





FACILITY EVALUATION REPORT

Arena Complex

84 Whyte Avenue, Dryden, ON

Facility Details

Gross Area (Sq.m.): 5765

Construction Year: 1979 (south arena) 1988 (north ice-pad)

Replacement Cost: \$ 26.9 million

Previous Evaluation: 2010 By: Stantec

Date of Evaluation: 09-Aug-22 Project #: 22091

Evaluator: Inhouse

Repair/Maintenance Events *See attached breakdown of action items by period.

0-5 year Recommended Event Action Budget \$842,600.00

6-10 year Recommended Event Action Budget \$ 3,948,400.00

11-20 year Recommended Event Action Budget \$ 2,833,000.00

General Summary:

The arena complex is a twin ice pack facility originally constructed in 1979 with the north ice pad added in 1988. The facility has a generally been well-maintained with routine repairs and replacement. As listed in the breakout of specific items, there are some action events that will require attention.

Structural Summary (Superstructure):

There were no structural repair events noted in the staff observations. Due to the provincial regulations, the roof will require inspection by a licensed structural engineer on an annual basis.

Envelope Summary (Shell):

The envelope of the building is typical of many other pre-engineered structures. It has limited thermal and air/vapor seal, but performs adequately for its function as a twin pad arena of its age. The roof has been included in the schedule of repair replacement events, particularly those related to the flat roof areas, which are more susceptible to leakage and wear.

The events also account for window and door repair/replacement.

Interior Summary:

Most surfaces within the twin pad are durable, concrete or concrete block, where exposed to public assembly types of abuse such as in the arena, the circulation corridors, change rooms and public washrooms, etc. typical of its use. The listed events outline replacement of various flooring.

Mechanical Summary:

This report outlines several repair replacement events, typical for a building of its age and function. Early events propose replacement of various toilet and bathroom fixtures. Long range, there are rink refrigeration and HVAC replacement events.

Electrical Summary:

The facility has undergone routine, light fixture replacement, and should continue with schedules to update items in the general electrical distribution system, such as panels and main supply to the building within the event Horizon of this report.

Study References and Methodology:

The study provides a snapshot of the physical condition and age of building components or systems of the facility at the time of the site visit conducted for evaluation. The site visit is a brief visual, non-invasion walk-through survey of the readily accessible aspects of the building and its site. The survey should not be considered technically exhaustive. The study team also reviews any technical drawings and or other reports and/or building records that are supplied to the evaluator by the facility owner/operator. A brief interview is conducted with maintenance personnel or building users, when possible, to further ascertain known issues for the facility assessment.

The study follows the Uniformat II method for categorizing building components and identifies a potential repair or replacement event. Such an event is provided with an approximate estimate of quantities and cost to maintain the building and not necessarily create an improvement of building feature or performance. The events are organized into potential risk of occurrence over three periods starting with the next five years, years 6 to 10 thereafter and for a period not exceeding a horizon of 20 years from the visit date. In each period, the variables affecting repair or replacement events diminish in accuracy of event cost the further this action is undertaken from the date of the report.

The methodology used in this study is based on the contract scope and the terminology/limitations of ASTM E2018-15 Standard Guide for Property Assessments. Event estimates provided herein are represented in 2022 Canadian dollars. Future periods referred to in this report should be indexed based on several factors affecting future costs, of which may include inflation indexing, regional changes in labour or material availability in the construction industry. The reader would apply these accordingly.

Extra Study: In context to a Uniformat II item, our report may on occasion make a recommendation for the City to engage an expert to conduct addition investigation and/or study concerning an existing building component. This is because a determination could not be reasonably ascertained by Quartek within the parameters of our study scope or because the study/investigation will afford the City more latitude as to the best remedial action other than simply a repair/replacement option. The study/investigation recommendation is in itself an event and we identify a potential cost amounts for budgeting this action. The studies we noted:

<u>Arena Roof Study:</u> As required by regulation for all arenas in Ontario, a peiodic roof structure study must be conducted by a structural engineer to assess condition of the structure and if required, to recommend further action to ensure that the roof is safe from failure in the event of a snow loading and or wind factor from severe weather.

We may determine that as a follow-up after implementing a recommended study/investigation, the result (findings)are likely to facilitate a cost for replacement, remediation or other action, a budgetary amount in the form of an allowance has been noted. The findings of the recommended study may exceed this allowance depending on the outcome, but some funding will presumably be allocated to cover a portion of the action.

Theoretical Life: (References provided from RECapp and Other M/E reference documents) We have provided selective examples of typical operational/functional life for various building components as a general guide to readers:

|--|

Electrical Switch gear 40 years

Electrical Light Fixtures 20 - 30 years + *Efficiency Obsolescence

Radiant Electrical Heating 20 years + *Efficiency Obsolescence

Main Conductors 60 – 70 years

Transformers 30 - 40 years + *Efficiency Obsolescence

Mechanical Components

Plumbing Piping (Copper) 50-60 years

Hydronic Piping (galv.lron) 70 - 90 years + *Efficiency Obsolescence Washroom Fixtures 30 years + *Efficiency Obsolescence

San.Waste Piping (Iron) 60 – 70 years

Gas Furnaces(combustion) 20 - 30 years + *Efficiency Obsolescence
Air handling with H/C coils 50 years + *Efficiency Obsolescence

Light Metal Ducting 60 – 70 years

Enclosure Components

Window Units (Alum.Frame) 40-50 years + *Efficiency Obsolescence
Flat Roofing Membranes 30 - 40 years + *Efficiency Obsolescence

