



MADRONA BATHHOUSE SEATTLE PARKS AND RECREATION ARCHITECTURAL AND ENGINEERING

MAINTENANCE EVALUATION STUDY

City of Seattle, Washington

September 2017







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A. EXECUTIVE SUMMARY

MADRONA BATH HOUSE EVALUATION

BACKGROUND

GENERAL RECOMMENDATIONS





executive summary



DESCRIPTION OF PROCESS

INNOVA Architects, Inc. was hired by the Seattle Parks and Recreation (SPR) in March of 2017 to perform an architectural and engineering evaluation study, which is summarized in this report. Additional engineering partners for the study include AHBL for Civil and Structural engineering and WSP for Mechanical, Plumbing, and Electrical engineering.

The purpose of this evaluation study is to summarize the current condition of the Madrona Bathhouse and to provide a working tool for identifying and planning necessary upgrades and maintenance improvements. Specifically, this report is intended to help support future improvement projects as part of the Major Project Challenge Fund Initiative for SPR. The purpose of the Major Project Challenge Fund is to provide a funding match to fund a "major project" on (SPR) property. The Major Project Challenge Fund will provide City funding to leverage community-generated funding for renovation of parks and park facilities where other City funding is unavailable.

This evaluation study identifies code compliance and design needs; particularly those related to the Americans with Disabilities Act (ADA). Area of Magnitude Cost Estimates are provided for the recommendations. Our team visited the Madrona Bathhouse on April 7th, 2017 to meet with SPR Staff as well as personnel from the Spectrum Dance Studio, including Sherley Wong, Operations Manager for the studio. We reviewed the history, current operations, and known issues for the building. Our team spent a couple hours touring the building.

The Record Drawings that are available for the Madrona Bathhouse include the 1971 renovation drawings by Arne Bystrom AIA, 1983 renovation drawings by Church-Suzuki as well as the 2000 Roof Replacement and 2010 HVAC Replacement drawings, both by S.M. Stemper Architects. Staff from the Spectrum Dance Studio also provided a hard copy set of the 1999 renovation by JPC Architects The drawings provide a fairly accurate record of what is existing currently.

ASSESSMENT

Based on the initial investigations, we observed that the Bathhouse is in good shape and well used, with an expected level of wear-and-tear. It is evident that the size is a limiting factor for the dance studio, but they have made good use of the building. The original bathhouse functions have evolved to become less of a necessity, which this report evaluates.



background



MADRONA BATHHOUSE BACKGROUND

In 1925, the Seattle Engineering Department initiated substantial improvements to the boulevard in the vicinity of Madrona Park, which improved access to the park but also increased its popularity.

By 1927, it was necessary to replace the temporary wood frame bath house with a permanent brick building, and this architecturally distinctive brick building was constructed in two phases between 1927 and 1928 to serve swimmers at Madrona Park. Initially, only the north and sound ends containing the dressing room and restroom facilities for men and women were constructed. The following year, the central portion was completed, which contained a public lobby and locker room.

This building features Classical Revival stylistic details and was one of the first permanent improvements at Madrona Park. Due to its age, it is potentially eligible for listing as a Seattle Landmark. Over the years, the popularity of the beach at Madrona Park remained constant, however demand for the bathhouse facilities decreased dramatically.

At the same time, SPR was expanding its cultural arts programs and needed larger and better-equipped facilities. As a result, the underused bathhouse was rehabilitated to provide space for Dance programs. In 1971, a large second-story addition was made to the bath house, creating a Dance Studio for children and adults. The newly renovated building housed two large studios as well as a dance library. In 2002 another renovation was performed to the south end of the building, adding men's and women's locker rooms, office spaces and a conference room.

Currently, the bathhouse serves as the home for Spectrum Dance Theater, Seattle's premier jazz dance company, presenting the work of contemporary American choreographers. Since 1985, Spectrum has successfully run the dance education program at Madrona Dance Studio in cooperation with SPR through a long-term lease.



general recommendations



RECOMMENDATIONS

Based on our team's evaluations of the Madrona Bathhouse, we have generated a proposed breakdown of short-term needs and long-term needs as described below. The breakdown of recommendations further identifies those items which fall under the following categories:

- Code and Life Safety Related
- Program Improvement Opportunity
- Operational Cost Savings Potential

SHORT-TERM NEEDS

The short-term needs of the facility include those items which we have categorized as relating to health, safety, and welfare. This includes accessibility requirements in order to comply with the Americans with Disabilities Act (ADA).

Where a recommendation is considered cost prohibitive and able to be considered a "grand-fathered" condition, we have classified some health, safety, and welfare items as long-term recommendations which should be completed as part of a comprehensive, major renovation project.

In general we estimate that the short-term needs of the facility are those that need to be done as soon as possible, or within the next 5 years.

LONG-TERM NEEDS

Long-Term needs include more significant items at the facility that may not have favorable economic pay-back, but rather extend the community benefit and are less tangible. It would include things like significant upgrades to the systems for increased energy efficiency, bringing the building up to more current codes, as well as architectural/interior changes and seismic upgrades to the buildings.



general recommendations



SUMMARY OF RECOMMENDATIONS

We broke down our list of recommendations by discipline. The General Categories with Subtotal Construction Costs* are as follows:

	Short-Term Need	Long-Term Need				
Building Enclosure / Structure	\$218,000	\$42,000				
Buildings Interiors	\$30,000	\$445,000				
Americans with Disabilities Act (ADA)	\$65,000	\$0				
Site / Civil	\$13,000	\$14,000				
Mechanical - HVAC	\$0	\$95,000				
Mechanical - Plumbing	\$20,000	\$257,000				
Electrical	\$73,000	\$131,000				
AREA OF MAGNITUDE COST ESTIMATE SUMMARY						
TOTAL CONSTRUCTION COST	\$419,000	\$984,000				
SP&R COST AND SALES TAX	\$255,590	\$600,240				
TOTAL PROJECT COSTS	\$674,590	\$1,584,240				
GRAND TOTAL ALL COSTS		\$2 258 830				
		φ2,230,030				

* See Section G - Cost Estimate for all markup details.



Madrona Bathhouse Evaluation

Building Maintenance and Improvement Recommendations

	Recommended Task	Short-Term Need	Long-Term Need	Code / ADA / Life-Safety	Program Improvement	Operational Cost Savings	Construction Cost Totals
Buildir	ng Enclosure /Structure						
1	Repair brick mortar joints as needed	Х			X		\$5,000
2	Power wash brick and seal. Remove ivy from exterior walls	х			х		\$54,000
2	and trim back 12" min from wall face	×			×		¢50.000
5	to floor slab	^			^		\$59,000
4	Structural Doof to wall ties at N.S. Chave	×	-		V	×	É4E 000
4	Structural: Roof to wall ties at N & S bays	×			×	×	\$45,000
Э	Power wash cedar roor shakes and apply wood preservative	^			^		\$14,000
6	Beplace windows to match historic style	×				×	\$33,000
7	Repair and Refinish east and west decorative building doors.	X			X	~	\$2,000
,	Replace weather seals	~			<u>^</u>		<i>\$2,000</i>
8	Replace weather seals, repair and refinish all exterior HM	х			×	x	\$5.000
-	doors.						+-,
9	Replace Exterior HM doors		Х		Х		\$42,000
10	Remove deadbolts from all egress doors. Install latch guards	х		х	х		\$1,000
	SUBTOTALS	\$218,000	\$42,000				
				•			
Buildir	ng Interiors	× ×			×		¢2.000
1	Clean and retinish interior stairs	X			X		\$2,000
2	Replace damaged acoustic celling tiles	×	×	×	×		\$1,000
5	Recompare the Reception area with built-in casework		^	^	^		¢20.000
4	Deplace demaged view tile fleer in the Unicey and Men's	×			×		\$20,000
4	restrooms	^			^		\$2,000
E	Poplace the vipul tile floors in the restrooms and losker		×		×		\$2,000
Э	reams with sheet view and integral sove		^		^		\$10,000
6	Clean and apply sealer to changing room and hoat storage	×			×		\$10,000
Ŭ	floors	~			~		\$5.000
7	Re-coat lifeguard room with epoxy floor paint	х			X		\$2,000
8	Replace painted floor in Lifeguard room with an epoxy floor	~	×		X		+=/===
	system						\$15,000
9	Repair carpet seams as needed	Х			Х		\$1,000
10	Install walk-off mats at building entry	х			Х		\$3.000
11	Replace the Lobby, Reception and Corridor carpet		Х		Х		\$8,000
12	Install rubber tread covers at back stairwell		Х		Х		\$2.000
13	Replace missing floor transitions	Maintena	ince Item		Х		
14	Replace hardware at (6) doors not part of the 2002	X			×		\$9.000
	renovation						+-,
15	Replace (6) doors not part of the 2002 renovation		Х		Х		\$21.000
16	Provide a Cypher lock system at ext restroom doors	х			х		\$3,000
17	Re-fasten countertop in Women's restroom and repair	Х			Х		\$2,000
	laminate top						
18	Provide "All Gender" signage at single stall restroom	By owner		х			By owner
		-					
19	Reconfigure existing bathhouse space for studio expansion &		Х		Х		\$369,000
	changing rooms						
	SUBTOTALS	\$30,000	\$445,000				
ADA							
1	Provide accessible path from street right-of-way	See Site/ Civil		x			Included below
-	Drouide two designated ADA as this - sector at least 11	Item #3					Included balan
2	Provide two designated ADA parking spots; at least one that	See Site/ Civil		×			Included below
2	is van autessible	item #2	[×		[620.000
3	Add post-button operators to Main Entry Doors	X		X			\$20,000
4	Add vertical grab bars to accessible tollets	X		X			\$1,000
5		X ¢CE 000	60	X			\$44,000
	SUDIUTALS	טטט,כמל	ŞU	1			
Site / (Civil						
1	Clean out area drains and catch basins and "TV" existing	Х			Х		
	drain lines to determine condition						\$3,000
2	Restripe and paint (2) handicapped parking stalls to meet	Х		X			
	ADA standards. Handicapped parking signs to be installed						
	and/or relocated to front of stalls.						\$5,000
3	Remove and clean moss from walkways	х		Х			\$1,000
4	Demolish and re-level the beach vehicle access to have less		х	Х			
	than a 2.0% cross slope. Replace concrete vehicle access and						
	provide a painted crosswalk						\$8.000
5	Construct curb ramp for ADA stalls and connect to sidewalk		Х	Х			
							\$6.000
6	Clean and seal the cracks in the asphalt path along the west	x			X		÷2,200
Ĩ	face of the building						\$2.000
7	Install downspouts and splashblocks at all roof top scuppers	х			X		\$2,000
	suppers						\$2,000
8	Provide 4" water line for fire sprinkler system	See Plumbing It	em 13	×			Included below
	SUBTOTALS	\$13,000	\$14,000				
	555.5.7.23	213,000	~,000				

Continued on next page



Madrona Bathhouse Evaluation

Building Maintenance and Improvement Recommendations

	Recommended Task	Short-Term Need	Long-Term Need	Code / ADA / Life-Safety	Program Improvement	Operational Cost Savings	Construction Cost Totals
Mech	anical - HVAC	•			-	-	
1	Remove the chairs which block the return air grilles served for Studio II	Maintenance Item				x	Maintenance
2	Clean return air grilles. Many were observed to be partially clogged in office and conference room	Maintenance				х	Maintenance
За	Studios - Replace HVAC-1&2 with (2) Gas-fired Furnaces w/ integral heat pump capability, (2) Zones, each w/ Heating, Cooling and Ventilation*	icem	х			х	\$35,000
3b	Studios - Replace HVAC-1&2 w/ a VRF Heat Pump System with DOAS, Two (2) Zones, Heating and Cooling*		x			x	\$218,000
4a	Offices/ Conference room - Replace RTU-1 with a Gas-fired Rooftop unit w/ Heat Pump, Single Zone, Heating and Cooling*		x			X	\$45,000
4b	Offices/ Conference room - Replace RTU-1 with a VRF Heat Pump System w/ DOAS, Multiple Zones, Heating and Cooling*		х			х	\$36,000
5	Replace HVAC-1&2 and RTU-1 with a single VRF Heat Pump System with DOAS, Multiple Zones, Heating and Cooling, serving the entire building*		x			х	\$521,000
6a	Replace existing exhaust fans by new exhaust fans*		х			х	\$15,000
6b	Connect exhaust of restrooms to DOAS system proposed above*		x			x	\$6,000
7a	Renovation space - Gas-fired Rooftop unit with Heat Pump, Single Zone, Heating and Cooling*	See Building Interiors				х	Included above
7b	Renovation space - Combine space with Mechanical item 3b above*	See HVAC item #3b				х	Included above
8a	Changing rooms - roof mounted exhaust fan to serve both rooms*	See Building Interiors Item 19				х	Included above
8b	Changing rooms - connect to both rooms to DOAS system proposed in item 6b above*	See HVAC	Citem #3b			х	Included above
	*Items 3a, 4a and 6a included in SUBTOTAL (3b, 4b, and 6b ex Building Interiors item #19, Item 5 is excluded from all options	cluded). 7a and	8a included in				
	SUBTOTALS	\$0	\$95.000				1
			1,	1			
1 1	anical - Plumbing	By owner			×		By owner
2	Install seismic shutoff at gas meter	By owner		X			By owner
3	Inspect restroom floor drains	By owner			х		By owner
4	Upgrade Toilets and Urinals to low-flow types Replace drinking fountains as required by Mechanical item	X			X	X	\$6,000 \$8,000
6	#1 Replace faucets in center wing toilet rooms as required by	×			×		\$6,000
7	Mechanical item #1 Replace electric water heater w/ high efficiency gas		×			×	\$3.000
8	Exterior gas piping should be galvanized or painted	By owner	X	X		~	By owner
9	Revise plumbing to support the reconfigured toilet rooms and studio area	See Building Interiors		X	X		Included above
10	Renovation space - reroute (2) 4" rainleaders connected to sewer line serving north wing	See Building Interiors Item 19			×	×	Included above
11	Replace water piping and components as required by Mechanical item #1	х			х		\$30,000
12	Replace water piping and components regardless of Mechanical item #1		х				\$30,000
13	Fire Protection - Provide new fire protection system to sprinkler all occupied areas of the facility.		×	×			\$257,000
	SUBTOTALS	\$20,000	\$257,000			1	
Electr	ical						
1	Replace panels if proposed reconfiguration is performed	See Building Interiors Item 19			x		Included above
2	Install emergency egress lighting from the Studio and Office areas, 1 ft candle min	x		×			\$37,000
3	Provide new fire alarm devices connected to the existing fire alarm control panel system to cover the proposed reconfigured spaces	See Building Interiors Item 19		X			Included above
4	Provide receptacles to match new space layout if proposed reconfiguration is performed	See Building Interiors Item 19		x			Included above
5	Provide new LED lighting fixtures with lighting control system that meets 2015 Seattle energy code requirement if proposed reconfiguration is performed	See Building Interiors Item 19			X	х	Included above
6	Replace exterior building mounted lighting	x		x		x	\$36,000
7	Replace interior lighting throughout building with contemporary luminaires and automated control to provide building energy conservation.		x			x	\$131,000
	SUBTOTALS	\$73,000	\$131,000				
	TOTAL ALL SCOPE ITEMS	\$419.000	\$984.000	1			\$1,403,000



B. ARCHITECTURAL ASSESSMENT

FACILITY DESCRIPTION

BUILDING CODE ASSUMPTIONS

BUILDING ENCLOSURE

BUILDING INTERIORS

BUILDING ACCESSIBILITY (ADA)







FACILITY DESCRIPTION

The Madrona Bathhouse was constructed in 1928, replacing a smaller temporary wood frame bathhouse on the site. To the immediate north of the bathhouse, on the same block, is the Madrona Park and to the south is the Leschi Marina with restaurants and shopping.

