

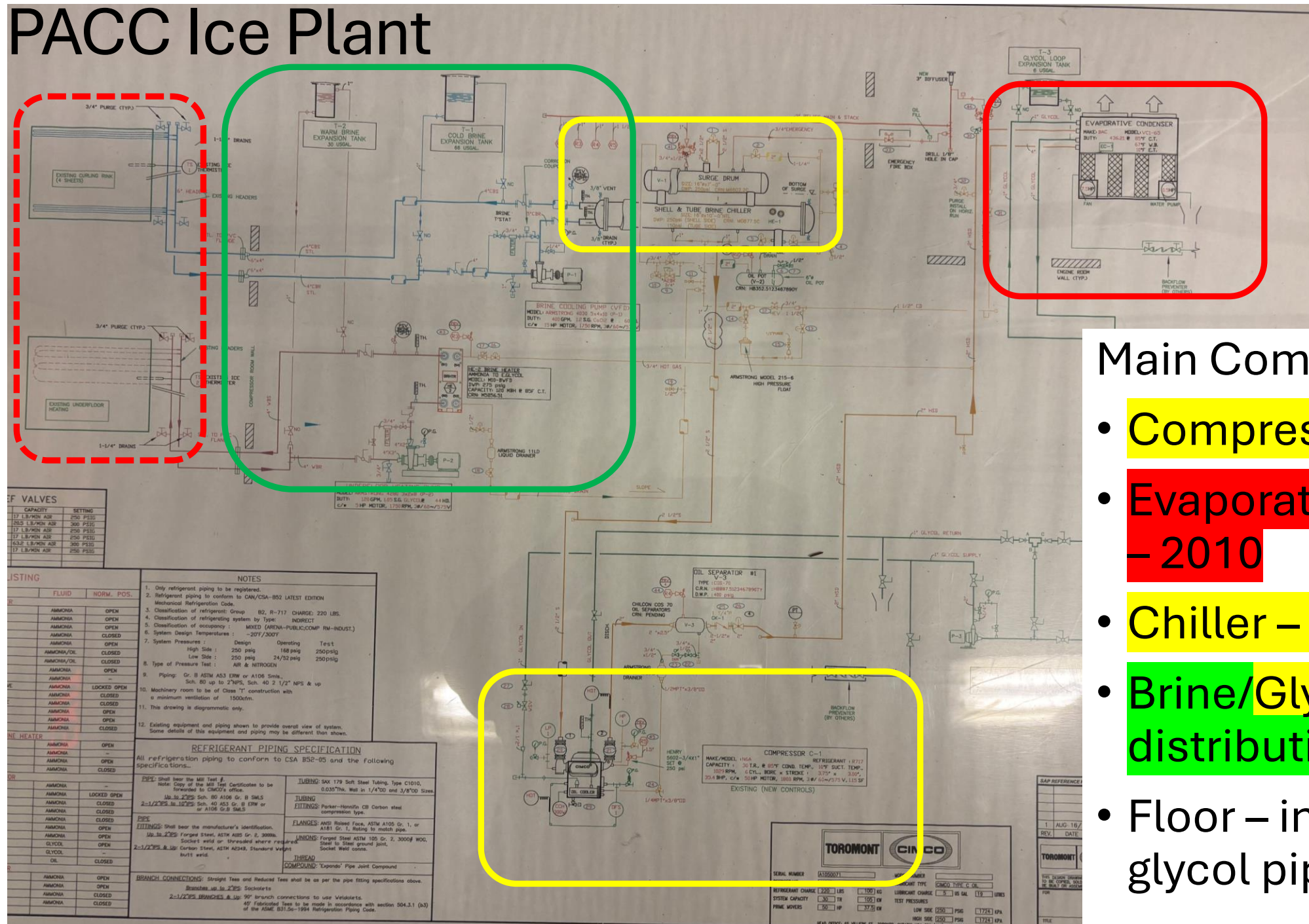
PACC Facilities Revitalization

AGM October 26, 2025

Agenda

- Current Ice Plant status
- Revitalization Scope
 - Condenser only
 - Full Ice Plant
 - Full Ice Plant plus Floor
- Engaging professional help
- Cost
- Funding
- Timing
- Summary

PACC Ice Plant



Main Components (Age)