Sloped Roofs (Shingles)

San. Waste piping (Iron)

Standard Brick (Veneer)

Conventional EIFS wall

Exterior Metal Siding

20-40 years

80 - 100 years

40 - 60 years

40 - 60 years

Superstructure Components

Concrete Foundations 40-50 years + *Efficiency Obsolescence
Structural Steel Framing 30 - 40 years + *Efficiency Obsolescence

Masonry Walls 20-40 years San. Waste piping (Iron) 30-70 years

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General Report Disclaimer:

The report should be reviewed in context to any prior hazardous building materials assessment studies as to further budgeting considerations beyond the limited repair/replacement events described in this report. The intended use of the report is for assistance with long-range asset management planning for a facility under its current state so ideally adequate budgeting can be provided.

The repair replacement events identified in the report are not intended to capture routine maintenance of various components of the facility that would be generally anticipated as part of the day-to-day operations. Deferred maintenance can lead to earlier than predicted failure of equipment, systems, materials, etc. Not withstanding the described methodology, the study findings are only as accurate as the available information provided, the allowable time to conduct a site visit to properly document findings and the level of access afforded the surveyors by the owner's representative. Costing accuracy may vary due to our ability to fully assess that collateral affects of a repair/replacement event on other elements of the building or surrounding site.

No Events

Part B Shell

B10 Superstructure

Part A Substructure

Roof Construction B1020 B102001 Structural Frame Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Annual Roof framing Inspection by a Structural Engineer 5,000 Study Study Rq'd. Allowance 1 Condition Arena 1 Front single storey - Open web steel joists Good condition, Routine safety Precaution; Repeat each year per regulations Scope The structural frame could consist of structural steel including columns, beams, joists, and all associated items. It could be a concrete frame utilizing concrete or masonry columns and concrete girders and beams. The structural frame could be wood columns with wood beams or wood trusses. The structural frame could be a combination of the above. For example, concrete or masonry columns with structural steel beams and

joists. All associated work items should be included in each assembly. Separate assemblies would be used for different types of construction. The unit of measure at the assembly level is the square footage of the supported area. Decks and slabs are not

B20 Exterior Enclosure

B2030	Exterior Do	ors							
	B203001	Solid Doors							
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.	Location	Flag		
		EA		13	\$ 20,0	Personnel doors, concession door mechanical room.	Replace		
			Condition	Panic devices, replacement	hinges, closu	res. Replaced a	s required. Some are older an	d due for	
		Scope	Assemblies include all exterior solid doors, hollow metal or wood with frames. Solid doors may include viewing lites in door. Door hardware is included.						

included in this assembly



Part C Interiors

C1030	Fittings										
	C103002	Toilet and B	ath Accessor	ies							
		Unit/Meas.	O/Factor	Quantity	Event	t \$ Est.	Location	Flag			
							Various				
		SM		17	\$	2,000		Replace			
		Condition	Hand towel, s	oap and papei	towel dis	pensers					
		Scope	Toilet and bat dispensers, gr				dispensers, toilet paper ho	older, towel			
	C103003	Marker Boa	rds and Tack	Boards							
		Unit/Meas.	O/Factor	Quantity	Event	t \$ Est.	Location	Flag			
							Offices, Special event room, Shop and common areas.				
		SM		14	\$	4,500	areas.	Replace			
		Condition	ondition 4 marker boards in good condition. Approximately 10 cork boards, good to fair condition								
				J			,				
		Scope	Scope Assemblies include all marker boards, tackboards, and fastening devices. The unit of measure at the assembly level is each.								
	C103007	Fire Extingu	isher Cabinet	'S							
	0100001	Unit/Meas.	O/Factor	Quantity	Event	t \$ Est.	Location	Flag			
							Arena one, area two lobbies				
		LM		11	\$	3,000		Replace			
		Condition	Fair, some sh	owing signs of	rust. Cor	nsider plas	tic when replacing				
		Scope	This assembly extinguishers				s of fire extinguisher cabine	ts. Fire			

