNECT THE MOTOR AND VFD, IF CABLE LENGTH IS OVER 300FT CONSULT THE OPERATION AND MAINTENANCE MANUAL FOR FILTER REQUIREMENTS
4. CONTROL WIRING SHOULD BE 20-22AWG SHIELDED WIRE
5. ALL WIRING MUST MEET LOCAL AND NATIONAL ELECTRIC CODES
6. MECHANICALLY LOCK OUT THE FAN BEFORE PERFORMING ANY WIRING WORK ON THE UNIT TO PREVENT VOLTAGE FROM BEING GENERATED BY A ROTATING FAN
7. DISCONNECT ALL POWER TO THE VFD AND MOTOR FOR AT LEAST 10 MINUTES BEFORE PERFORMING WORK ON THE SYSTEM
8. THE SOLENOID ACTUATED MAKE-UP VALVE IS RATED AT 6.1 WATTS, 16 VA HOLDING, 30 VA INRUSH.



AMBIENT TEMPERATURE:-20F
HEATER QTY: 1
POWER (EACH): 15KW VOLTAGE:
460V PHASE: 3 FREQUENCY: 60Hz

UNIT SUPPORT

23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax
www.nsa-ac.com
Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date: 01-06-17 Issued for: BIDS & PERMITS

Drawn: MS Designed: MS
Checked: Approved:

CAD Drawing File: MSK-4.dwg

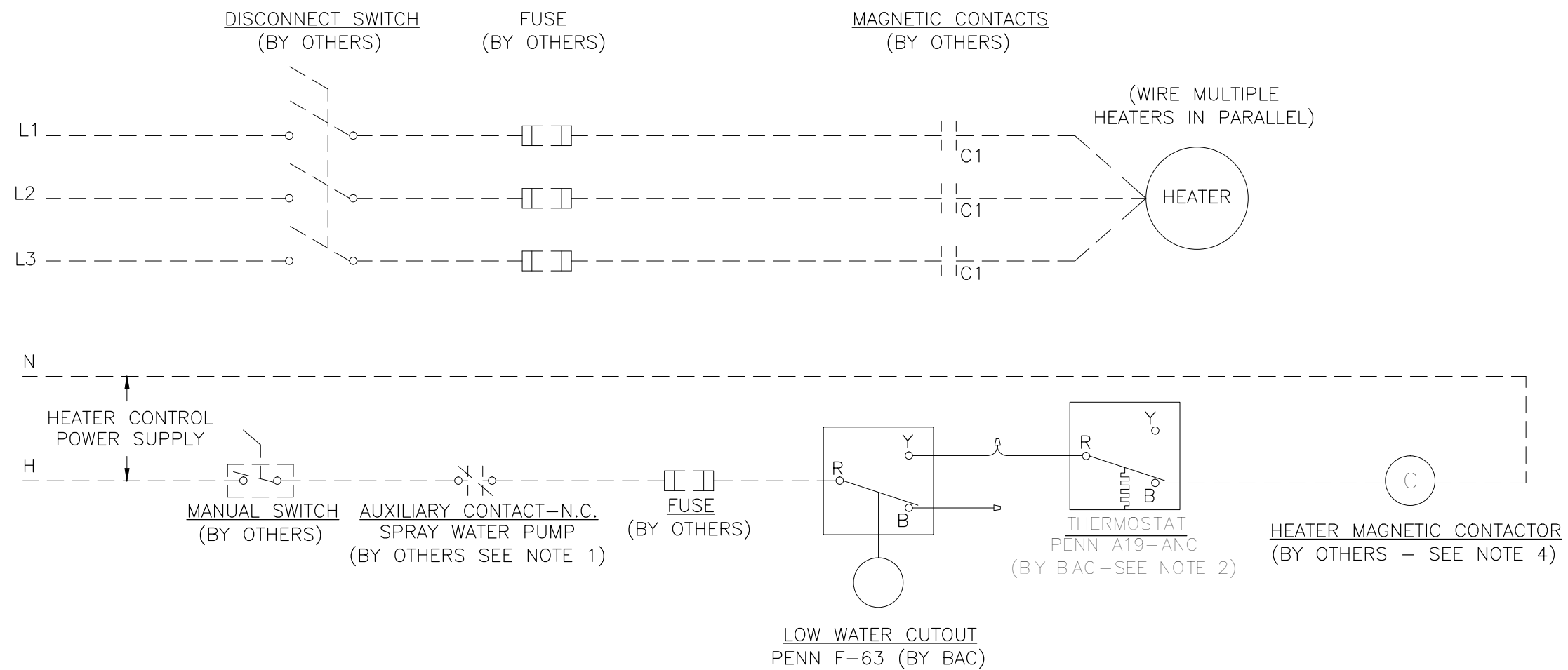
Copyright © 2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

MECHANICAL
DETAILS

Sheet Number: MSK-4



NOTES:

1. INTERLOCK IMMERSION HEATERS WITH CIRCULATING PUMP TO DE-ENERGIZE HEATERS WHEN PUMP IS RUNNING.
2. 2. CONTROL THERMOSTAT IS TO BE SET FOR 40° F. DO NOT SET THERMOSTAT LOWER THAN 40° F.
3. 3. BROKEN LINES INDICATE COMPONENTS AND WIRING TO BE SUPPLIED BY OTHERS.
4. 4. CONTRACTOR, FUSE PROTECTION AND POWER SUPPLY WIRING ARE TO BE SIZED TO MATCH HEATER REQUIREMENTS. WIRING MUST COMPLY TO APPLICABLE CODES AND ORDINANCES.

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:
BIDS & PERMITS

Drawn:	MS	Designed:	MS
Checked:		Approved:	

CAD Drawing File: MSK-4.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

MECHANICAL
CONTROLS

Sheet Number:

MSK-5

EQUIPMENT DETAILS - ALL INFORMATION IS PER UNIT

UNIT TYPE:

- THIS UNIT WILL BE A FACTORY FABRICATED, INDUCED DRAFT, EVAPORATIVE CONDENSER WITH VERTICAL DISCHARGE.

UNIT HANDEDNESS:

- THE UNIT ORDERED IS A LEFT HAND UNIT.

QUALITY ASSURANCE:

- EACH UNIT WILL BE MANUFACTURED UNDER CLOSELY–CONTROLLED CONDITIONS USING STANDARDIZED PARTS TO ENSURE EACH UNIT IS BUILT PRECISELY TO THE SAME HIGH–QUALITY DESIGN AND CONSTRUCTION STANDARDS. THE DESIGN, MANUFACTURE, AND BUSINESS PROCESSES OF BALTIMORE AIRCOIL COMPANY ARE ISO 9001:2008 CERTIFIED.

MATERIALS OF CONSTRUCTION:

- ALL STRUCTURAL STEEL COMPONENTS ARE CONSTRUCTED FROM G–235 (Z700 METRIC) HOT–DIP GALVANIZED STEEL. THE EDGES OF THE HOT–DIP GALVANIZED STEEL COMPONENTS ARE GIVEN A PROTECTIVE COAT OF ZINC–RICH COMPOUND. ACCESS DOOR(S) ARE PROVIDED FOR INTERIOR INSPECTION, CLEANING, AND ADJUSTMENTS ARE CONSTRUCTED OF G–235 (Z700 METRIC) HOT–DIP GALVANIZED STEEL. THE HEAT TRANSFER CASING SECTION(S) IS (ARE) REMOVABLE FROM THE BASIN/FAN SECTION TO FACILITATE RIGGING. THE MOTOR BASE IS SHELTERED FROM THE WEATHER BY EITHER THE LOCATION WITHIN THE UNIT OR A PROTECTIVE MOTOR HOUSING. COLD WATER BASIN INCLUDES A DEPRESSED SECTION WITH DRAIN/CLEAN–OUT CONNECTION AND THE AREA UNDER THE COIL CASING IS SLOPED TOWARD THE DEPRESSED SECTION FOR EASY CLEANING.

FAN DRIVE SYSTEM:

- THE UNIT IS EQUIPPED WITH HEAVY DUTY, EXTRUDED ALUMINUM, AXIAL FLOW FANS DRIVEN BY THE EXCLUSIVE BALTDRIVE® POWERTRAIN. THIS UNIQUE DRIVE SYSTEM UTILIZES SPECIAL MATERIALS OF CONSTRUCTION AND STATE OF THE ART TECHNOLOGY TO PROVIDE THE DURABILITY, STABILITY, AND LONGEVITY REQUIRED TO MEET THE DEMANDING NEEDS OF TODAY’S INDUSTRIAL REFRIGERATION SYSTEMS. THE FIVE–YEAR WARRANTY PROVIDED ON ALL BAC EVAPORATIVE COOLING EQUIPMENT IS THE MOST COMPREHENSIVE FAN MOTOR AND MECHANICAL EQUIPMENT WARRANTY AVAILABLE IN THE INDUSTRY. INCLUDED IN THE FIVE–YEAR WARRANTY ARE THE MECHANICAL EQUIPMENT SUPPORT, FAN(S), FAN SHAFT(S), BEARINGS, SHEAVES, AND FAN MOTOR(S). EXTENDED LUBRICATION LINES ARE STANDARD. THE MOTORS ON THE 7X9 AND 7X18 FOOTPRINTS SHIP LOOSE FOR FIELD INSTALLATION.

COIL TYPE:

- THE REFRIGERANT CONDENSING COIL SHALL BE FABRICATED OF 1.05” O.D. ALL PRIME SURFACE STEEL AT THE MANUFACTURER’S OWN FACILITY, AND HOT–DIP GALVANIZED AFTER FABRICATION (HDGAF). COIL SHALL HAVE A MAXIMUM ALLOWABLE WORKING PRESSURE OF 300 PSIG (2170 KPA) AND IS TESTED AT 375 PSIG (2685 KPA) AIR PRESSURE UNDER WATER. THE REFRIGERANT CONDENSING COIL SHALL BE DESIGNED FOR LOW PRESSURE DROP WITH SLOPING TUBES FOR FREE DRAINAGE OF LIQUID REFRIGERANT. THE REFRIGERANT CONDENSING COIL SHALL BE ASME B31.5 COMPLIANT.

DRIFT ELIMINATORS:

- DRIFT ELIMINATORS WILL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC), AND WILL BE REMOVABLE IN EASILY HANDLED SECTIONS. THEY WILL IMPART THREE DISTINCT CHANGES IN AIR DIRECTION TO EFFECTIVELY STRIP ENTRAINED MOISTURE FROM THE LEAVING AIRSTREAM WITH MINIMUM AIR RESISTANCE.

UNIT SUPPORTS:

- PLAN A SUPPORT BEAMS WILL BE FURNISHED AND INSTALLED BY OTHERS.

EQUIPMENT STRUCTURE:

- THE STRUCTURE OF THIS PRODUCT HAS BEEN DESIGNED, TESTED AND INDEPENDENTLY CERTIFIED IN ACCORDANCE WITH THE WIND AND SEISMIC LOAD REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE (IBC) AND ASCE/SEI 7–10. FOR MORE INFORMATION AND SPECIFIC WIND AND SEISMIC LOAD CAPACITY RATINGS, PLEASE SEE THE CERTIFICATE OF WIND AND SEISMIC LOAD CAPACITY.

BASIN WATER LEVEL CONTROL:

- BASIN WATER LEVEL CONTROL ASSEMBLIES WILL CONSIST OF LARGE–DIAMETER POLYSTYRENE–FILLED FLOATS, ADJUSTABLE LINKAGES, AND CORROSION RESISTANT MAKE–UP VALVES.

BASIN HEATER(S):

- UNITS EXPOSED TO BELOW FREEZING AMBIENT TEMPERATURES REQUIRE PROTECTION TO PREVENT FREEZING OF THE BASIN WATER WHEN THE UNIT IS IDLE. THE HEATER(S) HAVE BEEN SELECTED TO MAINTAIN +40°F BASIN WATER TEMPERATURES OFFERING A SIMPLE AND INEXPENSIVE WAY OF PROVIDING SUCH PROTECTION. THE ELECTRIC IMMERSION HEATERS ARE SHIPPED INSTALLED. SOME FIELD WIRING IS REQUIRED.

HEATER ELEMENT MATERIAL OF CONSTRUCTION:

- THE UNIT IS SUPPLIED WITH COPPER HEATER ELEMENTS.

BASIN HEATER CONTROL:

- THE HEATERS ARE INSTALLED IN THE BASIN AND ARE CONTROLLED BY A REMOTE THERMOSTAT WITH THE SENSING BULB IN THE BASIN. A LOW–WATER CUTOFF SWITCH PREVENTS HEATER OPERATION UNLESS THE HEATER ELEMENTS ARE FULLY SUBMERGED. SOME FIELD WIRING IS REQUIRED.

WATER OULET(S):

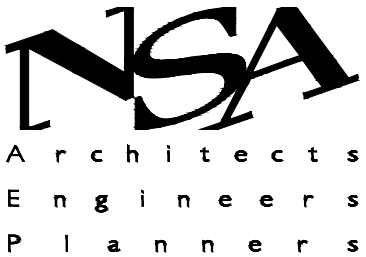
- THE UNIT WILL BE PROVIDED WITH A BOLT HOLE PATTERN FOR THE WATER OUTLET.

REFRIGERATION CONTROLS:

- A SINGLE VFD SIZED TO CONTROL ALL FAN MOTORS PER CELL.

REFRIGERANT PRESSURE SENSOR:

- A REFRIGERANT PRESSURE SENSOR SHALL BE PROVIDED WITH EITHER THE VFD ONLY OPTION OR THE TOTAL CONTROLS PACKAGE.



