THE CORPORATION OF THE CITY OF MARKHAM

101 Town Centre Boulevard
Markham, Ontario L3R 9W3

April 19, 2024
Addendum #1
Bid Opportunity: 091-T-24 - MARKHAM VILLAGE COMMUNITY CENTRE ICE PAD REPLACEMENT
Closing Date: Friday, April 26, 2024 3:00 PM

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1. GENERAL

The additions, deletions and/or revisions as hereinafter specified, shall become part of the Bid document and will be considered to have been included in the bid document.

2. QUESTIONS & ANSWERS

Question 1:

RFE for Northwest Rubber to be approved for Section 09700 Athletic Flooring specification

Answer 1:

RFE for Northwest Rubber is acceptable.

Question 2:

In the document section; there is no designated field to upload digital Bid Bond and Agreement to Bond. Also CCDC is requested for consulting firm. Please revise or clarify.

Answer 2:

The designated document uploads field has been revised to include digital Bid Bond and Agreement to Bond.

Question 3:

Please confirm type, colour, and height of existing netting as it was not in place during the site visit.

Answer 3:

Refer to photo below. The extent of the netting, both existing and proposed is indicated on the drawings.

The existing netting is clear filament.

Question 4:

Specification notes Quick Release glass supports, please advise if standard fastened face plate supports are acceptable.

Answer 4:

Yes, standard fastened face plate supports are acceptable.

Question 5:

Specification calls for Meg-Net floor inserts, please advise if Marsh Peg floor inserts are acceptable.

Answer 5:

Yes, Marsh Peg floor inserts are acceptable.

Question 6:

Section 11500 - 1.7 Guarantees - 10 years - please clarify - typical industry standard is 2 years.

Answer 6:

A minimum of ten years are required as specified in the bid document.

Question 7:

In the Document Section of the Bid Submission page, there is no indication on where to upload the Bid Bond and the Agreement to Bond. Please advise where to upload these documents.

Answer 7:

Please refer to Answer 2 above.

Question 8:

Welmar Recreational Product's would like to request approval as an equal for the supply of dasher boards and accessories.

Answer 8

Not acceptable.

Question 9:

Please confirm if the project schedule is to be completed in the 3 phases outlined in the bid documents / bid form or if all work can be completed simultaneously. Please provide schedule dates these phases are to be complete if they are to be completed separately.

Answer 9:

All work can be completed simultaneously.

Question 10:

Do the 3 references need to be Rink Slab Replacement or Arena projects? Is it a requirement to have completed a rink slab replacement and to provide one as a reference to bid this work?

Answer 10:

The City is looking for qualified contractors who have completed prior ice pad replacements. This experience is required to meet the qualifications requirements.

Question 11:

Drawings say to refer to electrical drawings for goal light preservation / time keeper box items, but none are provided. Please provide more details for this work.

Answer 11:

Existing goal lights as well as power, PA and connections to the score clock in the timekeeper's box is to be reinstated in the new system.

Question 12:

Removal Drawings show all lobby / concessions wall as dashed. Are these to be removed?

Answer 12:

The dashed line is the dasher board to be removed. The block wall and glass are to remain as well as all lobby walls.

Question 13:

Please provide more details on the guardrails that are required on the new platforms. Are they required to be painted? Is the existing guard rail at the corners of the platform to be removed/replaced or can these be reused on the new platform?

Answer 13:

The railing on the upper level (in the concrete can remain (to be painted). The new railing at each end is 38mm posts with 12dia pickets at 100c/c (see attached sketches SK-01 and SK-02). All rails to be primed and painted.

Question 14:

Are there any mechanical removals (toilets, floor drains) required associated with the floor removals in the change-rooms? Are there toilet partitions that need to be removed and reinstalled?

Answer 14:

Floor drains can remain, cut around as required. Toilet partitions can remain (lift shoe) and tile around.

Question 15:

Is a closure angle required from new boards to existing block wall?