There are approximately 114 parking stalls in the lot directly to the south with two accessible spaces. This parking lot services the building and also the adjacent public park.

The main entry to the building faces west and is accessed from the sidewalk in front of the building. Upon entering the building, you are in a lobby space facing Studio I, accompanied by high ceilings with exposed wood framing. This lobby space is actively used during the times of high building turnover between sessions at the dance studio. The Reception desk is to the left of the entry door at the north end of the lobby space.

To the east of the lobby is Studio I, with the Spectrum Dance Studio offices located to the south. Beyond the reception area to the south is a staircase leading up to Studio II, located directly above Studio I. Restrooms are located in the same corridor where the staircase is located. Additionally, there are two Restroom/Changing Rooms accessible from the outside, servicing the adjacent public beach during the summer months.

The building has a brick exterior with decorative horizontal banding for the main level. The central portion of the building that extends above this level is treated with a cedar shingle. Most trim elements and parapets are a cast concrete with decorative designs, a common motif around the building.

While the building currently is not listed as a Seattle Landmark Building, it should be noted that due to its age, the Madrona Bathhouse building is potentially eligible for listing as a Seattle Landmark.





BUILDING CODE ASSUMPTIONS

Seattle Building Code, 2015 edition Occupancy: A-3 - Assembly, B - Business Construction Type: V-B, (Noted as V-N on 2002 construction drawings under the UBC)

The allowable building area for a Type V-B building with mixed occupancy is 3,000 SF per floor with 2-stories. Because most of the building perimeter has a minimum of 20 feet of public way and open space, the increased allowable area for the building is calculated to be about 10,500 SF. The building does not have a Fire Protection Sprinkler system.

Based on the Record Drawings, the total building gross area is 9,768 SF. This is under the allowable area, which still complies with the current International Building Code as amended by the City of Seattle.

A significant focus of our evaluations look at the accessibility for the building and potential upgrade recommendations to provide better access for users. The Madrona Bathhouse was designed and built at a time that the Americans with Disabilities Act (ADA) was yet to be considered during the design process, so it appears that consideration for much of these requirements will need to be addressed at the facility. The ADA code has evolved over the past couple of decades, so current requirements will need to be considered in the evaluation process. Several improvements within the building have been added by Spectrum Dance Studio to accommodate some of their clients, but most of the improvements are not fully ADA compliant.

We analyzed the plumbing fixture requirements since that seems to be an area of significant change in the codes. Based on our calculations of the current building configuration, the building occupancy load is 118. We calculate that 2 Female and 2 Male Water Closets/Urinals are required. The current accommodations provide 2 for each gender. There are additional men's and women's facilities located in the changing rooms accessible from the outside for users of the park, which were not included in this calculation. Additionally, recent code interpretations related to gender use of restrooms has resulted in recommendations for a universal, single stall restroom at community centers that could provide a convenient and comfortable bathroom for those that might want it. Currently, the facility provides (1) all gender restroom adjacent to Studio I.





Since this is an existing facility, and we do not believe that any of the changes or upgrades to the building would approach a value deeming it compulsory to upgrade the entire building to current codes. As part of our team's analysis, we prioritized our code deficiency comments and recommendations to those that relate to ADA and those that we believe are critically important to life safety at a facility like this.

The following review is based on a visual site inspection performed on April 7th, 2017.

No testing was performed to determine if hazardous materials are present. Having been constructed in 1928, we should assume the possibility of lead based paint and asbestos containing materials located within the Center. Further testing is recommended before any construction related activities take place.

On the morning of our site visit the weather was slightly overcast, which had turned to wind and rain by the time we finished.

BUILDING ENCLOSURE

Exterior Walls – The main level of the building is brick masonry with a soldier course along the top and decorative coursing approximately 3'-0" down from the parapet and exposed foundation all the way around the building. The height of the exposed concrete foundation wall varies around the building, from ground level at the northwest corner to +/- 48" at the southeast corner. Signs of settlement were evident at the doors to the changing rooms on the east side of the building, with repaired mortar joints noted at these locations. Per the 1983 renovation drawings, the north wall at the changing rooms was replaced with a 6" concrete wall. This wall remained exposed concrete with no brick veneer. Both moss and mildew are present on all exterior walls, high and low. Ivy was observed starting to move up the concrete wall on the north end of the building and attached to the brick and climbing at several locations.

Recommended Action: Monitor settlement at doors and repair mortar joints as needed.

Recommended Action: Power wash brick to remove moss and mildew, being careful not to damage existing mortar joints and apply a quality masonry sealer, such as Prosoco Sure Klean Weather Seal, or similar that will not alter the appearance and allow the masonry to "breathe." Remove ivy from exterior walls and trim back 12" min from building exterior. Ivy can be particularly destructive to brick, damaging mortar joints as it attaches to the wall.





Structure: Per the 1983 renovation drawings, the exterior walls of the building are comprised of brick veneer to the exterior, clay block and lath & plaster to the inside. The south wing of the building was renovated into office spaces in 2002. The exterior brick veneer and clay block remained, with furring walls constructed of metal studs with batt insulation between and gypsum wall board. The second floor above the central portion of the building is wood framed with exposed studs to the inside. The roof structure at the center of the building consists of glulam beams and wood framing.

Recommended Action: See Structural regarding seismic recommendations.

Roofing: The 2000 roof replacement drawings indicate that existing low-slope roofs were replaced with a built up system, with all new flashings and copings. Cedar shingles were replaced on the north, east and west sides of the building, with only damaged shingles replaced on the south side. Additionally, skylights incorporating passive ventilation louvers and a fall protection system was added to the high roof over the central portion of the building.

Recommended Action: No leaks were reported by staff. Regular maintenance for low-slope roof areas. Cedar shakes at high roof show signs of moss and mildew and should be cleaned and have a wood preservative applied. Consider replacing with a more durable product.

Gutters/ Scuppers: The high roof drains to a built-in perimeter gutter through scupper drain channels mounted to the side of the roof. It was raining on the day of our site visit and we observed water flowing down the channels. The low roof drains through a series of through-wall scuppers located on the east side of the building

Recommended Action: Regular maintenance - inspect the built-in gutter at the high roof, flashings and drains twice yearly (minimum) due to the trees located in close proximity to the building. Consider having the roof inspected every five years by a qualified roofing company

Windows: There are very few windows in the building, and several of them are blocked off on the inside and/or painted over on the outside. They all appear to be single pane, steel frame windows and are most likely original to the building. Any replacement options will need to take into consideration the historic designation of the building.

Recommended Action: Replace all windows, adding thermal panes, matching the current historaic style.





Exterior Doors - Decorative Entry: The main entry door is a pair of divided lite doors with small sidelites and a decorative arched top with glazing above. The door appears to be in good condition and was noted on the 2002 renovation drawings to be "painted to achieve a like new appearance" on the inside. Door seals should be inspected and replaced as required. The entry door on the east side of the building, servicing the lifeguard room, is a metal clad dutch-door that does not appear to be original to the building. Wood infills to either side of the door along with the brick infill above indicate that at one time there may have been glazing, similar to the west entry door

Recommended Action: Repair and Refinish east and west decorative building doors, replace weather seals. .

Exterior Doors – Metal: The remaining exterior doors are hollow metal doors in various conditions. All appear to be in good operating condition, but show signs of abuse and wear. There are two doors on the east side of the building used to access the changing rooms and one door on the same wall used to access the boat storage. All three of these doors are primarily used in the summer months during the time that the beach is open for public use. There are four doors located on the corners of the central core of the building. The northeast door is used for the back stairwell and has no exterior hardware. The southeast door is not regularly used and has a security grille and padlock on the exterior. The northwest door is accessed from a small office space in the front of the building and has panic hardware and a deadbolt installed. the southwest door at the south end of the lobby is labeled as an exit door with panic hardware, but also has a sliding dead bolt in place on the inside. The sliding deadbolt should be removed, as this is not allowed by code for an exit door.

Recommended Action: Short-term recommendations is to repair and repaint all exterior doors. Inspect and replace gasket seals as required. Long-term recommendation is to replace all exterior doors. We suggest using a door and frame suitable for wet areas at the entrances to the changing rooms, such as an FRP product.

Recommended Action: Remove deadbolts from all egress doors. If security from the exterior is a concern, consider installing latch guards to prevent doors from being pried open from the outside.





SUMMARY OF RECOMMENDATIONS - BUILDING ENCLOSURE

- 1. Repair brick mortar joints as needed
- 2. Power wash brick and apply masonry sealer. Remove ivy from exterior walls and trim back 12" min from exterior walls
- 3. Structural Recommendation Lateral reinforcing for second floor, anchor walls to floor slab.
- 4. Structural Recommendation New wall ties at unreinforced masonry walls.
- 5. Power wash cedar roof shakes and apply wood preservative
- 6. Replace all windows, adding thermal panes, matching the current historaic style.
- 7. Repair and Refinish east and west decorative building doors, replace weather seals.
- 8. Replace weather seals and repair and refinish all exterior HM doors
- 9. Replace Exterior HM doors
- 10. Remove deadbolts from all egress doors. Install latch guards

BUILDING INTERIORS

Interior walls - There are various interior wall conditions throughout the building:

Walls - CMU: North changing rooms are painted CMU to 8'-0" with painted lath & plaster over wood studs above the 8'-0" line. All walls appear to be in good condition

Recommended Action: No Action, maintenance as required

Walls - Metal framed: Spectrum Dance Studio offices were part of the 2002 renovation and are constructed of painted 5/8" gypsum wall board over metal stud framing. All walls appear to be in good condition

Recommended Action: No Action, maintenance as required





Walls - Wood framed: Studio I is located on the first floor and has exposed wood framing painted white throughout most of the space. Wall mounted mirrors, approximately 6'-0" in height, are located on the east wall. Permanent Barre are mounted at various locations on the remaining three walls. All walls, even though they are not "finished", appear to be in good condition. Studio II is located on the second floor and has exposed wood framing that has been stained throughout most of the space. Wall mounted mirrors, approximately 6'-0" in height, are located on the south wall. Black cloth has been hung form the east, south and west walls and permanent Barre are mounted at various locations on these walls. All walls, even though they are not "finished", appear to be in good condition

Recommended Action: No Action, maintenance as required

Interior Stairs: Adjacent to the south end of the Lobby is a stair constructed of wood stringers and treads, leading to Studio II. The is also a wooden stair on the north side of Studio I that leads up to Studio II, with access to the mechanical room provided at an intermediate landing. Both stairs appear to be in good condition and require only minor refinishing. The stair on the south side has a concrete pad with brick inlays forming the first few stair treads. This also appears to be in good condition.

Recommended Action: Regular maintenance. Clean and refinish as required.

Ceiling Finishes - Similar to the walls, there are various ceiling conditions noted throughout the building:

Ceiling - Exposed framing: Studio II is all exposed to the roof structure above with a series of large skylights located down the middle of the room, running east to west. Staff noted that the passive ventilation louvers located within the skylight do not always work. The Lobby has stained wood, exposed to the roof structure above, similar to Studio II and appears to be in good condition.

Recommended Action: Maintenance as required. See mechanical and electrical reports for action at louver vents in Studio II.

Ceiling - Lath & Plaster: Ceilings in the north changing rooms have areas of painted lath & plaster and appear to be in good condition

Recommended Action: No Action, maintenance as required

Ceiling - Wood tongue and groove: Ceilings in the north changing rooms have areas of wood T&G and appear to be in good condition

Recommended Action: No Action, maintenance as required





Ceiling - Acoustic Ceiling Tile (ACT): Spectrum Dance Studio offices, Studio I. The common areas and offices of Spectrum Dance Studio were part of the 2002 renovation and all ceilings appear to be in good condition. Studio I has a series of exposed beams with acoustic ceiling tile in between. The ceiling appears to be in generally good condition, although several of the ceiling tiles were noted to be broken.

