

Design Option Review for City Hall Fountain Rehabilitation



Can be met through design option


























Partial, or still to be determined










Cannot be met through design option


Requirement	Source of the Requirement	150 mm Deep Wading Pool	400 mm Deep Wading Pool	Dry Deck Spray Deck
2 hour water turnover rate	GOA Pool Standards			
Anti-entrapment requirement	GOA Pool Standards			
Alternative solution to white sides and bottom	ABC			
Alternative solution to permanent 2 meter high fence	ABC			
Barrier free amenity to support all waders, skaters and ice maintenance	ABC			
Provide wading opportunity	C534 - Outdoor Aquatics Policy			
Maintain a free public interactive water feature	C534 - Outdoor Aquatics Policy			

Provide opportunity for skating	WinterCity Guidelines			
Maintain reflecting pool for ceremonial and historical intent	C561 - City Hall Public Space Use Policy			
Eliminate current safety issues with diving and jumping off planters	ABC			
Drain pool at night to reduce risk of drowning	ABC			
Improve maintenance efficiency	Financial Stewardship			
Increase usability in shoulder seasons	C561 - City Hall Public Space Use Policy			
Improve tree health	C564 - Tree Management Policy			
Total		13/14	8/14	12/14

Owner Requirement	Identified Issue to Address	150 mm Deep Wading Pool	400 mm Deep Wading Pool	Dry Deck Spray Deck
To meet GOA Pool Standards turnover and anti-entrapment requirement	COE is required to comply with current standards for turnover and anti-entrapment	Mechanical systems can be replaced or rehabilitated to accommodate.	Mechanical systems can be replaced or rehabilitated to accommodate.	Not required if no water recirculation.
ABC requirement for white bottom and sides	To view patrons who may need assistance and any debris that needs to be removed	Reduced water depth provides for an acceptable variance	Will require a white bottom basin  When drained, the fountain will look like an empty pool basin	Not required as there is no standing water.
ABC requirement for permanent 2 meter high fence	To restrict access to standing water and reduce risk of drowning	Draining water from the wading pool at night provides for an acceptable variance	Fence is required. 24-hour security may be acceptable alternative.  A fence would be a major barrier in the public space. Security represents an ongoing annual cost. The risk of drowning is not eliminated.	No permanent fence required as there is no standing water
Replace deteriorating basin	The basin is crumbling and can no longer be kept safe through maintenance	Basin will be replaced with similar surface pavers as surrounding plaza	Basin will be replaced with concrete that can be painted white	No basin, dry deck surface. Surface can be similar to surrounding surface pavers.
Owner	Identified Issue to	150 mm Deep	400 mm Deep	Dry Deck

Requirement	Address	Wading Pool	Wading Pool	Spray Deck
Barrier Free / Accessible amenity	Barrier free entrance - to support waders, skaters and ice maintenance equipment	Barrier free / zero entry design from north and south. Accessible to wheelchairs, strollers etc.	Ramp and stairs will be built into the design.  Ramp will take significant space. Pool will also require handrails surrounding the basin.	Fully accessible as deck is flush with surrounding surface
Provide wading opportunity	Standing water for water play has historically been available to Edmontonians at City Hall	 Wading will now be in shallow water	Wading similar to current	 No wading, water features only
Maintain function of skating	Winter city skating opportunity historically available at City Hall	Skating will be available with barrier free access	Skating surface may be impacted depending on new design with stairs if a ramp is incorporated	Skating surface similar size to current with barrier free access
Maintain reflecting pool as per original intent	For ceremonial and historical intent to maintain the opportunity for a reflecting pool	Reflecting pool will be maintained	Reflecting pool will be maintained	 No longer able to provide reflecting pool
Reduce safety issues	Current issue with waders diving / jumping off planters	Remove planters	Remove planters	Remove planters
Owner Requirement	Identified Issue to Address	150 mm Deep Wading Pool	400 mm Deep Wading Pool	Dry Deck Spray Deck

Reduce risk of drowning	Liability risk during times when fountain is closed to waders	Design to enable draining the basin nightly to remove water	Possible options: permanent fence, 24 hour security, nightly draining.	No standing water, risk of drowning eliminated
Storage of water in a surge tank	Reduce risk of drowning - drain wading pool and store water for reuse	Pool and fountain water to be held and treated in a surge tank	 Constraints on area limit availability to bury the required surge tank on site. Significant cost and impact to plaza and parkade.	Recirculation of water possible through surge tank
Draining water nightly	Drain to stormwater	Not required to drain to storm water sewer	 Not possible because of sustainable and operational considerations.	Similar to the majority of the City's spray parks
Improved maintenance	Current amenity difficult to maintain - aging, challenge accessing systems, etc. Require extensive vacuuming nightly in summer	Layout of new equipment allows for easy access for cleaning and maintaining.	Layout of new equipment allows for easy access for cleaning and maintaining.  Continue to require nightly vacuuming the pool	Layout of new equipment allows for easy access for cleaning and maintaining. Ease of cleaning every day when water is not turned on.
Owner Requirement	Identified Issue to Address	150 mm Deep Wading Pool	400 mm Deep Wading Pool	Dry Deck Spray Deck

Increase usability in shoulder seasons	Currently is unusable and looks unattractive in the spring and fall. New design should support architectural and programming for space	When drained, the surface will compliment the surrounding area to create an integrated plaza with one step down.	 Cannot be used in the shoulder season. When drained, will look unattractive and dirty.	Fully integrated barrier free plaza to be used when water is not present
Improve Tree Health	The chlorine spray and small soil cells are compromising the health of the tree colonnade.	Moving the trees away from the spray and adding new soil cells in the surface will support long term health of the new elms	Moving the trees away from the spray and adding new soil cells in the surface will support long term health of the new elms	Moving the trees away from the spray and adding new soil cells in the surface will support long term health of the new elms

Other design requirements included: Improving access to electrical outlets, maintaining iconic arching fountains, reduce opportunity for public bathing, provide shaded seating areas, maintain child friendly environment and integrate into surrounding plaza.