23761 Research Drive
Farmington Hills
Michigan 48335

248.477.2444
248.477.2445 fax

www.nsa-ac.com

Founded 1960

Client:



Project Title:

NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT

Date:
01-06-17

Issued for:
BIDS & PERMITS

Drawn:

MS

Designed:

MS

Checked:

Approved:

CAD Drawing File:

MSK-5.dwg

Copyright ©2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

MECHANICAL
SPECIFICATION

Sheet Number:

MSK-6

STANDARD OPERATING PROCEDURES AMMONIA UNLOADING (LOAD-IN) PROCEDURE STANDARD OPERATING PROCEDURE

PREPARATION 1. BE FAMILIAR WITH THE EMERGENCY RESPONSE PROCEDURES FOR THE FACILITY.

2. KNOW THE LOCATION OF THE NEAREST EYE WASH/SAFETY SHOWER.

3. KNOW THE LOCATION OF THE VALVES, WHICH WOULD HAVE TO BE CLOSED TO ISOLATE THE LINE/EQUIPMENT IN AN EMERGENCY.

4. BE FAMILIAR WITH AMMONIA FIRST AID PROCEDURES.

5. BE FAMILIAR WITH THE LINE AND EQUIPMENT OPENING PROCEDURES.

ASSEMBLE EQUIPMENT BEFORE GOING TO THE AMMONIA UNLOADING PROCEDURE, ASSEMBLE THE FOLLOWING EQUIPMENT:

A ELBOW-LENGTH RUBBER GLOVES

B SPLASH GOGGLES AND FACE SHIELD

C CLEAN BUCKET CONTAINING WATER OR QUICK ACCESS TO A WATER HOSE.

D CLOSED VALVE MARKERS AND LOCKS

E EMERGENCY SERVICE BUCKET CONTAINING A FULL FACE TYPE GAS MASK, EYE WASH BOTTLE, PIPE WRENCH

AMMONIA UNLOADING PROCEDURES

1. NOTIFY PERSONNEL AND SUPERVISORS IN THE AREA THAT AMMONIA-UNLOADING PROCEDURES ARE TO BE CARRIED OUT.

2. ENSURE THAT A BACKUP PERSON (BUDDY-SYSTEM), IN ADDITION TO THE DELIVERY TANK TRUCK DRIVER, IS AVAILABLE FOR THE REMAINDER OF THESE PROCEDURES.

3. CHECK THE DOCUMENTS PROVIDED BY THE DELIVERY TANK TRUCK TO ENSURE DELIVERY OF THE CORRECT GRADE AND PURITY OF AMMONIA.

4. ENSURE THAT THE DRIVER OF THE TANK TRUCK HAS PULLED THE TANK TRUCK AS CLOSE AS POSSIBLE TO THE UNLOADING LINE TO MINIMIZE THE POTENTIAL FOR ACCIDENTS.

5. ENSURE THAT THE DELIVERY TRUCK DRIVER LOCKS THE TRUCK'S BRAKES AND CHOCKS THE WHEELS. USE YELLOW CAUTION TAPE TO ISOLATE THE AREA. USE CONES TO PROTECT HOSE FROM ANY VEHICLE TRAFFIC.

6. ALLOW THE DELIVERY PERSON TO USE HIS CHECKLIST TO CHECK THE EQUIPMENT AND CONDITIONS IN THE REFRIGERATION ROOM.

7. SLOWLY REMOVE THE CAP FROM THE UNLOADING LINE AT THE CONTROLLED PRESSURE RECEIVER. INSTALL PROPER ADAPTOR FOR LIQUID HOSE.

8. WORK WITH DELIVERY DRIVER AS REQUIRED. UNROLL THE AMMONIA HOSE AND INSPECT IT CAREFULLY FOR CRACKS OR OTHER SIGNS OF WEAR THAT COULD RESULT IN HOSE FAILURE AND TO ENSURE IT IS RATED FOR AMMONIA SERVICE AND VERIFY THAT IT IS WITH IN DATE. NEVER USE A HOSE THAT IS IN POOR CONDITION OR THAT IS NOT RATED AND IS VERIFIED SAFE AND IN DATE FOR AMMONIA SERVICE.

9. WHEN YOU HAVE COMPLETED THE ABOVE STEPS, GIVE THE GO AHEAD TO THE DELIVERY PERSON THAT HE MAY CONNECT THE HOSE TO THE TANK TRUCK AND TO THE UNLOADING LINE.

10. PLANT ENGINEER OR PLANT OPERATOR SHOULD MONITOR THE DELIVERY PERSON AS HE CLOSSES THE BLEED VALVE ON THE UNLOADING HOSE.

11. OPEN THE VALVE IN THE UNLOADING LINE AT THE CPR AND THE MANUAL VALVES ON THE TANK TRUCK.

12. MONITOR CLOSELY AS TRUCK PUMP IS STARTED AND BEGIN UNLOADING AMMONIA TO THE CPR. VERIFY THAT THE PUMP FLOW DIRECTION INDICATOR SHOWS PROPER FLOW DIRECTION. BE SURE TO MONITOR THE LEVELS IN THE CONTROLLED PRESSURE RECEIVER AND IN THE TANK TRUCK.

13. WHEN THE AMMONIA UNLOADING IS COMPLETED, CLOSE THE UNLOADING VALVE LOCATED ON THE TANK TRUCK FIRST AND THEN CLOSE THE VALVE LOCATED ON THE CPR.

14. SEE THAT THE PUMP DOWN SYSTEM ON THE TRUCK IS USED TO PUMP DOWN ANY RESIDUAL AMMONIA IN THE UNLOADING HOSE BACK TO THE TRUCK.

15. OPEN THE BLEED VALVE TO DRAIN ANY RESIDUAL AMMONIA IN THE UNLOADING HOSE INTO A BUCKET OF WATER. WHEN THERE IS NO MORE AMMONIA IN THE HOSE, CLOSE THE BLEED VALVE AND DISCONNECT THE BLEED HOSE AND THE UNLOADING HOSE.

16. WAIT APPROXIMATELY 10 MIN. TO LET ANY RESIDUAL OIL DRIP OFF THE UNLOADING LINE. THEN REPLACE THE CAP ON THE UNLOADING LINE.

17. BE SURE TO MONITOR THE LEVEL IN THE HIGH-PRESSURE RECEIVER OVER THE NEXT SEVERAL HOURS.

18. AFTER THE WORK IS COMPLETED, NOTIFY THE AREA PERSONNEL, THE SUPERVISORS, AND THE BACKUP PERSONNEL.

Client:



Project Title:

**NOVI ICE ARENA
TOWER REPLACEMENT
EVAPORATIVE CONDENSER
TOWER REPLACEMENT**

Date:
01-06-17

Issued for:
BIDS & PERMITS

Drawn:	MS	Designed:	MS
Checked:		Approved:	

CAD Drawing File: MSK-7.dwg

Copyright © 2015
NSA Architects, Engineers, Planners

Project Number:

Sheet Title:

**MECHANICAL
SPECIFICATION**

Sheet Number:

MSK-7



CITY of NOVI CITY COUNCIL

Agenda Item G
September 14, 2015

SUBJECT: Approval to award the Ice Arena mechanical roof replacement at the Novi Ice Arena facility to Garland/DBS, Inc., in the amount of \$57,906.94 based on U.S. Communities cooperative purchasing program.

SUBMITTING DEPARTMENT: Parks, Recreation & Cultural Services/Facilities Management

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$57,906.94
AMOUNT BUDGETED	\$44,000
APPROPRIATION REQUIRED	None (due to savings in other projects)
LINE ITEM NUMBER	590-000.00-969.000

BACKGROUND INFORMATION:

The Novi Ice Arena mechanical roof is located at the east end of the facility and holds most of the HVAC equipment. Over the years the roof has become dilapidated causing numerous water penetrations.

The proposed scope calls for the removal of the existing roof system down to the deck, the installation of 2" of insulation (Adding and estimated r-20 for increased energy savings), and the new built-up roofing system. The work will be completed by Garland/Design-Build Solutions (DBS) with construction scheduled to be completed by the end of September.

The pricing is based on the U.S. Communities cooperative purchasing program and the roof carries a 20-year warranty.

RECOMMENDED ACTION: Approval to award the Ice Arena mechanical roof replacement at the Novi Ice Arena facility to Garland/DBS, Inc., in the amount of \$57,906.94 based on U.S. Communities cooperative purchasing program.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Markham				

	1	2	Y	N
Council Member Mutch				
Council Member Poupard				
Council Member Wrobel				



Garland/DBS, Inc.
3800 East 91st Street
Cleveland, OH 44105
Phone: (800) 762-8225
Fax: (216) 883-2055



ROOFING MATERIAL AND SERVICES PROPOSAL

City of Novi
Ice Arena Roof Replacement
Date Submitted: 08/25/2015
Proposal #: 25-MI-150474
MICPA # 14-5903

Please Note: The following estimate is being provided according to the pricing established under the Master Intergovernmental Cooperative Purchasing Agreement (MICPA) with Cobb County, GA and U.S. Communities. This estimate should be viewed as the maximum price an agency will be charged under the agreement. Garland/DBS, Inc. administered a competitive bid process for the project with the hopes of providing a lower market adjusted price whenever possible.

Scope of Work: Roof Replacement

- 1 Remove existing roof system down to metal decking. Inspect and repair damaged metal decking where needed with prior approval from owner. Existing roof system compromised of fully adhered EPDM, cover board and polyisocyanurate insulation.
- 2 The contractor is to inspect metal decking for deficiencies and replace at unit cost with approval from owner.
- 3 Mechanically fasten 2" of polyisocyanurate insulation in two layers, staggering joints, throughout.
- 4 Mechanically fasten ½" pre-primed SecuRock recovery board and new insulation per the fastener pattern provided in the wind up-lift calculations.
- 5 Install (cold applied) VersiPly 40 base sheet and StressPly FR mineral cap sheet throughout field of roof in cold-process adhesive. Install in a shingle fashion from low to high point of the roof slope to promote positive drainage.
- 6 Install VersiPly 40 base sheet (cold applied) and StressPly FR Mineral cap sheet to all flashings in cold-process Flashing Adhesive.
- 7 All flashings to receive three-course at vertical and horizontal seams using mastic and reinforcement fabric.
- 8 Apply two coats of aluminized coating to entire roof surface once mastic has cured. (30 days).
- 9 Existing gas lines to be primed and receive two coats of "Safety Yellow."
- 10 New pitch-pans to be installed at screen wall supports. Coat with aluminized coating. (quantity of 2).

Line Item Pricing

Item #	Item Description	Unit Price	Quantity	Unit	Extended Price
2.11	Tear-off & Dispose of Debris: SYSTEM TYPE Single-Ply W/ Insulation - Metal Deck	\$ 1.45	1700	SF	\$ 2,465
6.16.01	Roof Deck and Insulation Option: METAL ROOF DECK - COLD PROCESS APPLICATION - INSULATION OPTION: - Mechanically Fasten Polyisocyanurate / Adhere High Density Asphalt Coated Wood Fiber with Insulation Adhesive to Provide an Average R-Value of 20 In Compliance FM 1-90 Requirements	\$ 3.22	1700	SF	\$ 5,474
4.23	Insulation Recovery Board & Insulations Options: RECOVERY BOARD TYPE 1/2" Treated Gypsum Insulation Board with Glass- Mat (e.g. DensDeck / Securock / Equal) Installed Over an Existing Roof Mechanically Fastened to Roof Deck - Metal Deck	\$ 1.35	1700	SF	\$ 2,295
12.12.02	2-PLY ROOF SYSTEMS - COMBINATIONS OF A BASE PLY & A CAP SHEET (TOP PLY) PLEASE NOTE: BASE PLY & CAP SHEET COMBINATIONS MUST BE APPROVED BY THE MANUFACTURER: ROOF CONFIGURATION 1 Ply Modified Base Sheet Adhered in Cold Process Modified Asphalt: BASE PLY OPTION: - ASTM D 6163 SBS Fiberglass Reinforced Modified Bituminous Sheet Material Type III - 220 lbf/in tensile	\$ 3.83	1700	SF	\$ 6,511
12.32.02	2-PLY ROOF SYSTEMS - COMBINATIONS OF A BASE PLY & A CAP SHEET (TOP PLY) PLEASE NOTE: BASE PLY & CAP SHEET COMBINATIONS MUST BE APPROVED BY THE MANUFACTURER: ROOF CONFIGURATION 1 Ply Mineral Surfaced Cap Sheet Adhered in Cold Process Modified Asphalt: ROOFING MEMBRANE OPTION: - ASTM D 6163 SBS Fiberglass Reinforced Modified Bituminous Sheet Material Type III - Minimum of 220 lbf/in tensile	\$ 4.69	1700	SF	\$ 7,973
20.11.02	NEW FLASHINGS FOR ROOFING SYSTEMS & RESTORATION OPTIONS: ROOF FLASHINGS FOR MODIFIED & COAL TAR PITCH ROOF SYSTEMS: Minimum 1 Ply of Base Flashing and Mineral Cap Sheet Installed in Hot ASTM D 312 Type III or IV Asphalt:FLASHING OPTION: - BASE PLY: SBS Modified Fiberglass Reinforced Base Flashing Ply w/ Tensile Strength of 215 lbf/in tensile (ASTM D 5147); TOP PLY: ASTM D 6163 SBS Fiberglass Reinforced Modified Bituminous Sheet Material Type III - 220 lbf/in tensile	\$ 14.66	700	SF	\$ 10,262

5.31	Coat New Roofing With Elastomeric Coating: ROOF SYSTEM TYPE Apply an Aluminum Coating per Specifications (1 Gallon per Square per Coat - 2 Coats Required) - Smooth or Mineral Surfaced Modified	\$ 1.54	1700	SF	\$ 2,618
	Sub Total Prior to Multipliers				\$ 37,598
22.42	JOB SITE SPECIFIC MULTIPLIERS APPLIED TO EACH LINE ITEM ON ASSOCIATE JOB: MULTIPLIER - ROOF SIZE IS GREATER THAN 1,000 SF, BUT LESS THAN 2,000 SF Multiplier Applied when Roof Size is Less than 2,000 SF, but Greater than 1,000 SF Fixed Costs: Equipment, Mobilization, Demobilization, Disposal, & Set-Up Labor are Not Completely Absorbed Across Roof Area		85%	%	\$ 31,958
	Sub-Totals After Multipliers				\$ 69,556

Base Bid Total Maximum Price of Line Items under the MICPA: \$ 69,556

Proposal Price Based Upon Market Experience: \$ 57,906

Competitive Bid Results:

W.M Molnar Roofing Co., Inc.	\$ 57,906
Schena Roofing & Sheet Metal Co., Inc.	\$ 90,012
Bloom Roofing Systems, Inc.	\$ 137,215

Unforeseen Site Conditions:

Wood Blocking Replacemen	\$	2.85	Per LF
Decking Replacement	\$	7.41	Per Sqft

Potential issues that could arise during the construction phase of the project will be addressed via unit pricing for additional work beyond the scope of the specifications. This could range anywhere from wet insulation, to the replacement of deteriorated wood nailers. Proposal pricing valid through 12/31/2015. **Taxes and permit costs are not included in this proposal pricing.**

If you have any questions regarding this proposal, please do not hesitate to call me at my number listed below.