- Compressor - 1980
- Evaporative Condenser - 2010
- Chiller - 2010
- Brine/Glycol distribution (2010/15)
- Floor - including brine & glycol piping - 1994

Refrigeration Consultant

We have engaged a professional refrigeration engineer to ensure that upgrades are:

- Sustainable from a safety and environmental standpoint
- Cost effective from a Capital and on-going operating
- Future proof (regulations, life expectancy etc)

We chose James Shou Refrigeration Engineering based on:

- Recommendations from various vendors including Kim Turnbull (our contract refrigeration mechanic)
- They are currently being used by Centennial Arena



Industrial & Recreational
REFRIGERATION CONSULTANTS

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PACC Facilities Revitalization Project

- The “ice plant” includes the equipment used to create the ice surface
- There are four main components – all of which are crucial
 1. Evaporative condenser
 2. Chiller
 3. Compressor
 4. Floor and associated brine piping
- This project includes replacing the condenser/chiller/compressor in 2026
- We are aiming to replace the floor in 2026 as well

PACC Facilities Revitalization Project

Reasons/Advantages to Replace Ice Plant:

- Evaporative condenser
 - Current unit is damaged & unreliable
- Chiller
 - Current unit will reach end of life within 4 years
 - New design has much longer life span and lower ammonia charge (safety)
- Compressor
 - Current compressor is 45 years old. New unit will save 5-10% energy
- Floor
 - Floor is 31 years old and starting to crack. New floor will provide better ice conditions and allow a thinner sheet of ice (energy savings)

Peace Arch Curling Club Facility Revitalization Budget

Redacted – Available upon request

Funding

- Annual Building Improvement Fees (& Any Excess Club Revenue)
- BC Gaming Capital Projects Grants
- Community Foundations
- Federal
- Provincial
- City
- BC Hydro (Power Smart)
- Other Sources?
- Benefactor

BC Gaming Capital Project Grant

- Requested \$250K
- Submitted October 15
- Response due December 31
- Available once/3 years

10/15/25, 11:01 AM

Common Hosted Forms



CGG - Capital Projects - Business BCeID



**Your form has been
submitted successfully**

Confirmation ID: CD0ABC6F

Peace Arch Hospital Healthy Community Grant

- Requested 3X\$100K
- Presented October 9
- Response due December 31
- Success depends in part on city response

Peace Arch Curling Facility Revitalization

October 9, 2025
CMR Review: October 15, 2025

healthy community GRANTS

Agenda

- Executive Summary
- Peace Arch Curling - Why Now?
- PACC Facilities Revitalization Project
- Financials
- Conclusion/Q&A

Executive Summary

- Peace Arch Curling Club (PACC) has been part of the community for almost 60 years
- Approximately 500 individuals benefit from physical activity and social interaction at PACC through various leagues and tournaments
- The ice plant requires replacement

Item	Amount
2025 Operating Budget	\$100,000
2025 Capital Budget	\$300,000
Total	\$400,000

2025 Timing: Downpayments January, Installation August

Peace Arch Curling Club History

- Located on the premises of the Peace Arch Hospital since 1965
- Peace Arch Curling Club opened at the current location in 1965
- PACC was established in 1965, and the Curling Club has been operating since
- PACC is a nonprofit society funded primarily by donations, fees, and sponsorships. The ice plant was replaced in 2015 using bond funds provided by the City of White Rock
- The ice plant and parts of the ice plant were replaced in 2015

Why Curling?

- Recreation opportunities in White Rock, especially in winter, are limited
- PACC offers inclusive and accessible recreation from October to March. Curling is accessible to all age ranges and genders
- Curling promotes both physical well-being and social connections
- Peace Arch Curling's activities fit well with the Foundation's Mission to "enhance the health and wellness of the community"

Peace Arch Curlers

- Approximately 500 individuals are registered in all levels of leagues
- Registrations are split 50/50 male/female

Peace Arch Curlers

- Over 90% of Peace Arch Curlers are over 60 years old
- Black curling has increased through age groups of curlers (over 60)
- 2025 participant age range is 10-94 years old

Peace Arch Curlers

- Curling is multi-generational
- PACC supports successful curlers programs
- Relationships provide feedback of how to improve to new curlers