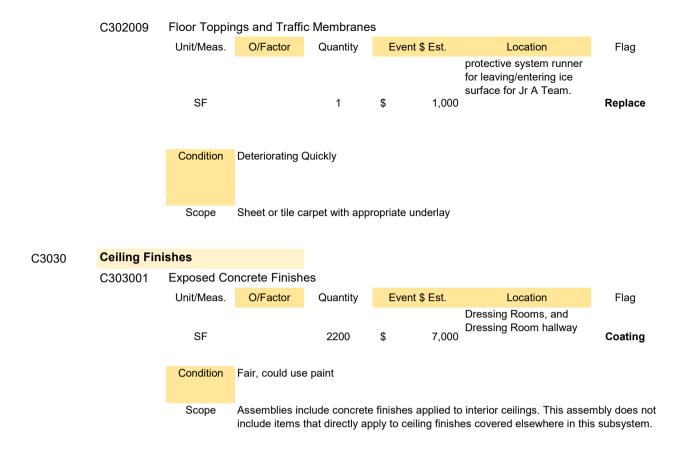




C30 Interior Finishes

OOU IIIICII	01 1 111101100										
C3020	Floor Finish	nes									
	C302005	Carpeting									
		Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag			
							Arena/Admin Offices				
		SM		750	\$	6,500		Replace			
		Condition	Fair, but dated	l and rather wo	orn. Price	e is supply	and installed with foam unde	erlay			
		Scope	Sheet or tile ca	arpet with appi	ropriate	underlay					
	C302007	Painting and	Painting and Staining Floors								
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Location	Flag			
		SF		1500	\$	5,000	Seating sections, area behind rink 1, shop, mechanical rooms	Coating			
					·	-,		3			
		Condition Good, painted regularly, touched up, in house.									
		Scope	Scope Assemblies include painted and stained floor surfaces.								
	C302007	Painting and	Staining Floo	ors							
		Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag			
							Rink 2 around boards and				
		SM		750	\$	2,500	beside rubber flooring.	Coating			
		Condition	Good, but gets marked up and scratched. Repainted regularly. Rubber flooring is being considered for rink 2. (more expensive though, although durable.								
		Scope	Assemblies in	clude painted	and stair	ned floor su	urfaces.				





Part D Services

D10 Conveying

2.0 00.										
D1090	Other Conv	veying Systems								
	D201005	Other Material Handling Systems								
		Unit/Meas.	O/Factor	Quantity	Event 9	\$ Est.	Location	Flag		
		5 4				Ele	vating Work Platform			
		EA		1	\$	7,500		Replace		
		Condition	Condition Good, inspected regularly							
		Scope	Material or handling systems not described by the assembly categories							
D20 Dl.	mhina									

D20 Plumbing

D2010	Plumbing I	ixtures							
	D201001	Water Close	ets						
		Unit/Meas.	O/Factor	Quantity	Event	\$ Est.	Location	Fla	
		EA		3	\$	10,000	Zamboni room, Mechanical Room	Repl	
		Condition	Original						
		Scope	Number of fixtures All terminal devices on the domestic plumbing system which have water supplied to the fixture. Hot water heaters, hose bibbs, and special equipment a not counted as a fixture.						



D201002	Urinals						
	Unit/Meas.	O/Factor	Quantity	Event 9	\$ Est.	Location	Flag
	EA		13	\$	2,900	Men's washrooms, Dressing rooms, Referee room,	Replace
	Condition	Most original.	3 newer.				
	Scope	Self explained					
D201003	Lavatories						
	Unit/Meas.	O/Factor	<mark>D/Factor</mark> Quantity		\$ Est.	Location	Flag
	EA		3	\$	7,500	Arena Mechanical room, Arena Caretaker closet	Replace
	Condition	Most in walls.					
	Scope		to the fixture.			lomestic plumbing system v hose bibbs, and special eq	
D201004	Sinks						
	Unit/Meas.	O/Factor	Quantity	Event 9	\$ Est.	Location	Flag
						Washrooms, dressing	
	EA		16	\$	4,800	rooms, Staff kitchens, cafeteria	Replace
	Condition	Fair, some hav	ve been replac	ced and we	continu	e to do so are required.	
	Scope		to the fixture.			lomestic plumbing system v hose bibbs, and special eq	
D201005	Showers / T	ubs					
	Unit/Meas.	O/Factor	Quantity	Event 9	\$ Est.	Location	Flag
	EA		8	\$	40,000	Ref room. Dressing rooms. Staff rooms.	Replace
	Condition	Original tile, or with new fixture		ng, original	fixtures.	Price is to update 4 washro	oms to tile
	Scope	Self explained					



Replace

D30 HVAC

D30 HVA	AC							
D3020	Heat Gener	rating Syster	ns					
	D302002	Hot Water E	Boilers					
		Unit/Meas.	O/Factor	Quantity	Event \$ E	st.	Location	Flag
							echanical Room na Zamboni room	
		KW	EA	2	\$ 30	0,000		Replace
		Condition	Identical Units	are high volu	me boilers. S	erviced annuall	y, but due for repla	cement.
		Scope	heat exchange	ers, boiler feed	units, etc. Th	nis assembly w	eeders, air separat ould also include fi assembly level is	ttings and
	D302003	Furnaces						
		Unit/Meas.	O/Factor	Quantity	Event \$ E	est.	Location	Flag
		KW	EA	2	\$ 13	Arena O rooms, F 3,000 washroo		Replace
		Condition	Arena lobby F for the Washro		d condition. D	ressing room fu	urnace dated. As is	the Furnace
		Scope		s required for l			e furnace and nece ack. The unit of m	
D50 Elec	ctrical							
D5030	Communic	ations and S	ecurity					
	D503001	Fire Alarm S	Systems					
		Unit/Meas.	O/Factor	Quantity	Event \$ E	Est.	Location	Flag
						Through	the facility	

Condition

EΑ

Good, inspected regularly. No means to determine total costing. Rough estimate of cost to install new today.

100,000

Scope

Assemblies include wire, conduit, conduit support or fastening systems, fire alarm devices, fire detection devices, safety switches, all electrical connections, and other associated items



D503002

D503004

\$

Event \$ Est.

Event \$ Est.

20,000

Quantity

1

exactly organized, but updated and added onto.

Quantity

2

\$

Facility: Arena Complex Location Flag Through the facility Replace Good, managed and maintained by City of Dryden IT Shaw, Bell and Tbay Tel. Not This system would include central switchboards, telephone sets, underground ducts, and manholes. Assemblies include wire, conduit, backboards, cabinets, outlets, and Location Flag Arena 1 and arena 2 have separate systems. Replace

Condition Cost is to replace all components

O/Factor

power supply connections.

Telecommunications Systems

O/Factor

Unit/Meas.

EΑ

Condition

Scope

Unit/Meas.

