Red Deer Multi-Use Aquatic Centre

City of Red Deer

Phase 2: Conceptual Model - Final Report July 7, 2011









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INTRODUCTION

This document represents the Final design of the Phase 2 Conceptual Model for a Multi-Use Aquatic Facility for Red Deer. It follows the previous Phase 1 Comparative Site Analysis that concluded with the selection of Rotary Recreation Park as the location for the facility.

In comparison to a Green Field site, the study demonstrated that Rotary Recreation Park is more successful in achieving the urban and sustainable goals set out in planning agenda created by the City. This location creates parking and transportation synergies not to be found on a green field site and it allows for flexibility and diversity of use due to all the adjacent facilities, activities, businesses and social groups at this established downtown location. Building within the existing infrastructure proved to be a more cost effective approach than the Green Field alternative. The site selection was approved by Council in March 2011.

The design presented here, for the conceptual model of a Multi-Use Aquatic Facility, is the result of a series of considerations, including Functional Requirements, Site Configuration, Sustainability and Architectural Expression. Leading to the final schematic design, various approaches to site and program has been studied and presented to CAAC/CORD as well as to City Council on May 30 2011. Comments from these meetings have been incorporated into the design presented in this report.

FUNCTIONAL REQUIREMENTS

The requirements provided by CAAC/CORD for the new facility: 54m Competitive Pool
Diving Tank and Tower: 1, 3, 5, 7.5 and 10m
Leisure Pools, including the double Flow Rider and Hot Tubs
Spectator Seating for 500-1000
Swim Club Offices, Dry Land Training Area
Wellness Centre
Multi-Purpose Rooms, Concession, Retail, Child Minding
Outdoor Lap and Leisure Pool

These requests were in turn processed by MJMA/MTA, with input from the CAAC/CORD user group, to include support space like change rooms, service and administration areas, scaled to fit the new facility according to Alberta Regulations and experience from equivalent facilities.

The facility is designed to contain a wide range of core aquatic uses, including Competitive Swimming and Diving, Instructional Classes, Fitness and Therapy as well as indoor and outdoor Leisure. Other activities will range from Kayak Instruction, Scuba Diving and Para Swim to Aquafit Classes. Pools and Spectator Seating, along with support areas for athletes and spectators, is dimensioned to accommodate large Regional Swim Meets. The 54m pool will have a moveable floor and bulkheads, allowing its depth and length to be adjusted to fit a number of simultaneous pool activities, like Water Polo + Synchronized Swimming or Beach Entry Leisure + Hydrotherapy, ensuring maximum use and program flexibility. The Flow Rider is another example showing the width of the targeted demographic; not only trained athletes, children and seniors, but also teenagers will have a place in Red Deer Multi-Use Aquatic Facility. Outdoors, generous Lap and Leisure Pools along with landscaped Sunbathing Terraces will be 'the' summer place to be in Red Deer for all sun and swim worshippers.

The program also contains considerable Wellness and Community Centre components.

SITE CONFIGURATION

The driving concept in the development of the site layout has been to maximize the benefit of the selected location by reinforcing the planned Promenade (Red Deer Rotary Recreation Park & South Site Study Report, August 2010) as an organizing element and a spine of activity through the park. This will animate the park, and create an Event Space unique to Red Deer and to the province.

The new building has been given a linear form that interacts with the Promenade along its entire length, weaving the Aquatic Hall, Spectator Gallery and Public Concourse into the Park. Operable glazed walls between the Concourse and the Promenade will open the building up to the park, turning the concession into a sidewalk café all through the spring and summer.

Proposed new park attractions include the Splash Pad, Playground and Picnic Terrace, while existing features like Heritage Square will be revitalized by its new role in the continuous Park Agora. The concept of the 'Agora' is articulated in Red Deer Community Culture Vision & Outline for Action (2008) as a 'connection between spaces and places that will enable culture', which is an excellent way to describe the proposed Promenade. It is designed to be a robust and flexible space, as perfect for established events like the Farmer's Market as for casual Sunday strolls.

Parking will be provided both on north and south ends of the building. Green islands with coniferous and deciduous canopy trees continue the 'park mode' into the parking areas and help 'Green' this important Park site.

INTERIOR LAYOUT

The linearity presented by the Park shape and Promenade is also expressed in the length of the aquatic space, where the existing pool becomes the first in a linear series of pools in one unified Aquatic Hall. This single span clear space, 100m in length and 15m clear height will be a powerful and memorable space, iconically linked as a symbol of Red Deer.

New and existing buildings are seamlessly connected, to each other and to the Promenade, by the Public Concourse. This Concourse also acts as an extension of the Spectator area, with unrestricted views into the Aquatic Hall for the length of the building. Program space like Meeting Rooms, Concession and Child Minding are also located off of the Concourse, strengthening its role as the Main Street of the facility. The reception is located centrally at the Concourse, providing a single point of control where staff is in visual contact with all parts of the public area. Consolidated new Changes Rooms will be stacked below the Public Concourse, which enables a direct walk-out to the new pool deck.

Ongoing comments from CAAC/CORD regarding spatial relationships between program elements have been incorporated into the design.

EXISTING BUILDING

Special Care has been taken to re-use and integrate the existing facility, in good condition after 2005 renovation, to the fullest extent possible. All parts of the building are retained 'as is' with the exception of portions of the ground floor, converting the existing lobby to a large Wellness Studio and bringing the Concourse through to the new addition. The existing Pool, Hot Tub and Saunas will be part of the new Aquatic Hall.

The upper and lower level will be connected to the new facility's circulation, but otherwise left as is, while the ground floor of the existing building will be selectively altered to give way to the new Public Concourse. The lower level will become accessible from the main concourse with light and views opening up existing Activity Rooms to the facility.

ARCHITECTURAL EXPRESSION

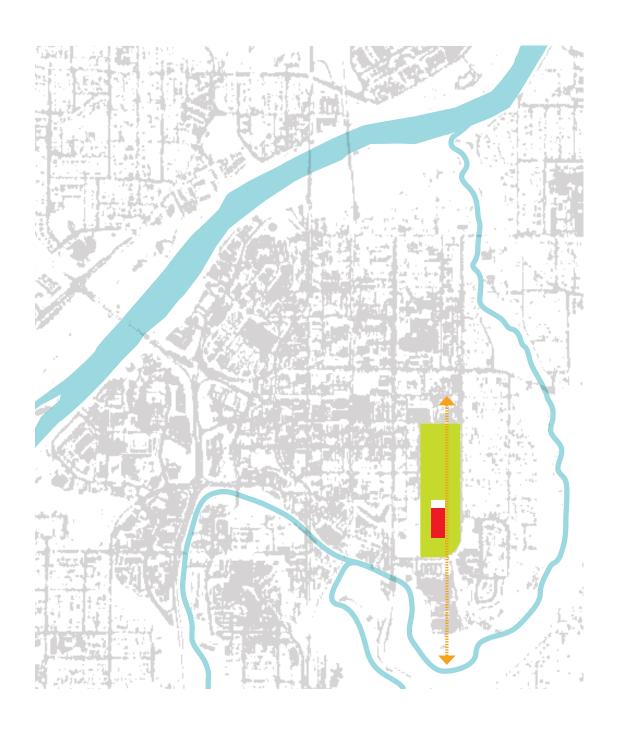
The building has been designed as a Landmark Civic Building in Red Deer, taking cues from contemporary international competition venues and Alberta landmark buildings. As such, the building exterior has been allowed a bold character; the cladding, folding its way around the structure like Origami, culminates in a grand gesture towards the park at the main (south facing) facade. Inspiration has also been drawn from the region's traditional agricultural buildings, leading to the monolithic building shell and simple form. As a nod to the site's Railway History, the rhythmic wood frames running down the Aquatic Hall forms a structure that is both rational and monumental, and also resembles the timber sleepers of the railroad once coming up to the Fairground located at the site.