Respectfully Submitted,

Jeff Kozak

Jeff Kozak
Garland/DBS, Inc.
(216) 430-3518
jkozak@garlandind.com

MASTER AGREEMENT

(CONTRACT)

Reference No. 14905

Scanned Date: _____

PAGE 1 OF 1

DATE: _____

MASTER AGREEMENT

OWNER: COBB COUNTY BOARD OF COMMISSIONERS

100 CHEROKEE STREET

MARIETTA, GA 30060

CONTRACTOR: GARLAND/DBS, INC.

3800 EAST 91ST STREET, CLEVELAND

OHIO 44105

WORK: **ROOFING SUPPLIES AND SERVICES, WATERPROOFING AND RELATED PRODUCTS AND SERVICES:**
The undersigned parties understand and agree to comply with and be bound by the entire contents of Sealed Bid # 14-5903
: **ROOFING SUPPLIES AND SERVICES, WATERPROOFING AND RELATED PRODUCTS AND SERVICES**
PROJECT MANUAL (aka, the Contractor's Bid Proposal submitted March 27, 2014) which is incorporated here in by
reference. Contractor understands and agrees that the bonds and insurance required by the Project Manual are to be kept
current at all times through the length of each term and for 90 Days following completion of each term. Bonds and
insurance must be renewed and presented to the owner at the time of each renewal term if Owner chooses to renew. Bonds
and insurance shall be written by a firm acceptable to the Owner as specified in the Project Manual.

TERM: January 1, 2015 to December 31, 2017, with full renewal options per the Project Manual. Owner shall exercise renewal
options by issuance and delivery to Contractor of a written notice to renew this Agreement.

PROJECT: **ROOFING SUPPLIES AND SERVICES, WATERPROOFING AND RELATED PRODUCTS AND SERVICES** in
accordance with the Project Manual.

PRICE: Price as stated for all schedules included in the Project Manual.

BILLING: All original invoices shall be submitted directly to the Cobb County Finance Department. Invoices shall bill only for Work
completed during the period covered by the invoice and shall clearly identify such work in accordance with invoicing
guidelines in the Project Manual.

IN WITNESS WHEREOF, this Agreement has been executed by Owner and accepted by Contractor to be effective as of the date first above
written.



Cobb County Board of Commissioners

Cobb County... Expect the Best!

Garland /DBS, Inc.

100 Cherokee Street

East 91st Street

Marietta, GA 30060

Cleveland, Ohio 44195

Tim Lee, Chairman

DAVID SOKOL, PRESIDENT
Date: 08/28/2014

Date: 9/22/2014

FEDERAL TAX ID NUMBER: 27-0288466

APPROVED AS TO FORM

COUNTY ATTORNEY'S OFFICE

APPROVED
PER MINUTES OF
COBB COUNTY
BOARD OF COMMISSIONERS
7/22/2014



CITY of NOVI CITY COUNCIL

Agenda Item 4
April 7, 2014

SUBJECT: Approval to award the Novi Ice Arena lower level flooring replacement to Master Craft Carpet, the low bidder, in the amount of \$177,827; including an additional appropriation from the Ice Arena Reserve for Capital Replacement Fund in the amount of \$127,527.

SUBMITTING DEPARTMENT: Parks, Recreation & Cultural Services *JSM*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$ 177,827
AMOUNT BUDGETED	\$ 50,300
APPROPRIATION REQUIRED	\$ 127,527
LINE ITEM NUMBER	590-000.00-390.500 590-000.00-969.000

BACKGROUND INFORMATION:

The original flooring in the lower level of the ice arena was laid in 1998 and has reached the end of its useful life. There is heavy wear due from years of foot traffic from hockey and figure skates. New flooring will provide a safe and clean facility for Novi residents and visitors.

The Novi Ice Arena completed a Capital Needs Assessment on the building in 2009. In that assessment, costs of flooring materials were based on the replacement cost of the main level flooring which was done the year prior. The initial budgeted amount to replace the lower level flooring in 2014 was based on similar figures of square footage and costs of materials.

Bids were received and the low bid was 3 ½ times the amount budgeted due to the fact that upon measurement, the square footage of the lower level area is nearly two times as large as originally thought. Exact measurements were never done by the arena management company. In addition, the cost of the flooring for this project is nearly 50% higher than when it was done in 2008. The same brand of flooring and the same size tile has been quoted, but the increase is due to a higher labor cost associated with the demolition of the existing flooring.

Three bids were received for the replacement of the lower level flooring replacement and the lowest bid was received from Master Craft Carpet. There is currently \$872,409 in the Reserve for Capital Replacement Ice Arena Fund.

RECOMMENDED ACTION: Approval to award the Novi Ice Arena lower level flooring replacement to Master Craft Carpet, the low bidder, in the amount of \$177,827; including an additional appropriation from the Ice Arena Reserve for Capital Replacement Fund in the amount of \$127,527.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

	1	2	Y	N
Council Member Markham				
Council Member Mutch				
Council Member Wrobel				

CITY OF NOVI
Ice Arena Lower Level Flooring Replacement
January 21, 2014 2:00 P.M.

This tabulation reflects submittal data by the following companies. However, they have not been evaluated for accuracy of information. Final decision for award

Company	Master Craft Carpet	Conventional Carpet	Mid American Contract Carpet DBA Solar Contract Carpet
Base Bid - Square Tiles	\$ 177,827.00	\$ 200,627.00	\$ 260,028.86
Manufacturer/Style	Per spec / Nora 992 Grano	Nora 992, Color: 4880 Drusy	Norament Grano 992 Hammerblow 9mm (Color Black Pearl or TBD)
Square Feet	approx 11,021	9,845	11,159
Alternate #1 - Rolled Goods	\$ 71,787.00	No bid	N/A
Manufacturer/Style	Everlast 8mm Recycled Roll rubber 4 ft wide, Zone 1 style		Nora not offered in rolls
Square Feet	approx 11,021		
Alternate #2 - Re-install used flooring at end of each rink (per square foot)	\$ 6.50	No bid	\$2.00 includes adhesive
Warranty	Labor 1 year. Manufacturer's warranty on materials	1 year	product mfr warranty and 1 yr warranty on labor
Lead time to obtain materials	Base bid single dye lot 8-10 weeks. Multiple dye lots 5-6 weeks. Alt #1 2-3 weeks	2 weeks after receipt of material	NA until order is placed
Days require to complete the job	14 days as allowed	2 weeks	14
Can do the work April 1- April 14, 2014	yes, depending on material scenario	Yes	yes
Exceptions to specifications	All toilets are floor mounted. They will need to be removed and replaced by others for a proper installation.	Old flooring can not be saved to reuse.	
Comments	All work is self performed. All installers are Nora certified. We own all of our own demo equipment and delivery vehicles. We will place a dumpster on site. No subs will be used except for dumpster. ALT #1 - Quoting Recycled Everlast 8mm roll goods style Zone 1 0-15% EPDM		We think it is unlikely that existing flooring will come up in a manner that can be salvaged for reinstallation. If it can be reinstalled, due to wear, tiles are uneven thicknesses and will not butt up against each other properly or be level.
Acknowledged Addenda	1	1	1



cityofnovi.org

ORIGINAL

REVISED

CITY OF NOVI

ICE ARENA LOWER LEVEL FLOORING REPLACEMENT

BID FORM

We, the undersigned as bidder, propose to furnish to the City of Novi according to the specifications, terms, conditions and instructions attached hereto and made a part thereof:

BASE BID - Square Tiles \$ 177,827.00 **Lump Sum**

Manufacturer, Style & Color Per spec/ Nora 992 Grano

Square Feet appx 11,021

ALTERNATE #1- Rolled goods \$ 71,787.00 **Lump Sum**

Manufacturer, Style & Color Everlast 8mm Recycled Roll rubber 4ft wide Zone 1 Style

Square Feet same

ALTERNATE #2 – Re-install flooring at designated area around West End of two rinks, includes floor prep and new wall base

\$ 6.50 / Square foot installed

Condition of demo'd material could be questionable

Warranty Labor 1 year/ Manufacturer's warranties apply for materials

Lead time required to obtain materials Base bid single dye lot 8-10 weeks. Multiple dye lots 5-6 weeks. Alt #1 2-3 weeks

Days required to complete the job We could complete in the 14 days allowed.

Will you be able to do the work as specified between April 1, 2014 and April 14, 2014?
yes- depending on the material scenario

We acknowledge receipt of the following Addenda: 1
(please indicate numbers)

EXCEPTIONS TO SPECIFICATIONS (all exceptions must be noted here):

All toilets are floor mounted. They will need to be removed and replaced by others for a proper installation.

COMMENTS: ALL work is self-performed. All installers are Nora certified.
We own all or our own demo equipment and delivery vehicles. We will place a
dumpster on site. No subcontractors will be used/except for dumpster.
ALT #1 Quoting Recycled Everlast 8mm roll goods style Zone 1 0-15% EPDM

REFERENCES: Please provide at least three client (3) references for projects of similar scope done in the last 3 years.

Company City of Novi- Novi Ice Arena 1st Floor
Address _____
Phone _____ Contact name Alex Brockman/ Sub Sports Group

Company Troy Sports Center
Address 1819 E. Big Beaver Rd Troy, MI 48083
Phone 248-689-6600 Contact name Dennis Bostick/Jay Hackard

Company Ideal Contracting/ GM Wellness Center/ Warren, MI
Address Warren Tech Center
Phone _____ Contact name Erin Wolf/ Ideal Contracting (Detroit)

THIS BID SUBMITTED BY:

Company (Legal Registration) Master Craft Carpet Service, Inc.
Address 12870 Inkster Rd
City Redford State MI Zip 48239
Telephone 313 387 7000 x 116 Fax 313-387-0266

Agent's Name Steven J. Bracey / Employee Master Craft Carpet Service, Inc.

Agent's Title Project Manager

Signature 

E-mail Steve.Bracey@mastercraftcarpets.com

Date 1/20/14

Lower Level Flooring Pictures



The existing lower level flooring is wearing away many spots and needs to be replaced. Flooring needs to cover completely or it can be a trip hazard and/or damage skate blades.



CITY of NOVI CITY COUNCIL

Agenda Item H
July 22, 2013

SUBJECT: Approval of the final payment and change order to Nagle Paving Company for the 2012 Parking Lot Improvements project at Novi Ice Arena (access drive and parking lot), Ella Mae Power Park (access drive and south parking lot), Fire Station No. 1, and Police Headquarters (east parking lot), in the amount of \$41,524.18.

SUBMITTING DEPARTMENT: Department of Public Services, Engineering Division ^{R74}
Parks, Recreation and Cultural Services Department ^{BTC}
Department of Public Safety

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$41,524.18
AMOUNT BUDGETED	\$ 66,000 (Ice Arena Access Drive for FY 2011-12, will be included in FY 2012-13 roll over budget amendment) \$250,000 (Ice Arena Parking Lot) \$310,000 (Ella Mae Power Park) \$ 86,642 (Fire Station 1 Parking Lot) \$116,700 (Police Station East Parking Lot) \$829,342 TOTAL
LINE ITEM NUMBER	204-204.00-865.643 (Ice Arena Access Drive) 590-000.00-158.000 (Ice Arena Parking Lot) 208-691.00-974.094 (Ella Mae Power Park) 101-337.00-971.100 (Fire Station 1 Parking Lot) 101-301.00-971.100 (Police Station East Parking Lot)

BACKGROUND INFORMATION:

This project included multiple parking lots and access drives funded by various sources in both FY11-12 and FY12-13. The project included the rehabilitation of four city parking lots: Novi Ice Arena (included access drive), Ella Mae Power Park – South Lot (included access drive), Fire Station No. 1 Parking Lot, and Police Headquarters (east parking lot). The rehabilitation methods used ranged from complete pavement removal and replacement to minor patching and repairs. Drainage improvements were also completed in some locations where appropriate. The project was awarded to Nagle Paving Company, in the amount of \$818,065.75 at the August 13, 2012 City Council meeting.

Engineering staff worked with the engineering consultant for this project, Orchard, Hiltz & McClimint, Inc., to review and verify the final contract payment amount of \$41,524.18 that is due the contractor (Final Pay Estimate No. 4, attached). The City Attorney reviewed the documentation and found it to be in an acceptable form (Beth Saarela's July 8, 2013 letter, attached).

There were six approved change orders for this project resulting in a net decrease of \$72,257.77 to the construction contract or 8.8% under the awarded amount. The first

change order balanced the existing line items for Parks, Recreation and Cultural Services' portion of the project (Ice Arena Parking Lot and Access Drive and Ella Mae Power Park and Access Drive), in the decreased amount of \$38,962.00. The second change order added quantities after balancing for the Public Safety portion (Fire Station No. 1 and Police Headquarters East Parking Lot), in the increased amount of \$4,190.89. The third change order balanced existing line items for the Ice Arena Parking Lot, in the decreased amount of \$25,632.11. The fourth change order balanced existing line item quantities for Fire Station No. 1 and Police Headquarters East Lot, in the decreased amount of \$16,010.55. The fifth change order added quantity of topsoil, seed and mulch for the Ice Arena Parking Lot, in the added amount of \$600.00. The sixth and final change order added underdrain and concrete collars around the existing catch basin structures, in the amount of \$3,556.00. The approved change orders resulted in a final contract price of \$745,807.98.