EΑ

Scope

Public Address Systems

Assemblies include wire, conduit, speakers, monitoring devices, amplifiers, switches, power system tie-in devices, and detection devices.

50,000

Clock and Program Systems D503006

Scope

				ogram oyoto	Olook alla i
Flag	Location	Event \$ Est.	Quantity	O/Factor	Unit/Meas.
	Arena Score clocks, Rink 1 and rink 2				
Replace		100,000	2		EA

Condition Cost is to replace all components

> Assemblies include wire, conduit, power systems tie-in, safety switches, control panels, battery back-up devices, clocks and outlets.



City of Dryden

den Facility: Arena Complex

Other Electrical Services D5090 D509005 **Electrical Heating** Unit/Meas. O/Factor Quantity Event \$ Est. Flag Location coil heaters with blower. Girls dressing room, Arena maintenance shop Replace; To SM \$ 1,500 redundant Condition Fair. To be replaced with more efficient solution. Items could include baseboard heaters and wall and ceiling heaters. Assemblies include Scope safety switches, control devices, heaters, conduit, and wire.

Part E Equipmt. & Furnishings

E20 Furnishings

E2010	Fixed Furn	ishings									
	E201003	Seating (Fixed)									
		Unit/Meas.	O/Factor	Quantity	Even	nt \$ Est.	Location	Flag			
							Arena 1 seats Arena two bleacher systems				
		EA		950	\$	350,000		Replace			
		Condition		rena Seats Reached end of Life; Bleachers dated, not optimal, but function. Painte egularly. Steel framed, wood bench/							
		Scope	The types of fu	urnishings four	nd here ii	nclude artv	vork, window treatments, ar	id seating.			
	E201004	Fixed Floor	Grilles and Ma	ats							
		Unit/Meas.	O/Factor	Quantity	Even	nt \$ Est.	Location	Flag			
							Foyer				
		EA		2	\$	3,000		Replace			
		Condition	Poor, requires	replacement/	relocatio/	on					
		Scope	The types of fu	urnishings four	nd here ii	nclude artv	vork, window treatments, ar	id seating.			



E2020	Moveable	Furnishings										
	E202003	Freestanding	Furniture									
		Unit/Meas.	O/Factor	Quantity	Event \$	Est.	Location	Flag				
						Р	icnic tables					
		EA		5	\$	2,000		Replace				
		Condition	Poor, to be rep	or, to be replaced with rolling, folding tables								
			Scope Institutional equipment includes items that are normally found in hospitals, laboratories, auditoriums, and libraries.									
			auditoriums, a	nd libraries.								
	E202004	Rugs and Ac	cessories									
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Location	Flag				
						Р	ortable					
		EA		2	\$	2,000		Replace				
		0 1141	Red carpets for ice. One 45feet long, one 30 feet long.									
		Condition	Red carpets to	liong.								
		Scope	Assemblies include rugs and accessories.									

Part F Special Construction

No Events

Scope

Part G Bldg. SiteWorks

G2

Improveme	ents						
Parking Lo	ts						
G202004	Marking & Si	ignage					
	Unit/Meas.	O/Factor	Quantity	Event \$	Est.	Location	Flag
						Accessible parking spaces	
	EA		3	\$	900		Coating
	Condition	Price for all 3 l	lots. Interdepa	tmental cha	arge. Re	epainted and new signs as	required.
	Parking Lo	Unit/Meas.	Parking Lots G202004 Marking & Signage Unit/Meas. O/Factor EA	Parking Lots G202004 Marking & Signage Unit/Meas. O/Factor Quantity EA 3	Parking Lots G202004 Marking & Signage Unit/Meas. O/Factor Quantity Event \$ EA 3 \$	Parking Lots G202004 Marking & Signage Unit/Meas. O/Factor Quantity Event \$ Est. EA 3 \$ 900	Parking Lots G202004 Marking & Signage Unit/Meas. O/Factor Quantity Event \$ Est. Location Accessible parking spaces EA 3 \$ 900

This includes painting of the parking stalls, signage, etc.



Condition

Scope

G2030

Pedestrian Paving Bases and Sub-Bases D203001 Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Sidewalk in front of 35,000 building SM 2500 Replace In general good, 65% to be replaced in 2023 as a result of the expansion project Condition Scope These are the compacted and prepared gravel or soil layers that are placed prior to the installation of the final surface. The subbase is placed and compacted before the base layer is applied. D203099 Other Walks, Steps and Terraces Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Behind Arena 1 3 \$ 3,000 Replace

Concrete platforms when exiting building.

Walks, steps, ramps, terraces not described by the assembly categories listed above.