Recommended Action: Replace damaged acoustic ceiling tiles as needed

Ceiling - GWB: Spectrum Dance Studio offices. Wet areas (men's and women's restrooms, men's and women's changing rooms, staff shower room) have painted GWB ceilings. All were part of the 2002 renovation and appear to be in good condition

Recommended Action: No Action, maintenance as required

Reception / Office - The existing reception area consists of a movable desk, located north of the main building entry. There are no ADA provisions at the reception area. The reception area office is located through a door behind the reception desk and shares much of it's space with electrical panels and storage racks.

Recommendation: Consider reconfiguring the reception area with built-in casework incorporating an ADA compliant surface and added storage space.

Floors – Vinyl Tile: All Gender, Men's and Women's restrooms, Men's and Women's locker rooms. There is also vinyl wall base used throughout and appears to be in good condition. The tile floor appears to be in good shape in the Men's and Women's locker rooms as well as the Women's restroom. The tile floor in the All Gender and Men's restrooms is in poor condition, particularly around the sink and toilet.

Recommended Action: Short-term is to replace the damaged tile floor in the All Gender and Men's restrooms. Long-term consider replacing the tile floors in the restrooms and locker rooms with welded sheet vinyl with an integral cove base.

Floors - Concrete: Lifeguard room, changing rooms, boat storage. The floor in the Lifeguard room appears to have been painted. The floor itself looks to be in good condition, but the paint is worn and faded. The floors in the changing rooms are bare concrete and look to be in good condition. The floor in the boat storage is bare concrete as well and looks to be in good shape given it use. Some minor cracking was noted, but should not be of concern.

Recommended Action: Regular maintenance. Clean and apply a quality concrete sealer to the changing room and boat storage floors. Re-coat the lifeguard room floor with a quality epoxy paint. Long-Term consider an epoxy floor system in all rooms for ease of maintenance.





Floors - Carpet: Lobby, Reception area and Office, Corridor and Spectrum offices. The carpet in the lobby, reception area and corridor is showing signs of wear given it's use. The carpet in the Spectrum office space appears to be in good condition, with only a couple of areas noted that are in need of reseaming

Recommended Action: Short-term recommendation is to repair carpet seams as required and to install walk-off mats at the building entry. Long-term consider replacing the Lobby, Reception and Corridor carpet with carpet tiles with a fixed area of walk-off carpet at the building entry.

Floors - Wood: Back stairwell, Mechanical room. Neither of these areas are high-traffic areas and are out of public view.

Recommended Action: Short-term recommendation is to provide maintenance as required. Long-term consider installing rubber tread material at the back stairwell.

Floors - Rubber: Rubber Impact flooring is installed in Studio I and Studio II and appears to be in good condition. There is a transition piece missing in the doorway separating the Lobby from Studio I

Recommended Action: Regular maintenance. Replace missing transition

Doors: Interior doors throughout are wood with wood frames. there are (6) doors that were not replaced during the 2002 renovation that are chipped and show signs of their age, all others appear to be in good condition. All hardware installed on doors that were replaced during the 2002 renovation appear to be a lever type that does not require gripping to operate. The doors not replaced in the 2002 renovation have round knob type hardware.

Recommended Action: Short-term replace the hardware at the (6) doors not replaced during the 2002 renovation. Long-term replace the (6) interior doors.

Break Area: There is a small employee break area within the Spectrum Dance Studio offices with a small under-counter refrigerator, sink, microwave, base and wall cabinets. This area is only open to employees and looks to be in good condition and serve it's purpose well.

Recommended Action: Maintenance as required.





Restrooms: The existing restrooms do not have enough fixtures to meet current code although they seem to meet the needs of the facility. Additionally, the changing rooms accessed from the exterior contain restroom facilities that primarily serve the adjacent public beach during the summer months. The grounds crew helps to operate these restrooms by keeping them open when the bathhouse is closed for those required usage times. This poses an operational difficulty for the parks department. The countertop in the Women's restroom was noted to have broken free from its mounts on one side, causing the laminate finish to delaminate.

Recommended Action: Provide a Cypher locking system (electronic controls) at the exterior restrooms to help with operational controls.

Recommended Action: Re-fasten countertop and repair or replace laminate.

The City of Seattle and Seattle Parks has been working to adopt policies that are more inclusive for the LGBT community. Seattle's LGBT Commission Recommendations on the Parks Investment Initiative includes suggestions, such as including single stall/universal restrooms.

Recommended Action: Provide "All Gender" signage to existing single stall restroom

SUMMARY OF RECOMMENDATIONS - BUILDING INTERIORS

- 1. Clean and refinish interior stairs
- 2. Replace damaged acoustic ceiling tiles as needed
- 3. Reconfigure the Reception area with built-in casework incorporating an ADA compliant surface and added storage space
- 4. Replace the damaged vinyl tile floor in the All Gender and Men's restrooms in kind
- 5. Replace the vinyl tile floors in the restrooms and locker rooms with welded sheet vinyl with an integral cove base
- 6. Clean and apply concrete sealer to north changing rooms and boat storage floors
- 7. Re-coat lifeguard room with epoxy floor paint
- 8. Replace painted floor in Lifeguard room with an epoxy floor system
- 9. Repair carpet seams as needed
- 10. Install walk-off mats at building entry





- 11. Replace the Lobby, Reception and Corridor carpet with carpet tile with a fixed area of walk-off carpet at the building entry
- 12. Install rubber tread covers at back stairwell
- 13. Replace missing floor transitions
- 14. Replace hardware at (6) doors not part of the 2002 renovation
- 15. Replace (6) doors not part of the 2002 renovation
- 16. Provide a Cypher locking system (electronic controls) at the exterior restroom doors
- 17. Re-fasten countertop in Women's restroom and repair laminate top
- 18. Provide "All Gender" signage to existing single stall restroom

BUILDING ACCESSIBILITY (ADA)

Due to the nature of a community facility, Seattle Parks & Recreation puts an emphasis on accessibility. Some of these items could be "grandfathered" conditions, but ideally for a facility that's goal includes serving everyone in greater community, providing fair access for all is understandably a top priority.

Site Access - See the Civil Assessment.

Recommended Action: Provide an accessible access pathway from the north to the building entry from the street right-of-way with a new sidewalk.

Parking - Currently the Madrona Bath House has two ADA drop-off parking spaces, located in the parking lot to the south of the building.

Recommended Action: Improve accessible route from each of the designated ADA Parking spots to the building entrance. See civil assessment.

Building Entry – The exterior main entry doors facing west and nearest to the accessible parking, appear to be accessible, although the sidewalk is in poor condition with multiple slope angles.

Recommended Action: In the long-term we recommend a push button operator be added at the main entry for facilities of this type for increased accessibility

Building Circulation: The first floor has an accessible entrance on the west side of the building. Studio II is located on the second floor and has no accessible route. Studio I has a concrete ramp added to the south doorway to aid in accessing the ADA restroom on the east side of the building.

Recommended Action: Install a platform lift serving Studio I and Studio II Seattle Parks & Recreation





Restroom Accessibility: The existing single-stall and Women's restrooms do have ADA accommodations. The Exterior changing rooms have restroom accommodations that appear to be ADA compliant.

Recommended Action: Add vertical grab bars to accessible toilets and covers to undercounter plumbing

SUMMARY OF RECOMMENDATIONS - ADA

- 1. Provide an accessible access pathway to the building entry from the street right-of-way.
- 2. Provide two designated ADA parking spots; at least one that is van accessible
- 3. Add push-button operators to the Main Entry Doors
- 4. Add vertical grab bars to accessible toilets
- 5. Install a Platform Lift serving Studio I and Studio II

PROPOSED IMPROVEMENTS

A portion of this study was to also asses the Changing Rooms on the north end of the building to see if there was an opportunity to better utilize the space. Spectrum Dance Theater is at capacity and often is forced to turn customers away for lack of space to run certain classes. Parks staff noted that the Changing Rooms are under utilized during the time of year that they are open. Our team reviewed the space on-site and also through various as-built documentation and feel that the plan referenced in Section F will meet the needs of both Spectrum Dance Studio and Seattle Parks.

- 1,000 square feet of studio space (47'-0" x 20'-0")
- 280 square foot Women's changing room
- 190 square foot Men's changing room
- 190 square foot Boat Storage remains unchanged

The existing bathhouse changing/ restrooms are very large and exceed the space needs for most modern bathhouses. Most patrons come to these beaches already wearing their swimsuits or recreational clothing, causing much of the space designated to be underutilized. The proposed plan still allows for functional use with showers and changing areas, but in a more efficient plan.

Prior to the approval of this concept, we recommend SPR conduct bathhouse user surveys and counts to verify actual use and program needs





C. CIVIL ASSESSMENT

SITE / CIVIL







EXISTING CONDITIONS

PARKING LOT:

• There is one main parking lot area associated with the site, located to the south of the building and accessed from Lake Washington Blvd. Pavement is in good condition with very little spalling and some cracking, but no visual evidence of subgrade failure. Parking stalls average 9' in width. There are two handicap stalls, (1) Handicapped Parking Stall and (1) Van Accessible Handicapped Parking Stall (8.0' minimum width with 4.67' aisle between). Stall striping is in good condition and clear, however the Handicapped parking stall markings are in poor condition and no longer visible

PEDESTRIAN ACCESS:

- The main pedestrian entrance to the building is located on the west side of the building. Other pedestrian access points are located adjacent to the main entry on the west side of the building, and on the east side of the structure. During the summer when a lifeguard is on duty beach goers use the restroom facilities adjacent to the main structure through doors on the east side.
- The main entry is in good condition and appears to meet ADA access requirements. Access from the parking area to the main entry is not compliant with ADA standards. There is no curb ramp from the handicapped parking stall to the sidewalk. The sidewalk from the parking lot crosses a vehicle access route to the beach that has a cross slope greater than 2.0% and is not adequately aligned and striped. The vehicle access route has heavy longitudinal cracking, and also depresses in the pedestrian access route that are walking hazards. The curb ramp adjacent to the vehicle access appears to be in fair condition with some aesthetic cracking but is missing truncated domes. The ADA pedestrian path from the curb ramp to the main entry appears to be in good condition with little spalling and minor cracking.
- A concrete sidewalk and paver path surrounds the facility and provides pedestrian access to the beach located to the east. The majority of the concrete walk is in fair condition, however, in some areas there is heavy longitudinal cracking and depressions that are a walking hazard. The paver paths appear to be in good condition. The surrounding walkways do not meet ADA standards due to stairs and walkway slopes being greater than 5.0%.





SITE GRADING/DRAINAGE:

- The west edge of the site is steeply sloped from Lake Washington Blvd toward the building to the east and is retained by a 2 foot stone wall. The remainder of the site gently slopes to the east. While meeting with the building coordinate site maintenance staff, there aren't any on-going drainage problems.
- Stormwater runoff from the landscape and hardscape west of the building is collected in area drains and discharged into Lake Washington. The remainder of the site sheet flows stormwater to the east into Lake Washington.
- Stormwater from the roof of the facility is discharged via scuppers to the landscape. No downspouts are provided.

SANITARY SEWER:

- According to the City of Seattle side sewer information, the building has two sewer discharge points. Both locations discharge to the north west to a sewer manhole located at the north west corner of the site. From the manhole the sewer connections into the 21" clay mainline under Lake Washington Blvd.
- Talking with the facility manager there have not been any backup issues reported.

DOMESTIC WATER & FIRE SERVICE:

- There is no record of the size and/or material of the domestic service or the fire service. A request for this information has been put in with Seattle Public Utilities.
- The nearest hydrant is located on the west side of Lake Washington Blvd across the street from the structure.
- No fire department connection or post indicator valves were observed onsite for the facility.



RECOMMENDATIONS

MAINTENANCE:

- 1. Clean out area drains and catch basins and TV existing drain lines to determine condition.
- 2. Restripe and paint the two handicapped parking stalls to meet ADA standards. Handicapped parking signs to be installed and/or relocated to in front of stalls.



3. Remove and clean moss from walkways.





CODE AND LIFE SAFETY:

4. Demolish and relevel the beach vehicle access to have less than a 2.0% cross slope. Replace concrete vehicle access and provide a painted crosswalk.



5. Construct curb ramp for ADA stalls and connect to sidewalk.







6. Clean and crack-seal the cracks in the asphalt path along the west face of the building.

7. Install downspouts and splashblocks at all roof top scuppers.





D. STRUCTURAL ASSESSMENT

BUILDING ASSESSMENT / DESIGN CRITERIA

EARTHQUAKE / WIND LATERAL FORCES





building assessment / design criteria



BUILDING DESCRIPTION

This section summarizes the existing structural conditions at the Madrona Bath House-Spectrum Dance and minimum recommended improvements to improve life safety code requirements for lateral loading and ensure proper functioning of the facility.

BUILDING ASSESSMENT/DESIGN CRITERIA

Codes: International Building Code, 2015 edition (IBC) International Existing Building Code, 2015 edition (IEBC) ASCE/SEI 7-10 Minimum Design Loads for Buildings and Other Structures

- Building Risk Category II
- Seismic Design Category D
- Wind: 110 MPH (ultimate); Exposure C; Wind Speed-up, Kzt = 1.00

BUILDING DESCRIPTION

As can be seen in the aerial plan view above, the Madrona Bath House-Spectrum Dance facility consists of three separate building volumes. The north portion is a one-story structure which houses the changing rooms and showers for beach use, the center portion is a two-story structure housing Spectrum Dance, and the south portion is a one-story building that includes offices and dressing rooms.



building assessment / design criteria



ORIGINAL STRUCTURE:

Original drawings for the Madrona Bath House were not available for this study, but the building appears to have been built sometime during the first half of the 20TH century, approximately 1910 to 1930. The original building was a one-story building throughout. Foundations were shallow concrete spread footings and floor was a standard concrete slab on grade. The wood framed roof structure was supported on timber columns on the interior and unreinforced masonry walls at the exterior and interior between the three sections of the building.