Generous expanses of glass let the building glow on dark winter evenings, while filling the interiors with natural light in the daytime. This light is a key feature of the Aquatic Hall, conceived as a crystalline space, where the expansive water surfaces and tall ceilings create a striking spatial experience.

SUSTAINABILITY

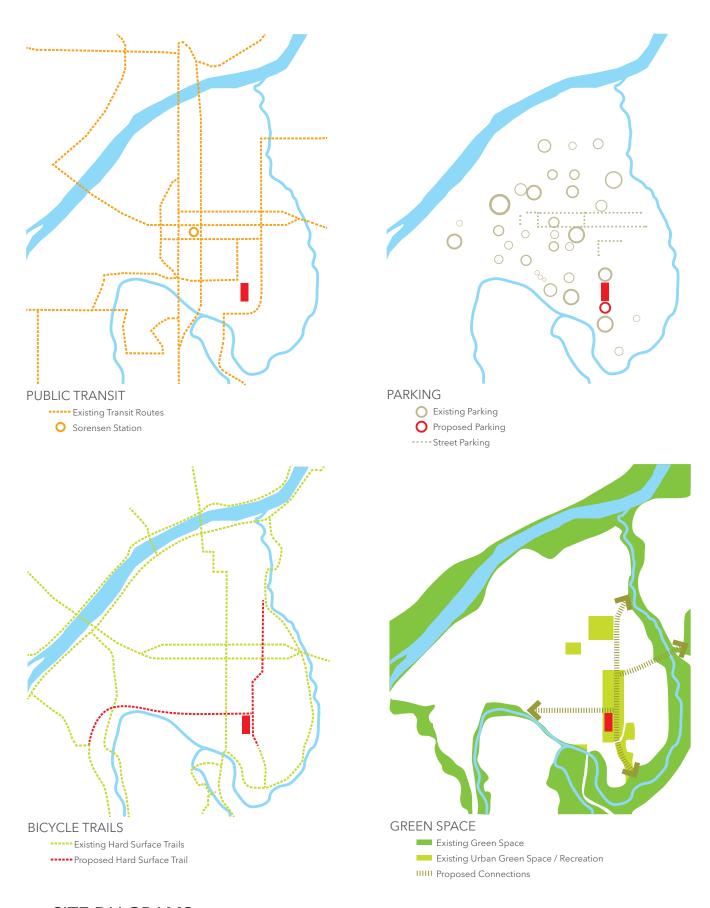
While a range of technological concepts are employed to achieve the equivalent of a LEED gold rating, the design first utilizes all the basic Passive and Common Sense-based principles of sustainable design, such as site orientation to light, prevailing winds, high insulation values and robust maintenance free detailing. This way, sustainable gain are achieved at low or no cost.

Both a site feature and sustainability asset, the site is designed with a system of Rain Water Collectors, leading rain water to a large Naturalized Bio-filter Pond. As well as providing water retention and treatment, the pond will also add wildlife habitat, recreation and gardening opportunities to the south end of the park. The outfall will flow through, following the green connection along the promenade as it continues south towards the Ice Arena, to the Waskasoo Creek, reconnecting with the riverine park system at the heart of the history of the City.

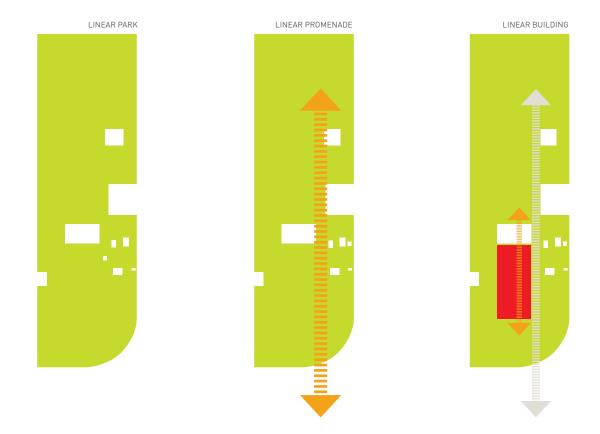


CONTEXT DIAGRAM

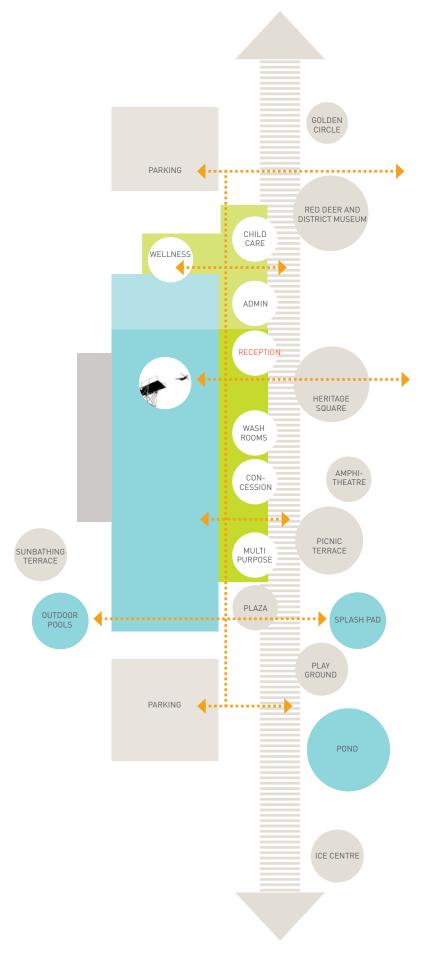
Building Situation in the Downtown of Red Deer