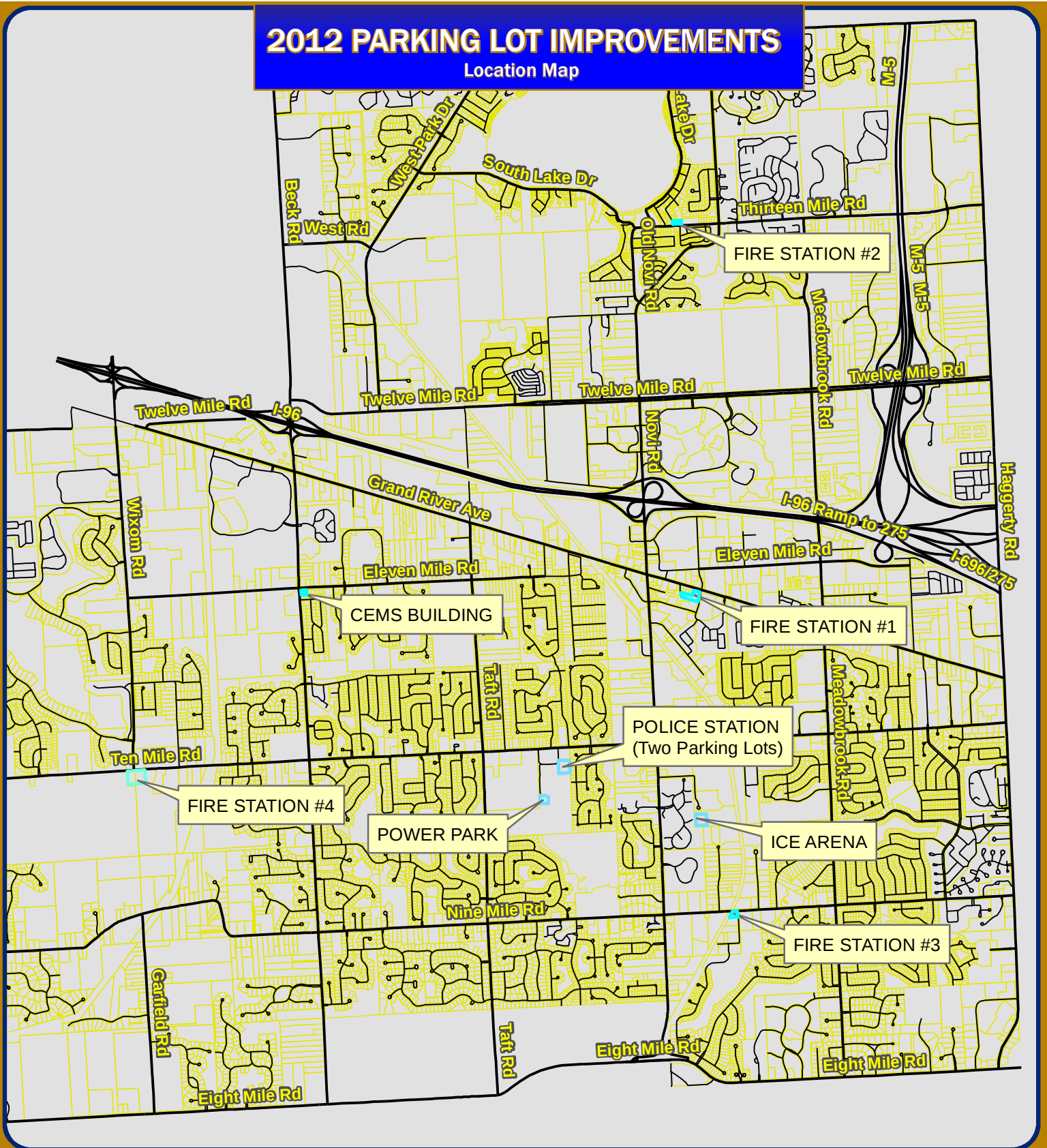
RECOMMENDED ACTION: Approval of the final payment and change order to Nagle Paving Company for the 2012 Parking Lot Improvements project at Novi Ice Arena (access drive and parking lot), Ella Mae Power Park (access drive and south parking lot), Fire Station No.1 , and Police Headquarters (east parking lot), in the amount of \$41,524.18.

	1	2	Y	N
Mayor Gatt				
Mayor Pro Tem Staudt				
Council Member Casey				
Council Member Fischer				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Wrobel				

2012 PARKING LOT IMPROVEMENTS

Location Map



Map Author: Croy
Date: 6/25/12
Project: Parking Lot Improvements 2012
Version #: v1.2



Feet
0 800 1,600 3,200 4,800 6,400

1 inch = 4,013 feet

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.



City of Novi

Engineering Division
Department of Public Services
26300 Delwal Drive
Novi, MI 48375
cityofnovi.org



JOHNSON ROSATI SCHULTZ JOPPICH PC

34405 W. Twelve Mile Road, Suite 200 ~ Farmington Hills, Michigan 48331-5627
Phone: 248.489.4100 | Fax: 248.489.1726

Elizabeth Kudla Saarela
esaarela@jrsjlaw.com

www.johnsonrosati.com

July 8, 2013

Judy Reedy and Nevrus Nazarko
Finance Department
CITY OF NOVI
45175 W. Ten Mile Road
Novi, MI 48375

RE: 2012 Parking Lot Improvements
Nagle Paving Company

Dear Ms. Reedy and Mr. Nazarko:

We have received and reviewed the following closing documents for the 2011 Neighborhood Road Program:

1. Change Orders 5 and 6
2. Application for Final Payment
3. Contractor's Sworn Statement
4. Maintenance and Guarantee Bond Rider
5. Waivers of Lien
6. Consent of Surety

The closing documents appear to be in order subject to approval of the Application by City Staff. It is our understanding that the contractor, Nagle Paving Company, will submit its final waiver of lien at the time it picks up its final payment.

If you have any questions regarding the above, please do not hesitate to contact me.

Very truly yours,

JOHNSON, ROSATI, SCHULTZ & JOPPICH, P.C.

Elizabeth Kudla Saarela

Judy Reedy and Nevrus Nazarko
Finance Department
CITY OF NOVI
July 8, 2013
Page 2

EKS

Enclosures

C: Maryanne Cornelius, Clerk (w/Enclosures)
Clay Pearson, City Manager (w/Enclosures)
Aaron Staup, Construction Engineering Coordinator (w/Enclosures)
Chris Donajkowski, OHM (w/Enclosures)
Thomas R. Schultz, Esquire (w/Enclosures)

ARCHITECTS. ENGINEERS. PLANNERS.



June 20, 2013

Mr. Aaron Staup
Construction Engineering Coordinator
City of Novi
26300 Lee BeGole Drive
Novi, Michigan 48375

Attention: Mr. Aaron Staup
City of Novi

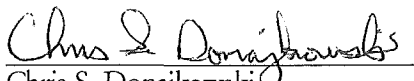
Regarding: 2012 Parking Lot Improvements
OHM Job No. 0163-12-0083

Dear Mr. Staup:

Enclosed are Application for Progress Payment No. 4rev (FINAL) and the following close out documents for the referenced project. The documents include: 1) Contractor's Sworn Statement; 2) Schedule B; 3) Consent of Surety; and 4) Full Unconditional Waivers from subcontractors and suppliers.

Nagle Paving Company has completed the work shown on the attached construction estimate for the period ending June 18, 2013 and we would recommend payment to the Contractor in the amount of \$41,524.18 which includes the full release of previously held retainage and a deduction for .75 Crew Day overage.

Sincerely,
OHM Advisors


Chris S. Donajkowski
Project Engineer

cc: Sean Morrissey, Nagle Paving, 39525 W. 13 Mile Road, Suite 300, Novi, MI 48377
File

P:\0126_0165\0163120080_Power_Park_Ice_Arena_CONST\Estimates_Change Orders\Estimates\No.4\Parking Lots
Est No.4rev(FINAL).doc



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

OWNER: City of Novi
45175 W. Ten Mile Road
Novi, Michigan 48375

ENGINEER: Nagle Paving Company
39525 W. 13 Mile Road, Suite 300
Novi, Michigan 48377

CONTRACTOR: Orchard, Hiltz & McCliment, Inc.
34000 Plymouth Road
Livonia, Michigan 48150

CONTRACT AMOUNT

SUBSTANTIAL COMPLETION DATE

DATES OF ESTIMATE

ORIGINAL: \$ 818,065.75

ORIGINAL: 11/08/12

FROM: November 29, 2012

REVISED: \$ 745,807.98

REVISED:

TO: June 18, 2013

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
0	Crew Day-Div A-Ice Arena Access Dr	CD	7	\$ 615.00	\$ 4,305.00	6	\$ 615.00	\$ 3,690.00	0.25	\$ 153.75	4%	6.25	\$ 3,843.75	104%
0	Crew Day-Div B-Ice Arena Parking Lot	CD	15	\$ 615.00	\$ 9,225.00	12	\$ 615.00	\$ 7,380.00				12.00	\$ 7,380.00	100%
0	Crew Day-Div C-Ella Mae Power Park	CD	20	\$ 615.00	\$ 12,300.00	19	\$ 615.00	\$ 11,377.50				18.50	\$ 11,377.50	100%
0	Crew Day-Div E-Fire Station #1	CD	5	\$ 615.00	\$ 3,075.00	3	\$ 615.00	\$ 1,537.50	0.50	\$ 307.50	20%	3.00	\$ 1,845.00	120%
0	Crew Day-Div J-Police Station East	CD	8	\$ 615.00	\$ 4,920.00	16.50	\$ 615.00	\$ 10,147.50				16.50	\$ 10,147.50	100%
Division A: Ice Arena Access Drive														
1	Mobilization, Max 10%	LS	1	\$ 2,500.00	\$ 2,500.00	1	\$ 2,500.00	\$ 2,500.00				1.00	\$ 2,500.00	100%
2	Audio Video Route Survey	LS	1	\$ 300.00	\$ 300.00	1	\$ 300.00	\$ 300.00				1.00	\$ 300.00	100%
3	Mtraffic Maintenance and Control	LS	1	\$ 1,000.00	\$ 1,000.00	1	\$ 1,000.00	\$ 1,000.00				1.00	\$ 1,000.00	100%
4	Erosion Control, Inlet Filter	Ea	2	\$ 95.00	\$ 190.00	3	\$ 95.00	\$ 285.00				3.00	\$ 285.00	100%
5	Erosion Control, Silt Fence	Ft	144	\$ 2.00	\$ 288.00	58	\$ 2.00	\$ 116.00				58.00	\$ 116.00	100%
6	Earthwork	LS	1	\$ 6,700.00	\$ 6,700.00	1	\$ 6,700.00	\$ 6,700.00				1.00	\$ 6,700.00	100%
7	Pavt, Rem	Syd	3210	\$ 2.09	\$ 6,708.90	3209.50	\$ 2.09	\$ 6,707.86				3209.50	\$ 6,707.86	100%
8	Curb and Gutter, Remove	Ft	273	\$ 7.60	\$ 2,074.80	305.60	\$ 7.60	\$ 2,322.56				305.60	\$ 2,322.56	100%
9	Aggregate Base, 21AA	Ton	350	\$ 8.00	\$ 2,800.00	0	\$ 8.00	\$ -				0.00		
10	Subgrade Undercutting, Type II (Modified)	Cyd	110	\$ 25.00	\$ 2,750.00	0	\$ 25.00	\$ -				0.00		
11	Maintenance Aggregate, 21AA	Ton	100	\$ 9.00	\$ 900.00	0	\$ 9.00	\$ -				0.00		
12	HMA, 3C	Ton	350	\$ 63.50	\$ 22,225.00	351.25	\$ 63.50	\$ 22,304.38				351.25	\$ 22,304.38	100%
13	HMA, 13A	Ton	350	\$ 66.50	\$ 23,275.00	334.31	\$ 66.50	\$ 22,231.62				334.31	\$ 22,231.62	100%
14	Curb and Gutter, Conc	Ft	273	\$ 14.85	\$ 4,054.05	307.40	\$ 14.85	\$ 4,564.89				307.40	\$ 4,564.89	100%
15	Dr Structure, 4' dia	Ea	1	\$ 1,400.00	\$ 1,400.00	1	\$ 1,400.00	\$ 1,400.00				1.00	\$ 1,400.00	100%
16	Sewer, CI II, 12 inch, Tr Det B	Ft	22	\$ 50.00	\$ 1,100.00	21	\$ 50.00	\$ 1,050.00				21.00	\$ 1,050.00	100%
17	Underdrain, Subgrade, 6 inch, Modified	Ft	492	\$ 11.50	\$ 5,658.00	495	\$ 11.50	\$ 5,692.50				495.00	\$ 5,692.50	100%
18	Drainage Structure Tap, 12 inch	Ea	1	\$ 450.00	\$ 450.00	1	\$ 450.00	\$ 450.00				1.00	\$ 450.00	100%
19	Structure, Recon	Ton	1	\$ 250.00	\$ 250.00	1	\$ 250.00	\$ 250.00				1.00	\$ 250.00	100%
20	Topsoil, Seed and Mulch, 3 inch	LS	1	\$ 850.00	\$ 850.00	1	\$ 850.00	\$ 850.00				1.00	\$ 850.00	100%
Division B: Ice Arena Parking Lot														
1	Mobilization, Max. 10%	LS	1	\$ 2,600.00	\$ 2,600.00	1	\$ 2,600.00	\$ 2,600.00				1.00	\$ 2,600.00	100%
2	Audio Video Route Survey	LS	1	\$ 400.00	\$ 400.00	1	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
3	Traffic Maintenance and Control	LS	1	\$ 1,000.00	\$ 1,000.00	1	\$ 1,000.00	\$ 1,000.00				1.00	\$ 1,000.00	100%