Answer 15:

The top PVC sill to extend to within 20mm of block wall.

Question 16:

Please provide information on the tactile warning strips required on existing stair (at grids C/6) and how these are to be fastened to the existing stair.

Answer 16:

Tactile strips are to be fastened in accordance with the manufacturer's specifications. Tactile strips are to be inset in the rubber flooring.

Question 17:

Are we required to supply new nets along with the goal inserts?

Answer 17:

Contractor is required to provide new inserts. New nets are not required.

Question 18:

Is the skate flooring at the benches being removed / replaced? If so, is it part of the phase 3 pricing or provisional pricing?

Answer 18:

Rubber flooring mats to be replaced with 20mm mats.

Question 19:

Please confirm the area of exterior space that will be free and clear for construction equipment and material laydown.

Answer 19:

The area in front of the zamboni doors can be assigned to the contractor for parking and layout. The parks garage and the community hall will remain active during construction.

This is to be coordinated between City and successful builder.

Question 20:

Details differ from the note on the plans for the 150mm slab at the Zamboni slab. Plan shows this to receive WWM but the detail shows rebar. Please clarify which is required in this location.

Answer 20:

WWF is acceptable with dowels to existing cut edges (15M @300, 150mm embedment).

Question 21:

Will the list of GC's who attended the mandatory site walkthrough be made available to all bidders?

Answer 21:

Please see attachment Sign-In Sheet.

Question 22:

Flooring Question: Are we to include a nosing/reducer for the edge of the stairs to delineate by colour to meet code?

Answer 22:

Yes, contractor to include a nosing/reducer for the edge of the stairs to delineate by colour to meet code.

Question 23:

Please confirm if a refrigeration design as requested by section 17001 item 1.3 is required. I believe the refrigeration design has been completed by DEI as part of the provided drawings.

Answer 23:

Refrigeration work shall be as shown on the drawings. Design is not required.

Question 24:

Section 17001 item 1.4.4 indicates to dispose of brine. Drawings and other specification sections indicated to store and re-use. Please clarify.

Answer 24:

Existing brine is to be reused. Only brine is used as the fluid within the rink slab. The contractor shall drain and provide temporary storage. The contractor shall top up the system as required.

Question 25:

Section 17161 item 2.4.1 indicates M chairs shall be fabricated out of SS rod. This is possible but is very costly, typically chairs are fabricated from a mild steel for poly piping floors. Please confirm if mild steel is acceptable.

Answer 25:

Yes, mild steel is acceptable.

Question 26:

Please provide contact information for the facilities current water treatment supplier. Also please confirm intent of their work: to support flushing/cleaning of new piping? Typically they are not involved in monitoring brine systems for ice rinks as that would be performed by the refrigeration maintenance provider.

Answer 26:

The current water treatment facility has no bearing on this project. Contractor is required to verify drained, stored and reuse brine is in good condition. Maintenance provider would monitor that beyond the project timeline. However, contractor has to provide the fluid at the end of construction period in good status. This contractor is responsible for cleaning

and flushing new piping network before reusing the existing brine. Sample testing of existing brine is also required as part of this contract to verify validity for reuse.

Question 27:

Section 17001, item 1.4.1 states to "Replace **two** cold rink floors complete with underfloor cooling and heating loops", however all drawings show only one rink floor. Please confirm the number of rink floors to be replaced.

Answer 27:

There's only one rink that is subject to the scope of this project.

Question 28:

Section 17001, item 1.4.4 states to "Dispose all existing brine and **glycol** in the system. Provide and guarantee new brine and glycol in the system." However, all drawings show only brine is used as the fluid within the rink slab. Please confirm the fluid type within the rink slab

Answer 28:

Only brine is used as the fluid within the rink slab.

Question 29:

Section 17000 does not specify what the current brine concentration is and if the current brine concentration will remain the same. Please clarify what the brine concentration currently is and if that concentration will remain the same for the new rink slab.