Peace Arch Curling in the Community

- We regularly host curling events for local community groups
- Examples: Curling at the Peace Arch Curling Club, Curling at the Peace Arch Curling Club, Curling at the Peace Arch Curling Club

PACC Facilities Revitalization Project

- The "ice plant" includes the equipment used to create the ice surface
- There are four main components - all of which are crucial:
 - Evaporative condenser
 - Chiller
 - Compressor
 - Pump and associated piping
- This project includes replacing the condenser/chiller/compressor in 2025 followed by the four replacement in 2027

PACC Facilities Revitalization Project

Reasons/Advantages to Replace Ice Plant:

- Evaporative condenser
 - Current unit is damaged & unreliable
- Chiller
 - Current unit will reach end of the useful life
 - New design has much longer life span and lower ammonia charge (safer)
- Compressor
 - Current compressor is 45 years old. New unit will save 5-10% energy
- Floor
 - Floor is 35 years old and starting to crack. New floor will provide better ice conditions and allow a thicker sheet of ice (energy savings)

Financials

Peace Arch Curling Club Facility Revitalization Budget

Item	2025	2026	2027	2028	2029	2030	Total
Capital	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
Operating	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000
Total	\$400,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000

Financials

Peace Arch Curling Club Facility Revitalization Budget

Item	2025	2026	2027	2028	2029	2030	Total
Capital	\$300,000	\$0	\$0	\$0	\$0	\$0	\$300,000
Operating	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$600,000
Total	\$400,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$1,000,000

Summary

- Peace Arch Curling Club (PACC) has been part of the community for almost 60 years
- Approximately 500 individuals benefit from regular physical activity and social interaction at PACC
- The ice plant and floor require replacement
- We are requesting a Healthy Community Grant to support replacement of the ice plant in 2025
- What we learned from the PACC review on October 9th is that continued support may hinge on city participation

Thank You

Questions?

Funding

- Annual Building Improvement Fees
- BC Gaming Capital Projects Grants
- Community Foundations
- ~~Federal~~
- ~~Provincial~~
- ~~City~~
 - BC Hydro (Power Smart)
- ~~Other Sources?~~
- Benefactor

Timing

- Nov '25 Commit to floor replacement (20% down)
- Dec '25 Grant decisions (\$250K & \$100K)
- Jan '26 Commit to Ice Plant Replacement (30% down)
Order equipment (1-6 months)
- Apr '26 Begin floor replacement (3.5 months)
- Jul '26 Complete floor
Install Ice Plant
- Aug '26 Commission system(s)

Summary

- This investment should secure the club's future for decades
- We are working to secure some concessions from the city
- There is still more to do:
 - Dehumidifier
 - New Rocks/Junior Rocks
 - Lighting
 - Rink Liners
 - Lounge refurbish
 - Other? Ideas?

QUESTIONS?