TOTAL THIS SHEET

\$ 89,473.75

\$ 82,724.80

\$ -

\$ 82,724.80

100%



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
4	Erosion Control, Inlet Filter	Ea	6	\$ 75.00	\$ 450.00	4	\$ 75.00	\$ 300.00				4.00	\$ 300.00	100%
5	Erosion Control, Silt Fence	Ft	120	\$ 2.00	\$ 240.00		\$ 2.00					0.00		
6	Pavt. Rem	Syd	10200	\$ 2.10	\$ 21,420.00	9670	\$ 2.10	\$ 20,307.42				9670.20	\$ 20,307.42	100%
7	Curb and Gutter, Remove	Ft	386	\$ 7.60	\$ 2,933.60	386	\$ 7.60	\$ 2,933.60				386.00	\$ 2,933.60	100%
8	Aggregate Base, 21AA	Ton	1000	\$ 8.00	\$ 8,000.00		\$ 8.00					0.00		
9	Subgrade Undercutting, Type II (Modified)	Cyd	340	\$ 25.00	\$ 8,500.00	1	\$ 25.00	\$ 25.00				1.00	\$ 25.00	100%
10	Maintenance Aggregate, 21AA	Ton	50	\$ 9.00	\$ 450.00		\$ 9.00					0.00		
11	HMA, 3C	Ton	1200	\$ 63.50	\$ 76,200.00	1200	\$ 63.50	\$ 76,200.00				1200.00	\$ 76,200.00	100%
12	HMA, 13A	Ton	1200	\$ 66.50	\$ 79,800.00	1112.92	\$ 66.50	\$ 74,009.18				1112.92	\$ 74,009.18	100%
13	Conc Pavt, Nonreinf, 8 inch	Syd	90	\$ 33.00	\$ 2,970.00	100	\$ 33.00	\$ 3,300.00	10.00	\$ 330.00	11%	100.00	\$ 3,300.00	100%
14	Conc Pavt, Nonreinf, 6 inch	Syd	2	\$ 55.00	\$ 110.00		\$ 55.00					0.00		
15	Curb and Gutter, Conc	Ft	386	\$ 13.85	\$ 5,346.10	397.70	\$ 13.85	\$ 5,508.15	11.70	\$ 162.05	3%	397.70	\$ 5,508.15	100%
16	Dr. Structure, 8" dia	Ea	1	\$ 400.00	\$ 400.00	1	\$ 400.00	\$ 400.00				1.00	\$ 400.00	100%
17	Sewer, SDR 26, 8 inch, Tr Det B	Ft	78	\$ 29.00	\$ 2,262.00	76	\$ 29.00	\$ 2,204.00				76.00	\$ 2,204.00	100%
18	Drainage Structure Tap, 8 inch	Ea	1	\$ 150.00	\$ 150.00	1	\$ 150.00	\$ 150.00				1.00	\$ 150.00	100%
19	Structure, Recon	Ft	7.50	\$ 175.00	\$ 1,330.00	5.00	\$ 175.00	\$ 875.00				5.00	\$ 875.00	100%
20	Frame and Cover, Reset	Ea	1	\$ 450.00	\$ 450.00		\$ 450.00					0.00		
21	Pavt Mrkg, Waterborne, 4 inch, White	Ft	6250	\$ 0.25	\$ 1,562.50	5241	\$ 0.25	\$ 1,310.25				5241.00	\$ 1,310.25	100%
22	Pavt Mrkg, Waterborne, 4 inch, Blue	Ft	400	\$ 0.25	\$ 100.00	478	\$ 0.25	\$ 119.50	78.00	\$ 19.50	20%	478.00	\$ 119.50	100%
23	Pavt Mark, Waterborne, Handicap Symbol	Ea	8	\$ 40.00	\$ 320.00	8	\$ 40.00	\$ 320.00				8.00	\$ 320.00	100%
24	Topsoil, Seed and Mulch, 3 inch	LS	1	\$ 600.00	\$ 600.00	1	\$ 600.00	\$ 600.00	1.00	\$ 600.00	100%	1.00	\$ 600.00	100%
Division C: W. Ella Mae Power Park														
1	Mobilization, Max. 10%	LS	1	\$ 3,250.00	\$ 3,250.00	1	\$ 3,250.00	\$ 3,250.00				1.00	\$ 3,250.00	100%
2	Audio Video Route Survey	LS	1	\$ 600.00	\$ 600.00	1	\$ 600.00	\$ 600.00				1.00	\$ 600.00	100%
3	Traffic Maintenance and Control	LS	1	\$ 1,000.00	\$ 1,000.00	1	\$ 1,000.00	\$ 1,000.00				1.00	\$ 1,000.00	100%
4	Erosion Control, Inlet Filter	Ea	8	\$ 65.00	\$ 520.00	8	\$ 65.00	\$ 520.00				8.00	\$ 520.00	100%
5	Erosion control, Silt Fence	Ft	540	\$ 2.00	\$ 1,080.00	540	\$ 2.00	\$ 1,080.00				540.00	\$ 1,080.00	100%
6	Earthwork	LS	1	\$ 24,500.00	\$ 24,500.00	1	\$ 24,500.00	\$ 24,500.00				1.00	\$ 24,500.00	100%
7	Pavt. Rem	Syd	9957	\$ 2.20	\$ 21,905.40	9110.10	\$ 2.20	\$ 20,042.22				9110.10	\$ 20,042.22	100%
8	Curb and Gutter, Remove	Ft	136	\$ 6.00	\$ 816.00	136	\$ 6.00	\$ 816.00				136.00	\$ 816.00	100%
9	Parking Block, Remove	Ea	28	\$ 15.00	\$ 420.00	29	\$ 15.00	\$ 435.00				29.00	\$ 435.00	100%
10	Aggregate Base, 21AA	Ton	4600	\$ 11.75	\$ 54,050.00	3652.87	\$ 11.75	\$ 42,921.22				3652.87	\$ 42,921.22	100%
TOTAL FROM THIS SHEET					\$ 321,735.60	\$ 283,726.54			\$ 1,111.55			\$ 283,726.54		
TOTAL FROM OTHER SHEET					\$ 89,473.75	\$ 82,724.80			\$ -			\$ 82,724.80		
SUBTOTAL					\$ 411,209.35	\$ 366,451.33			\$ 1,111.55			\$ 366,451.33		100%



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

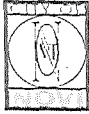
APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

SECTION 1. COST OF COMPLETED WORK TO DATE														
Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
11	Aggregate Surface Case, 21AA	Ton	20	\$ 20.00	\$ 400.00	0	\$ 20.00	\$ -				0.00	\$ -	
12	Subgrade Undercutting, Type II (Modified)	Cyd	335	\$ 25.00	\$ 8,375.00	183.40	\$ 25.00	\$ 4,585.00				183.40	\$ 4,585.00	100%
13	Maintenance Aggregate, 21AA	Ton	20	\$ 9.00	\$ 180.00	0	\$ 9.00	\$ -				0.00	\$ -	
14	HMA, 3C	Ton	1200	\$ 64.00	\$ 76,800.00	1148.67	\$ 64.00	\$ 73,514.88				1148.67	\$ 73,514.88	100%
15	HMA, 13A	Ton	1200	\$ 67.00	\$ 80,400.00	1003.97	\$ 67.00	\$ 67,265.99				1003.97	\$ 67,265.99	100%
16	Conc Pavt, Nonreinf, 8 inch	Syd	49	\$ 40.50	\$ 1,984.50	48.90	\$ 40.50	\$ 1,980.45				48.90	\$ 1,980.45	100%
17	Sidewalk Ramp, Conc, 6 inch	Sft	152	\$ 4.60	\$ 699.20	177.40	\$ 4.60	\$ 816.04				177.40	\$ 816.04	100%
18	Curb and Gutter, Conc, Det D2	Ft	29	\$ 16.25	\$ 471.25	28.00	\$ 16.25	\$ 455.00				28.00	\$ 455.00	100%
19	Curb and Gutter, Conc, Det F4	Ft	715	\$ 13.00	\$ 9,295.00	804	\$ 13.00	\$ 10,452.00				804.00	\$ 10,452.00	100%
20	Curb and Gutter, Conc	Ft	136	\$ 15.00	\$ 2,040.00	182.40	\$ 15.00	\$ 2,736.00				182.40	\$ 2,736.00	100%
21	Dr Structure, 4' dia	Ea	4	\$ 1,200.00	\$ 4,800.00	4	\$ 1,200.00	\$ 4,800.00				4.00	\$ 4,800.00	100%
22	Dr Structure, 6' dia	Ea	1	\$ 3,500.00	\$ 3,500.00	1	\$ 3,500.00	\$ 3,500.00				1.00	\$ 3,500.00	100%
23	Sewer, CI II, 12 inch, Tr Det A	Ft	89	\$ 36.00	\$ 3,204.00	83	\$ 36.00	\$ 2,988.00				83.00	\$ 2,988.00	100%
24	Sewer, CI II, 12 inch, Tr Det B	Ft	110	\$ 47.00	\$ 5,170.00	110	\$ 47.00	\$ 5,170.00				110.00	\$ 5,170.00	100%
25	Sewer End Sect, Conc, 12"	Ea	2	\$ 400.00	\$ 800.00	2	\$ 400.00	\$ 800.00				2.00	\$ 800.00	100%
26	Underdrain, Subgrade, 6 inch	Ft	322	\$ 9.00	\$ 2,898.00	310	\$ 9.00	\$ 2,790.00				310.00	\$ 2,790.00	100%
27	Underdrain, Subgrade, 6 inch, Modified	Ft	518	\$ 11.50	\$ 5,957.00	518	\$ 11.50	\$ 5,957.00				518.00	\$ 5,957.00	100%
28	Structure, Recon	Ft	5	\$ 200.00	\$ 1,000.00	3	\$ 200.00	\$ 600.00				3.00	\$ 600.00	100%
29	Cover, Replace	Ea	1	\$ 450.00	\$ 450.00	2	\$ 450.00	\$ 900.00				2.00	\$ 900.00	100%
30	Riprap, Plain	Syd	50	\$ 70.00	\$ 3,500.00	50	\$ 70.00	\$ 3,500.00				50.00	\$ 3,500.00	100%
31	Parking Block, Conc	Ea	28	\$ 48.00	\$ 1,344.00	29	\$ 48.00	\$ 1,392.00				29.00	\$ 1,392.00	100%
32	Detectable Warning Plate	Ea	2	\$ 250.00	\$ 500.00	2	\$ 250.00	\$ 500.00				2.00	\$ 500.00	100%
33	Pavt Mrkg, Waterborne, 4 inch, White	Ft	2800	\$ 0.25	\$ 700.00	2618	\$ 0.25	\$ 654.50				2618.00	\$ 654.50	100%
34	Pavt Mrkg, Waterborne, 4 inch, Blue	Ft	675	\$ 0.25	\$ 168.75	335	\$ 0.25	\$ 83.75				335.00	\$ 83.75	100%
35	Pavt Mrkg, Waterborne, Handicap Symbol	Ea	7	\$ 40.00	\$ 280.00	6	\$ 40.00	\$ 240.00				6.00	\$ 240.00	100%
36	Topsoil, Seed and Mulch, 3 inch	LS	1	\$ 1,950.00	\$ 1,950.00	1	\$ 1,950.00	\$ 1,950.00				1.00	\$ 1,950.00	100%
TOTAL FROM THIS SHEET					\$ 216,866.70	\$ 197,630.61			\$ -			\$ 197,630.61		
TOTAL FROM OTHER SHEETS					\$ 411,209.35	\$ 366,451.33			\$ 1,111.55			\$ 366,451.33		
SUBTOTAL					\$ 628,076.05	\$ 564,081.94			\$ 1,111.55			\$ 564,081.94		100%



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

SECTION 1.