SITE DIAGRAMS

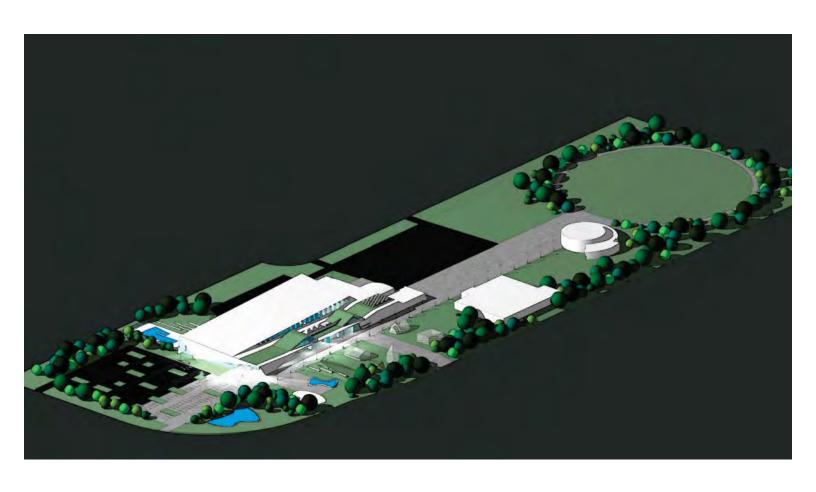


PARK / BUILDING DIAGRAM



PROMENADE DIAGRAM

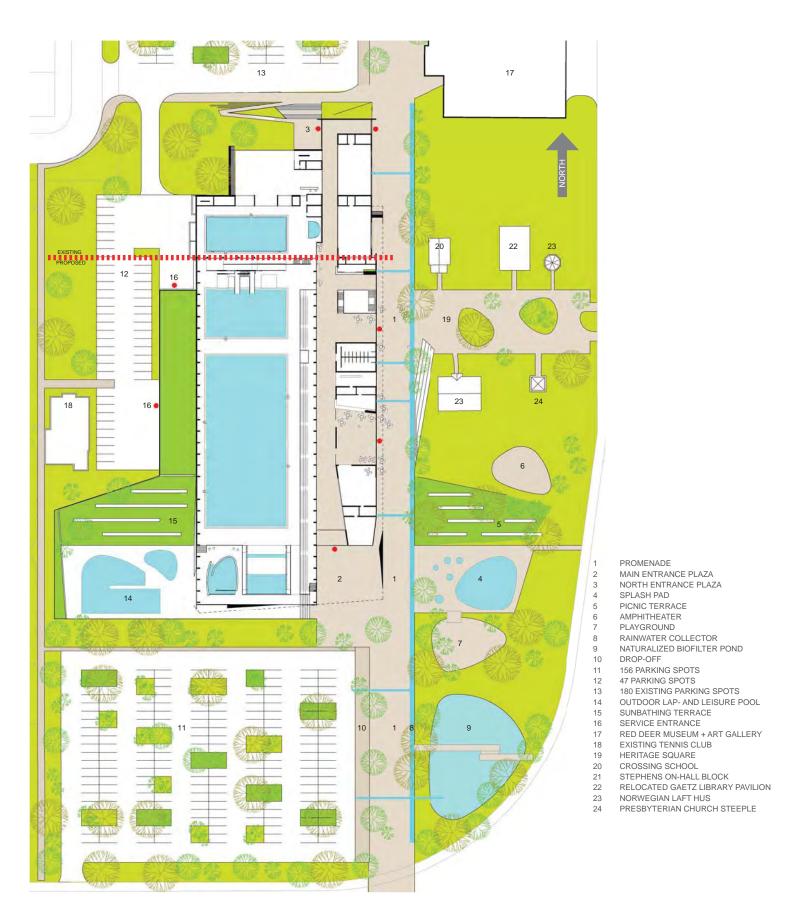
Connectivity of indoor and outdoor Activities to Park Promenade