1971 ADDITIONS:

In 1971 the center portion of the building was completely remodeled and converted into a dance studio. The original roof and floor were removed to install new foundations for a new second floor and higher roof. The only portions of the original structure that remain are the unreinforced masonry (URM) walls around the perimeter and the URM wall between the dance studio and the life guard station on the east side of the space.

According to the As-Built drawings for the 1971 additions, the footings are shallow concrete spread footings designed for an allowable soil bearing pressure of 3,500 pounds per square foot. The ground floor is a conventional slab on grade reinforced with welded wire mesh. The second floor and roof structure is supported on interior 6x6 timber columns and the perimeter URM walls. The timber columns are located approximately 7'-1" on center in the east-west direction, and 6'-3" from the interior faces of the north and south URM walls. Therefore, the loads on the URM walls from the new second floor and roof are minimized.

The second floor consists primarily of 2x8 floor joists at 16" on center spanning approximately 6 feet over double 5.25×26 glulam beams. The glulam beams are attached to either side of the 6x6 timber columns with three 7/8" diameter bolts with 4" diameter split ring shear connectors. The second floor is sheathed with 5/8" plywood.

The Dance Studio roof is framed flat over the second floor area enclosed by the new 6x6 timber columns, and then slopes down sharply to the perimeter URM walls, giving the appearance of a mansard. The flat portion of roof is approximately 17 feet above the top of the original URM walls. The flat roof is framed with 2x6 joists at 16" on center spanning over 5.25 x 22.75 glulam beams at 7'-1" on center. The glulam roof beams are supported on the new 6x6 timber columns. The perimeter mansard roof is also framed with 2x6 rafters at 16" on center. The entire roof is sheathed with $\frac{1}{2}$ " plywood.



structural recommendations



1983 MADRONA BATHHOUSE REMODEL:

In 1983 the north portion of the building was structurally modified. The entire roof structure, except for the existing 10x14 roof beams and 10x10 timber support columns, was removed and replaced. The exterior URM walls remain, except for the north exterior wall. This wall was removed and replaced with a 6" reinforced concrete wall which retains approximately three feet of soil.

The roof over the north portion is approximately 38 feet wide in the east-west direction. There are two rows of existing 10x10 timber columns along the centerline in the north-south direction. These are centered 6'-10" apart in the east-west direction and located approximately 16'-8" on center in the north-south direction. The existing 10x14 roof beams run in the north-south direction and are supported on top of the existing 10x10 columns. The 1983 roof structure is framed as follows:

- Roof deck consists of 1/2" plywood sheathing over 2x6 T&G wood decking spanning roughly 4'-6" over double 2x6 rafters.
- The double 2x6 rafters are located at 4'-7 1/2" and 4'-6" on center are spaced 5.5" apart. The double 2x6 rafters are supported on the east and west exterior URM walls, and on the existing 10x14 roof beams either side of the centerline of the building. They do not continue across the center of the building, but stop 5.5" past the timber beams. 6x6 posts are bolted between each pair of rafters and extend up approximately 3'-6" to support a monitor roof along the centerline of the building.
- The monitor roof is supported similar to the lower roof with the double 2x6 rafters bolted either side of the 6x6 posts.

This framing system is illustrated in the section above, looking north.


structural recommendations



EARTHQUAKE / WIND LATERAL FORCE RESISTING SYSTEM

Lateral wind and seismic forces are distributed through the roof and floor diaphragms to the exterior and interior shearwalls and into the foundation. The floor and roof diaphragms are wood framed as described above. The available shearwalls are limited to the URM perimeter shearwalls around each portion, except for the north exterior wall. This wall is a 6" reinforced concrete wall that was built in the 1983 remodel.

Of primary concern is the fact that the only attachment for the high roof, that was added over the center portion in 1971, to the perimeter URM walls to transfer lateral forces are the sloped mansard roofs around the perimeter. The new second floor diaphragm, also, is marginally attached to the URM walls that resist loads in the east-west direction, since much of the floor on these sides is open for the stairs.

Of lesser concern is the fact that the exterior URM walls are not adequately tied into the floor and roof diaphragms to resist out-of-plane seismic forces, as described below under Recommendations.

RECOMMENDATIONS

The Madrona Bath House facility appears to be generally in good structural condition. Although the brick exterior was thoroughly cleaned in 1983, and the roofing was replaced in 2001, it is due for some maintenance and cleaning. There are several signs of dirt and moss growth on the brick exterior and on the cedar shake roofing on the mansard around the center portion. There is also a large evergreen tree located very close at the northeast corner of the building. We recommend removal of this tree and the moss and debris should be thoroughly cleaned from the exterior of the building. Cedar shingles on the mansards may require patching or replacement if the moss is too deep.

Seismic upgrade recommendations are as follows:

• The second floor and roof of the 1971 remodel are not adequately tied into the perimeter URM walls to resist lateral earthquake forces. The weakest direction is in the east-west direction. There are relatively continuous wood stud walls around both the first and second floor studios that are sheathed with 3/4" plywood, but these walls were not nailed nor detailed as shearwalls. We recommend the sheathing on these walls be re-nailed with 10d common nails and properly attached to the roof and floor diaphragms to resist lateral wind and seismic forces. The wall sill plates shall also be properly anchored to the floor slab on grade with 1/2" diameter expansion anchors no more than 48" on center. These walls are shown in plan on the following page.



structural concept drawing



• Currently, the exterior URM walls are tied to the floor and roof framing with shallow embedded expansion anchors. These anchors are not rated for tension loads in Unreinforced Masonry (URM). We recommend new wall ties utilizing either 15 degree bent threaded rods embedded in the URM walls with screen tube and anchoring adhesive, or through-wall anchor rods with exterior rosettes, washers and nuts. These anchors would be located at 48" on center. Additional blocking may be required to tie these anchors into the floor and roof diaphagms.

The maintenance recommendations are an ongoing condition that should be implemented and maintained. The Seismic Upgrade Recommendations are equally as important should we experience the design earthquake specified by current code requirements. Although we consider the seismic recommendations a high priority for this building, according to the International Existing Building Code, 2015 edition (IEBC) these upgrades are optional since there will be no change in occupancy and no structural modifications or additions will be made to the building.



D|5

E. MEP SYSTEMS ASSESSMENT

HEATING VENTILATION AND AIR CONDITIONING

PLUMBING SYSTEMS

ELECTRICAL SYSTEM





EXISTING HVAC SYSTEM

All occupied spaces are provided heating and ventilation by two (2) gas-fired forced air furnaces and one (1) rooftop unit. One furnace (HVAC-1) serves the studio on the first floor. It provides ventilation and heating only and appears to be 25 years old. Another furnace (HVAC-2) serves the studio the on second floor. This unit provides ventilation and heating as well as cooling, which appears to have been added as part of an upgrade in c. 2000. A refrigerant evaporator (DX) cooling coil and a condenser unit appear to have been part of this upgrade. The offices and conference room are served by a separate dedicated rooftop unit (RTU-1) that provides heating/cooling and ventilation.

Furnace HVAC-1 includes a supply fan, gas-fired heating coil, MERV-8 filter bank and a mixing box including motorized mixing dampers that mixes return air with outdoor air for ventilation. Furnace HVAC-2 includes a supply fan, gas-fired heating coil, DX cooling coil, MERV-8 filter bank and a mixing box including motorized mixing dampers that mixes return air with outdoor air for ventilation. Rooftop unit RTU-1 includes a supply fan, gas-fired heating coil, filter bank and a mixing box that mixes return air with outdoor air for ventilation.

Two (2) exhaust fans are provided to serve restrooms in order to provide odor control.

Natural gas is available on site and has been used as the heating source.

There is no central DDC control system to serve the building. The thermostat controls for each furnace appear to have been upgraded in c. 2000. In addition to replacing the thermostats, this control upgrade included damper-actuators, and relays to trigger damper positioning. The upgraded control includes the following control features:

- Occupied/unoccupied mode
- Occupied mode: positioner of outside air damper to be set for 30% open.
- Night setback/unoccupied mode: outside air dampers to be fully closed.
- Ventilation only mode (thermostat set to fan "ON"): outside air dampers to be 100% open (economizer).
- Return air dampers and actuators to operate opposite of outside air dampers.

What follows is a room-by-room summary.

STUDIO I – FIRST FLOOR

Served by:

- One gas-fired furnace HVAC-1 (2000 CFM) mounted in the mechanical room with heating output capacity of 82MBH. There is no cooling equipment to serve this studio. Supply air is distributed to the space via concealed duct to sidewall. Return air is routed back to furnace through two (2) sidewall grilles.
- Ventilation is provided via HVAC-1, which is equipped with an air mixing plenum that combines outdoor air with return air.
- Air relief is via four (4) transfer air grilles on the wall to an adjacent entry waiting room.
- One Honeywell programmable thermostat located in Studio I controls furnace HVAC-1.



Notes:

• The space temperature setpoint on the wall thermostat was 70F; the registered space temperature on thermostat was 70F.





STUDIO II - SECOND FLOOR

Served by:

- One gas-fired furnace HVAC-2 (1420 CFM) mounted in the mechanical room with heating output capacity of 114.8 MBH and cooling capacity of 5 Tons. Supply air is distributed to the space via exposed duct to ceiling registers. Return air is routed back to furnace through four (4) floor grilles.
- Ventilation is provided via HVAC-2, which is equipped with an air mixing plenum that combines outdoor air with return air.
- Air relief is via four (4) transfer air grilles on the wall of the adjacent hallway.
- One Honeywell programmable thermostat located in Studio II to control the furnace HVAC-2.
- One 5 Ton Condenser Unit COND-1 located on roof of south wing.

Notes:

- The space temperature setpoint on the wall thermostat was 70F; the registered space temperature on thermostat was 71F, which is within control tolerance.
- There are three (3) skylight backdraft dampers, all set in a fixed open position.
- The floor return grilles were found to be blocked by chairs.









ENTRY WAITING ROOM - FIRST FLOOR

Served by:

- The gas-fired furnace HVAC-1 serving Studio I also serves this space. Supply air is distributed to the space via concealed duct to two (2) ceiling diffusers.
- Electric baseboard was observed and presumed to be used as supplemental heat.

Notes:

• The electric baseboard appears to not be working properly and this space is mainly heated from ceiling diffusers and transfer air from Studio I.



OFFICES AND CONFERENCE ROOM - FIRST FLOOR

Served by:

- One rooftop unit RTU-1 mounted on the lower roof. Supply air is distributed to the space via concealed duct to ceiling diffusers.
- Ventilation is provided via the RTU-1, which is equipped with an air mixing plenum that combines outdoor air with return air.
- One Honeywell programmable thermostat located in the Corridor of the First Floor is used to control the furnace RTU-1.

Notes:

- The space temperature setpoint on the wall thermostat was 70F; the registered space temperature on thermostat was 70F.
- Most of the return grilles are clogged by dust, cleaning of these return grilles is recommended.



MEN'S AND UNISEX RESTROOM - FIRST FLOOR

Served by:

• One exhaust fan EF-1 located in ceiling, discharge exhaust via a roof cap. The exhaust fan is controlled by a wall switch.

WOMEN'S RESTROOM AND LOCKERS ROOM - FIRST FLOOR

Served by:

• One mushroom exhaust fan EF-2 is located on the roof. The exhaust fan is controlled by a wall switch.



ID	Location	Service	Manuf. Model	Airflow	Heating Capacity	Cooling Capacity	Approx. Year of Installation
HVAC-1	Mech. Room	Studio I	Lennox G4M3/4X- 100	1420 CFM	82MBH	N/A	Unknown
HVAC-2	Mech. Room	Studio II	Lennox G24M/5- 140S	2000 CFM	114.8MBH	5 Tons	2000
COND-1	Mech. Room	Roof of South Wing	Lennox HS29-060	3010 CFM	N/A	5 Tons	2000
RTU-1	Lower Roof	Office & Conference	Trane	Unknown	Unknown	Unknown	2002
Exhaust Fan EX-1	Unknown	Ceiling	Unknown	Unknown	N/A	N/A	Unknown
Exhaust Fan EX-2	Unknown	Roof	Unknown	Unknown	N/A	N/A	Unknown

SUMMARY OF EXISTING MECHANICAL EQUIPMENT

HVAC ASSESSMENT AND RECOMMENDATIONS

Most of the mechanical equipment has reached the end of service life and consideration should be given to either replace or upgrade to more energy efficient systems.

LOW-COST/NO-COST SUGGESTIONS

1. Remove the chairs in Studio II on the second floor blocking the return air grilles served for Studio II.

DEFERRED MAINTENANCE (DO NOW)

2. Clean return air grilles. Many were observed to be partially clogged in the office and conference room on the first floor.

CAPITAL PLANNING

3. Studios: consider upgrading the existing mechanical systems. The following options should be considered:

Option 3A: Replace HVAC-1&2 by Two (2) Gas-fired Furnaces with integral heat pump capability, resulting in two (2) Zones, each with Heating, Cooling and Ventilation.

The two (2) new Constant Air Volume (CAV) gas-fired furnaces are similar to the existing HVAC-2 in that they provide cooling, heating and ventilation, but with the advantage of the DX coil also serving as a heat pump that can stage with the gas-fired for high cost savings and energy efficient operation. The space temperature of each studio is individually controlled by a programmable thermostat.

Pros: Simple system with low first cost, low operational complexity.

Cons: Lower energy efficiency that other options.



Option 3B: Replace HVAC-1&2 by a VRF Heat Pump System with DOAS, Two (2) Zones, Heating and Cooling

A Variable Refrigerant Flow (VRF) system is an all-electric system that uses heat pumps to provide heating and cooling to spaces served. It has the ability to modulate the amount of refrigerant sent to each zone in accordance with conditioning requirements. A single heat pump VRF condensing unit is to be installed on south wing roof that connects to two (2) indoor fan coil units. Each studio to be served by one of the fan coil units. A Dedicated Outdoor Air System (DOAS) with integral heat recovery of exhaust is installed on the south wing roof to provide ventilation to each space.

Pros: Higher energy efficiency, higher indoor air quantity with DOAS system.