Appendix

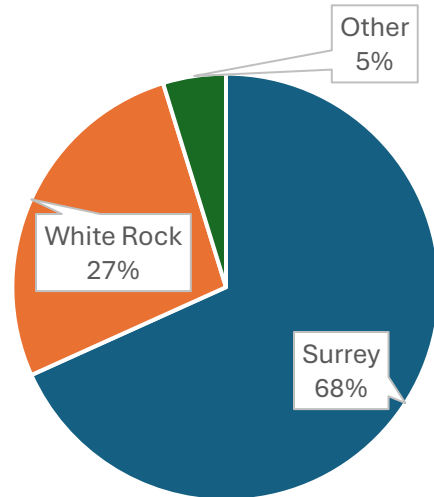
BC Gaming Capital Project Grant History

Gaming Grants for Curling Club Capital Improvements 2017-2024

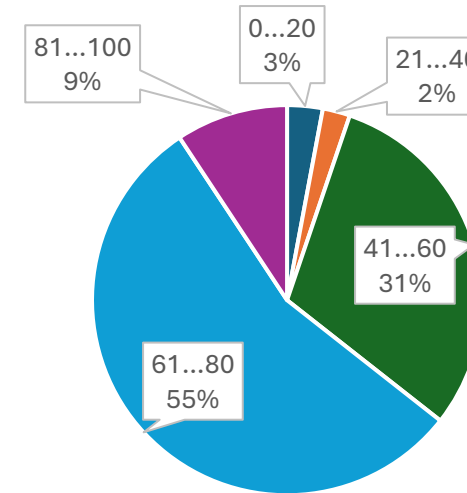
2017-2018	Gibsons Curling Club Gibsons Sport	61,850	Purchase of new in-rink dehumidifier
2018-2019	Penticton Curling Club Penticton Sport	107,000	Refrigeration plant upgrades
2018-2019	Powell River Curling Club Powell River Sport	173,705	Ice plant replacement and interior renovation
2018-2019	Terrace Curling Association Terrace Sport	120,000	Ice Plant replacement
2019-2020	Kelowna Curling Club Kelowna Sport	65,500	Condenser replacement.
2019-2020	Powell River Curling Club Powell River Sport	17,000	Renovation of changing facilities and washrooms.
2020-2021	Campbell River Curling Club Campbell River Sport	59,600	Renovations to improve the safety of the organization's facility and extend its w
2021-2022	Langley Curling Club Langley Sport	22,170	Acquisition and installation of new audio and video equipment
2021-2022	Merritt Curling Club Merritt Sport	120,000	Roof Replacement and Facility Upgrade.
2021-2022	Powell River Curling Club Powell River Sport	114,000	Building renovation
2021-2022	Williams Lake Curling Club Williams Lake Sport	37,110	Installation of elevator lift for increased accessibility to three levels
2022-2023	Tunnel Town Curling Club Delta Sport	40,000	Curling rock acquisition
2022-2023	Alberni Valley Curling Club Port Alberni Sport	90,000	Ice refrigeration system replacement.
2022-2023	Howe Sound Curling Club Squamish Sport	28,000	Heating system upgrade to be more environmentally sustainable, improve ice c
2023-2024	Nelson Curling Club Nelson Sport	94,588	Ice plant upgrade for evaporative condenser and compressor system.
	7 year Total	1,150,523	
	7 Year Average	164,360	
	Average Grant	76,702	

PACC Demographics

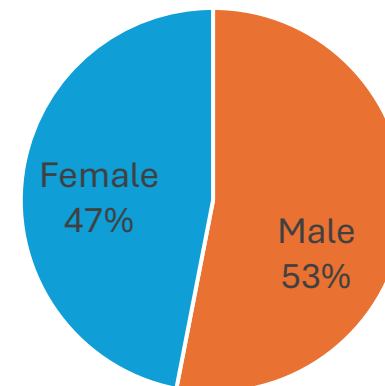
Where do PACC Curlers Live?



PACC Curlers Age Distribution



PACC Curler Gender Distribution



Letters of Support

WHITE ROCK
City by the Sea

2025-05-14

Peace Arch Curling Club
1475 Anderson St. White Rock, BC
V4B 1Y6

Re: Approval to Replace Ice Plant Condenser Unit

The City of White Rock is pleased to provide this letter of approval to the Peace Arch Curling Club (PACC) in support of your application for a BC Gaming Grant for the purpose of replacing the condenser unit for the ice plant.

The City supports this necessary equipment replacement and grants PACC permission to proceed with the proposed work at the facility, subject to the following conditions:

- All costs associated with the removal, purchase, installation, and commissioning of the new condenser unit will be borne entirely by the Peace Arch Curling Club;
- The work will comply with all applicable building, electrical, and safety codes, including WorkSafeBC, Technical Safety BC, and municipal permitting requirements;
- PACC will be responsible for obtaining and complying with all necessary permits and inspections prior to, during, and after the installation.

The Peace Arch Curling Club accepts full responsibility and liability for the project, including any injuries, damages, claims, or losses that may arise during or as a result of the work. The City of White Rock will not be held liable for any costs, claims, or damages related to the project, its execution, or any future issues associated with the equipment or its installation.

We appreciate PACC's continued investment in maintaining the curling facility and supporting recreational opportunities for the community.

Should you require any additional information or assistance, please do not hesitate to contact us.

Sincerely,

Arun Sundaram
Manager, Facilities and Corporate Health & Safety
City of White Rock, Operations/Human Resources
877 Keil Street, White Rock, BC V4B 4V6
C: 604-319-2052
T: 604-541-2296
www.whiterockcity.ca

July 29, 2025

To Whom It May Concern,

I

As a parent of a young athlete who has been positively impacted by the Peace Arch Curling Club, I am writing to offer my full support for the club's grant application to replace aging equipment and enhance its facilities.