Answer 29:

The current brine concentration is 22% CACL. Yes, the brine concentration to remain the same.

Question 30:

Section 17001, item 1.4.4 states to "**Dispose** all existing brine and glycol in the system. Provide and guarantee new brine and glycol in the system." However, Section 17015, item 3.2.2 as well as drawings R2.01, R2.02, R3.01, R3.02 state to "Store existing cooling and heating brine to be reused in new system." Please confirm if the refrigeration contractor is to dispose the existing brine or store the brine to be reused in new rink slab piping for both the cold floor and heating floor.

Answer 30:

Contractor is responsible of recovering, storing and reusing existing brine charge. Contractor is to fully charge the new system with existing brine, and compensate for any missing volume from the recovery process or differences in piping volume with new brine.

Question 31:

Section 17010, item 1.27.1 states "Electrical work to conform to Electrical Division" however there is no electrical division shown in the specifications. Please specify what the electrical work is conforming to.

Answer 31:

Existing goal lights as well as power, PA and connections to the score clock in the timekeeper's box is to be reinstated in the new system.

Question 32:

Refrigeration equipment is mentioned throughout the specifications (Section 17000) including but not limited to: Section 17015, item 1.2.1 states "The scope of work is essentially the selected disconnection and/or removal of services and/or **equipment**, piping, etc. as indicated or required to complete the work." Section 17015, item 3.1.10 states "Disconnect and/or remove **equipment** piping, etc. as indicated." Please confirm that the project scope of work is to replace the cold and warm header/mains and rink slab only and no equipment will be modified.

Answer 32:

Yes, the project scope of work is to replace the cold and warm header/mains and rink slab only and no equipment will be modified.

Question 33:

Section 17161, item 2.4.1 and drawing 2.02 states to "Provide top loading steel, 'M' type pipe spacers with base plate at **600 mm** centres." However, drawing R1.01 states that the chairs are spaced at **610mm**. Please confirm the chair spacing for the rink slab.

Answer 33:

The chair spacing is 24", translating to 609.6 mm.

Question 34:

Drawing 2.02 section 8 and 9 show the proposed new headers to be installed with what looks like insulation wrapped around the header. Please confirm that the header will not be insulated.

Answer 34:

Sections 8 and 9 on Drawing 2.02 do not show insulation around the pipe, only under the pipe. This is the required arrangement.

Question 35:

Drawing R1.01 states the size of the cold main/header as **8"**. However, drawing R3.01 shows the size of the cold main/header as **6"**. Please confirm the size of the cold main/headers to be installed in the rink slab.

Answer 35:

The size of the cols main/headers are 6” (152mm).

Question 36:

Section 17081, item 3.5.5.2 chart indicates the insulation thickness for the brine cooling pipe size for the mains as 1”. Please confirm this is correct as the typical standard is 2” insulation thickness for a cold main of a pipe size of 6”-8”.

Answer 36:

2” insulation section is required on 6” piping.

Question 37:

Section 17081, item 3.5.5.2 chart indicates the brine heating floor is insulated with 2” thick insulation. Please confirm if this is correct as the typical standard for buried heating pipe mains is a blue jacket wrap with no insulation.

Answer 37:

Brine heating piping is to be insulated from refrigeration room to manifold pit.

Question 38:

Upon our site visit there was no proper way to drain the brine charge from the cold and warm floor without losing majority of the fluid as the rink slab is higher than the mains entering the room. To ensure all contractors are carrying the same scope can we suggest what can be recovered shall be disposed and to provide a new brine charge?

Answer 38:

It is up to the contractor to figure out their approach to draining the brine charge successfully. If the contractor has determined the inability of draining the brine charge, then they should include for new brine as part of their pricing.

Question 39:

Please provide the latest cold and warm brine sample.

Answer 39:

This will be provided to the successful bidder.