COST OF COMPLETED WORK TO DATE

Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
Division E: Fire Station #1												0.00	\$ -	
1	Mobilization, Max. 10%	LS	1	\$ 600.00	\$ 600.00	1	\$ 600.00	\$ 600.00				1.00	\$ 600.00	100%
2	Audio Video Route Survey	LS	1	\$ 500.00	\$ 500.00	1	\$ 500.00	\$ 500.00				1.00	\$ 500.00	100%
3	Traffic Maintenance and Control	LS	1	\$ 500.00	\$ 500.00	1	\$ 500.00	\$ 500.00				1.00	\$ 500.00	100%
4	Erosion Control, Inlet Filter	Ea	4	\$ 95.00	\$ 380.00	4	\$ 95.00	\$ 380.00				4.00	\$ 380.00	100%
5	Pavt, Rem	Syd	1305	\$ 5.50	\$ 7,177.50	1382.80	\$ 5.50	\$ 7,605.40				1382.80	\$ 7,605.40	100%
6	Aggregate Base, 21AA	Ton	140	\$ 12.00	\$ 1,680.00	136.22	\$ 12.00	\$ 1,634.64				136.22	\$ 1,634.64	100%
7	Subgrade Undercutting, Type II (Modified)	Cyd	65	\$ 20.00	\$ 1,300.00	18.50	\$ 20.00	\$ 370.00				18.50	\$ 370.00	100%
8	Maintenance Aggregate, 21AA	Ton	25	\$ 9.00	\$ 225.00		\$ 9.00	\$ -				0.00	\$ -	
9	HMA, 3C	Ton	115	\$ 74.00	\$ 8,510.00	120.16	\$ 74.00	\$ 8,891.84				120.16	\$ 8,891.84	100%
10	HMA, 13A	Ton	115	\$ 78.00	\$ 8,970.00	107.57	\$ 78.00	\$ 8,390.46				107.57	\$ 8,390.46	100%
11	Conc Pavt, Nonreinf, 8 inch	Syd	300	\$ 45.00	\$ 13,500.00	284.40	\$ 45.00	\$ 12,798.00				284.40	\$ 12,798.00	100%
12	Sidewalk, Conc, 4 inch	Sft	111	\$ 4.00	\$ 444.00	110.00	\$ 4.00	\$ 440.00				110.00	\$ 440.00	100%
13	Sidewalk Ramp, Conc, 6 inch	Sft	202	\$ 4.50	\$ 909.00	205.50	\$ 4.50	\$ 924.75				205.50	\$ 924.75	100%
14	Hot Poured Rubber-Ashphalt Type Sealing Compound	Ft	325	\$ 1.00	\$ 325.00	330	\$ 1.00	\$ 330.00				330.00	\$ 330.00	100%
15	Curb and Gutter, Conc, Det F4	Ft	85	\$ 15.00	\$ 1,275.00	85	\$ 15.00	\$ 1,275.00				85.00	\$ 1,275.00	100%
16	Structure, Recon	Ft	1	\$ 200.00	\$ 200.00	1	\$ 200.00	\$ 200.00				1.00	\$ 200.00	100%
17	Inside Structure, Pointing Up	Ea	1	\$ 300.00	\$ 300.00	1	\$ 300.00	\$ 300.00				1.00	\$ 300.00	100%
18	Detectable Warning Plate	Ea	1	\$ 300.00	\$ 300.00	1	\$ 300.00	\$ 300.00				1.00	\$ 300.00	100%
19	Pavt Mrkg, Waterborne, 4 inch, White	Ft	200	\$ 0.40	\$ 80.00	238	\$ 0.40	\$ 95.20				238.00	\$ 95.20	100%
20	Pavt Mrkg, Waterborne, 4 inch, Blue	Ft	70	\$ 0.40	\$ 28.00	86	\$ 0.40	\$ 34.40				86.00	\$ 34.40	100%
21	Pavt Mrkg, Waterborne, Handicap Symbol	Ea	1	\$ 50.00	\$ 50.00	1	\$ 50.00	\$ 50.00				1.00	\$ 50.00	100%
22	Topsoil, Seed and Mulch, 3 inch	LS	1	\$ 850.00	\$ 850.00	1	\$ 850.00	\$ 850.00				1.00	\$ 850.00	100%
24	Concrete Collar	Ea				2	\$ 250.00	\$ 500.00	2.00	\$ 500.00	100%	2.00	\$ 500.00	100%
TOTAL FROM THIS SHEET					\$ 48,103.50		\$ 46,969.69		\$ 500.00		\$ 46,969.69			
TOTAL FROM OTHER SHEETS					\$ 628,076.05		\$ 564,081.94		\$ 1,111.55		\$ 564,081.94			
SUBTOTAL					\$ 676,179.55		\$ 611,051.63		\$ 1,611.55		\$ 611,051.63	100%		

SECTION 1.			COST OF COMPLETED WORK TO DATE											
Item No.	Description of Item	Unit	CONTRACT ITEMS (Original)			CONTRACT ITEMS (Revised)			THIS PERIOD			TOTAL TO DATE		
			Quantity	Cost/Unit	Total Amt	Quantity	Cost/Unit	Total Amt	Quantity	Amount	%	Quantity	Amount	%
Division J: Police Station East														
1	Mobilization, Max. 10%	LS	1	\$ 1,500.00	\$ 1,500.00	1	\$ 1,500.00	\$ 1,500.00				1.00	\$ 1,500.00	100%
2	Audio Video Route Survey	LS	1	\$ 450.00	\$ 450.00	1	\$ 450.00	\$ 450.00				1.00	\$ 450.00	100%
3	Traffic Maintenance and Control	LS	1	\$ 1,500.00	\$ 1,500.00	1	\$ 1,500.00	\$ 1,500.00				1.00	\$ 1,500.00	100%
4	Erosion Control, Inlet Filter	Ea	3	\$ 75.00	\$ 225.00	4	\$ 75.00	\$ 300.00	1.00	\$ 75.00	25%	4.00	\$ 300.00	100%
5	Pavt. Rem	Syd	4848	\$ 2.40	\$ 11,635.20	4531.66	\$ 2.40	\$ 10,875.98				4531.66	\$ 10,875.98	100%
6	Curb and Gutter, Remove	Ft	159	\$ 6.00	\$ 954.00	136.50	\$ 6.00	\$ 819.00				136.50	\$ 819.00	100%
7	Aggregate Base, 21AA	Ton	2270	\$ 12.50	\$ 28,375.00	1916.60	\$ 12.50	\$ 23,957.50				1916.60	\$ 23,957.50	100%
8	Subgrade Undercutting, Type II (Modified)	Cyd	250	\$ 25.00	\$ 6,250.00	240.30	\$ 25.00	\$ 6,007.50				240.30	\$ 6,007.50	100%
9	Maintenance Aggregate, 21AA	Ton	30	\$ 9.00	\$ 270.00		\$ 9.00	\$ -				0.00	\$ -	
10	HMA, 3C	Ton	585	\$ 66.00	\$ 38,610.00	527.12	\$ 66.00	\$ 34,789.92				527.12	\$ 34,789.92	100%
11	HMA, 13A	Ton	585	\$ 69.00	\$ 40,365.00	550.60	\$ 69.00	\$ 37,991.40				550.60	\$ 37,991.40	100%
12	Conc Pavt, Nonreinf, 8 inch	Syd	23	\$ 45.00	\$ 1,035.00	22.70	\$ 45.00	\$ 1,021.50				22.70	\$ 1,021.50	100%
13	Sidewalk, conc, 4 inch	Sft	72	\$ 4.50	\$ 324.00	79.20	\$ 4.50	\$ 356.40	7.20	\$ 32.40	9%	79.20	\$ 356.40	100%
14	Sidewalk Ramp, conc, 6 inch	Sft	98	\$ 5.50	\$ 539.00	108.90	\$ 5.50	\$ 598.95	10.90	\$ 59.95	10%	108.90	\$ 598.95	100%
15	Curb and Gutter, Conc	Ft	337	\$ 17.00	\$ 5,729.00	312	\$ 17.00	\$ 5,304.00				312.00	\$ 5,304.00	100%
16	Structure, Recon	Ft	1	\$ 185.00	\$ 185.00	1	\$ 185.00	\$ 185.00				1.00	\$ 185.00	100%
17	Inside Structure, Pointing Up	Ea	1	\$ 200.00	\$ 200.00	1	\$ 200.00	\$ 200.00				1.00	\$ 200.00	100%
18	Pavt Mrkg, Waterborne, 4 inch, White	Ft	1760	\$ 0.25	\$ 440.00	2189	\$ 0.25	\$ 547.25	429.00	\$ 107.25	20%	2189.00	\$ 547.25	100%
19	Pavt Mrkg, Waterborne, 4 inch, Blue	Ft	640	\$ 0.25	\$ 160.00	129	\$ 0.25	\$ 32.25				129.00	\$ 32.25	100%
20	Pavt Mrkg, Waterborne, Handicap Symbol	Ea	2	\$ 45.00	\$ 90.00	1	\$ 45.00	\$ 45.00				1.00	\$ 45.00	100%
21	Vehicle Detection Loops	Ea	1	\$ 850.00	\$ 850.00		\$ 850.00	\$ -				0.00	\$ -	
22	Vehicle Detection Loops, Entrance	Ea	2	\$ 850.00	\$ 1,700.00	2	\$ 850.00	\$ 1,700.00				2.00	\$ 1,700.00	100%
23	Topsoil, Seed and Mulch, 3 inch	LS	1	\$ 500.00	\$ 500.00	1	\$ 500.00	\$ 500.00				1.00	\$ 500.00	100%
TOTAL FROM THIS SHEET					\$ 141,886.20		\$ 128,681.65		\$ 274.60			\$ 128,681.65		
TOTAL FROM OTHER SHEETS					\$ 676,179.55		\$ 611,051.63		\$ 1,611.55			\$ 611,051.63		
GRAND TOTAL					\$ 818,065.75		\$ 739,733.29		\$ 1,886.15			\$ 739,733.29	100%	

[illegible]



Section 2.

APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

Original Contract Amount: \$ 818,065.75

Change Orders: \$ (72,257.77)

Adjusted Contract Amount to Date: \$ 745,807.98

Total Cost of Work Performed to Date: \$ 745,807.98

MINUS Retainage:	0%	\$	-
MINUS Inspection "Crew Days" Div A:	To Date	6.25	\$ 153.75
MINUS Inspection "Crew Days" Div B:	To Date	12.00	\$ -
MINUS Inspection "Crew Days" Div C:	To Date	18.50	\$ -
MINUS Inspection "Crew Days" Div E:	To Date	3.00	\$ 307.50
MINUS Inspection "Crew Days" Div J:	To Date	16.50	\$ -
	This Pay	56.25	\$ -
Net Amt. Earned of Contract and Extra Work to Date:			\$ 745,807.98

MINUS L.D.'s: # of days over= 0.75 \$ 461.25

\$ amount/day= \$ 615.00

Subtotal: \$ 745,346.73

MINUS Amount of Previous Payment: \$ 703,822.55

1 \$ 92,099.50
2 \$ 449,898.01
3 \$ 161,825.04
4

CHANGE ORDERS

No.	Date		Amount
1	November 13, 2012	\$	(38,962.00)
2	November 13, 2012	\$	4,190.89
3	January 15, 2013	\$	(25,632.11)
4	January 15, 2013	\$	(16,010.55)
5	June 10, 2013	\$	600.00
6	June 10, 2013	\$	3,556.00

TOTAL: \$ (72,257.77)

Division	Days Allowed	Days Used	Remaining Days
A: Ice Arena Access Drive	6	6.25	-0.25
B: Ice Arena Parking Lot	12	12.00	0.00
C: Ella Mae Power Park	19	18.50	0.00
E: Fire Station #1	3	3.00	-0.50
J: Police Station East	16.50	16.50	0.00
Total:	55.50	56.25	-0.75

BALANCE DUE THIS PAYMENT:

\$ 41,524.18



CITY OF NOVI

26300 Lee BeGole Dr.
Novi, Michigan 48375
Tel: (248) 347-0454
Fax: (248) 735-5659

Section 3.

APPLICATION FOR PROGRESS PAYMENT

PROJECT: 2012 Parking Lot Improvements

NOVI PROJECT NO.: 11-9003

PAYMENT NO.: 4rev (FINAL)

The undersigned CONTRACTOR certifies that: (1) Any previous progress payments received from OWNER on amount of Work done under the Contract referred to above have been applied to discharge in full all obligations of CONTRACTOR incurred in connection with Work covered by prior Applications for Payment; (2) title to all Work, materials, and equipment incorporated in said Work of otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all liens, claims, security interest, and encumbrances (except such as are covered by Bond acceptable to OWNER indemnifying OWNER against any such lien, claim security interest, or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective as that term is defined in the Contract Documents.

Nagle Paving

Contractor

Contractor Authorized Signature

By:

Print Name

Date:

6-19-2013

OHM Advisors

Engineer

Chris S. Donajkowski

By:

Chris S. Donajkowski

Print Name

Date:

6-21-2013

Payment of the above AMOUNT DUE THIS APPLICATION is recommended.

CITY OF NOVI

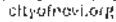
By: Aaron J. Staup, Construction Engineering Coordinator

Dated:

By: Brian Coburn, PE., Engineering Manager

Dated:

7/15/13



5

Reasoning	Division B; Ice Area Parking Lot - this change order is to reinstate Items 5: Erosion Control, Silt Fence and Item 24: Topsoil, Seed and Mulch, 3 inch which was previously balanced to a quantity of "0" on WCD / CO #3.
------------------	---

<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Quantity</u>	<u>Contract Price</u>	
					<u>Add</u>	<u>Deduct</u>
Division B: Ice Arena Parking Lot						
24	Topsoil, Seed and Mulch, 3 inch	LS	\$600.00	1	\$600.00	
				Subtotals	\$600.00	\$0.00
				Total	\$600.00	

New Contract Items						Contract Price	
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Quantity</u>	<u>Add</u>	<u>Deduct</u>	
				Subtotals	\$0.00	\$0.00	
				Total	\$0.00		

Estimated Increase/Decrease in Contract Price	\$600.00
Original Contract Amount	\$818,065.75
Sum of Previous Approved Change Orders	-\$76,413.77
Estimated Revised Contract Amount	\$742,251.98

***Final approved amounts in Contract Price must be formalized by way of a Change Order; especially any that exceed the Original Contract Price or 10% of the Contract Price, in sum.**

Date: 6-11-2013

Date: 6/12/2013

Date: 7/9/13

Date: 7/9/13

and

Date: _____



CHANGE ORDER No. 5

Project: 2012 Parking Lot Improvements

Owner: City of Novi
26300 Lee BeGole Dr.
Novi, Michigan 48375
(248) 735-5632

Engineer: OHM Advisors
34000 Plymouth Road
Livonia, Michigan 48150
734-522-6711

Contractor: Nagle Paving
39525 West 13 Mile Rd., Suite 300
Novi, Michigan 48377
248-553-0600

Drafted Date: June 10, 2013

Description/Reasoning: Division B: Ice Area Parking Lot - this change order is to reinstate Item 24: Topsoil, Seed and Mulch, 3 inch which was previously balanced to a quantity of "O" on WCD / CO #3.

To the Contractor: You are hereby directed to comply with the changes to the contract documents. This change order reflects work completed or anticipated. Documentation supporting these changes are on file with the City of Novi's Engineer. Current project plans and specifications will be adhered to unless specifically changed by this change order document.

THE CONTRACT AMOUNT SHALL BE CHANGED BY THE SUM OF: \$600.00

ORIGINAL CONTRACT AMOUNT: \$818,065.75

SUM OF PREVIOUS APPROVED CHANGE ORDERS: -\$76,413.77

REVISED CONTRACT AMOUNT: \$742,251.98

THE CHANGES ADDRESSED BY THIS CHANGE ORDER HEREBY INCREASE THE CREW DAY
TIME BY: Day(s) to ☐ Substantial or ☐ Final Completion

Where applicable, attach the corresponding number of Work Change Directive to this Change Order.