My son, Sawyer, has been involved with the club for several years. Though he had been exposed to curling through his grandparents, who are members at the club, his first curling experience came through an initiative the club has with the local high school, Earl Marriott, to provide instruction as part of a Physical Education unit. Framed as a "game of chess on ice", the sport, which never garnered any interest from Sawyer, became an alluring mix of strategy, skill and precision. Coaches noticed his interest and raw skill, and invited him to participate in a bonspiel where he played on a team with his grandparents, and against seasoned players of all ages. This inter-generational interaction was truly remarkable. Even though it included competition, the connections and the camaraderie were the highlight for Sawyer. Opponents applauded others' shots and offered less experienced players tips about techniques; teammates debated strategies and made good-natured jabs with each other. At the end of each match, all players shook hands, and often would continue the conversation with some food and drinks upstairs. In the span



Member of Parliament
South Surrey - White Rock

The Peace Arch Curling Club (PACC) is seeking assistance from the Peace Arch Hospital Foundation - Healthy Community Grants program to obtain capital contributions to improve and upgrade its aging ice plant. As a former White Rock councillor, I'm familiar with the contributions our Non-profit curling club has made to the White Rock and south Surrey community.

Peace Arch Curling Club has been an important part of the social and athletic scene in our community for over sixty years. Unfortunately, the aging infrastructure interferes and endangers on-going winter recreational programming.

Curling has been an important Canadian sport since the days of John A. MacDonald. But if you can't make ice and keep it frozen you can't develop curling programs. That would be a tragedy for hundreds of White Rock and South Surrey residents who benefit from active winter sports. Having a local club with a strong volunteer contingent offering youth, Learn to Curl and League programs represents a huge benefit to the community at large.

The Peace Arch Club has created an inclusive environment that fosters both physical activity and social connection for all ages. It's one thing for the Curling club to serve an aging community. But when it can't count on its aging condenser, floor piping and chiller it can't effectively plan for ongoing operations.

Despite its infrastructure I'm convinced the Club has a great future in White Rock. The club has expanded its programming to serve a wide community segment. Volunteer club coaches continue to introduce elementary and High School students to a lifetime sporting alternative. These CurlBC and CurlCanada supported programs teach important life skills such as teamwork, leadership and perseverance.

The proposed grant will contribute to the replacement of an aging evaporative condenser (an essential piece of the ice making equipment). Without reliable ice making the club will be unable to maintain curling as an accessible activity for the broader community. PACC is working to remove barriers to

Ernie Klossow
House of Commons
Ottawa, ON, K1A 0A6
Tel: 613-947-4497
Ernie.Klossow@parl.gc.ca
www.parl.gc.ca

Ernie Klossow
135 - 1959 152 Street
Surrey, BC, V4A 1K3
Tel: 604-678-8030



Trevor Halford, MLA
Surrey - White Rock

September 05, 2025

Re: Support for Peace Arch Curling Club's Application for Healthy Community Grant

To whom it may concern:

I am writing in support of the Peace Arch Curling Club's application for a Peace Arch Hospital Foundation Healthy Community grant. The grant would be used to help fund the replacement of a failing evaporative condenser which is a key part of making the ice for this 4-sheet facility. Without this investment the club will be at risk of an unplanned unit failure and, based on equipment lead times, the potential loss of an entire curling season. A bigger risk is that a failure would drive curlers away from the club with a high risk that they would not return. This in turn would affect the club's long-term viability. Losing the club would be a tragedy for hundreds of White Rock and South Surrey residents who benefit from active winter sports.

Peace Arch Curling Club (PACC) has been an important part of the social and athletic scene in our community for over sixty years. Having a local club with a strong volunteer contingent offering youth, Learn to Curl and League programs represents a huge benefit to the community at large. PACC has created an inclusive environment that fosters both physical activity and social connection for all ages. PACC is working to remove barriers to participation through beginner instruction, adaptive league formats for those with physical limitations, and a wide variety of league schedules to suit busy lifestyles. The Healthy Community Grant contribution to maintain operations will be a valuable contribution to the White Rock and South Surrey community.

The Peace Arch Curling Club is a valued community institution, and I fully support the Club's application for a Healthy Community Grant.