Question 40:

The warm and cold brine mains changing from the trench type to buried will cause both mains to crisscross and change which side of the refrigeration trench it is installed on. Due

to the refrigeration trench located in the refrigeration room being small in size, both the warm and the cold brine mains will need to be cut further back than specified in drawings R2.01 and R2.02. Please specify where on both the cold and warm brine mains the refrigeration contractor is to cut the pipe.

Answer 40:

It is proposed that the contractor alter height of the warm piping to allow for necessary crossing. However, it's up to the contractor to identify the exact location of cutting within the general proximity of how it's shown on the plans to allow for coordination with site conditions and better constructability.

Question 41:

Upon our site visit we noticed that there were additional valves on the cold brine mains located in the refrigeration room due to the presence of a previously installed temporary chiller. Will these valves need to be reinstalled when installing the new cold brine mains?

Answer 41:

Yes, all existing valves to be reinstalled.

Question 42:

Upon our site visit we noticed that there were frozen over valves on the cold brine mains located in the refrigeration room. Will these valves need to be reinstalled when installing the new cold brine mains?

Answer 42:

Yes, all existing valves to be reinstalled.

Question 43:

Drawing 1.02 state to refer section 9 on Drawing 2.03 for cold main but there is no drawing 2.03 in the tender package.

Answer 43:

Revise reference to Drawing 2.02.

Question 44:

Drawing 2.01 detail 3/1.01 indicates removal of existing foundation wall minimum 400 mm below the apron level but detail 3/1.02 shows new slab thickening 300 mm only. Please confirm.

Answer 44:

This is correct. There is 100mm between new and old concrete.

Question 45:

Can we fill existing header trench with granular B in place of lean concrete because both side of trench walls are free standing.

Answer 45:

Yes, compacted to minimum of 98% SPDD but with 125 concrete slab on grade. Provide 15M dowels at 300 c/c into existing slab all around.

Question 47:

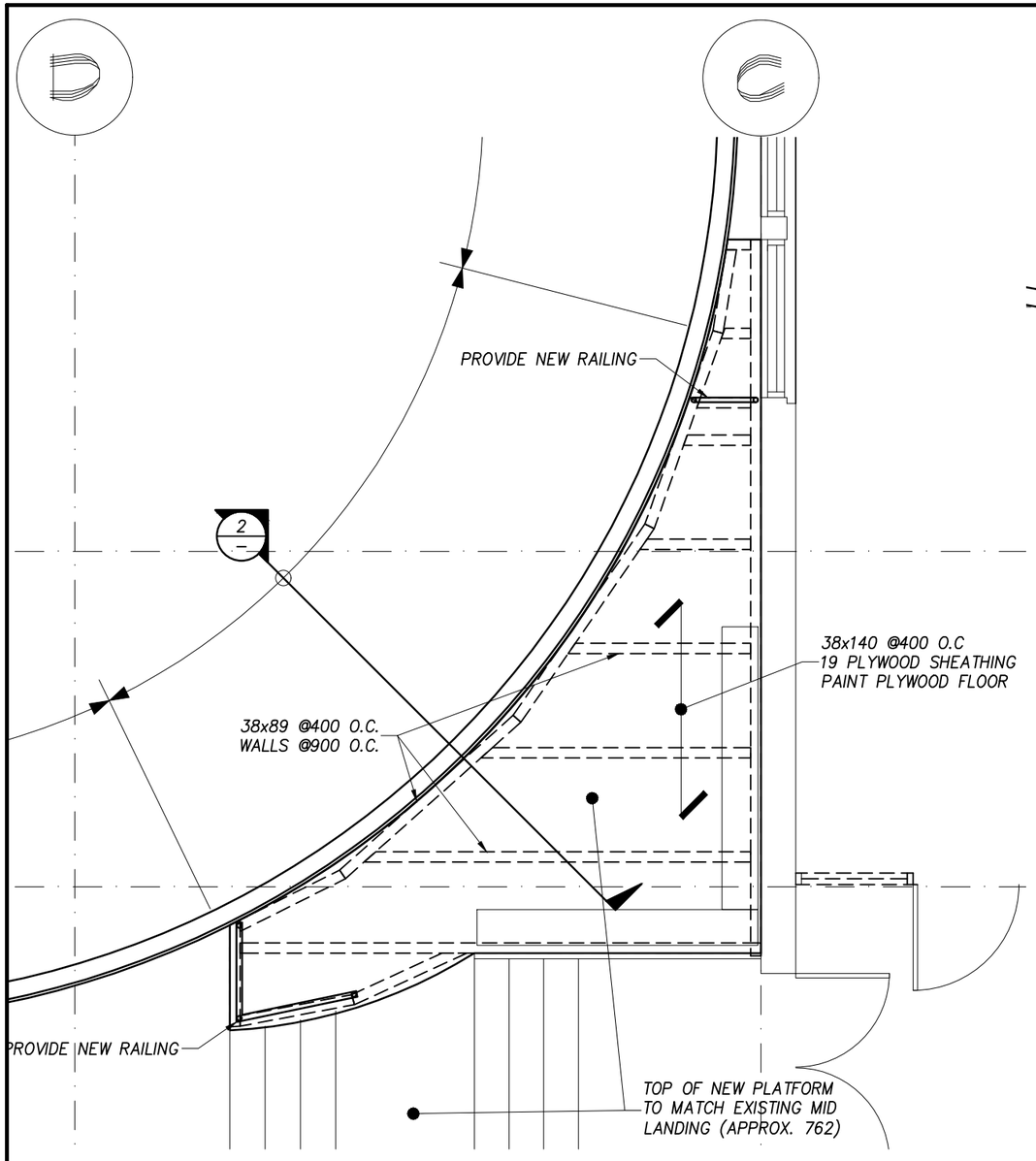
Under buried header mud slab proposed. What is the thickness of mud slab needed?