SITE RENDERING



SITE PLAN



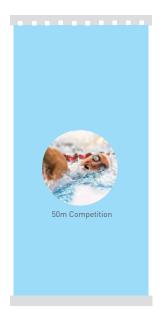
SITE PLAN



PARK USE / FEATURE DIAGRAM

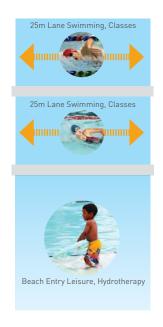


AQUATIC USER GROUPS

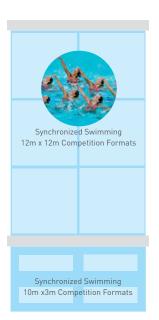




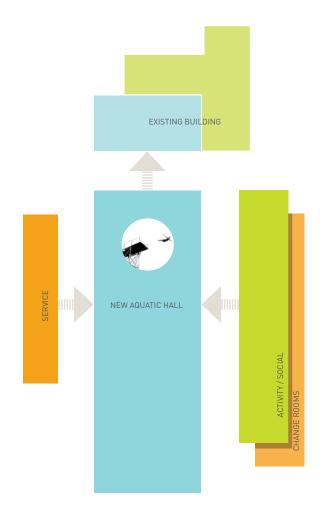






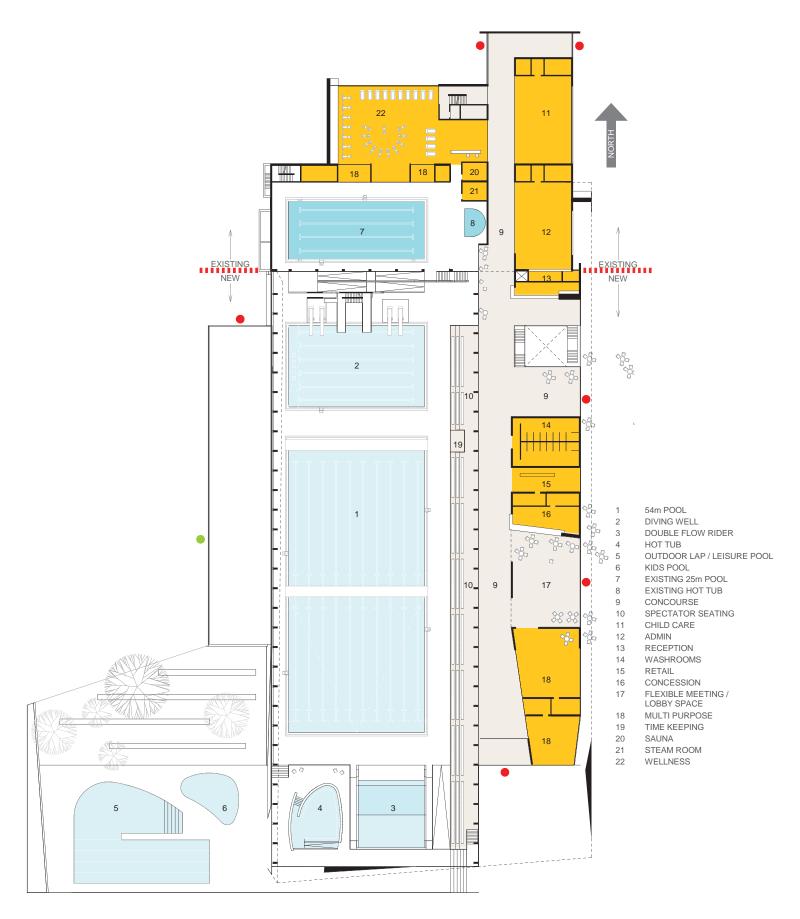


POOL USE FLEXIBILITY DIAGRAM

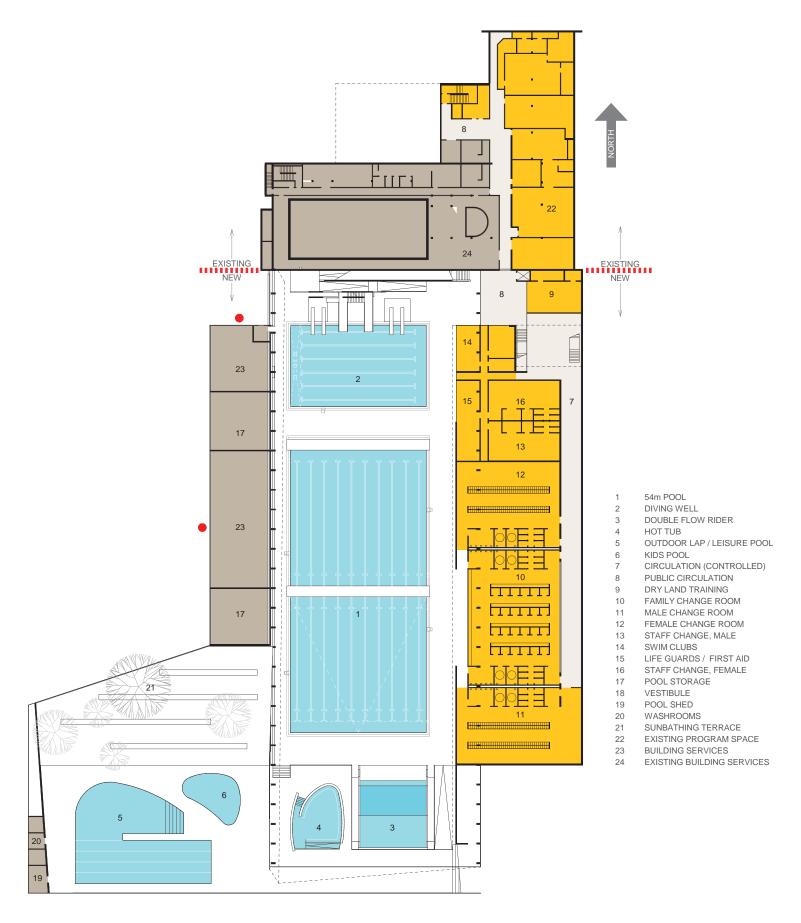


BUILDING DIAGRAM

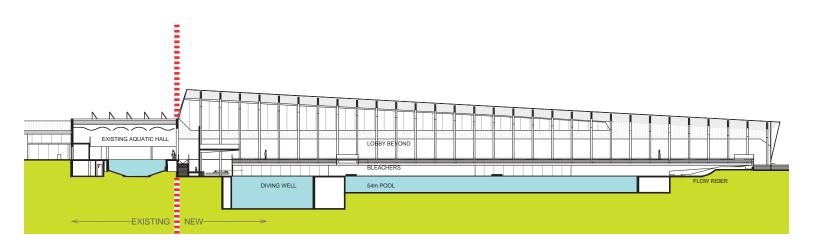
Conceptual Building Program Layout



PLAN, EXISTING DECK LEVEL



PLAN, NEW DECK AND CHANGE LEVEL



BUILDING SECTION















In addition to typical Mechanical, Electrical and LEED Shadow items we will incorporate the following as unique sustainable features :

1 GREEN ROOF

Minimizes heat island effect and reduces storm water run off. Provides open space for occupants.

2 NATURAL VENTILATION

Passive, natural ventilation through operable skylights; use of operable overhead garage-style doors located along the exterior enables fresh air to be drawn through the building

3 NATURAL DAYLIGHTING

Skylights admit diffuse daylight into core of building

SOLAR PHOTOVOLTAIC PANELS

South Facing PVs generate electricity for building use; all generated electricity benefits from 'feed-in-tarrif' going to grid or building, particularly for the large Aquatic Volume.

5 SOLAR WATER HEATING

Solar thermal panels will supplement the building and pool's hot water needs

6 SOLAR WALL

The use of a solar wall to preheat ventilation air can significantly reduce energy consumption on conditioning incoming fresh air

7 RAIN WATER REUSE

Rain water harvested from green roof and planters used for irrigations and flushing toilets/urinals; storm water runoff and potable water consumption reduced

8 REDUCE WATER CONSUMPTION

Dual flush toilets, pint flush urinals and ultra low flow faucets/showers achieve >40% water savings

9 INTELLIGENT CONTROL SYSTEMS

Demand control ventilation for low occupancy rooms adjusts number of air changes based on CO₂ sensors; Occupancy and daylight sensors control levels of artificial lights and reduces energy consumption. Zoned lighting control to maximize daylighting in Aquatic Hall.

10 SHADING DEVICES

Vegetated aluminum grille provides shade in summer to reduce solar gains; daylight and thermal gains maximized during winter

11 HIGH PERFORMANCE BUILDING ENVELOPE

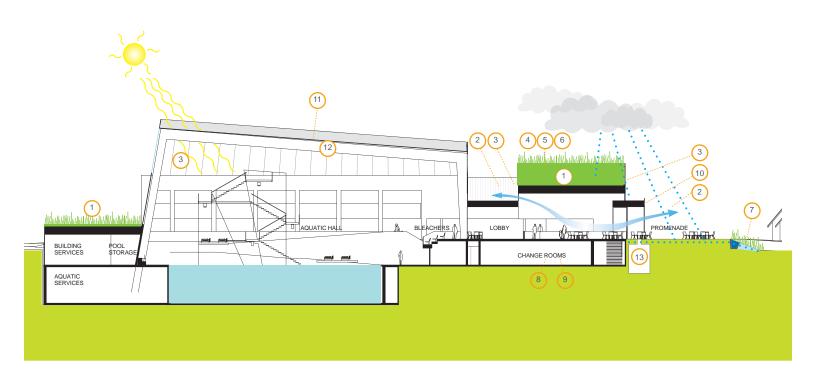
Comprising R20 walls and R20 roof, R12 spandrels and clear high performance glazing with enhanced thermal break

12 REDUCE HEAT ISLAND EFFECT

Use of permeable asphalt and Tree shading at parking and reflective roof area.

13 HEAT RECOVERY

High efficiency Mechanical HRVs and Heat Recovery from Shower water drains.



SUSTAINABLE FEATURES

- 1 GREEN ROOF
- 2 NATURAL VENTILATION
- 3 INDIRECT DAYLIGHTING
- 4 SOLAR PHOTOVOLTAIC PANELS
- 5 SOLAR WATER HEATING
- 6 SOLAR WALL
- 7 RAIN WATER REUSE
- 8 REDUCE WATER CONSUMPTION
- 9 INTELLIGENT CONTROL SYSTEMS
- 10 SHADING DEVICES
- 11 HIGH PERFORMANCE BUILDING ENVELOPE
- 12 ZONED LIGHTING CONTROL
- 13 RAIN WATER CISTERN FOR IRRIGATION