Part A Substructure

No Events

Part B Shell

B20 Exterior Enclosure

B20 Exte	rior Enclos	ure						
B2010	Exterior Wa	ılls						
	B201011	Joint Sealan	it					
		Unit/Meas.	O/Factor	Quantity	Even	t \$ Est.	Location	Flag
							various	
		SM			\$	5,000		Repair
		Condition		of Rink 2, Can ck fascia install			/ill be formally evaluated dur	ing block
		Scope	Exterior applic	ation of joint s	ealants			
B2030	Exterior Do	ors						
	B203001	Solid Doors						
		Unit/Meas.	O/Factor	Quantity	Even	t \$ Est.	Location	Flag
				•			Emergency exits for Rink 1, mechanical rooms,	-
		EA		13	\$	26,000	concession exit.	Replace
	Condition	Some are dou	ible doors. So	me sinç	gle.			
							hollow metal or wood with fror hardware is included.	ames. Solid
	B203002	Glazed Door	re					
	D203002	Unit/Meas.	O/Factor	Quantity	Event	t \$ Est.	Location	Flag
		Officialities.	O/I actor	Quantity	LVCII	ι ψ ∟3ι.	Arena Office from	i iag
		EA		1	\$	3,500	Sidewalk	Replace
		Condition	Door to office	in good conditi	ion, old	er but Ic	ow usage.	
		Scope		curtain walls).	These	doors c	s with glass, frames (not inc an be made of storefront ma included.	
	B203004	Overhead D	oors and Roll	l-up Doors				
		Unit/Meas.	O/Factor	Quantity	Event	t \$ Est.	Location	Flag
							2 exterior roll ups	
		EA		2	\$	20,000		Replace
		Condition	Original Door,	showing signs	of age).		
		Scope		s, hardware, ho	oisting o	devices,	erior walls or exterior skin. As and finish and other associ s each door.	



B30 Roofing

B3010	Roof Cove	rings					
	B301001	High Slope	Roof Covering	gs			
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.	Location	Flag
					Ov	er Arena 1 and 2	
		SM		70000	\$ 1,500,000		Replace
		Condition	EPDM. In ger valley betweer	· ·		atching annually, parti	cularly in the
		Scope	Assemblies in seam, etc.	clude roof cov	erings, such as shi	ngle, wood shake, and	l standing

Part C Interiors

C10 Interior Construction

C1020	Interior Do	ors						
	C102002	Glazed Inter	ior Doors					
		Unit/Meas.	O/Factor	Quantity	Even	nt \$ Est.	Location	Flag
							Office, (1) Rink 2, (4)	
		EA LEAF		5	\$	5,000		Replace
		Condition	Fair condition					
		Scope	Assemblies in door hardware		d inter	ior doors	with glass, frames, finish, e	etc. Interior
	C102004	Sliding and	Folding Doors	3				
		Unit/Meas.	O/Factor	Quantity	Even	nt \$ Est.	Location	Flag
							power operated	
		EA		3	\$	70,000		Replace
		Condition	Foyer to lobby	. Large, 30k	Lobby	to arena	1, 2 doors, 20 each.	
		Scope					oors with frames, hardware, ne unit of measure at the as	
	C102005	Interior Ove	rhead Doors					
		Unit/Meas.	O/Factor	Quantity	Even	nt \$ Est.	Location	Flag
		EA		3	\$	30,000	Onto the ice surface of rink 1. 2, Zamboni shop from rink 1 and 2	Replace
		Condition	Good. Overhe	ead door to ice	surfac	ce much	heavier, larger, most costly	
		Scope	hardware, hois		and fin	ish and c	facility. Assemblies include other associated work. The	

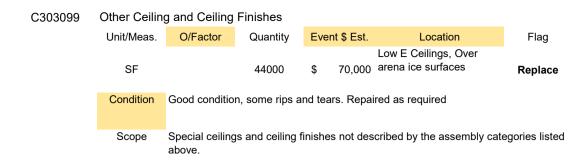


	C102007	Interior Doo	r Hardware					
		Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
							Various	
		EA		50	\$	10,000		Replace
		Condition	Replaced or repush plates for		-	as requi	red. Includes closures, hand	dles hinges,
		Scope					as closers, hinges, locksets ssembly level is each door.	, panic
C1030	Fittings							
	C103001	Compartme	nts, Cubicles	and Toilet P	artitio	ns		
		Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
							Dressing room washrooms	
		EA		22	\$	25,000		Replace
		Condition	11 in new or v	ery good cor	ndition.	11 olde	r, or original partitions	
		Scope	Assemblies ind screens.	clude individu	ıal com	partment	s, cubicles, toilet partitions,	and urinal
	C103004		Devices					
		Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
							various	
		SM		23	\$	2,000		Replace
		Condition	Many replaced	l, or in very go	ood co	ndition.		
		Scope	Assemblies ind	clude all signs	s, plaqı	ues, traffi	c markers, etc.	
	C103006	Lockers						
		Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
		CM		100	¢	E0 000	Mostly in rink 2. Some in staff area.	Danlaga
		SM		100	\$	50,000		Replace
		Condition	Good condition would not be re		ned bu	t possibly	left for City. If they are rem	noved, they
		Scope					ner wood or metal, single or cluded in this assembly.	double tier.



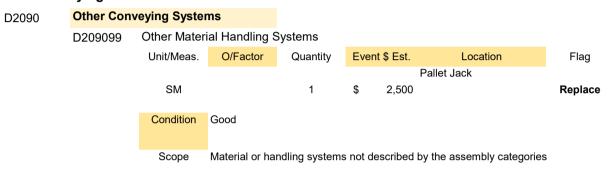
Ceiling Fin	ishes						
C303007	Suspension	Systems					
	Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag
	SM		None	\$	75,000	Entire area of lobby, office, foyer, washrooms, cafeteria and meeting rooms	Replace
	Condition	Good condition	n. Does get ab	used.	Includes	framing/rails and tiles	
	Scope	This assembly the structure for	,	•	•	tem which is suspended or ceiling.	hung from