Sincerely,

MLA Trevor Halford
Surrey-White Rock

Surrey - White Rock Constituency Office
180-1405 Johnson Road
White Rock, B.C. V4B 3Z4
T: 604-542-2930
Trevor.Halford.MLA@leg.bc.ca

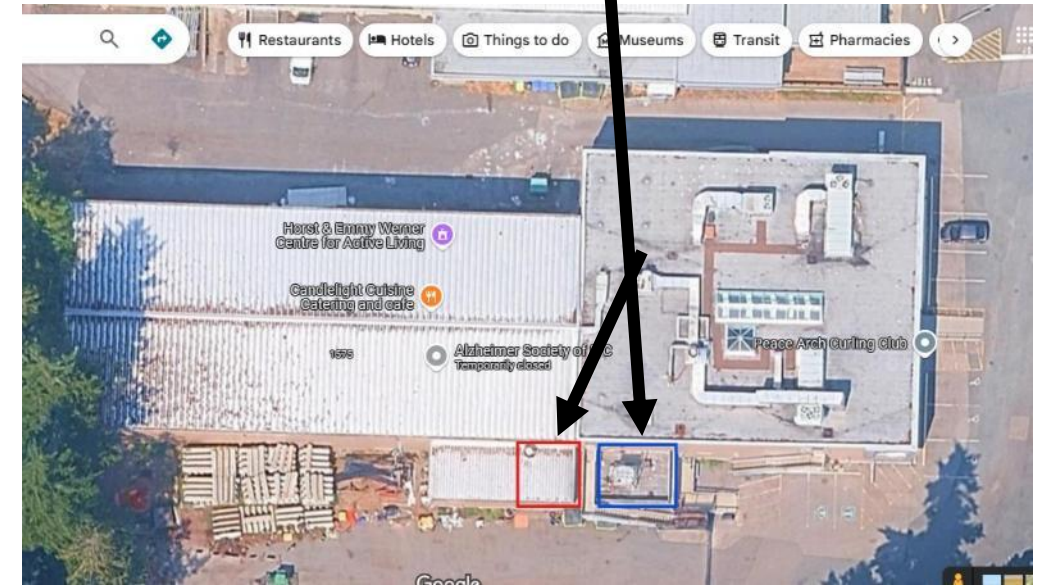
Legislative Office
Parliament Building
Victoria, B.C. V8V 1X4
T: 250-356-6171 / F: 250-387-5066