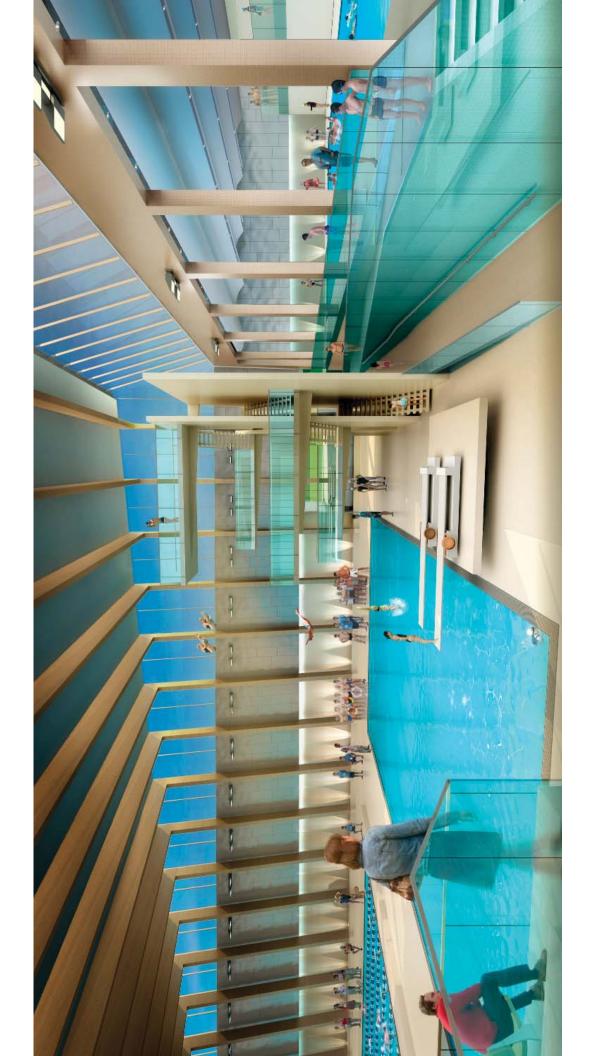
SUSTAINABLE FEATURES



EXTERIOR RENDERING

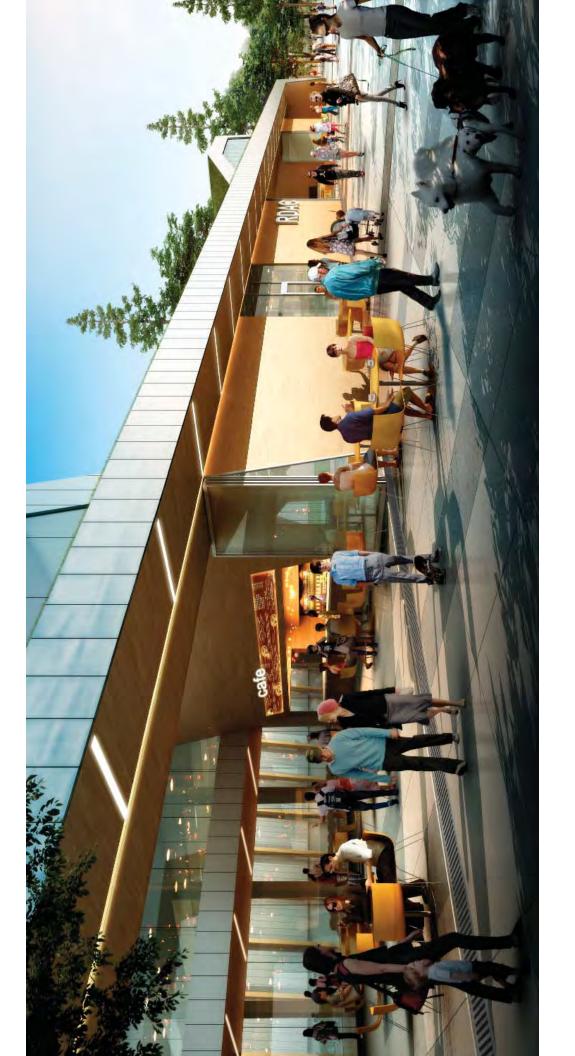
AQUATIC HALL

LOOKING SOUTH



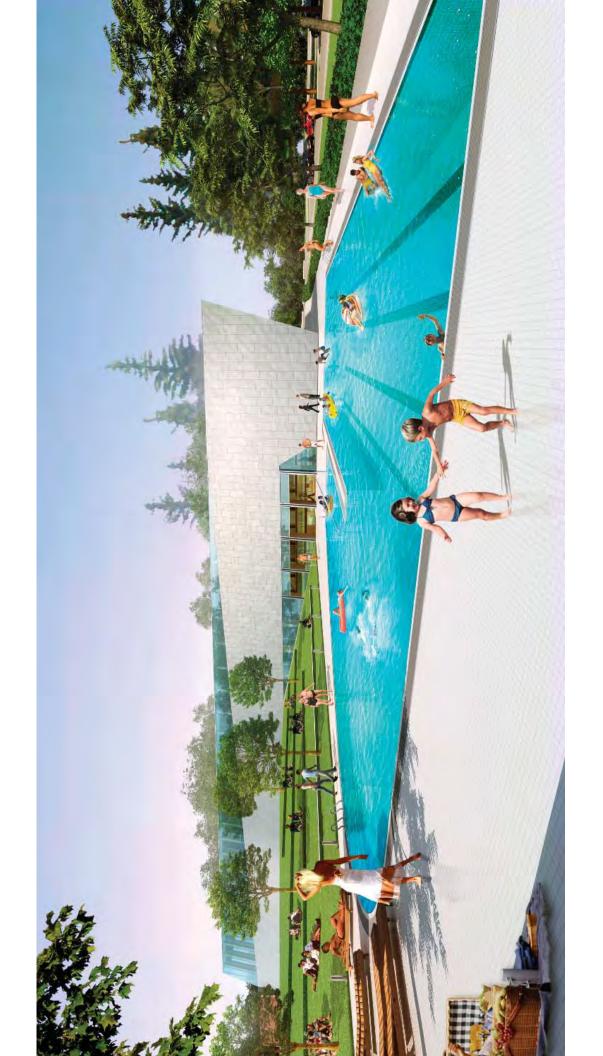
AQUATIC HALL

VIEWS FROM PUBLIC CONCOURSE INTO AQUATIC HALL



PUBLIC CONCOURSE AND PROMENADE

VIEW FROM THE SOUTH EAST



OUTDOOR LAP AND LEISURE POOL

HERITAGE SQUARE

VIEW FROM 47 AVENUE



SPLASH PAD AND MAIN ENTRANCE

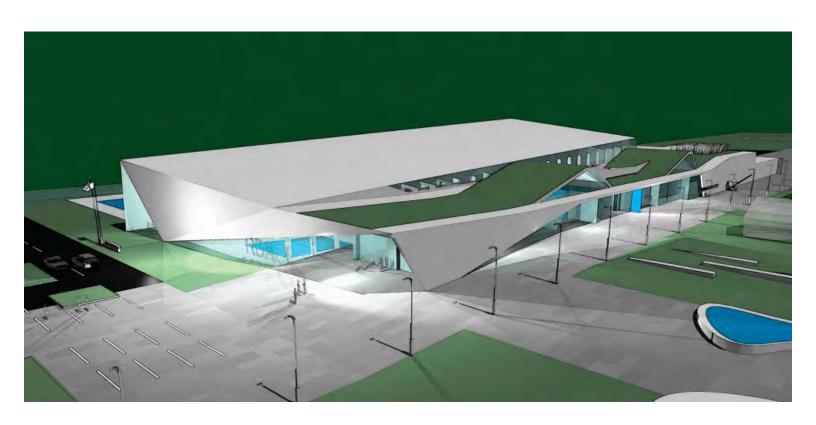
VIEW FROM THE SOUTH EAST

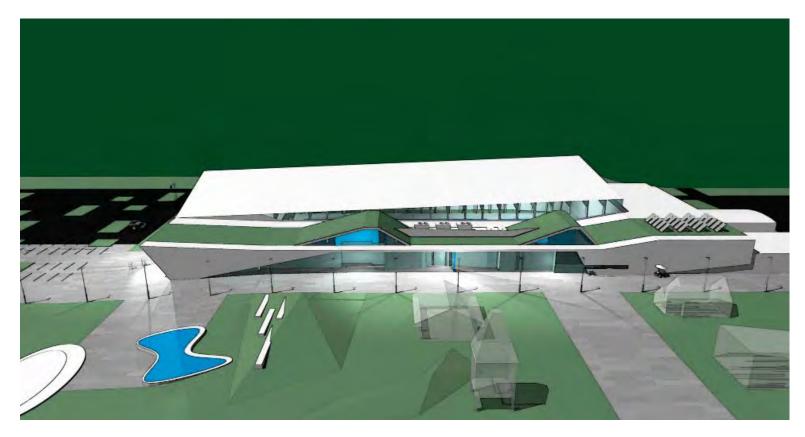


RENDERINGS | 07/07/11 BY CRYSTAL DIGITAL TECHNOLOGY CO LTD

EXISTING BUILDING

NORTH VIEW





EXTERIOR SKETCHES



Lobby looking south past Control

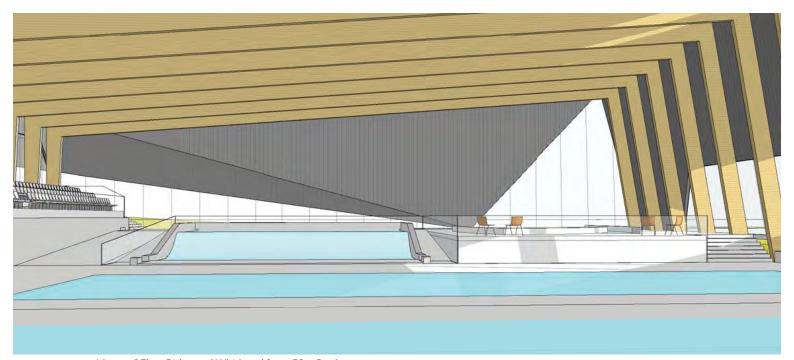


Lobby looking North