Cons: Higher cost compared to Option 3A.

- 4. Offices and Conference Room: consider upgrade the existing mechanical systems with one of the following options:
 - Option 4A: Replace RTU-1 by a Gas-fired Rooftop unit with Heat Pump, Single Zone, Heating and Cooling.

A new Constant Air Volume (CAV) gas-fired rooftop unit similar to the existing rooftop unit to provide cooling, heating and ventilation. One single zone thermostat to control the space temperature.

Pros: Simple system with low first cost, simple operational complexity.

Cons: Only single zone temperature control, may impact occupant comfort.

Option 4B: Replace RTU-1 by a VRF Heat Pump System with DOAS, Multiple Zones, Heating and Cooling

A heat pump VRF condensing unit is to be installed on south wing roof and connect to multiple indoor fan coil units. The fan coil units can be wall-mounted, concealed ducted or ceiling cassette depending on space needs. A Dedicated Outdoor Air System (DOAS) installed on south wing roof to provide ventilation to each space.

Pros: Higher energy efficiency, higher indoor air quantity with DOAS system.

Cons: Higher cost compared to Option 4A.



- 5. Studios, Offices and Conference Room: another option is to consider the building to be served by one (1) mechanical system.
 - Option 5: Replace HVAC-1&2 and RTU-1 by a single VRF Heat Pump System with DOAS, Multiple Zones, Heating and Cooling.

A heat pump VRF condensing unit is to be installed on south wing roof and connect to multiple indoor fan coil units to serve studios as well as offices and conference room. The fan coil units can be wall-mounted, concealed ducted or ceiling cassette depending on space needs. A Dedicated Outdoor Air System (DOAS) installed on south wing roof to provide ventilation to each space.

Pros: Higher energy efficiency, higher indoor air quantity with DOAS system, lower cost compared to Option 3B+4B.

Cons: Higher operational complexity.

6. Restrooms exhaust: consider the following upgrade options depending on future configuration of space and the type of mechanical system to serve spaces.

Option 6A: Replace existing exhaust fans by new exhaust fans.

Option 6B: Consider connecting exhaust of restrooms to DOAS system proposed for options above to provide heat recovery from exhaust air when DOAS system is installed.

7. New Studio Space: consider the following mechanical options to service this space.

Option 7A: Add a new Gas-fired Rooftop unit with Heat Pump, Single Zone, Heating and Cooling.

A new Constant Air Volume (CAV) gas-fired rooftop unit t to provide cooling, heating and ventilation, but with the advantage of the DX coil serving also as a heat pump that can stage with the gas-fired for high cost savings and energy efficient operation. The space temperature of the studio is individually controlled by a programmable thermostat.

Pros: Simple system with low first cost, low operational complexity, and system is separated from rest of building.

Cons: Lower energy efficiency.

Option 7B: Combined with Option 3B by a VRF Heat Pump System with DOAS, Three (3) Zones, Heating and Cooling.

Pros: Higher energy efficiency, higher indoor air quantity with DOAS system.

Cons: Higher cost compared to Option 7A, this option should be not considered if this space needs to be done as a separate project.



8. New Restrooms exhaust: consider the following mechanical options to service spaces.

Option 8A: add a new roof mounted exhaust fan to serve both restrooms.

Option 8B: Consider connecting exhaust of restrooms to DOAS system proposed for options above to provide heat recovery from exhaust air when DOAS system to be installed.



EXISTING PLUMBING SYSTEMS

DOMESTIC WATER SERVICE

Per an older site plan, the water service enters the building near the southwest corner of the center section. The main building shut off was not observed. It may be located in the chase area behind the south toilet rooms; the chase is blocked by items stored in this area. A 2" branch line was added as part of the 1983 remodel of the bathhouse area. This line enters the building next to the gas meter and has a below grade external shut off. Hot water for the Spectrum Theater portion of the building is supplied by an A.O. Smith electric water heater, model ECT 52 210, 50 gallon capacity, manufactured in 2015.

NATURAL GAS SERVICE

Gas service to the building is from a diaphragm type meter located on the west side of the building. Natural gas is supplied to mechanical equipment.



SANITARY WASTE AND VENT

Existing sanitary lines drain by gravity to the city sewer system. Some older vent piping is visible, but painted, possibly galvanized.

STORM DRAINAGE

Roof drains connect to rainleaders enclosed in walls. Scuppers are provided for overflow.



PLUMBING FIXTURES

Fixtures installed during the 2002 renovation are in good condition. Toilet rooms have 1.6 gpf water closets. A residential type stainless steel counter set sink has a single lever faucet.

Older fixtures have rusty flush valves, toilets are not 1.6 gpf.

A room by room summary of Plumbing Fixtures follows:

PIPE "ALLEY"

An electric water heater just inside the door serves lavatories and the kitchenette sink. The water heater is an A.O. Smith model ECT 52 210, 50 gallon capacity, installed in 2015.



WOMEN'S ROOM

Toilet room fixtures are generally in good condition, with 1.6 gpf (gallons per flush) water closets and single lever handle faucets on the lavatories.

MEN'S ROOM

Fixtures are older. Water closet is not 1.6 gpf, flush valve shows considerable wear.

VISITOR/ ALL GENDER/ HC TOILET ROOM

Fixtures are older. Water closet is not 1.6 gpf, Urinal is not labeled for gpf. Flush valves are worn and corroded.



BUILDING EXTERIOR (EAST SIDE)

Older, very worn stainless steel drinking fountain. Water supply pipe is galvanized. Fixture and piping are corroded.



PLUMBING ASSESSMENT AND RECOMMENDATIONS

DEFERRED MAINTENANCE (DO NOW)

- 1. Test potable water system for lead-free status.
- 2. Install seismic shutoff at gas meter.
- 3. Verify restrooms have functional floor drains with trap primers.

CAPITAL PLANNING

Short term:

- 4. Upgrade water closets to a 1.28 gpf model and urinal to a .125 gpf model.
- 5. Replace drinking fountains as necessary to provide lead-free drinking water if fixtures are not lead free. Re-pipe with copper pipe.
- 6. Replace faucets in center wing toilet rooms with lead-free, low flow models.
- 7. Consider replacing electric water heater with high efficiency gas.
- 8. Exterior gas piping should be galvanized or painted per IFGC.



Long term:

- 9. Revise and extend existing water, waste and vent systems as necessary to support toilet room relocation proposed under Architectural Building Interiors section of this Report.
- 10. As part of the proposed toilet room revision, reroute (2) 4" rainleaders currently connected to sewer line serving north wing. Reroute to site storm water system or alternate connection point acceptable to code authorities.
- 11. Replace existing water system piping and components as necessary and provide lead-free, copper piping for all fixtures and drinking water if lead is found in system.
- 12. Consider replacing existing water system with lead-free, copper piping and components regardless of lead-free status.

FIRE PROTECTION

The building does not have sprinklers, a dedicated fire line to the building or standpipes.

FIRE PROTECTION ASSESSMENT AND RECOMMENDATIONS

Long term:

13. Provide a new water-based fire protection system to sprinkler all occupied areas. System would consist of a 4" fire entry, backflow prevention, Fire Department Connection and an interior network of distribution piping to serve sprinkler heads throughout the facility.



CONDITION ASSESSMENT

NORMAL POWER

As-built drawings indicate that the building was constructed in 1941, with an electrical service upgrade for the theatre in 2000.

The existing electrical service is 600A 120/208V 3ph 4W, with the existing former single-phase main service panel serving as a large wireway/junction box.



Panel DP is reasonably new and in good, serviceable condition, as are Panels 'P' and 'L'. There appears to be adequate power capacity for future renovations, however additional panel circuit breaker space will be required, and with the space being limited within the main electrical room, the recommendation is to provide a feeder from Panel 'DP' to a new branch circuit panel located in a convenient location on the main floor, to serve new lighting and power needs.



The Main electrical service metering CT enclosure and adjacent meter, with the Main Service Disconnect switch to the right is shown on the photo below.

Existing Distribution panel, now used as wiring junction box, is shown in the foreground of the photo below, and Main Distribution Panel 'DP', and Panels 'L' and 'P' in the background. This room is highly constrained – just marginally in compliance with code working space clearance requirements of 36" in front of the panels.



The building systems assessment limits of the study are focused on the area of the building occupied by and as the Dance Studio and offices. There are shower rooms and storage rooms accessed on the beach side of the facility, which could be utilized as part of the program, with significant renovation upgrades.

• There is no electrical panelboard observed inside this space.

EMERGENCY/STANDBY POWER

There is no central emergency power system installed in facility



LIGHTING

Interior lighting in Studios I is HID lighting. This was a standard for high-ceiling spaces 20 to 30 years ago, but is very harsh, with excessive glare for this application. Studio II on the second floor incorporates Performance Lighting, mounted to battens.



The means of egress from the spaces are marked with illuminated exit signs, however, with no discernible emergency power backup.





Exterior wall pack luminaires are located on the Beach (east) side of the building. There was no lighting control panel observed during our visit, and the exterior controls do not appear to be in calibration.



FIRE ALARM SYSTEM

The building has an auto sprinkler system, but it does not cover the proposed scope of work area.

The fire alarm control panel is a Siemens MXL-IQ and was installed in the electrical vault room. It is an intelligent addressable fully programmable fire alarm control panel. The fire alarm system is inspected annually by Guardian security, and the latest result has no deficiencies found in August of 2016. No fire alarm remote annunciator (FARA) is observed in the building.

Wall mounted fire alarm horns/strobe are observed in the proposed scope of work area, the current coverage meets code requirement.

TELECOMMUNICATIONS

The existing building telecommunications backboard is located in electrical vault room. The system was renovated during the 2003 remodel and is in good shape.

SECURITY

The existing building security panel is located in electrical vault room. The system was renovated during the 2003 remodel and is in good shape



ELECTRICAL ASSESSMENT AND RECOMMENDATIONS

The building electrical system was upgraded with a conversion to three-phase power, and a new feeder and panel serving the upstairs performance lighting approximately 10 years ago, however most electrical devices are old and in need of replacement and/or addition to provide better coverage of convenience outlet power.

IMMEDIATE NEEDS (FOR NEW SPACE RENOVATION):

- 1. Install new Panels.
- 2. Install new emergency egress lighting to ensure safe egress in the event of loss of power (a semifrequent occurrence in this neighborhood) from the studio and office areas to outside the building. An illuminance of 1 foot-candle minimum coverage will bring this facility to current life safety code requirements.
- 3. Provide new fire alarm devices to cover the proposed scope of work space and connect to existing fire alarm control panel system.
- 4. Provide receptacles to match new space layout.
- 5. Provide new LED lighting fixtures with lighting control system that meets 2015 Seattle energy code requirement to suit new space layout.

SHORT TERM NEEDS

6. Replace exterior building mounted lighting to improve lighting levels, uniformity about the facility, and control of glare for security and safety.

LONG TERM NEEDS

7. The current interior lighting in the building is in serviceable condition, however we recommend replacement with contemporary luminaires and automated control to provide building energy conservation.



F. DRAWINGS







LEGEND

NEW WALL

CONSTRUCTION - NOT FOR **IMINARY DESIGN** PREL

SECOND FLOOR CONCEPT PLAN SD1.0 29 JULY 2017 NOT TO SCALE

	DESIGNED	DATE JULY 2017 SHEET 2 OF 2
		SD1.1
CONCEPT PLAN	SCALE AS SHOWN	

G. COST ESTIMATE



Madrona Bathhouse Evaluation - Cost Estimates Seattle, Washington

Pricing is based on the following general conditions for construction:

A construction start date of Early -Year 2018 is assumed for all items (No costs escalated to a future date).

The work will be competitively bid with qualified general contractors and subcontractors.

There will not be small business or minority business set aside requirements.

The contractors will be required to pay prevailing wages for the respective trades based on location of work.

Phasing of work is not assumed, normal work hours are assumed.

The facility will not be in operation for the duration of construction activities.

The contractor will have full access to the areas of work during normal business hours.

Pricing excludes the following items unless specifically noted otherwise:

Hazardous material testing, handling, abatement and disposal.

Contingencies and Markups

Subcontractor markups may vary to reflect the various trades differences in overhead. The markups are listed for each item.

General contractor overhead and fees are assumed for a project with a scope of \$1,000,000 or larger.

The GC Renovation Contingency below is a contractor contingency.

Contingencies & Markups are broken down as follows:

Design Contingency	15%
GC Renovation Contingency	3%
Home Office Overhead	4%
General Conditions	7%
Site Overhead	9%
General Contractor Fee	8%
Bonds	1.50%
Insurance	2.50%
Sales Tax (included below)	0.00%
General Markups Total	50.00%

Rounding of Subtotals

For ease of cross reference, scope item subtotals are rounded up to the nearest \$1,000

Concept Costs

Scope items identified here may have line item costs included in the scope item that are also identified in other scope headings. Costs for that item may be duplicated in two scope headings to represent a total cost for each heading representing the full scope. The "bottom line" below is not necessarily the total that would be representative of the project if all scope items are approved for construction. The "option items" and duplicate line items need to be fine tuned as the overall project scope is further defined.