Sample 3rd Party quote

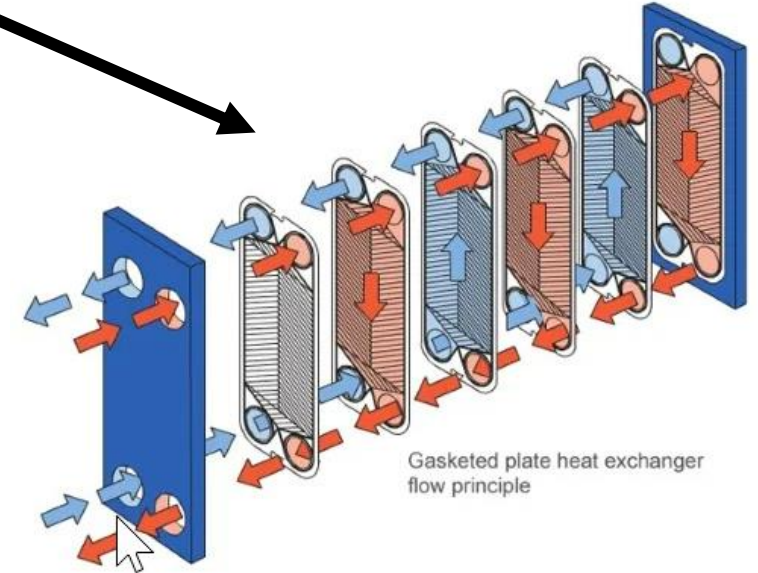


Redacted – Available upon request

Condenser, Compressor, Chiller, Location

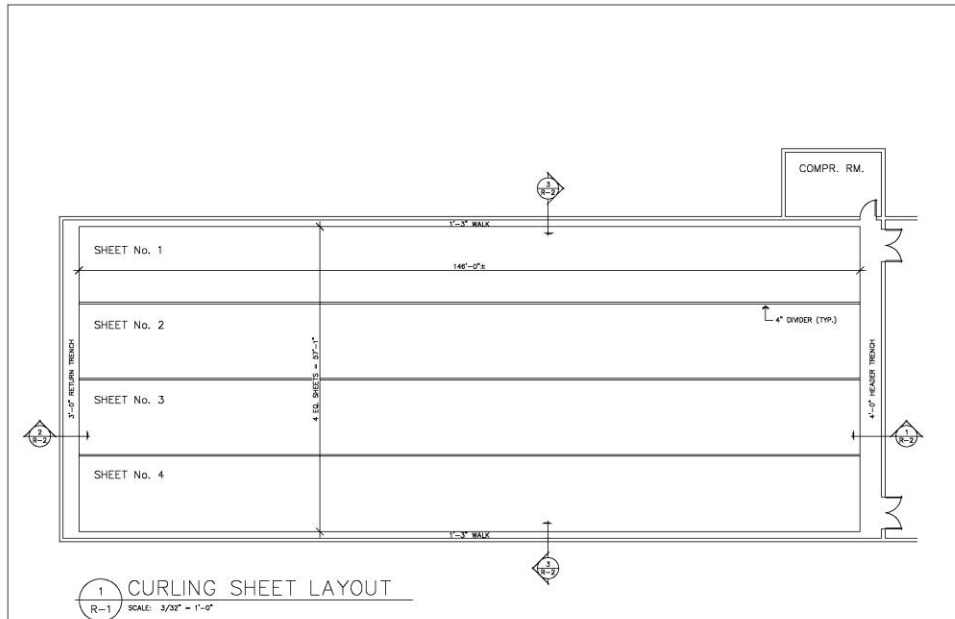


Shell & Tube vs Plate & Frame Chiller



- Current chiller is a shell & tube design, lifespan is 20 years
- Chiller is physically large and holds a large volume of ammonia
- Plate & Frame chiller is smaller, holds less ammonia, lifespan is >40 years

1994 Floor Rebuild



REVIS.	REVISION	DATE
3		
2		
1	ISS. FOR TENDER	04MARCH



REFRIGERATION CONSULTANT

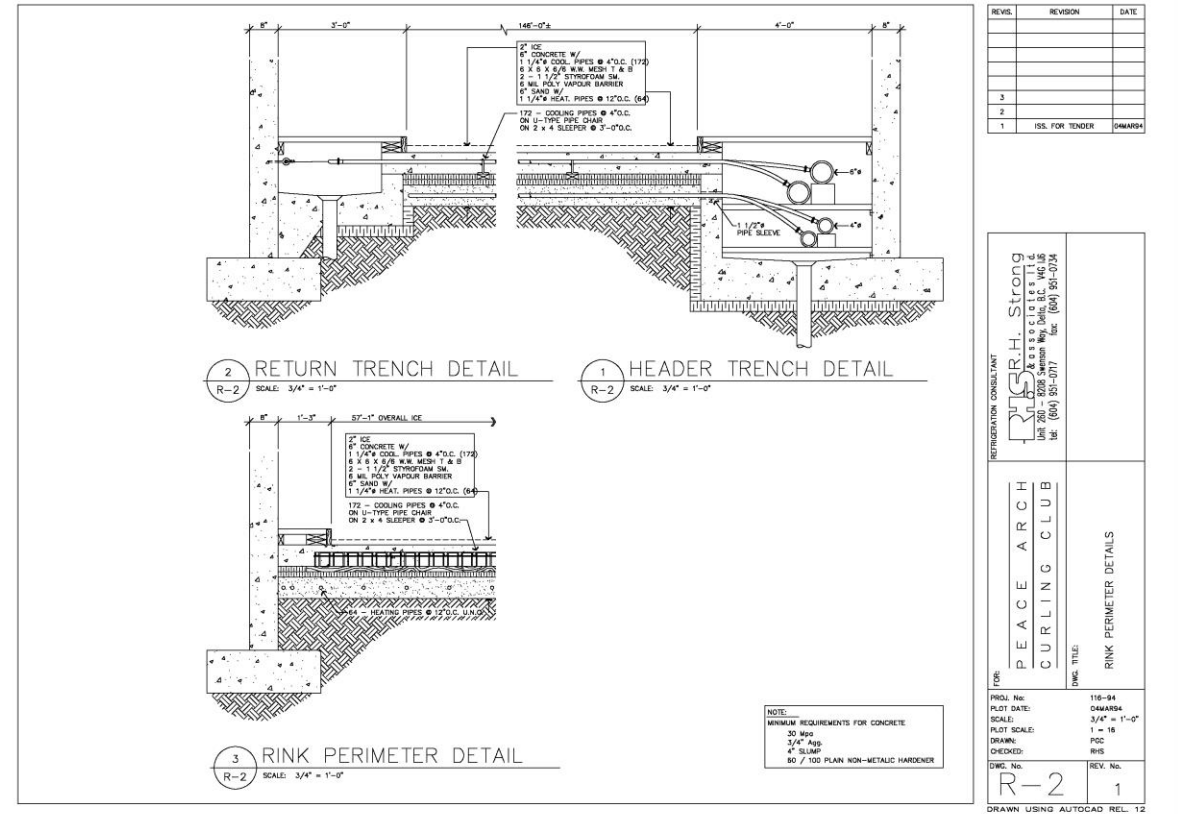
R.H. Strong
& associates llc
Unit 260 - 8206 Swenson Way, Delta, B.C. V4G 1G6
tel. (604) 951-0717 fax (604) 951-0734