Accepted By: Sam Mung
Nagle Paving - General Contractor

Date: 6-11-2013

Prepared By: Chris Deryn
OHM Advisors - Consulting Engineer

Date: 6/12/2013

Reviewed By: Brian Coburn
For: Brian Coburn, P.E., Engineer Manager

Date: 7/9/13

Approved By: Jason Mangum
Jason Mangum - Parks and Recreation Director

Date: 7/9/13

and
Approved By: _____
Purchasing Manager

Date: _____

New Contract Items					Contract Price	
Item No.	Item Description	Unit	Unit Price	Quantity	Add	Deduct
Division E: Fire Department Lot						
24	Concrete Collar	Ea	\$250.00	2	\$500.00	
Division J: Police Station East						
32	Concrete Collar	Ea	\$250.00	1	\$250.00	
				Subtotals	\$750.00	\$0.00
				Total	\$750.00	

Estimated Increase/Decrease in Contract Price	\$3,556.00
Original Contract Amount	\$818,065.75
Sum of Previous Approved Change Orders	-\$75,813.77
Estimated Revised Contract Amount	\$745,807.98

***Final approved amounts in Contract Price must be formalized by way of a Change Order; especially any that exceed the Original Contract Price or 10% of the Contract Price, in sum.**

Date: 6-11-2013

Date: 6/12/2013

Date: 7/9/15

Date: 7/9/13

and

Date: _____

CHANGE ORDER No. 6

Project: 2012 Parking Lot Improvements

Owner: City of Novi
26300 Lee BeGole Dr.
Novi, Michigan 48375
(248) 735-5632Engineer: OHM Advisors
34000 Plymouth Road
Livonia, Michigan 48150
734-522-6711Contractor: Nagle Paving
39525 West 13 Mile Rd., Suite 300
Novi, Michigan 48377
248-553-0600

Drafted Date: June 10, 2013

Description/Reasoning: Division J: Police Station East - this change order is to reinstate Item 25: Underdrain, Subgrade, 6 inch Modified which was previously balanced to a quantity of "O" on WCD / CO #4. Also Adds Concrete Collar Items in Divisions E: Fire Department and Division J: Police Station East.

To the Contractor: You are hereby directed to comply with the changes to the contract documents. This change order reflects work completed or anticipated. Documentation supporting these changes are on file with the City of Novi's Engineer. Current project plans and specifications will be adhered to unless specifically changed by this change order document.

THE CONTRACT AMOUNT SHALL BE CHANGED BY THE SUM OF: \$3,556.00

ORIGINAL CONTRACT AMOUNT: \$818,065.75

SUM OF PREVIOUS APPROVED CHANGE ORDERS: -\$75,813.77

REVISED CONTRACT AMOUNT: \$745,807.98

THE CHANGES ADDRESSED BY THIS CHANGE ORDER HEREBY INCREASE THE CREW DAY TIME BY: Day(s) to ☐ Substantial or ☐ Final Completion

Where applicable, attach the corresponding number of Work Change Directive to this Change Order.

Accepted By: Sam Mung
Nagle Paving - General ContractorDate: 6-11-2013Prepared By: Chris S. Doney
OHM Advisors - Consulting EngineerDate: 6/12/2013Reviewed By: Brian Coburn
Brian Coburn, P.E., Engineer ManagerDate: 7/9/13Approved By: David Molloy
David Molloy - Director of Public SafetyDate: 7/9/13

and

Approved By: _____
Purchasing Manager

Date: _____



CONTRACTORS SWORN STATEMENT

The general contractor must execute this Sworn Statement. Prior to execution, the general contractor shall on Schedule B of this Sworn Statement list the names of all persons, firms, or corporations engaged by the General Contractor to furnish services, equipment, labor and/or materials in connection with the work performed on the premises including the type of work materials furnished by each.

The examining attorney shall verify that every person or firm listed in Schedule B has properly executed appropriate waivers of lien prior to issuance of any final payments.

STATE OF MICHIGAN

COUNTY OF Oakland

The undersigned, being duly sworn, on oath deposes and says that (s)he is the

Project Manager of the Nagle Paving
(Title) (Firm Name)

the contractor employed by the City of Novi to furnish labor and materials for the

Asphalt Paving
(Description of Improvement)

located at: 2012 Parking Lot Improvements

The total amount of the contract is 745,807.98 of which I have received payment of 703,822.55 prior to this payment; that the persons, firms, and corporations engaged by the undersigned to have furnished services, equipment, labor and/or materials in the construction or repair of the improvements on the premises; that the dollar amount set opposite each such person, firm, or corporation on account of labor, services, equipment, and/or materials furnished with respect to said premises; that as of this date, all work to be performed with respect to said premises by the undersigned or any suppliers or subcontractors of the undersigned or any persons, firms, or corporations named in the Schedule B of this Sworn Statement, has been fully accepted by the owner and completed according to the plans and specifications.

The undersigned further states that all material (except as disclosed on said Schedule B) has been or will be furnished from his/her own stock and has been paid for in full, that there are no other contracts or subcontracts for said work outstanding, and that there is nothing due or to become due to any person for services, equipment, material, labor, or any other work done or to be done in connections with said work other than the stated on Schedule B. There are no chattel mortgages, personal property leases, conditional sale contracts or any other agreements given are now outstanding as to any fixtures, equipment, appliances or materials placed upon or installed in or upon the aforementioned premises or improvements thereon. All waivers are true, correct, and genuine and are delivered unconditionally. Furthermore, there is no claim, either legal or equitable, to defeat the validity of said waivers.

Signed this 19 day of June, 2013

Name: Nagle Paving Company
(individual/corporation/partnership)

By: [Signature] (Title) SEAN MORRISSEY
MANAGER

Attest: [Signature] (Title) Admin Asst

Subscribed and sworn to before me this 19 day of June, 2013

Notary Public: [Signature]

NAGLE PAVING COMPANY
39525 W. 13 MILE, SUITE 300
NOVI, MI 48377

NOTARY SEAL

DAWN M. CONLON
Notary Public, State of Michigan, County of Macomb
My Commission Expires December 27, 2018
Acting in the County of Macomb

SCHEDULE B - CONTRACTORS SWORN STATEMENT

Name of Subcontracting Firm	Type of Labor & Material Furnished	Amount of Contract	Amount Previously Paid to Date	Amount of Current Request	Accumulative Retainage to Date	Balance Due
Milford Excavating	Drain/Sewer Work	\$29,273.00	\$29,273.00	\$0.00	0.0%	\$0.00
Superior Materials	Concrete Material	\$13,732.18	\$13,732.18	\$0.00	0.0%	\$0.00
TOTALS		\$43,005.18	\$43,005.18	\$0.00		\$0.00

RECAPITULATION

Amount of Original Contract: \$818,065.75

Plus: Extras to Contract: -\$72,257.77

Total: Contract plus Extras: \$745,807.98

Less: Credits to Contract:

Total: Adjusted Contract: \$745,807.98

Work Completed to Date: \$745,807.98

Less: Total Retainage: \$37,082.60

Crew Days L.D. 461.25

Less: Amount Previously Paid: \$703,822.55

Less: Amount of this Request: \$41,524.18

Total Balance Due: \$0.00

CONSENT OF
SURETY COMPANY
TO FINAL PAYMENT
AIA DOCUMENT G707

Owner
Architect
Contractor
Surety
Other

929549111

PROJECT: 2012 Parking Lot Improvements
(name, address)

TO: (Owner)

City of Novi
45175 West 10 Mile Rd
Novi, MI 48375-3024

ARCHITECT'S PROJECT NO:

CONTRACT FOR:

CONTRACT DATE:

CONTRACTOR:
Nagle Paving Company
39525 West 13 Mile Road
Novi, MI 48377

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, the
Western Surety Company
27555 Executive Dr., Suite 350
Farmington Hills, Michigan 48331

_____, SURETY COMPANY

(on bond of (here insert name and address of Contractor))

Nagle Paving Company
39525 West 13 Mile Road
Novi, Michigan 48377

_____, CONTRACTOR,

hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not
relieve the Surety Company of any of its obligations to (here insert name and address of Owner)

City of Novi
45175 West 10 Mile Rd
Novi, Michigan 48375-3024

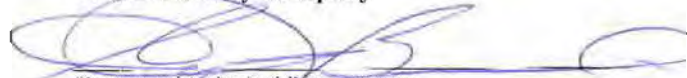
_____, OWNER.

as set forth in the said Surety Company's bond.

IN WITNESS WHEREOF,

the Surety Company has hereunto set its hand this 18th day of June, 2013

Surety Company
Western Surety Company



Signature of Authorized Representative

Attest.
(Seal)



Susan L. Belloli - Attorney-In-Fact

Title

NOTE: This form is to be used as a companion document to AIA DOCUMENT G706, CONTRACTOR'S AFFIDAVIT OF PAYMENT OF
DEBTS AND CLAIMS, Current edition

AIA DOCUMENT G707-CONSENT OF SURETY COMPANY TO FINAL PAYMENT-APRIL 1970 EDITION-AIA®
PAGE

ONE

©1970-THE AMERICAN INSTITUTE OF ARCHITECTS, 1735 NEW YORK AVE., NW, WASHINGTON, D.C. 20006

Western Surety Company

POWER OF ATTORNEY APPOINTING INDIVIDUAL ATTORNEY-IN-FACT

Know All Men By These Presents, That WESTERN SURETY COMPANY, a South Dakota corporation, is a duly organized and existing corporation having its principal office in the City of Sioux Falls, and State of South Dakota, and that it does by virtue of the signature and seal herein affixed hereby make, constitute and appoint

Steven K Brandon, T J Griffin, William A Pirret, John L Budde, Susan L Belloli, Terence J Griffin, Individually

of Farmington Hills, MI, its true and lawful Attorney(s)-in-Fact with full power and authority hereby conferred to sign, seal and execute for and on its behalf bonds, undertakings and other obligatory instruments of similar nature

- In Unlimited Amounts -

and to bind it thereby as fully and to the same extent as if such instruments were signed by a duly authorized officer of the corporation and all the acts of said Attorney, pursuant to the authority hereby given, are hereby ratified and confirmed.

This Power of Attorney is made and executed pursuant to and by authority of the By-Law printed on the reverse hereof, duly adopted, as indicated, by the shareholders of the corporation.

In Witness Whereof, WESTERN SURETY COMPANY has caused these presents to be signed by its Vice President and its corporate seal to be hereto affixed on this 17th day of October, 2012.



WESTERN SURETY COMPANY

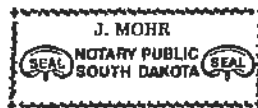
Paul T. Bruflatt, Vice President

State of South Dakota }
County of Minnehaha } ss

On this 17th day of October, 2012, before me personally came Paul T. Bruflatt, to me known, who, being by me duly sworn, did depose and say: that he resides in the City of Sioux Falls, State of South Dakota; that he is the Vice President of WESTERN SURETY COMPANY described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed pursuant to authority given by the Board of Directors of said corporation and that he signed his name thereto pursuant to like authority, and acknowledges same to be the act and deed of said corporation.

My commission expires

June 23, 2015



J. Mohr, Notary Public

CERTIFICATE

I, L. Nelson, Assistant Secretary of WESTERN SURETY COMPANY do hereby certify that the Power of Attorney hereinabove set forth is still in force, and further certify that the By-Law of the corporation printed on the reverse hereof is still in force. In testimony whereof I have hereunto subscribed my name and affixed the seal of the said corporation this 18th day of June, 2013



WESTERN SURETY COMPANY

L. Nelson, Assistant Secretary

THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.

FULL UNCONDITIONAL WAIVER

My/our contract with Nagle Paving Company
to provide Excavating
(other contracting party)

for the improvement to the property described as: Novi Parking Lots 2012

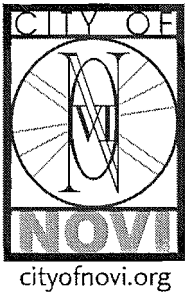
having been fully paid and satisfied, all my/our construction lien rights against such property are hereby
waived and released.

By: Milford Excavating
DAVE HARRIS (signature of lien claimant) PRESIDENT
Address: 2490 Long Tree Road
Milford MI 48380
Telephone: 248 889 2572

Signed on: 6/13/13
(date)

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES
MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.



CITY of NOVI CITY COUNCIL

Agenda Item C
June 20, 2011

SUBJECT: Approval of the Final Payment to Serv-Ice Refrigeration, Inc. for the Energy Efficiency Improvement Project at the Novi Ice Arena, in the amount of \$53,960.

SUBMITTING DEPARTMENT: PR&CS

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$53,960
AMOUNT BUDGETED	n/a (project funded 100% using EECBG grant funds)
LINE ITEM NUMBER	590-000.00-136.700

BACKGROUND INFORMATION: On July 12, 2010, City Council awarded a construction contract to complete Energy Efficiency and Conservation Block Grant [EECBG] Ice Arena Energy Conservation Measures. EECBG grant funds were be used to install energy efficiency Improvement measures which included: 1) Heat recovery system for waste heat from compressors; 2) Larger heat coil piping for melt pit; 3) Compressor top-end rebuild; 4) External based Chiller for building air conditioning; 5) New energy management system to control ice plant operations.

The contractor has submitted all documents required for compliance with the EECBG grant and received approval form the City's mechanical inspection. The work performed by the contractor was in substantial compliance with the plans and specifications and final payment in the amount of \$53,960 is appropriate. In addition, the City Attorney has reviewed the supporting documentation and found it to be in an acceptable form (Beth Kudla's May 31, 2011 letter attached.)

RECOMMENDED ACTION: Approval of the Final Payment to Serv-Ice Refrigeration, Inc., for the Energy Efficiency Improvement Project at the Novi Ice Arena

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Gatt				
Council Member Fischer				
Council Member Margolis				

	1	2	Y	N
Council Member Mutch				
Council Member Staudt				
Council Member Wrobel				



SERV-ICE REFRIGERATION, INC.