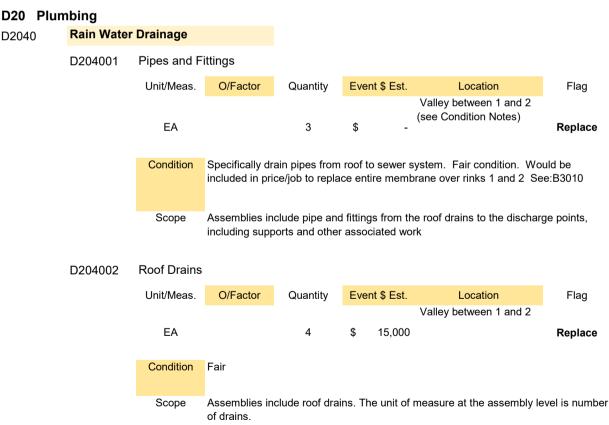




Part D Services

D10 Conveying







D50 Electrical

Electrical Service and Distribution D5010 D501002 Secondary Unit/Meas. O/Factor Quantity Event \$ Est. Flag Location Outside, behind arena 1 and 2 KVA 30,000 Replace Appears good. not sure if owned by the utility provider or the City of Dryden Condition Transformers fed from protection equipment on the building side of primary Scope transformer. Assemblies include transformers, conduit, conduit support, and wire. D501003 Main Switchboards O/Factor Unit/Meas. Quantity Event \$ Est. Location Flag Arena Electrical Room KVA 2 \$ 50,000 Replace Fair Original for rink 1 and 2 Condition This includes the protection equipment and metering devices for main distribution. Scope Assemblies include main distribution panel, breaker, fuses, and meters. D501004 Interior Distribution Transformers O/Factor Unit/Meas. Event \$ Est. Location Quantity Flag Original **KVA** 1 \$ 30,000 Replace Condition Fair, Original

This includes the interior step-down or back boost transformers



Scope

	D501005	Panels					
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.	Location	Flag
		KVA		7	\$ 100,000	Electrical room, Mechanical room, skate sharpening room. Office	Replace
		Condition	Good, less tha	an 10 years old	d. 10K-20K pei	panel installed based on siz	zing 100K
		Scope	Branch circuit and wire.	panel boards.	Assemblies in	iclude panel boards, breakei	rs ,conduit,
D5030	Communic	cations and S	Security				
	D503008	Security Sys	stems				
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.	Location	Flag
						Through out facility . See Extra options in Condition	
		KVA		1	\$ 15,000)	Replace
		Condition Scope	include camer Assemblies in	ra heads. Add	\$200 per came	nents replaced as required. era head x 21 cameras support or fastening systems	s, security
			Detection Sys		connections, a e included in th	nd other associated items. I iis category.	ntrusion
D5090		trical Service					
	D509002	Emergency	Lighting and	Power			
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Flag
		KVA		18 Exits 18 emergency lights. 3 Battery packs	\$ 15,000	Through out facility.	Replace
		Condition	-	_	of 3 battery pac very good con	cks replaced. Heads replace dition	ed as
		Scope				or power generation, connec ttery chargers, batteries, an	



Part E Equipmt. & Furnishings

E10 Equipment

Institutional Equipment E1020 E102001 Auditorium and Stage Equipment Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Staging EΑ 2 40,000 Replace One set good, one set fair. Combined for 1100 q ft of staging. Condition Scope Institutional equipment includes items that are normally found in hospitals,

laboratories, auditoriums, and libraries.

Part F Special Construction

F10 Special Construction

F1040	Special Fac	ilities					
	F104005	Ice Rinks					
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.	Location	Flag
						Arena 1 & Arena 2	
		EA		2	\$ 1,500,000		Replace
	Condition	,	•		eferencing boards. Compor e lines have estimates for u		
		Scope	Special contro automation sy		entation include	es recording instrumentation	n and building



Part G Bldg. SiteWorks

G20 Site Improvements

G202006 Resurfacing Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Arena Parking lot, Side and back SF 15000 195,000 Repair Condition Showing signs of deterioration note sure the difference between G202002 and G22006 Scope This includes painting of the parking stalls, signage, etc. Site Development G2040 G202003 Fencing and Gates Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Around condenser LM 15 5,000 \$ Replace Condition Fair, showing signs of age. Estimate received to replace this fencing. 23 x15 foot enclosure. Scope This includes installation or construction of security, boundary, or barbed wire

G40 Site Electrical Utilities Preparations

Electrical Distribution G4010 G2401001 Transformers Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Behind Rink one LM 15,000 Replace Good, Not sure if owned by City or the Utility provider. Assumption for estimate Condition based on Utility providing transformer and City providing Vault Scope Electrical power transformers used in conjunction with electrical substations. May include pole/tower or pad-mounted transformers.

fencing and all required gates.



	G2401007	Duct banks,	Manholes, Har	ndholes and	l Race	eways				
		Unit/Meas.	O/Factor	Quantity	Even	t \$ Est.	Location	Flag		
		LM		2	\$	30,000	Side and rear of building Based on estimate of distance	Replace		
		Condition	Good condition							
		Scope	Components use	ed in conjund	ction w	ith electr	rical substations.			
G4020	Site Lightin									
	G2402006	Exterior Ligh	ting Fixtures a	nd Controls	8					
		Unit/Meas.	O/Factor	Quantity	Even	t \$ Est.	Location	Flag		
							Perimeter of building and on hydro poles			
		LM		10	\$	5,000		Replace		
		Condition	New in 2021 or 2	2022						
		Scope	Includes fixtures	, controls, ar	nd all c	ompone	nts used in conjunction with			