INTERIOR SKETCHES

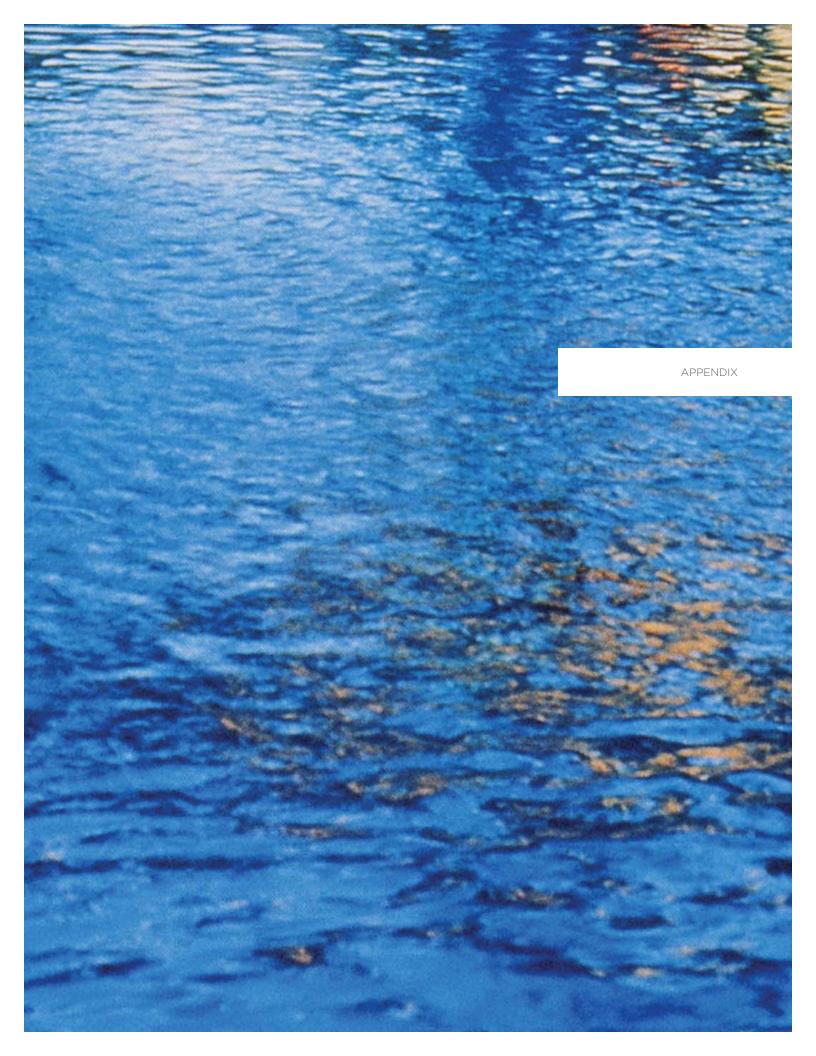


Views of Flow Rider and Whirlpool from Concourse



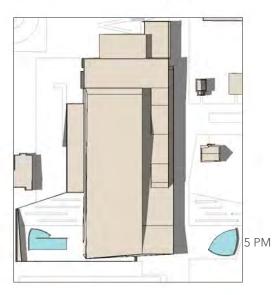
Views of Flow Rider and Whirlpool from 50m Pool

INTERIOR SKETCHES







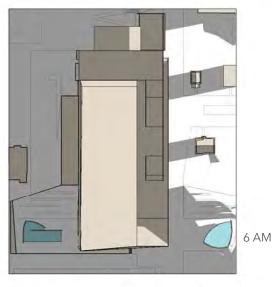




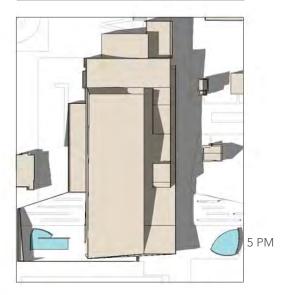




SOLAR STUDIES





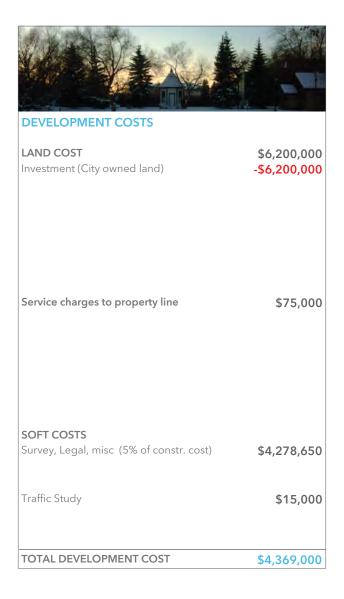








SOLAR STUDIES



DEVELOPMENT COSTS | Order Of Magnitude (Class D) Cost Estimate:

includes land acquisition costs and costs associated with bringing services such as utility lines, roads, etc. to the site. On-site costs such as grading, landscaping and utilities from the property line to the building are excluded here, but included in the Capital Cost.