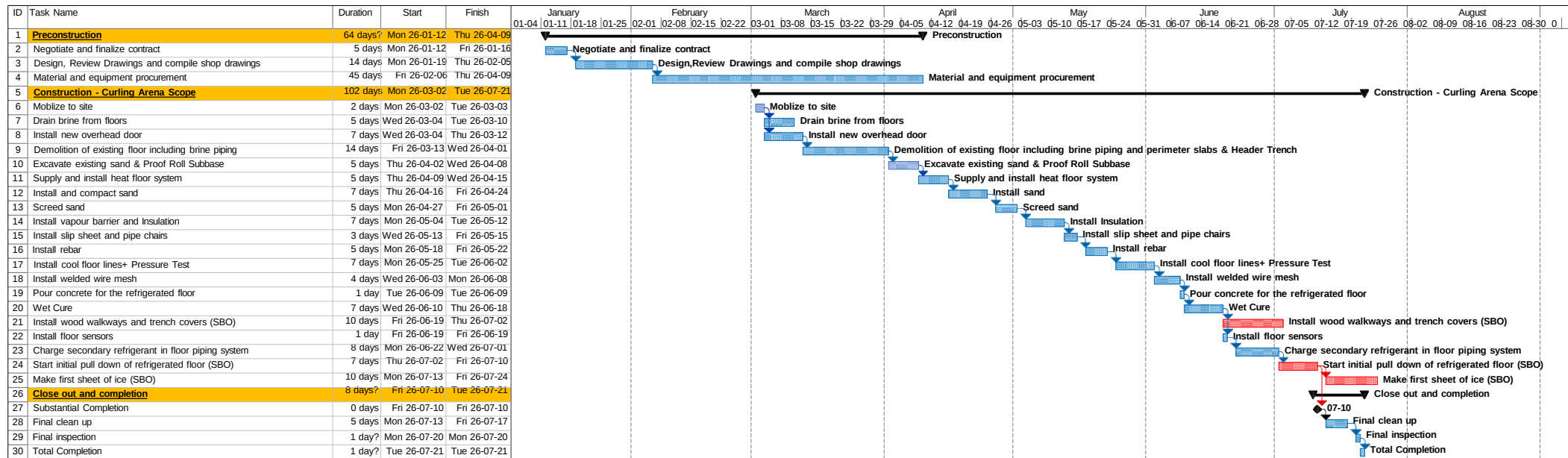
FOR: PEACE ARCH
CURLING CLUB

DWG. TITLE: CURLING SHEET LAYOUT

PROJ. No:	116-94
PLOT DATE:	04MAR94
SCALE:	$3/32" = 1'-0"$
PLOT SCALE:	1 = 128
DRAWN:	PCC
CHECKED:	RHS
DWG. No.	REV. No.
R-1	1

DRAWN USING AUTOCAD REL 12





Preliminary Floor Replacement Schedule

- We have already indicated the closure needs to happen one month later