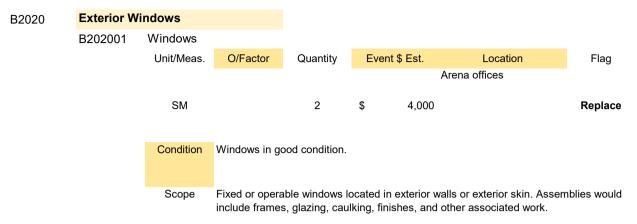


Part A Substructure

No Events

Part B Shell

B20 Exterior Enclosure



B30 Roofing

D30 1700	iiig							
B3010	Roof Cover	ings						
	B301002	Low Slope N	Membrane Sys	stems				
		Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag
							Over arena lobby and	
		SF		4000	\$	200,000	offices	Coating
		Condition		U	ondition.	Replaced	in 2018. Event pricing esta	blished from
			2018 installation	on.				
		Scope	Assemblies in	clude roof cov	erings, s	such as bu	ilt-up, elastomeric, modified	l bitumen, etc.
			Also, walkway	s or work area	s (used	to gain ac	cess to rooftop equipment)	will be

Part C Interiors

C10 Interior Construction

C1010	Partitions							
	C101004	Interior Gua	rdrails and So	reens				
		Unit/Meas.	O/Factor	Quantity	Event	\$ Est.	Location	Flag
							Arena one, stairs, seating sections, ledges.	
		SM		100	\$	25,000		Replace
		Condition	Good					
		Scope	them) and scr	eens and asso	ciated wo	rk includ	I the row screen of posts tha ling tracks and anchoring sy- alconies and are not associa	stems. These



City of Dryden **Facility: Arena Complex**

C101007	Interior Glaz	ring					
	Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
					Ar	ena 1 and Arena 2	
	SM		128 pieces &114 pieces	\$	350,000		Replace
	Condition		; Fair in Rink : a 2, mostly 5/8			ding. Arena 1, all 5/8th	thickness, 6
	Scope	Fixed or opera other associat		Assemb	olies would inc	lude frames, glazing, cat	ulking and
C101007	Interior Glaz	zing					
	Unit/Meas.	O/Factor	Quantity	Eve	nt \$ Est.	Location	Flag
					Ar	ena lobby	
	SM		9	\$	135,000		Replace
	Condition						
	Scope	Fixed or opera other associate		Assemb	olies would inc	lude frames, glazing, ca	ulking and

C30 Interior Finishes

C3010

Wall Finish	es						
C301003	Gypsum Wa	allboard Finish	nes				
	Unit/Meas. O/Factor		Quantity	Event	\$ Est.	Location	Flag
	SF		2500	\$	30,000	Arena Offices special even room and ice dog office	Replace
	Condition	Good, repaired	d as required.				
	Furring strips taping, sandir		or channels ar g, finishing, an	e included in this and sheetrock acces		lied directly to an interior wassembly. This assembly alsories. This assembly does delsewhere in this subsyste	so includes not include
C301004	Tile and Ter	razzo Wall Fii	nishes				
	Unit/Meas.	O/Factor	Quantity	Event	¢ Est	1 4:	
				_,	. φ ⊏Sι.	Location	Flag
	SM		1	\$	5,000	Dressing Room 10 Shower	Flag Replace
	SM	Excellent, insta	·	\$	5,000	Dressing Room 10	J



C3020	Floor Finish	nes								
	C302004	Resilient Floor Finishes								
		Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag		
		SF		120000	\$	200,000	Arena 1, Dressing rooms, Lobby, walking tracks, hallways rented completed. Rink 2 common areas, poor.	Replace		
		Condition	Excellent, insta	alled in 2020 8	k 2021.	Cost is bas	sed on actual installation.			
		Scope	This assembly Each type of ti				ed directly to an interior wall y.	surface.		
C3030	Ceiling Fini	shes								
	C303006	Painting and	l Staining Cei	lings						
		Unit/Meas.	O/Factor	Quantity	Ever	nt \$ Est.	Location	Flag		
		SM		300	\$	8,000	Shop, Zamboni Room, Compressor Room. Room 10	Coating		
		Condition		•	•	•	smetic I a personal areas or inted ceilings for the areas I	•		
		Scope	Assemblies in	clude painted	and stai	ned finishe	ed interior ceiling surfaces.			

Part D Services

D30 HVA	C									
D3090	Other HVAC	C Systems a	nd Equipmen	nt						
	D309002	Refrigeration System								
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Location	Flag		
							Refrigeration plant and into rink 1 and 2 : Price if replaced at one time.			
		KW	Assembly	1	\$	950,000	ropidood at one time.	Replace		
		Condition	valves, and sa replaced. All 3	feties. Conder compressors	nser. B being r	Brine supply replaced in	pumps., 2 heat exchanger. I to rink 1 and 2. 2 of 3 brii 2023. Much piping and conf rs life left. Brine headers are	ne pumps trols replaced.		
		Scope	Includes equipment for refrigeration in a cold storage facility. Both low and medium temperature equipment are included. Assemblies include: condensing and compressurits, evaporator blowers, refrigerant piping, and specialties, heat recovery systems (liquid or gas), heat recovery distribution systems (liquid or gas), and system testing and balancing.							