Land Costs and Service Charges shown are approximate values based on numbers from similar recent projects in Red Deer. These numbers have been supplied by the City of Red Deer. A credit is included for the Rotary Recreation Park Land Cost, since this land is already in the City's possession.

Off-site Levies has not been calculated as the site is located within the exempt area of Bylaw No. 3452/2010.

DEVELOPMENT COSTS



CAPITAL COSTS Order Of
Magnitude (Class D) Cost Estimate
Definition:

This estimate provides an indication of the total cost of the project, based on the user's functional requirements to the degree known at the time. It is based upon historical data for similar work, adjusted for such factors as: effect of inflation, location, risk, quality, size and time. All related factors affecting cost are considered to the extent possible.

Such an estimate is strictly an indication (rough order of magnitude) of the total cost of the project. The expected degree of accuracy of a Class D estimate is +/- 20%

Basis of the Estimate: The estimate is based upon the space program provided by MTA + MJMA.

Pricing shown reflect probable construction costs obtainable in the third quarter of 2011 and are based upon receiving competitive bids under a stipulated lump sum form of contract.

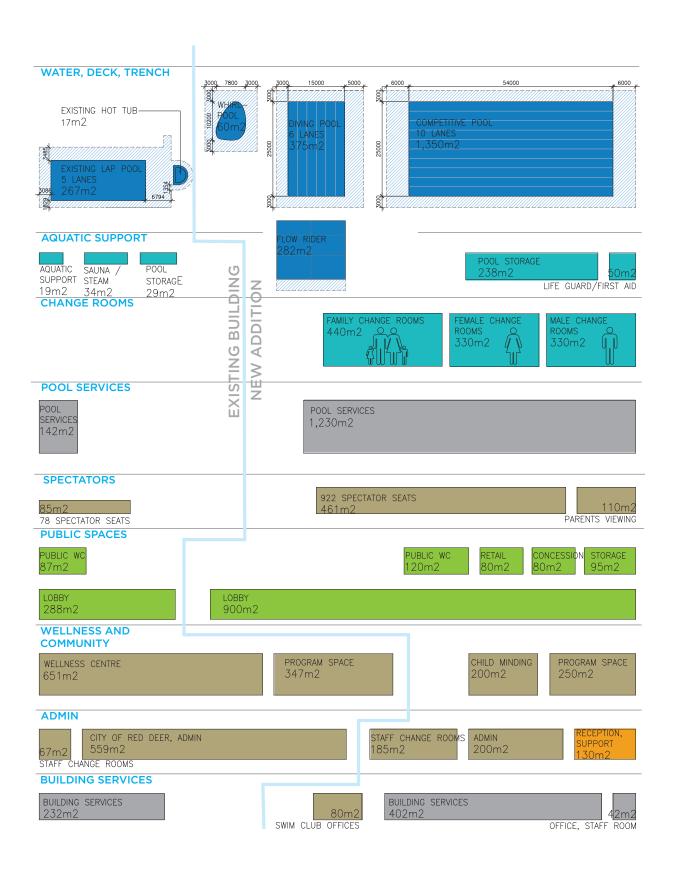
COST \$89,942,000 Excluding GST

SEPARATE COSTS:

Splash Pad, Picnic Terrace, Amphitheatre, \$2,000,000 Playground

Hard & Soft Landscaping, Heritage Square \$200,000

CAPITAL COSTS & TOTAL PROJECT COST



SPACE INVENTORY

Renovated Rotary Facility

Gross Area:	4,000 m2	43,056 sf
Circulation / Building Systems (20%)	621 m2	6,684 sf
Net Area:	3,379 m2	36,371 sf
Water + Deck Area	603 m2	6,491 sf
Support Area	2,813 m2	30,279 sf

New Addition

Gross Area:	12,903 m2	138,881 sf
Circulation / Building Systems (30%)	2,978 m2	32,050 sf
Net Area:	9,925 m2	106,832 sf
Water + Deck Area	2,960 m2	31,861 sf
Support Area	6,965 m2	74,971 sf

AREA SUMMARY

Gross Area	3,962 m2	42,647 sf	Gross / Net: 1.2	ALLEND	X II 4. DOILL	JING PROGRAM 07/07/ II
Leve	,	13,670 sf				
Leve Leve	,		Includes pool tunnel but not lower pool Not including double height spaces			
2010	7101112	1,000 01	Trot mordaling double neight opaces			
Net Area	3,182 m2	34,251 sf				
Aquatic Centre	1,346 m2	14,488 sf				
Water Area	284 m2	3,057 sf				
			Pool	267 m2	2,874 sf	
			Hot Tub	17 m2	183 sf	
Seating	86 m2	926 sf				
<u> </u>			Spectator Seating, permanent	86 m2	926 sf	
Deck	382 m2	4,112 sf				
			Deck Area	319 m2	3,434 sf	
			Sauna	17 m2	183 sf	
			Steam room	17 m2	183 sf	
			Storage	29 m2	312 sf	
Change Facilities	415 m2	4,467 sf				
			Family (Universal)	67 m2	721 sf	
			Female	173 m2	1,862 sf	
A	400		Male	175 m2	1,884 sf	
Aquatic Support	19 m2	205 sf	Deals Ctaff	44 0	440 (
			Deck Staff	11 m2 8 m2	118 sf	
Aquatic Services	160 m2	1,722 sf	Infirmary	0 1112	86 sf	
Aquatic Services	100 1112	1,722 31	022 Filtration, HVAC, Boiler (022)	152 m2	1,636 sf	
			Chemical storage	8 m2	86 sf	
Program Rooms	630 m2	6,781 sf	One mean eterage	· · · · · ·	00 0.	
		-, -	113 Multi-purpose Studio	95 m2	1,023 sf	-
			114 Exercise Room	95 m2	1,023 sf	
			107 Multi-purpose Room	22 m2	237 sf	
			011 Multi-purpose Room	56 m2	603 sf	
			Pottery Room	103 m2	1,109 sf	
			Art Room	75 m2	807 sf	
			Dark Room	13 m2	140 sf	
			016 Multi-purpose Room	100 m2	1,076 sf	
A 1	000		Storage	71 m2	764 sf	
Administration	692 m2	7,449 sf	Second floor Admin area		0.047 (
			Ground floor Offices, Reception	559 m2 66 m2	6,017 sf	
			Staff Change Room and Lounge	67 m2	710 sf 721 sf	
Public Spaces	282 m2	3,035 sf	Otali Orlange Room and Lounge	07 1112	721 31	
		0,000 01	Lobby, Vestibule	195 m2	2,099 sf	•
			Public Washrooms, Ground Floor	44 m2	474 sf	
			Public Washrooms, Basement	43 m2	463 sf	
Building Services	232 m2	2,497 sf				
			Maintenance Room	66 m2	710 sf	-
			Storage (027)	52 m2	560 sf	
			Mechanical (HVAC) (021)	33 m2	355 sf	
			Work Room	26 m2	280 sf	
			Water meter, Electrical, Elevator n	20 m2	215 sf	
			Laundry	12 m2	129 sf	
			Furnace	23 m2	248 sf	
Exterior Program	2,421 m2	26,059 sf	Lon Book	000 -	:	
Not included in Net (or G	oross) Area		Lap Pool	606 m2	6,523 sf	
			Splash Pad	175 m2	1,884 sf	
			Deck Area	1,640 m2	17,653 sf	