Total estimated CONSTRUCTION cost for all scope items on the following pages			\$2,247,000
SP&R Cost & Sa	ales Tax	61.00%	\$1,370,670
Total estimated PROJECT cost for all scope items on the foll	owing pages		\$3,617,670

Scoping Study

INNOVA JOB NUMBER 17-015

Building Enclosure /Structure

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
1 - Repair brick mortar joints as needed				
Repoint mortar joints, allowance	380	SF	5.81	2,208
		SUBTOTAL		\$2,208
	SUBCONTRA	ACTOR OH&P	25%	\$552
	TOTAL SUB	CONTRACTED		\$2,760
	G	ENERAL MARKUPS	50.00%	\$1,380
1 - Repair brick mortar jo	ints as needed	TOTAL		\$5,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
2 - Power wash brick and seal. Remove ivy from exterior walls and trim back				
12" min from wall face				
Remove ivy allowance	3,800	SF	0.25	950
Pressure wash brick & concrete	6,800	SF	1.60	10,880
Apply sealer at upper brick walls	3,000	SF	0.90	2,700
Apply graffiti resistant sealer at lower brick & concrete walls	3,800	SF	3.67	13,946
		SUBTOTAL		\$28,476
	SUBCONTRA	ACTOR OH&P	25%	\$7,119
	TOTAL SUB	CONTRACTED		\$35,595
	G	ENERAL MARKUPS	50.00%	\$17,798
2 - Power wash brick and seal. Remove ivy from exterior walls and trim back wall face	12° min from	IUIAL		\$54,000
Item Description	<u>Qty.</u>	Unit	<u>\$/Unit</u>	<u>Total</u>
3 - Structural: Lateral reinforcing for second floor, anchor walls to floor slab				
Shear wall plywood, blocking, anchort bolts	3,464	SF	7.00	24,248
Re-finish surfaces	3,464	SF	2.00	6,928
		SUBTOTAL		\$31,176
	SUBCONTRA	ACTOR OH&P	25%	\$7,794
	TOTAL SUB	CONTRACTED		\$38,970
	G	ENERAL MARKUPS	50.00%	\$19,485
3 - Structural: Lateral reinforcing for second floor, anchor wa	lls to floor slab	TOTAL		\$59,000
Item Description				
	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
4 - Structural: Roof to wall ties at N & S bays	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers	<u>Qty.</u> 96	<u>Unit</u> EA	<u>\$/Unit</u> 150.00	<u>Total</u> 14,325
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter	<u>Qty.</u> 96 170	<u>Unit</u> EA LF	<u>\$/Unit</u> 150.00 22.00	<u>Total</u> 14,325 3,740
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter Thru wall drilling & patch surfaces	<u>Qty.</u> 96 170 96	<u>Unit</u> EA LF EA	<u>\$/Unit</u> 150.00 22.00 60.00	<u>Total</u> 14,325 3,740 5,760
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter Thru wall drilling & patch surfaces	<u>Qtv.</u> 96 170 96	<u>Unit</u> EA LF EA SUBTOTAL	<u>\$/Unit</u> 150.00 22.00 60.00	<u>Total</u> 14,325 3,740 5,760 \$23,825
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter Thru wall drilling & patch surfaces	<u>Qtv.</u> 96 170 96 SUBCONTR/	Unit EA LF EA SUBTOTAL ACTOR OH&P	<u>\$/Unit</u> 150.00 22.00 60.00 	<u>Total</u> 14,325 3,740 5,760 \$23,825 \$5,956
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter Thru wall drilling & patch surfaces	<u>Qtv.</u> 96 170 96 SUBCONTR/ TOTAL SUBC	Unit EA LF EA SUBTOTAL ACTOR OH&P CONTRACTED	<u>\$/Unit</u> 150.00 22.00 60.00 25%	<u>Total</u> 14,325 3,740 5,760 \$23,825 \$5,956 \$29,781
<u>4 - Structural: Roof to wall ties at N & S bays</u> Through wall 3/4" threaded rod with rosette washers 4x blocking, asume 50% of perimeter Thru wall drilling & patch surfaces	<u>Qtv.</u> 96 170 96 SUBCONTR/ TOTAL SUBC G	Unit EA LF EA SUBTOTAL ACTOR OH&P CONTRACTED ENERAL MARKUPS	<u>\$/Unit</u> 150.00 22.00 60.00 25% 50.00%	Totəl 14,325 3,740 5,760 \$23,825 \$5,956 \$29,781 \$14,891

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
5 - Power wash cedar roof shakes and apply wood preservative				
Clean surfaces with wood restorer & pressure wash (low pressure)	2,730	SF	0.80	2,184
Seal with preservative	2,730	SF	1.80	4,914
		SUBTOTAL		\$7,098
	SUBCONTRA	ACTOR OH&P	25%	\$1,775
	TOTAL SUBC	CONTRACTED		\$8,873
	G	ENERAL MARKUPS	50.00%	\$4,436
5 - Power wash cedar roof shakes and apply wo	ood preservative	TOTAL		\$14,000
Item Description	Qtv.	Unit	\$/Unit	Total
6 – Replace windows to match historic style			<u></u>	
Remove windows & prep openings	200	SE	5.00	1.000
Replace windows to historically match existing style	200	SE	52 50	10 500
Interior casing and glass "storm pane" for insulating qualities	200	SE	24.00	4,800
Sealant joints & naint finish on casing	400	SE	2 3 9	958
	400		2.55	\$17 258
	SUBCONTR		25%	\$17,230
			2378	\$4,314
	IOTAL SOB		50.00%	\$21,372
6 - Replace windows to mai	tch historic style		50.0078	\$10,780
0 – Replace windows to mai	ten historie style	IUIAL		333,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
7 - Repair and Refinish east and west decorative building doors. Replace we	ather seals			
Sand & prep exterior wood door & frame faces	70	SF	2.00	140
Painted finish	70	SF	1.80	126
Remove exist seal	40	LF	1.80	72
Replace seal	40	LF	6.90	276
Add exterior face bottom sweep	10	LF	11.70	117
		SUBTOTAL		\$731
	SUBCONTRA	ACTOR OH&P	25%	\$183
	TOTAL SUBC	CONTRACTED		\$914
	G	ENERAL MARKUPS	50.00%	\$457
7 - Repair and Refinish east and west decorative building doors. Replace	ce weather seals	TOTAL		\$2,000
Item Description	Otv	Unit	\$/Unit	Total
8 - Renlace weather seals renair and refinish all exterior HM doors	<u>acy.</u>	<u></u>	<u></u>	<u></u>
Sand & prep exterior door & frame faces	240	SE	2 00	480
Painted finish	240	SE	1.80	432
Remove exist seal	130	J.F	1 20	-52 250
Replace seal	120	L. LE	£ 00	230
Add exterior face bottom sweep	24	IF	11 70	209 201
Add exterior race bottom sweep	24		11.70	201 ¢2 102
	SUDCONTR		250/	20,402 د201
			2370	100¢
			50 00%	\$3,003 ¢1 E01
9 Donlaro weather soals renair and refinish all and	G Corior HM dooro		30.00%	\$1,501 ¢E 000
o - neplace weather seals, repair and refinish all ext	enor nivi uoors.	IUIAL		33,000

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
<u>9 - Replace Exterior HM doors</u>				
Remove door & frame (per leaf)	8	EA	90.00	720
FRP door frame - single, prefinished	7	EA	450.00	3,150
FRP door frame - double, prefinished	7	EA	600.00	4,200
FRP door, prefinished (by leaf)	8	EA	900.00	7,200
Add for vision panel or louver	2	EA	200.00	400
Door hardware	8	EA	800.00	6,400
		SUBTOTAL		\$22,070
	SUBCONTRAC	CTOR OH&P	25%	\$5,518
	TOTAL SUBCO	ONTRACTED		\$27,588
	GEI	NERAL MARKUPS	50.00%	\$13,794
9 - Replace Exteri	ior HM doors	TOTAL		\$42,000
			1 (c	
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>Ş/Unit</u>	<u>Total</u>

<u>10 - Remove deadbolts from all egress doors. Install latch guards</u>				
Remove deadbolt	2	EA	40.00	80
Install coverplate & latchguard	2	EA	180.00	360
		SUBTOTAL		\$440
	SUBCONTRAC	CTOR OH&P	25%	\$110
	TOTAL SUBCC	ONTRACTED		\$550
	GEN	NERAL MARKUPS	50.00%	\$275
10 - Remove deadbolts from all egress doors.	Install latch guards	TOTAL		\$1,000

Building Enclosure /Structure SUBTOTAL \$260,000

Building Interiors

Item Description	Qty.	Unit	\$/Unit	Total
1 - Clean and refinish interior stairs				
Sand & prep surfaces (wear surface areas)	160	SF	2.00	320
Stain / seal	160	SF	3.60	576
		SUBTOTAL		\$896
	SUBCONTRA	CTOR OH&P	25%	\$224
	TOTAL SUBC	ONTRACTED		\$1,120
	GE	ENERAL MARKUPS	50.00%	\$560
1 - Clean and refin	ish interior stairs	TOTAL		\$2,000
Item Description	Otv	Unit	\$/Unit	Total
2 Ponlace damaged acoustic coiling tiles	<u>ary.</u>	<u>onic</u>	<u>5/ 01112</u>	10101
Allowance for replacement of tiles	100	SF	3.60	360
	100	SUBTOTAL	5.00	\$360
	SUBCONTRA	CTOR OH&P	25%	\$90
	TOTAL SUBC	ONTRACTED		\$450
	GE	ENERAL MARKUPS	50.00%	\$225
2 - Replace damaged acc	oustic ceiling tiles	TOTAL		\$1,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
3 - Reconfigure the Reception area with built-in casework				
Remove misc construction	9	LF	12.00	108
Base cabinet / countertop	18	LF	350.00	6,300
Raised transaction counter	5	LF	150.00	750
Low walls & gate	3	LF	70.00	210
Dropped soffit walls	18	LF	16.00	288
ACT cellings	/0	SF	5.70	399
Power & data	3	EA	/20.00	2,160
	CURCONTRA	SUBIUIAL	250/	\$10,215
			25%	\$2,554
	TOTAL SUBC		50.00%	\$12,709
2 Peconfigure the Pecontian area with	built in casework		50.00%	\$0,564
5 - Reconfigure the Reception area with	built-in casework	TOTAL		320,000
Item Description	<u>Qtγ.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
4 - Replace damaged vinyl tile floor in the Unisex and Men's restrooms				
Replacement of VCT	90	SF	6.18	556
		SUBTOTAL		\$556
	SUBCONTRA	CTOR OH&P	25%	\$139
	TOTAL SUBC	ONTRACTED		\$695
	GE	ENERAL MARKUPS	50.00%	\$348
4 - Replace damaged vinyl tile floor in the Unisex and	Men's restrooms	TOTAL		\$2,000
Item Description	Qty.	<u>Unit</u>	<u>\$/U</u> nit	<u>T</u> otal
5 - Replace the vinyl tile floors in the restrooms and locker rooms with she	et vinyl & integral c	oved base		
Remove flooring & prep for weldable sheet vinyl	450	SF	3.24	1,458
Weldable sheet vinyl	450	SF	5.60	2,520
Integral sheet vinyl wall base	190	LF	6.80	1,292
		SUBTOTAL		\$5,270
	SUBCONTRA	CTOR OH&P	25%	\$1,318
	TOTAL SUBC	ONTRACTED		\$6,588
	GE	ENERAL MARKUPS	50.00%	\$3,294
5 - Replace the vinyl tile floors in the restrooms and locker rooms with she	et vinyl &	TOTAL		\$10,000

integral coved base

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
6 - Clean and apply sealer to changing room and boat storage floors				
Clean surfaces & pressure wash	1,550	SF	0.80	1,240
Sealer	1,550	SF	0.90	1,395
		SUBTOTAL		\$2,635
	SUBCONTRA	ACTOR OH&P	25%	\$659
	TOTAL SUB	CONTRACTED		\$3,294
	G	ENERAL MARKUPS	50.00%	\$1,647
6 - Clean and apply sealer to changing room and bo	at storage floors	TOTAL		\$5,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
7 - Re-coat lifeguard room with epoxy floor paint				
Clean surfaces & pressure wash floor & stem wall	410	SF	0.80	328
Epoxy paint	410	SF	1.80	738
		SUBTOTAL		\$1,066
	SUBCONTRA	ACTOR OH&P	25%	\$267
	TOTAL SUB	CONTRACTED		\$1,333
	G	ENERAL MARKUPS	50.00%	\$666
7 - Re-coat lifeguard room with e	epoxy floor paint	TOTAL		\$2,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
8 - Replace painted floor in Lifeguard room with an epoxy floor system				
Sand blast painted coating	300	SF	1.50	450
Resin flooring	300	SF	17.00	5,100
Resin flooring coved base	105	LF	13.00	1,365
Flooring mfr's inspections & installer warranty	1	LS	969.75	970
		SUBTOTAL		\$7,885
	SUBCONTRA	ACTOR OH&P	25%	\$1,971
	TOTAL SUB	CONTRACTED		\$9,856
	G	ENERAL MARKUPS	50.00%	\$4,928
8 - Replace painted floor in Lifeguard room with an epo	oxy floor system	TOTAL		\$15,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
9 - Repair carpet seams as needed				
Allowance	1	EA	450.00	450
		SUBTOTAL		\$450
	SUBCONTRA	ACTOR OH&P	25%	\$113
	TOTAL SUB	CONTRACTED		\$563
	G	ENERAL MARKUPS	50.00%	\$281
9 - Repair carpet s	eams as needed	TOTAL		\$1,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
<u>10 - Install walk-off mats at building entry</u>				
Cut out carpet & install walk off carpet tiles	70	SF	17.50	1,225
Edging to exist flooring	30	LF	4.50	135
		SUBTOTAL		\$1,360
	SUBCONTR/	ACTOR OH&P	25%	\$340
	TOTAL SUB	CONTRACTED		\$1,700
· · · · · · · · · ·	G	ENERAL MARKUPS	50.00%	\$850
10 - Install walk-off mats	at building entry	IUIAL		\$3,000