Answer 47:

The required thickness of mud slab is 75 mm.

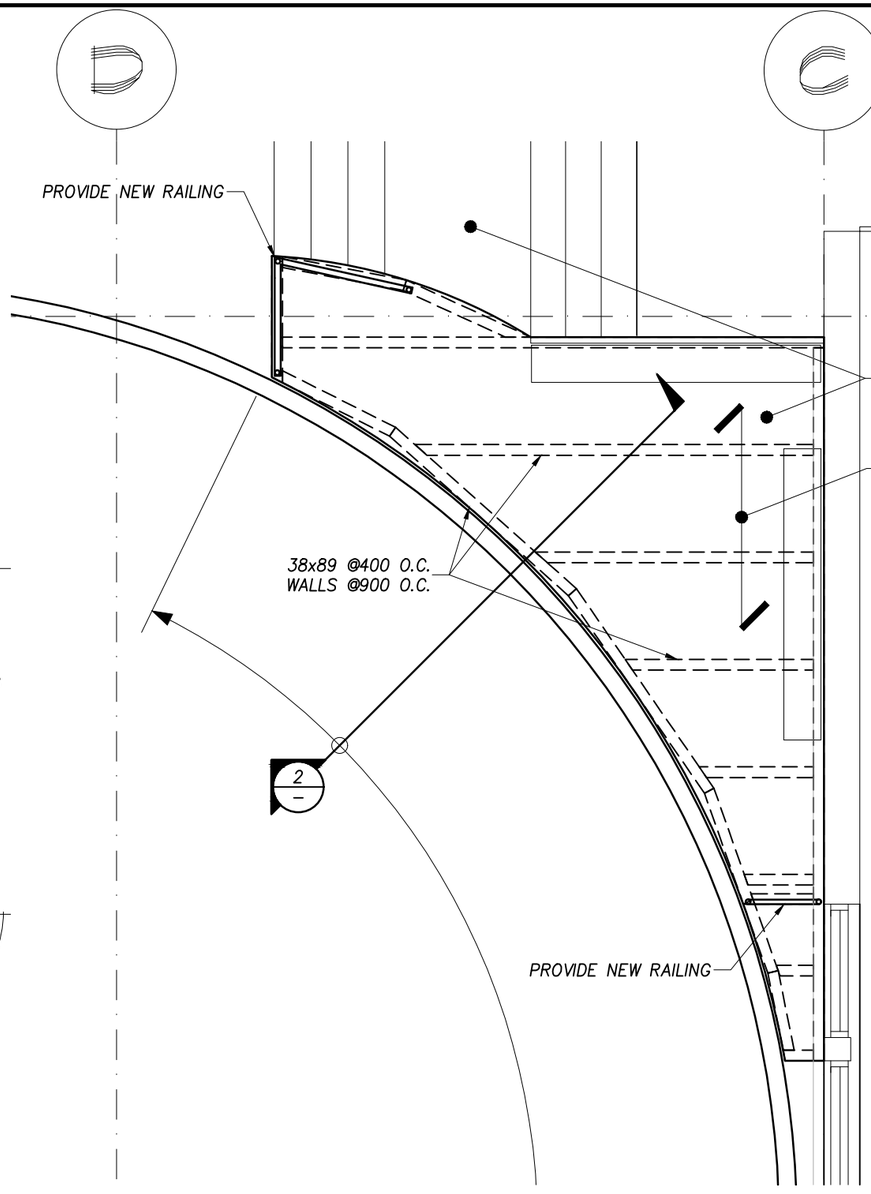
END OF ADDENDUM #1

If you require any additional information, please contact the purchasing representative.