143 Cady Centre, #207 • Northville, MI 48167 • Phone: (248) 735-6000 • Fax: (248) 735-6001

Final Application For Payment

Billing date through: 2/16/11

Owner: City of Novi

45175 W. Ten Mile Road

Novi, MI 48375

Project: EECBG Ice Arena Energy

42400 Ice Arena Drive

Novi, MI 48375

Contract Date: July 13, 2010

Construction Manager: J.S. Vig

16650 Racho Road

Taylor, MI 48180

Consultant: AKT Peerless

22725 Orchard Lake Road

Farmington, MI 48336

Description	Value	Work Completed Previously	Current Amount Due	Balance to Finish
Bonds/Insurance	\$3,558.00	\$3,558.00		\$0
Drawings	\$1,100.00	\$1,100.00		\$0
Hot Water Heat Recovery	\$20,420.00	\$20,420.00		\$0
Allen Bradley DDC	\$52,960.00	\$4,000.00	\$48,960.00	\$0
Compressor Parts/Repair	\$3,785.00	\$3,785.00		\$0
Trane Chiller	\$50,300.00	\$45,300.00	\$5,000.00	\$0
Concrete Pad	\$2,200.00	\$2,200.00		\$0
Totals	\$134,323.00	\$80,363.00	\$53,960.00	\$0

Total Contract Price	\$134,323.00
Previously Paid	\$80,363.00
Amount Now Due	\$53,960.00
Change Orders	\$0
Balance to Finish	\$0

May 31, 2011

30903 Northwestern Highway
P.O. Box 3040
Farmington Hills, MI 48333-3040
Tel: 248-851-9500
Fax: 248-851-2158
www.secrestwardle.com

Suzanne Moreno, Finance Department
City of Novi
45175 West Ten Mile Road
Novi, Michigan 48375

Elizabeth M. Kudla
Direct: 248-539-2846
bkudla@secrestwardle.com

Re: Novi Ice Area EECBG Energy Contract – Closing Documents
Serv-Ice Refrigeration, Inc.
Our File No. 55142 NOV

Dear Ms. Moreno:

We have received and reviewed the following closing documents for the Novi Ice Area EECBG Energy Contract:

- Application for Payment No. 3
- Application for Payment No. 4
- Maintenance and Guarantee Bond
- Waivers of Lien
- Consent of Surety to final payment
- Contractor's Sworn Statement

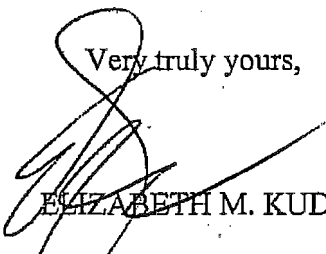
Subject to the approval of the Final Pay Estimate by City staff and/or consultant the closing documents appear to be in order.

It is our understanding that Serv-Ice Refrigeration, Inc., will provide its full unconditional waiver of lien at the time it pick-up the final payment.

Please let us know if you need anything additional or if you have any questions regarding the above, please do not hesitate to call.

If you have any questions regarding the above, please do not hesitate to call.

Very truly yours,



ELIZABETH M. KUDLA

EMK

C: Clay Pearson, City Manager (w/Enclosure)
Kathy Smith-Roy, Finance Director (w/Enclosure)
Marina Neumaier, Assistant Finance Director (w/Enclosure)
Thomas R. Schultz, Esquire (w/Enclosure)

1632758_2.doc



SERV-ICE REFRIGERATION, INC.

143 Cady Centre, #207 • Northville, MI 48167 • Phone: (248) 735-6000 • Fax: (248) 735-6001

May 10, 2011

J. S. Vig

16650 Racho Road

Taylor, MI 48180

Subject: Novi EECBG Final Payment

Attached you will find the information requested as of 4/28/11 to obtain final payment for the above stated project.

1. Sworn Statement
2. Full unconditional waivers
3. Consent of Surety

Sincerely,

Serv-Ice Refrigeration, Inc.

Suzan Bishop

Suzan Bishop

Office Manager



Bond Number 1260892

Consent of Surety to Final Payment

Owner:

City of Novi

45175 W. Ten Mile Rd

Novi MI 48375

Contractor:

Serv-Ice Refrigeration Inc

143 Cady Center

Suite 207

Northville MI 48167

Project Name:

EECBG Ice Arena Energy Conservation Measures

Project or Contract Number:

In accordance with the provisions of the Contract between the Owner and the Contractor as indicated above, **West Bend Mutual Insurance Company**, 8401 Greenway Blvd, Suite 1100, Middleton, WI 53582, as Surety, hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety of any of its obligations to the Owner as set forth.

IN WITNESS WHEREOF, the Surety has hereunto set its hand, this 3rd day of May, 2011.

WEST BEND MUTUAL INSURANCE COMPANY

(Surety)

Witness: _____

By: Darlene Fisher

(Signature of Attorney-in-Fact)

Darlene Fisher

(Printed Name of Attorney-in-Fact)

MICHIGAN ONLY: This policy is exempt from the filing requirements of Section 2236 of the Insurance Code of 1955, 1955 PA 218 and MCL 500.2236.

NB0141 02 08

Page 1 of 1

8401 Greenway Blvd, Suite 1100 | Middleton, WI 53582 | Phone: (608) 410-3410 | Fax: (877) 874-2663 | www.wbmi.com

State of Michigan	Sworn Statement	Date through: 05/10/11
County of Wayne		Application #: Final (#3 & #4)

SUZAN BISHOP, being duly sworn, deposes and says:

1. That Serv-Ice Refrigeration, Inc. is the Subcontractor for an improvement to the property described below.
2. That the following is a statement of each subcontractor and supplier and laborer, for which the payment of wages or fringe benefits and withholdings is due but unpaid, with whom the Subcontractor has subcontracted for performance under the contract with the owner or lessee thereof, and that amounts due to the persons as of the date hereof are correctly and fully set forth opposite their names as follows:

Name of Subcontractor, Supplier, or Laborer	Type of Improvement Furnished	Total Contract Price	Amount Already Paid	Amount Currently Owning	Balance to Complete
Trane Co.	Chiller	39538.00	39538.00	0	0
Young Supply	Thermostor Hot Water Heat Recovery	5391.00	5391.00	0	0
McNaughton McKay	Allen Bradley/electrical	7646.83	7646.83	0	0
West Bend Mutual	Bonding	3358.00	3358.00	0	0
Vilter Manufacturing	Compressor parts	1644.44	1644.44	0	0
Serv-Ice Refrigeration	Labor/DDC	40264.41	14269.73	25,994.68	0
GTR Industrial	Labor	8515.00	8515.00	0	0
Cogeneration Consultants	Control Program	27965.32	0	27965.32	0
TOTALS		134323.00	80363.00	53960.00	0

3. The contracts or subcontracts cited herein are for improvement to the following real property situated in Novi, Michigan described as Project : EECBG Novi Ice Arena Energy, 42400 Ice Arena Drive, Novi, MI 48375.
4. That the contractor has not procured material from, or subcontracted with, any person other than those set forth above and owes no money for the improvement other than the sums set forth above.
5. Deponent further says that he or she makes the foregoing statement as the subcontractor for the purposes of representing the owner or lessee of the above described premises and his or her agents that the above described property is free from claims of construction liens, or the possibility of construction liens, except as specifically set forth above and except for claims of construction liens by the laborers which may be provided pursuant to Section 109 of the Construction Lien Act, Act No. 497 of the Public Acts of 1980, as amended, being Section 570.1109 of the Michigan Compiled Laws.

Warning(to owner): AN OWNER OR LESSEE OF THE ABOVE-DESCRIBED PROPERTY MAY NOT RELY ON THIS SWORN STATEMENT TO AVOID THE CLAIM OF A SUBCONTRACTOR, SUPPLIER, OR LABORER WHO HAS PROVIDED A NOTICE OF FURNISHING(OR A LABORER WHO MAY PROVIDE A NOTICE OF FURNISHING PURSUANT TO SECTION 109 OF THE CONSTRUCTION LIEN ACT) TO THE DESIGNEE OR THE OWNER OR LESSEE IF THE DESIGNEE IS NOT NAMED OR HAS DIED.

DATED: 5-10-11

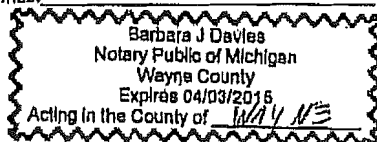
Suzan Bishop
SIGNATURE OF DEPONENT

SUBSCRIBED AND SWORN BEFORE ME ON: (DATE) 10 MAY 2011 WAYNE COUNTY, MICHIGAN

MY COMMISSION EXPIRES:

SIGNATURE

NOTARY



FULL UNCONDITIONAL WAIVER

My/our contract with SERV-ICE REFRIGERATION, INC to provide
CONTROL PROGRAM (other contracting party)
for the improvement of the property described as
NOVI ICE ARENA 42400 NICK LIDSTROM DRIVE
NOVI, MI 48375 having been

fully paid and satisfied, by signing this waiver, all my/our construction lien rights against such property are hereby waived and released.

If the improvement is provided to property that is a residential structure and if the owner or lessee of the property or the owner's or lessee's designee has received a notice of furnishing from me/one or us or if I/we are not required to provide one, and the owner, lessee, or designee has not received this waiver directly from me/one of us, the owner, lessee, or designee may not rely upon it without contacting me/one of us, either in writing, by telephone, or personally, to verify that it is authentic.

COGENERATION CONSULTANTS, ALAN CROLL

(Printed Name of Lien Claimant)



(Signature of lien claimant)

Signed on: 5.25.2011

Address: 5770 KING JAMES LN

WATERFORD, MI 48327

Telephone: 810-499-0831

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

M110166

FULL UNCONDITIONAL WAIVER

Serv-Ice Refrigeration, Inc.
My/Our contract with _____
to provide Trane chiller (Other contracting party)
for the improvement of the property described as: _____
EECBG Ice Arena Energy
42400 Ice Arena Drive
Novi, MI 48375
having been fully paid and satisfied, all my/our construction lien rights against much property are hereby
waived and released.

John W. Frei, Authorized Signatory
TRANF U.S. Inc.

BY: [Signature]
(signature of lien claimant)
Address: Trane U.S. Inc.
27475 Meadowbrook Rd
Novi, MI 48377
Telephone: _____

Signed on: 1-17-11
(date)

DON NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES
MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.

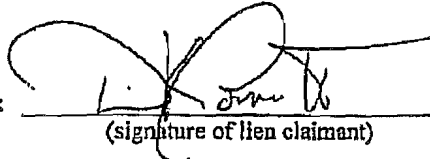
FULL UNCONDITIONAL WAIVER

Serv-Ice Refrigeration, Inc.

My/Our contract with _____
to provide HVAC / REFC Equipment & parts (Other contracting party)

for the improvement of the property described as: _____
EECBG Ice Arena Energy
42400 Ice Arena Drive
Novi, MI 48375

having been fully paid and satisfied, all my/our construction lien rights against much property are hereby waived and released.

BY: 

(signature of lien claimant)

Address: _____

YOUNG SUPPLY COMPANY

52000 SIERRA DR.

CHESTERFIELD TWP, MI 48047

Telephone: _____

586-421-2400

Signed on: _____

5/4/11
(date)

DON NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES
MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.

26550

FULL UNCONDITIONAL WAIVER

Serv-Ice Refrigeration, Inc.

My/Our contract with _____
to provide electrical products (Other contracting party)

for the improvement of the property described as: _____

EECBG Ice Arena Energy

42400 Ice Arena Drive

Novi, MI 48375

having been fully paid and satisfied, all my/our construction lien rights against much property are hereby waived and released.

BY: _____

(signature of lien claimant)

Address: McNaughton-McKay Electric

1357 E Lincoln

Telephone: Madison Hts MI 48071

Signed on: 3/25/11
(date)

DON NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES
MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.

FULL UNCONDITIONAL WAIVER

Serv-Ice Refrigeration, Inc.
My/Our contract with _____
to provide FILTER EQUIPMENT (Other contracting party)

for the improvement of the property described as: _____
EECBG Ice Arena Energy
42400 Ice Arena Drive
Novi, MI 48375

having been fully paid and satisfied, all my/our construction lien rights against much property are hereby
waived and released.

BY: Michael Cury
(signature of lien claimant)

Address: 5555 S. PACKARD AVENUE

CUDAHY, WI 53110

Telephone: 414-744-0111

Signed on: May 4, 2011
(date)

DON NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.

**THE CONSTRUCTION ASSOCIATION OF MICHIGAN EXPRESSLY DISCLAIMS ANY LIABILITY FOR CHANGES
MADE TO THIS FORM BY LEGISLATIVE ENACTMENTS OR JUDICIAL DECISIONS.**

FULL UNCONDITIONAL WAIVER

My/our contract with Serv-Ice Refrigeration, Inc to provide
(other contracting party)
Labor/Welding for the improvement of the property described as
Novi Ice Arena 42400 Arena Drive Novi, Michigan

_____ having been
fully paid and satisfied, by signing this waiver, all my/our construction lien rights
against such property are hereby waived and released.

If the improvement is provided to property that is a residential structure and if the
owner or lessee of the property or the owner's or lessee's designee has received
a notice of furnishing from me/one or us or if I/we are not required to provide one,
and the owner, lessee, or designee has not received this waiver directly from
me/one of us, the owner, lessee, or designee may not rely upon it without
contacting me/one of us, either in writing, by telephone, or personally, to verify
that it is authentic.

Walter R. Garchow/GTR Industrial Systems

(Printed Name of Lien Claimant)

Walter R. Garchow

(Signature of Lien claimant)

Signed on: 5-9-2011

Address: 9483 Vans Lane

Kingsley, MI 49649

Telephone: 231-218-3362

DO NOT SIGN BLANK OR INCOMPLETE FORMS. RETAIN A COPY.