City of Dryden **Facility: Arena Complex** D309099 Other Special Mechanical Systems Flag Unit/Meas. O/Factor Quantity Event \$ Est. Location In arenas 2 \$ 130,000 Replace Condition Large gas-fired unit (existing) Arena Dehumidification system. 2 smaller units being installed in rink 2 in 2023. Not recommended to replace gas fired unit at end of life. Add two more small electric units. These are approximately 65k installed. Scope Any other mechanical system not defined in other categories. Assemblies would include special systems and special devices. The unit of measure at the assembly level is each system or device. **Sprinklers** D401002 Sprinkler Water Supply Equipment and Piping Flag Unit/Meas. O/Factor Quantity Event \$ Est. Location

D40 Fire Protection D4010 Throughout facility for Rink 1 and 2 EΑ 200.000 1 \$ Replace Condition This was discussed in another arena. This is a guess to replace system. Scope Assemblies include alarm valves, flow control valves, pipe and fittings from equipment to sprinkler heads, including all supports and wall or floor sleeves. All equipment including tanks, pumps, and other associated equipment, fittings, and specialties required for hook-up are in this assembly. The unit of measure at the assembly level is each sprinkler head. **Fire Protection Specialties** D4030 D4030 Fire Extinguishing Devices Unit/Meas. O/Factor Quantity Event \$ Est. Location Flag Throughout Facility L/S 5,000 18 \$ Replace Condition inspected regularly. Price includes cabinets and fire extinguishers. Scope

Assemblies include all types of fire extinguishers, i.e., water, dry chemical, carbon dioxide, soda acid, etc. The brackets, sleeves, and supporting devices are included in this assembly.



D50 Electrical

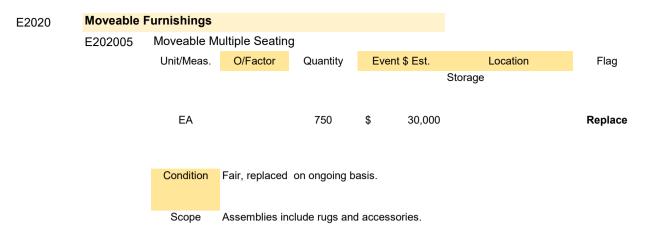
DOU LICCI	ilcai							
D5010	Electrical S	Service and [Distribution					
	D501007	Motor Contr						
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Location	Flag
						F	Refrigeration plant	
		KVA		1	\$ 40	0,000		Replace
		Condition	Good, less tha	an 10 years old	I			
		Scope	Assemblies in		or control cen		eration devices are contair inet, motor starters, conta	
D5020	Lighting ar	nd Branch W	iring					
	D502002	Lighting Equ	uipment					
		Unit/Meas.	O/Factor	Quantity	Event \$ E	Est.	Location	Flag
							Arena 1 and 2	
		KVA		112 high bay fixtures. Approximatel y 250 LED fixtures	\$ 90	0,000		Replace
		Condition	Arena one, 3 years old, Arena two, 8 years old. 90% or approximately 125 fixtures have been retrofitted to the LED within the last 3 years. Price includes replacement of all fixtures including installation.					
		Scope	This assembly	y includes fixtu	res, conduit,	wire, ar	nd switching devices.	

Part E Equipmt. & Furnishings

E20 Furnishings

E2010	Fixed Furn	ishings						
	E102006	Other Fixed	Interior Furni					
		Unit/Meas.	O/Factor	Quantity	Event	\$ Est.	Location	Flag
							Penalty and players boxes.	
		EA		8	\$	12,000		Replace
		Condition	Good					
		Scope	The types of for	urnishings four	nd here in	nclude art	work, window treatments, a	nd seating.





Part F Special Construction

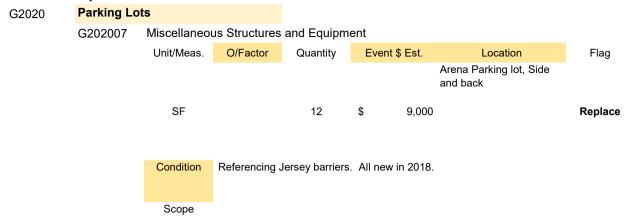
F10 Special Construction

riu Spec	iai Constru	Clion							
F1040	Special Fac	ilities							
	F104005	Ice Rinks							
		Unit/Meas.	O/Factor	Quantity	Even	it \$ Est.	Location	Flag	
							Arena 1 and Arena 2		
		EA		2	\$	250,000		Replace	
		Condition	Board system o	original, 1986,	Deferr	Deferral is refere	encing board		
		Scope							
F1050	Special Cor	ntrols and In	strumentatio	n					
	F105002	Building Aut	omation Syste	em					
		Unit/Meas.	O/Factor	Quantity	Event \$ Est.		Location	Flag	
							Refrigeration plant		
		EA		1	\$	65,000		Replace	
		Condition	Refrigeration S refrigeration me		oring. Price based on estim	ate to replace			
		Scope	 Special controls and instrumentation includes recording instrumentation and buildir automation systems. 						

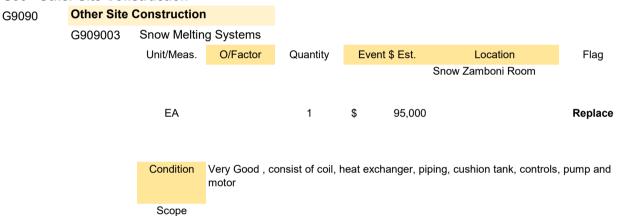


Part G Bldg. SiteWorks

G20 Site Improvements



G90 Other Site Construction





Interior and Exterior Views















See Also: Image Data D32

Interior and Exterior Views















See Also: Image Data D33