PLAN-EAST VIEWING PLATFORM

SCALE: 1:50



PLAN-WEST VIEWING PLATFORM

SCALE: 1:50

No.	DATE	REVISION
1	24-04-16	ADDENDUM #2

REVISIONS

KALOS ENGINEERING

300 YORK BLVD HAMILTON, ONTARIO L8R 3K6 905-333-9119

MARKHAM VILLAGE ARENA

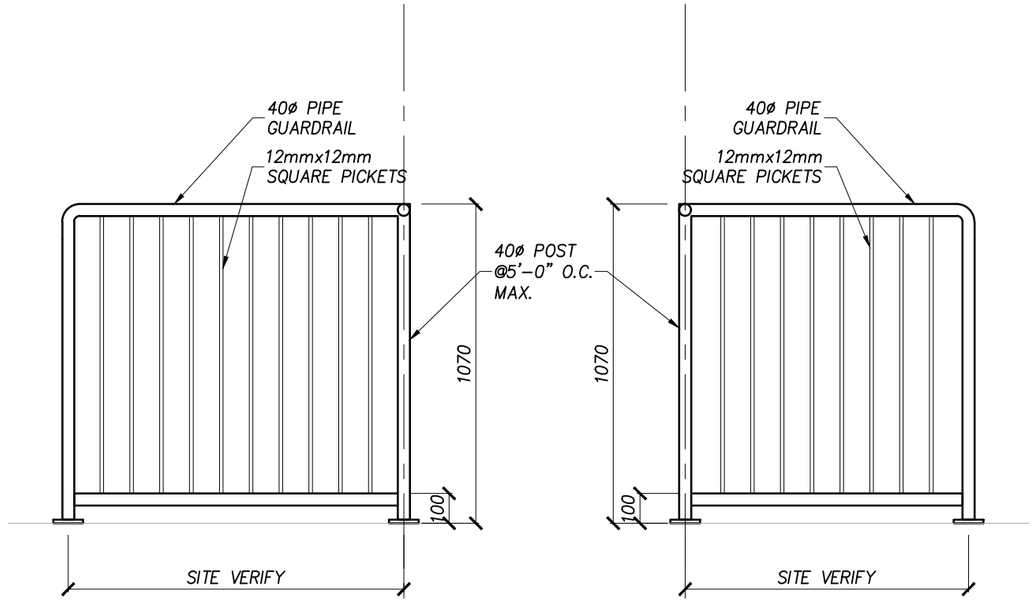
6041 YORK HWY 7

MARKHAM ONTARIO

PLATFORM PLANS

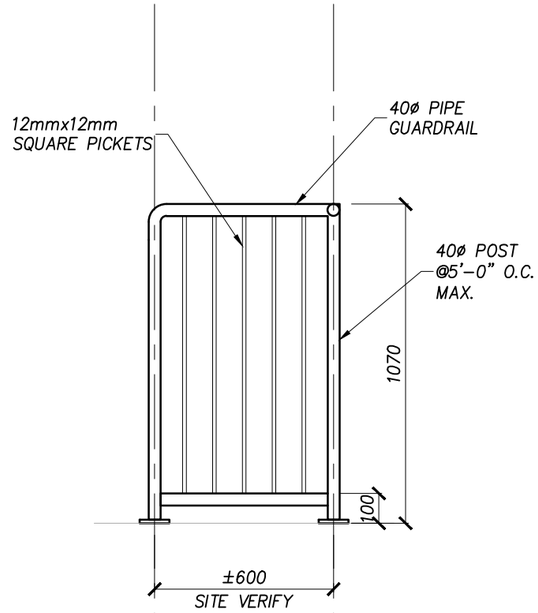
DATE	DRAWN BY	DRAWING No.
APRIL 2024	T.W.	SK-01
PROJECT No. 24022	CHECKED BY H.A.P.H.	

PLOT DATE: 2024/04/16 5:38 PM



PLATEFORM RAILING A

SCALE: 1:20



PLATEFORM RAILING B

SCALE: 1:20

No.	DATE	REVISION
1	24-04-16	ADDENDUM #2

REVISIONS

KALOS ENGINEERING

300 YORK BLVD HAMILTON, ONTARIO L8R 3K6 905-333-9119

MARKHAM VILLAGE ARENA

6041 YORK HWY 7

MARKHAM ONTARIO

PLATFORM RAILING DETAILS

DATE	DRAWN BY	DRAWING No.
APRIL 2024	T.W.	SK-02
PROJECT No. 24022	CHECKED BY H.A.P.H.	

PLOT DATE: 2024/04/16 5:38 PM

MARKHAM

Site Meeting Report

Location: Markham Village Community Centre
Start Date: April 9, 2024 10:00 AM
End Date: December 31, 9999 11:59 PM