EXISTING BUILDING

Gross Area	12,903 m2	138,883 sf	Gross/Net:	1.3		
	2,978 m2	32,050 sf	Walls, partitions, circulation - 30% of ne	et area		
Net Area	9,925 m2	106,833 sf				
Aquatic Centre	7,441 m2	80,094 sf				
Water Area	1,785 m2	19,214 sf				bathing load Ref. Alberta Regulation 247/1985 s20
water Area	1,705 1112	19,214 51				54 x 25m, 10 lanes, combined w/
						Syncronized Swimming and Water Polo. Moveable Bulkheads and Hydraulic Floor at
			54 x 25m Competitive Pool	1,350 m2	14,531 sf	900 one end. (RFP, Site Study)
			25 x15m Diving Pool	375 m2	4,036 sf	25 x 15m, 6 lanes (RFP) Site Study: 25 x 250 18m. Combine w/54m pool?
			Whirlpools	60 m2	646 sf	60 Site Study only - not in RFP
			Flow Rider	226 m2	2,433 sf	226
						4.400
						1,436 persons: BATHING LOAD NEW ADDITION
Seating	461 m2	4,962 sf				
			422 Spectator Seats, permanent	211 m2	2,271 sf	422 seats on upper level (RFP). 1 seat = 0.5m2
			500 Spectator Seats, removable	250 m2	2,691 sf	500 seats (RFP), retactable seating on poo deck. 1 seat = 0.5m2
Pool Deck	1,197 m2	12,884 sf	300 Specialor Seals, removable	250 1112	2,091 51	deux. 1 Seat – 0.5III2
	.,	12,001 0.				John's notes (different from Aquatic Sports
			Deck, Competetive Pool	696 m2	7,492 sf	Council / National Swimming?) John's notes (different from Aquatic Sports
			Deck, Diving Pool	338 m2	3,638 sf	Council / National Diving?)
			Deck, Whirlpools	163 m2	1,755 sf	See sketch
Deck Program	110 m2	1,184 sf	·			
			Parents viewing	110 m2	1,184 sf	Same area as Commonwealth
Pool Storage	238 m2	2,562 sf				
			Combined, pools in new addition	238 m2	2,562 sf	water area x 0.1333 (Commonwealth) See calculation based on Water Area and
Change Facilities	1,100 m2	11,840 sf				AR 247/1985 s20
			Family (Universal)	440 m2	4,736 sf	Note: Group2 Plan Sketch = 80m2
			Female	330 m2	3,552 sf	Note: Group2 Plan Sketch = 280m2
			Male	330 m2	3,552 sf	Note: Group2 Plan Sketch = 280m2
Aquatic Support	262 m2	2,820 sf				
			Life Guards	25 m2	269 sf	Commonwealth: 15m2
			First Aid	25 m2	269 sf	Commonwealth: 20m2
			Swim Clubs	93 m2	1,001 sf	
			Time Keeping	43 m2	463 sf	0 11 00 0
A muselia Camilana	0.0000	0.4.000 (Dry Land Training	76 m2	818 sf	Commonwealth: 20m2
Aquatic Services	2,288 m2	24,628 sf	Pool Filtration	528.9 m2	5 602 04	water area x 0.2963 (Commonwealth)
			Pool HVAC + domestic hot water	1190 m2	5,693 sf 12,809 sf	water area x 0.6666 (Commonwealth)
			Chemical storage	40 m2	431 sf	water area x 0.0000 (Commonwealth)
			Pool trench	1,058 m2	11,388 sf	See Space Inventory
Common	130 m2	1,399 sf		,	,	
Plan Sketch: 100m2 re		1,000 31	Reception	40 m2	431 sf	Same area as Commonwealth
onoton roomz				.0 1112	.01 01	

NEW ADDITION

			Staff Common	30 m2	323 sf	Same area as Commonwealth
			Security	20 m2	215 sf	Same area as Commonwealth
			Control Support	20 m2	215 sf	Same area as Commonwealth
			Storage (Wheelchair, strollers)	20 m2	215 sf	Same area as Commonwealth
A dualiniatuatian	205 2		Storage (Wileelchair, Strollers)	20 1112	210 51	Game area as Commonwealth
Administration	385 m2	4,145 sf	Admin Offices (4 offices)	F0 m2		Equility Director: 2 Support staff
			Admin Offices (4 offices)	50 m2	538 sf	Facility Director; 3 Support staff
			Meeting Room	25 m2	269 sf	15 people boardroom 5 Work stations
			General office	50 m2	538 sf	
			Admin Support	30 m2	323 sf	Reception; NAR Rm; Supply Rm (photocopier; storage; printer); Bar fridge, small sink, water cooler,
			Servery	10 m2	108 sf	cabinetry Pool Manager, Pool Programmer, Head
			Offices	35 m2	377 sf	Lifeguard - view of pool Male to Female - 50:50; laundry space -
Dublic Oucces	4.5050		Staff Change rooms	185 m2	1,992 sf	small flex space (water area x 0.1037)
Public Spaces	1,525 m2	16,415 sf	Lobby	900 m2	0.600 of	
			•		9,688 sf	
			Community Rooms	250 m2	2,691 sf	
			Concessions	80 m2	861 sf	
			Retail	80 m2	861 sf	See coloulation
			Public Washrooms	120 m2	1,292 sf	See calculation Same area as Commonwealth
			Warm Dry Storage	95 m2	1,023 sf	Same area as Commonwealth
Building Services	444 m2	4,779 sf		40.0		0
			Maintenance Mgr Office	12 m2	129 sf	Same area as Commonwealth
			Maint Staff Room	30 m2	323 sf	Same area as Commonwealth
			Maintenance /Custodial	90 m2	969 sf	Same area as Commonwealth
			Mechanical Room	260 m2	2,799 sf	
			Electrical Room	52 m2	560 sf	
Exterior Program	1,050 m2	11,302 sf				Zero depth entry, swim lanes, splash
Not included in Net (o	r Gross) Area		Lap Pool	375 m2	4,036 sf	features (Site Study)
			Splash Pad	175 m2	1,884 sf	Match size of existing fenced Splash Page
			Deck Area	500 m2	5,382 sf	
References:						
Request for Proposals	3		Alberta Regulation 247/85			
(Sept 29 2010)			(Swimming Pool Regulation / Public Health Act)			
Red Deer Rotary Rec South Site Study Rep (August 2010)		7	Alberta Building Code: Section 7.2 Plumbing Facilities Section 3.1.17 Occupant Load			
Facilty Information an Swim Alberta / Synch	•		Design Prototypes MJMA / Aquatic Sport Council On	tario		
Proposed New Reed (Nov 14 2008)	Deer Aquatic Cent	re				
	urpose Recreation	Centre / Sp	pace Requirements Estimates			

NEW ADDITION

MJMA