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
11 - Replace the Lobby, Reception and Corridor carpet				
Remove carpet	90	SY	4.50	405
Replace carpet	90	SY	42.00	3,780
		SUBTOTAL		\$4,185
	SUBCONTRA	ACTOR OH&P	25%	\$1,046
	TOTAL SUB	CONTRACTED		\$5,231
	G	ENERAL MARKUPS	50.00%	\$2,616
11 - Replace the Lobby, Reception	and Corridor carpet	TOTAL		\$8,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
12 - Install rubber tread covers at back stairwell				
Rubber treads	22	EA	32.10	706
		SUBTOTAL		\$706
	SUBCONTRA	ACTOR OH&P	25%	\$177
	TOTAL SUB	CONTRACTED		\$883
	G	ENERAL MARKUPS	50.00%	\$441
12 - Install rubber tread cov	vers at back stairwell	TOTAL		\$2,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
<u>13 - Replace missing floor transitions</u>	Maintenance	Item		
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
14 - Replace hardware at (6) doors not part of the 2002 renovation				
Remove & replace hardware	6	EA	800.00	4,800
		SUBTOTAL		\$4,800
	SUBCONTRA	ACTOR OH&P	25%	\$1,200
	TOTAL SUB	CONTRACTED		\$6,000
	G	ENERAL MARKUPS	50.00%	\$3,000
14 - Replace hardware at (6) doors not part of	the 2002 renovation	TOTAL		\$9,000
	0.		<i>6</i> // 1 / 1	
Item Description	<u>Qty.</u>	Unit	<u>\$/Unit</u>	lotal
15 - Replace (6) doors not part of the 2002 renovation				
Remove door & frame (per leaf)	6	EA	90.00	540
Wood door frame - single, prefinished	6	EA	300.00	1,800
wood door, pretinished (by leat)	6	EA	600.00	3,600
Add for vision panel or louver	2	EA	120.00	240
Door hardware	6	EA	800.00	4,800
		SUBIOIAL	0.544	\$10,980
	SUBCONTRA		25%	\$2,745
	TOTAL SUBO		50.000/	\$13,725
	G		50.00%	\$6,863
15 - Replace (6) doors not part of	the 2002 renovation	IUIAL		\$21,000
Item Description	Otv	Unit	\$/Unit	Total
16 - Provide a Cypher lock system at ext restroom doors	<u></u>	<u></u>	<u> 77 0 mc</u>	1000
Remove locksets & replace with cypher locksets	2	FA	450.00	900
Misc drilling of doors for new latchset	2	FA	100.00	200
more annual of address for new latenact	2	SUBTOTAL	100.00	¢1 100
			25%	¢1,100 ¢775
	TOTAL SLIP		23/0	۲ <u>۲</u> ۲ ۲۱ ۹۶۶
	10175 3080	ENERAL MARKLIPS	50 00%	¢688 ¢688
16 - Provide a Cunher lock system a	t ext restroom doors	ΤΟΤΑΙ	50.0070	\$2.000 \$2.000
To - I toviac a cyplici lock system a				

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
17 - Re-fasten countertop in Women's restroom and repair laminate top				
Countertop repair allowance	4	LF	80.00	320
Remove & reset lav for laminate work	1	EA	280.00	280
		SUBTOTAL		\$600
	SUBCONTRA	ACTOR OH&P	25%	\$150
	TOTAL SUBC	CONTRACTED		\$750
	G	ENERAL MARKUPS	50.00%	\$375
17 - Re-fasten countertop in Women's restroom and repai	r laminate top	TOTAL	_	\$2,000
these Description	Ohi	11-14	ć/u	Tatal
Item Description	<u>Qty.</u>	Unit	<u>\$/Unit</u>	lotal
18 - Provide "All Gender" signage at single stall restroom	By Owner			
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
19 - Reconfigure existing bathhouse space for studio expansion & changing ro	oms			
Remove roof hoods	2	EA	60.00	120
Framing in roof opening with cement bd interior, VR, sheathing & insul	12	SF	19.00	228
New hood flash on exist curb	22	SF	12.00	264
Remove door & frame (per leaf)	3	EA	90.00	270
Sawcut opening to connect studio spaces	36	LF	14.51	522
Sawcut CMU walls	40	LF	14.51	581
Remove walls	1,382	SF	4.64	6,406
Remove ceilings	1,500	SF	4.64	6,953
Remove benches, partitions, accessories etc	1,500	SF	1.50	2,250
Sawcut conc slabs	170	LF	8.00	1,360
Remove conc slabs (original & overlay w/ thickened footings)	1,500	SF	6.77	10,148
Excavate for footing	12	CY	45.00	550
Backfill footing	2	CY	30.00	60
Footings complete with rebar	10	CY	500.00	5,000
Floor slabs complete with rebar	28	CY	300.00	8,333
Patch CMU walls	88	SF	18.00	1,584
6" CMU walls, reinfored	1,026	SF	10.30	10,571
8" CMU walls, reinforced	168	SF	12.60	2,116

continued on next page

Structural frame at connection opening thru wall	1	FΔ	600.00	600
FRP door frame - single prefinished	2	FΔ	450.00	900
FRP door prefinished (by leaf)	2	EA	900.00	1 800
Add for vision nanel or louver	2	EA	200.00	1,800
Door hardware	2	EA	800.00	1 600
Sealant joint frame to wall	68	LA	1 80	1,000
Paint door & frame (by leaf)	08 2		70.00	140
Renlace door mounted signage	2	EA	100.00	200
Demolition load out & disposal	12	CY	E2 20	200
Truck & dispose of concrete demolition & soil	43	CY	212 47	5 020
Placter ceilings with framing	500	SE	213.47	3,330
Insulate ceiling/roof w/ spray foam at studio area	1 000	SE	6.00	6,112
Insulate certing, foor wy spray foam at studio area	1,000	55	0.41	0,413
Ext wall furring insul & GWB at studio snace	1,000	55	2.00	2,000
	1,592	5F 5F	5.00	7,044
CT walls	1,000	5F 5F	5.70	5,700
Paint walls	1 922	5F 5F	0.90	5,674
	1,652	5F 5F	0.90	1,049
Resin flooring	500	ЭГ СГ	0.90	450
Resin flooring	500	5F 1 F	17.00	a,500
Elegring mfr's inspections & installer warranty	100		1 5 9 7 00	2,060
Problem in a matching with the matching $1/4^{\circ}$ rubber	1 000		1,567.00	1,567
Toilet partitions	1,000	56	5.55	3,330
Toilet partitions	3	EA	2 280 00	2,400
Poofing & curbs for HVAC & plumbing vonts	2	SEI	2,380.00	4,760
CAV Reaften unit w/ DX condensing unit	1	EA	3,000.00	3,000
Changing rooms exhaust fans	1	EA	6,200.00	6,200
Changing rooms exhaust rans	1	EA	2,800.00	2,800
	1,500	SF	0.80	1,200
	1	LS	1,500.00	1,500
	6	EA	550.00	3,300
Install new HW/CW piping at new locations	300		18.50	5,550
	50	LF	135.00	6,750
Vent piping	50	LF	88.00	4,400
we or or complete	4	EA	950.00	3,800
Lav complete	3	EA	550.00	1,650
Snower with ADA high / low heads	2	EA	3,200.00	6,400
Replace 100A sub-panel, and sub-feed CB in existing panel	1	LS	3,500.00	3,500
Equipment connections - For HVAC	1	LS	1,500.00	1,500
Lighting and controls (occ sensors)	7	EA	655.00	4,585
Receptacles (GFI and std)	12	EA	288.00	3,456
Fire alarm	1,500	SF	4.65	6,975
		SUBTOTAL SUBCONTRACTOR OH&P		\$196,529
	SUBCONTRAC			\$49,132
	TOTAL SUBCONTRACTED			\$245,661
	50.00%	\$122,830		
19 - Reconfigure existing bathhouse space for studio expansi	ion & changing rooms	TOTAL		\$369,000

Building Interiors

SUBTOTAL

\$475,000

	ADA					
	Item Description	Qtv.	Unit	Ś/Unit	Total	
1 - Provide accessible path f	rom street right-of-way	See Site/Civil	tem #3	<u></u>		
	Item Description	Qtv.	Unit	\$/Unit	Total	
2 - Provide two designated A	ADA parking spots: at least one that is van	See Site/Civil I	tem #2	<u></u>		
accessible						
	Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total	
3 - Add push-button operato	ors to Main Entry Doors					
ADA operator		2	EA	4,500.00	9,000	
Wireless pushbutton on bolla	ard	2	EA	500.00	1,000	
Electrical service to operator	S	2	EA	150.00	300	
			SUBTOTAL		\$10,300	
		SUBCONTRACTOR OH&P		25%	\$2,575	
		TOTAL SUBCONTRACTED			\$12,875	
		G	ENERAL MARKUPS	50.00%	\$6,438	
	3 - Add push-button operator	s to Main Entry Doors	TOTAL		\$20,000	
	Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>	
4 - Add vertical grab bars to	accessible toilets					
Vertical grab bar above exist	horiz bar	4	EA	80.00	320	
			SUBTOTAL		\$320	
	SUBCONTRACTOR OH&P			25%	\$80	
	TOTAL SUBCONTRACTED GENERAL MARKUPS		CONTRACTED		\$400	
			50.00%	\$200		
	4 - Add vertical grab bar	rs to accessible toilets	TOTAL		\$1,000	
	Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>	
5 - Install a platform lift		4	54	2 000 00	2 000	
Prep structure for fift		1	EA	2,000.00	2,000	
Flation int		1	EA	18,000.00	18,000	
Lieutital service		1		5,000.00	\$22,000	
		SUDCONTR			\$23,000	
					\$28 750	
		IOTAL SOL	GENERAL MARKLIPS		\$14 375	
	5 -	Install a platform lift	TOTAL		\$44,000	
		ADA	SUBTOT	AL	\$65,000	
MECHANICAL SCOPE ITEMS

Mechanical - HVAC

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
1 - Remove the chairs which block the return air grilles served for Studio II	r	Maintenance Item		
<u></u>				
Item Description	Qty.	<u>Unit</u>	<u>\$/Unit</u>	Total
2 - Clean return air grilles. Many were observed to be partially clogged in		Maintenance Item		
office and conference room				
Item Description	Qty.	<u>Unit</u>	<u>\$/Unit</u>	Total
3a - Studios - Replace HVAC-1&2 with (2) Gas-fired Furnaces w/ integral heat r	amp			
capability, resulting in two (2) Zones, each w/ Heating, Cooling and Ventilation	n			
Misc cut & patch	1	EA	1,500.00	1,500
CAV Rooftop unit w/ DX condensing unit	2	EA	6,200.00	12,400
Controls	3,500	SF	0.80	2,800
Equipment connections	. 1	LS	1.500.00	1.500
		SUBTOTAL		\$18,200
	SUBCONTRA	ACTOR OH&P	25%	\$4.550
	TOTAL SUBC	ONTRACTED		\$22,750
	GEN	IERAL MARKUPS	50.00%	\$11.375
3a - Studios - Replace HVAC-1&2 with (2) Gas-fired Furnaces w/ integral heat r	oump	TOTAL		\$35.000
capability, resulting in two (2) Zones, each w/ Heating. Cooling and Ventilation	n			+,
	-			
Item Description	Qty.	Unit	\$/Unit	Total
3b - Studios - Replace HVAC-1&2 w/ a VRE Heat Pump System with DOAS. Two	(2) Zones.		<u></u>	
Heating and Cooling	(
Misc cut & patch	1	EA	1.500.00	1.500
DOAS System w/Supply/return fans	3.400	CFM	19.48	66.232
Fan coil units	2	FA	1,650,00	3,300
Heat nump condenser unit- VRF	- 8	TN	900.00	7 200
Ductwork hangers and insulation	3 885	IBs	5.00	19 425
Sound attenuation	5 828	SE	0.80	4 662
Controls	3 500	SE	3.45	12 075
Equipment connections	3,500	15	1 500 00	1 500
	1	SUBTOTAL	1,500.00	\$115 894
	SUBCONTRA		25%	\$28.97/
			2378	\$20,374
	GEN		50.00%	\$72 /12/
2h Studior Bonlaco HVAC 182 w/ a VPE Heat Dump System with DOAS Two	(2) Zonos		50.0078	\$218,000
Hosting and Cooling	(2) 2011es,	IOTAL		<i>Ş</i> 210,000
Item Description	Otv	Unit	\$/Unit	Total
As - Offices / Conference room - Benjace BTLL1 with a Gas-fired Boofton unit w		<u></u>	<u> </u>	10101
Pump Single Zone Heating and Cooling	vy near			
Misc cut & natch	1	FΔ	1 500 00	1 500
CAV Roofton unit w/ DX condensing unit	1	EA	6 200 00	6 200
Controls	3 000	SE	0,200.00 2 15	6 150
Gas nining and meters	100	J.	12.13	0,+30 A 300
Condensate nining	150	L. LE	42.00 25 00	4,200
Fouriement connections	V 100	EA	20.00	1 600
Equipment connections	4		400.00	¢22 700
	SURCONTRA		250/	\$23,700 ¢E 025
		ONTRACTED	23%	\$2,925 \$20 625
	IUIAL SUBL		50 0.0%	220,025 ¢11 012
An Officer Conference room Benlace DTU 4 with a Cas fired Deather with	UEN		30.00%	¢14,013
Ha - Oncesy Conference room - Replace KTO-1 with a Gas-fired KOOTCOP Unit W	v/ neat	IUIAL		943,000