Name	091-T-24 - MARKHAM VILLAGE COMMUNITY CENTRE ICE PAD REPLACEMENT
Status	Open
Description	6041 Hwy. 7, Markham, ON LP 3A7.

Company Name	Attendee Name	Time In	Time Out	Attendee Signature
2SC Contracting Inc.	Nick Petrovic	9:55		
Anacond Contracting Inc.	Patrick Fallone	9:50		
Aplus General Contractors Corp.	George Tsang	9:50		
Athletica Sport Systems Inc.				
Ball Construction Ltd.	BRENT COCHRANE	9:55		
Barry Bryan Associates				
Black & McDonald Limited	JORDAN NORDSON	9:55		
Frank Pellegrino General Contracting Ltd	MATTHEW PELLEGRINO	9:55		
J.J. McGuire General Contractors Inc.	Tyler Pecile	9:50		
Joe Pace & Sons Contracting Inc				
Ledcor Construction Limited	Lora McMillan	9:35		
North West Rubber Ltd				
Schilthuis Construction Inc	Henk Schilthuis	9:46		
Sound Barriers	Bill McCurdy	9:50		
Welmar Recreational Products Inc				
Flint Demolition	Tom Le Grays Francesco Durzo	9:55		
2112 Surfacing / Sport	Clayton Vernon	9:35		
CIMCO	Rob Bertrand	9:55 AM		
CIMCO	Jay Szeto	11		
Soraa Siteworks	Josh. M	9:50am		
Mega Group Construction Ltd	Anna	10:00		

Total Attendees: 15