Pump, Single Zone, Heating and Cooling

MECHANICAL SCOPE ITEMS

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
4b - Offices/ Conference room - Replace RTU-1 with a VRF Heat Pump System	w/ DOAS,			
Multiple Zones, Heating and Cooling				
Misc cut & patch	1	EA	2,800.00	2,800
Remove/replace with VRF unit	1	EA	6,500.00	6,500
VAV terminals	2	EA	1,850.00	3,700
Gas piping and meters	50	LF	42.00	2,100
Condensate piping	100	LF	25.00	2,500
Equipment connections	4	EA	400.00	1,600
		SUBTOTAL		\$19,200
	SUBCONTRA	CTOR OH&P	25%	\$4,800
	TOTAL SUBCO	ONTRACTED		\$24,000
	GEN	ERAL MARKUPS	50.00%	\$12,000
4b - Offices/ Conference room - Replace RTU-1 with a VRF Heat Pump System	w/ DOAS,	TOTAL		\$36,000
Multiple Zones, Heating and Cooling				
Item Description	Qty.	Unit	\$/Unit	Total
5 - Replace HVAC-1&2 and RTU-1 with a single VRF Heat Pump System with DC	DAS.			
Multiple Zones, Heating and Cooling, serving the entire building	<u> </u>			
Misc cut & patch	1	EA	1,500.00	1,500
DOAS System w/Supply/return fans	6,500	CFM	19.48	126,620
Heat pump condenser unit- VRF	16	TN	900.00	14,400
Fan coil units	2	EA	1,650.00	3,300
Ductwork, hangers and insulation	13,320	LBs	5.00	66,600
Sound attenuation	19,980	SF	0.80	15,984
Controls	12,000	SF	3.45	41,400
Gas piping	50	LF	42.00	2,100
Condensate piping	100	LF	25.00	2,500
Equipment connections	8	EA	400.00	3,200
		SUBTOTAL		\$277,604
	SUBCONTRA	CTOR OH&P	25%	\$69,401
	TOTAL SUBCO	ONTRACTED		\$347,005
	GEN	ERAL MARKUPS	50.00%	\$173,503
5 - Replace HVAC-1&2 and RTU-1 with a single VRF Heat Pump System with DC Multiple Zones, Heating and Cooling, serving the entire building	DAS,	TOTAL		\$521,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
6a - Replace existing exhaust fans by new exhaust fans				
Misc cut & patch	1	EA	1,500.00	1,500
Remove/Replace exhaust fans	6	EA	880.00	5,280
Equipment connections	6	EA	175.00	1,050
		SUBTOTAL		\$7,830
	SUBCONTRA	CTOR OH&P	25%	\$1,958
	TOTAL SUBCO	ONTRACTED		\$9,788
	GEN	ERAL MARKUPS	50.00%	\$4,894
6a - Replace existing exhaust fans by new exhaust fans		TOTAL		\$15,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Tot</u> al
6b - Connect exhaust of restrooms to DOAS system proposed above	-			_
DOAS connections for exhaust fans	6	EA	475.00	2,850
		SUBTOTAL		\$2,850
	SUBCONTRA	CTOR OH&P	25%	\$713
	TOTAL SUBCO	ONTRACTED		\$3,563
	GEN	ERAL MARKUPS	50.00%	\$1,781
6b - Connect exhaust of restrooms to DOAS system proposed above		TOTAL		\$6,000

MECHANICAL SCOPE ITEMS

Item Description <u>7a - Renovation space- Gas fired rooftop unit with heat pump, single zone,</u> <u>heating & cooling</u>	<u>Qty.</u> See	<u>Unit</u> e Building Interio	<u>\$/Unit</u> ors Item 19	<u>Total</u>
Item Description 7b - Renovation space- Combine space with Mechanical item 3b above	<u>Qty.</u> See	<u>Unit</u> e HVAC Item 3b	<u>\$/Unit</u>	<u>Total</u>
Item Description 8a - Changing rooms - roof mounted exhaust fan to serve both rooms	<u>Qty.</u> See	<u>Unit</u> e Building Interio	<u>\$/Unit</u> ors Item 19	<u>Total</u>
<u>Item Description</u> <u>8b - Changing rooms - connect both rooms to DOAS system proposed in item</u> <u>6b above</u>	<u>Qty.</u> See	<u>Unit</u> e HVAC Item 3b	<u>\$/Unit</u>	<u>Total</u>

Mechanical - HVAC

\$876,000

SUBTOTAL

PLUMBING SCOPE ITEMS

Mechanical - Plumbing

<u>Item Description</u> <u>1 - Test potable water system for lead-free status</u>	<u>Qty.</u>	<u>Unit</u> By Owner	<u>\$/Unit</u>	<u>Total</u>
<u>Item Description</u> <u>2 - Install seismic shutoff at gas meter</u>	<u>Qty.</u>	<u>Unit</u> By Owner	<u>\$/Unit</u>	<u>Total</u>
Item Description <u>3 - Inspect restroom floor drains</u>	<u>Qty.</u>	<u>Unit</u> By Owner	<u>Ś/Unit</u>	<u>Total</u>
<u>Item Description</u> 4 - Upgrade Toilets and Urinals to Jow-flow types	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
Remove/ replace with low flow toilets Remove/ replace with low flow urinals	3 1	EA EA	760.00 590.00	2,280 590
	SUBCONTRA TOTAL SUBC	SUBTOTAL ACTOR OH&P CONTRACTED	25%	\$2,870 \$718 \$3,588
4 - Upgrade Toilets and Urinals to lo	GEN ow-flow types	IERAL MARKUPS TOTAL	50.00%	\$1,794 \$6,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
5 - Replace exterior drinking fountain as required by Item 1				
Core drill wall & patch exist holes	1	EA	400.00	400
Install drinking fountain -bi-level	1	EA	3,170.00	3,170
Piping and connections	26	LF	21.00	546
		SUBTOTAL		\$4,116
	SUBCONTRA	CTOR OH&P	25%	\$1,029
	TOTAL SUBC	ONTRACTED		\$5,145
5 - Replace exterior drinking fountain as requi	GEN red by Item 1	IERAL MARKUPS TOTAL	50.00%	\$2,573 \$8,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
6 - Replace faucets in center wing toilet rooms as required by Item 1				
Remove/replace Sink faucets w/sensors	4	EA	688.00	2,752
		SUBTOTAL		\$2,752
	SUBCONTRA	CTOR OH&P	25%	\$688
	TOTAL SUBC	ONTRACTED		\$3,440
	GEN	IERAL MARKUPS	50.00%	\$1,720
6 - Replace faucets in center wing toilet rooms as requi	red by Item 1	TOTAL		\$6,000
Item Description 7 - Replace electric water heater with high efficiency gas	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
Gas water heater	1	EA	1,350.00	1,350
		SUBTOTAL		\$1,350
	SUBCONTRA	CTOR OH&P	25%	\$338
	TOTAL SUBC	ONTRACTED		\$1,688
	GEN	IERAL MARKUPS	50.00%	\$844
7 - Replace electric water heater with high o	efficiency gas	TOTAL		\$3,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
8 - Exterior gas piping should be galvanized or painted		By Owner		

PLUMBING SCOPE ITEMS

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
9 - Revise plumbing to support the reconfiguted toilet rooms & studio area		See Building Inte	riors Item 19	
		5		
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
10 - Renovation space - reroute (2) 4" rainleaders connected to sewer line		See Building Inte	riors Item 19	
serving north wing				
Item Description	Qty.	<u>Unit</u>	<u>\$/Unit</u>	Total
11 - Replace water piping and components as required by Item 1				
Replace water piping & components with lead-free type	1	EA	8.000.00	8.000
Cut & patch walls & ceilings for access	1	EA	8.000.00	8.000
	-	SUBTOTAL	0,000.000	\$16,000
	SUBCONTRA	ACTOR OH&P	25%	\$4,000
				\$20,000
	GEN	IFRAI MARKLIPS	50.00%	\$10,000
11 - Replace water nining and components as require	od hv Itam 1		50.0070	\$10,000
II - Replace water piping and components as require	eu by item 1	IUIAL		\$30,000
Item Description	Otv	Unit	\$/LInit	Total
12 Paplace water nining and components regardlass of Item 1	<u></u>	onne	<u>9/0111</u>	<u>10tu</u>
<u>12 - Replace water piping and components regardless of item 1</u>	1	EA	8 000 00	8 000
Cut & natch walls & collings for access	1	EA	8,000.00	8,000
cut & patch wans & cennigs for access	T	EA	8,000.00	\$,000
	CURCONTRA	SUBIUIAL	250/	\$16,000
	SUBCONTRA		25%	\$4,000
	TOTAL SUBC		50.000/	\$20,000
	GEN		50.00%	\$10,000
12 - Replace water piping and components regardle	ess of Item 1	TOTAL		\$30,000
Itom Description	Otv	Unit	¢/LInit	Total
12 Fire Protection Provide a new vistor based fire protection system to any	akler ell	<u>onic</u>	<u>5/0111</u>	<u>10tai</u>
13 - Fire Protection - Provide a new water-based life protection system to spril	nkier all			
interior network of distribution nining to serve sprinkler heads throughout the	e facility			
Cut & natch walls & callings for nings & heads	0.769	CSE	2 10	20 512
Fire protection system complete	9,700	GSF	2.10	20,515
Tosting	5,708		125.00	2 000
/" water serivce line	75		60.00	2,000
Fire Department Connection	1		5 000 00	4,500
Tan connection at main	1	EA	3,000.00	3,000
	1	EA	4,000.00	4,000
4 meter	1	EA	10,000.00	10,000
Site Pectoration	1	EA	20,000.00	20,000
שוני וובשנטו מנוטוו	1		10,000.00	10,000
	CURCONTRA		250/	\$136,672
	SUBCONTRA		25%	\$34,168
	IUTAL SUBC		F0 000/	\$170,840
An etc. But a the Board back of the State of	GEN		50.00%	\$85,420
13 - Hire Protection - Provide a new water-based fire protection system to spri	nkier all	TOTAL		\$257,000
occupied areas. This would include a 4° Tire entry, backflow prevention, FDC a	nu an Facility			
interior network or distribution piping to serve sprinkler neads throughout the	eracinty			

Mechanical - Plumbing

SUBTOTAL

\$340,000

ELECTRICAL SCOPE ITEMS

Electrical (E)

Item Description	Qty.	<u>Unit</u>	<u>\$/Unit</u>	Total
1 - Replace panels if proposed reconfiguration is performed	Se	ee Building Interior	s Item 19	
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
2 - Install emergency egress lighting from the Studio and Office areas, 1 ft can	dle min_			
Misc hard ceiling cut & patch	1	EA	1,500.00	1,500
Egress Lighting including wiring and connections	20	EA	890.00	17,800
		SUBTOTAL		\$19,300
	SUBCONTRAC	CTOR OH&P	25%	\$4,825
	TOTAL SUBCC	ONTRACTED		\$24,125
	GENE	ERAL MARKUPS	50.00%	\$12,063
2 - Install emergency egress lighting from the Studio and Office areas, 1 ft can	dle min	TOTAL		\$37,000
Item Description	Qtv.	Unit	Ś/Unit	Total
3 - Provide new fire alarm devices connected to the existing fire alarm	Se	e Building Interior	s Item 19	
control panel system to cover the proposed reconfigured spaces				
Item Description	Qty.	Unit	\$/Unit	Total
4 - Provide recentacles to match new space layout if proposed	Se	ee Building Interior	s Item 19	
reconfiguration is performed				
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
5 - Provide new LED lighting fixtures with lighting control system that meets	Se	ee Building Interior	rs Item 19	
2015 Seattle energy code requirement if proposed reconfiguration is				
performed				
Item Description	Otv	Unit	\$/Unit	Total
6 Poplace exterior building mounted lighting	<u></u>		<u> </u>	<u>Total</u>
<u>o - Replace exterior building mounted lighting</u>	o	EA	400.00	2 0 2 0
	0		490.00	5,920
	1		13,000.00	\$19,000
	SUBCONTRAC	TOR OH&P	25%	\$18,520
			2570	\$23,650
	GENE	RAI MARKUPS	50.00%	\$11 825
6 - Replace exterior building mounted lighting	GLINE	TOTAL	50.0070	\$36,000
				çoojooo
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
7 - Replace interior lighting throughout building with contemporary				
luminaires and automated control to provide building energy conservation.				
Repair wall and ceiling areas	1	LS	12,500.00	12,500
Remove/replace interior lighting	56	EA	688.00	38,528
Lighting controls	1	LS	18,500.00	18,500
		SUBTOTAL		\$69,528
	SUBCONTRAC	CTOR OH&P	25%	\$17,382
	TOTAL SUBCC	NTRACTED		\$86,910
	GENE	RAL MARKUPS	50.00%	\$43,455
7 - Replace interior lighting throughout building with contemporary		TOTAL		\$131,000
luminaires and automated control to provide building energy conservation.				
E	lectrical (E)	SUBTO	OTAL	\$204,000

SITE / CIVIL SCOPE ITEMS

Item Description	Qty.	<u>Unit</u>	<u>\$/Unit</u>	Total
1 - Clean out area drains and catch basins and "TV" existing drain lines to				
determine condition				
Clean out area drains and catch basins	5	EA	200.00	1,000
"TV" existing drain lines	100	LF	5.00	500
		SUBTOTAL		\$1,500
	SUBCONTRAC	TOR OH&P	25%	\$375
	TOTAL SUBCO	NTRACTED		\$1,875
	GEN	IERAL MARKUPS	50.00%	\$938
1 - Clean out area drains and catch basins and "TV" existing drain lines to dete	rmine	TOTAL		\$3,000
condition				
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
2 - Restripe and paint (2) handicapped parking stalls to meet ADA standards.				
Handicapped parking signs to be installed and/or relocated to front of stalls				
Gind and remove existing paint from stall	360	SF	4.00	1,440
Restripe and paint handicapped parking stall	2	EA	250.00	500
Install new handicapped parking sign	1	EA	300.00	300
Relocate existing handicapped parking sign	1	EA	150.00	150
		SUBTOTAL		\$2,390
	SUBCONTRAC	TOR OH&P	25%	\$598
	TOTAL SUBCO	NTRACTED		\$2,988
	GEN	IERAL MARKUPS	50.00%	\$1,494
2 - Restripe and paint (2) handicapped parking stalls to meet ADA standards.		TOTAL		\$5,000
Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	Total
3 - Remove and clean moss from walkways				
Remove and clean moss from walkway	600	SF	0.50	300
		SUBTOTAL		
	CURCONTRAC			\$300
	SUBCONTRAC	TOR OH&P	25%	\$300 \$75
	TOTAL SUBCO	TOR OH&P NTRACTED	25%	\$300 \$75 \$375
	TOTAL SUBCO	TOR OH&P NTRACTED IERAL MARKUPS	25% 50.00%	\$300 \$75 \$375 \$188
3 - Remove and clean moss from walkways	TOTAL SUBCO	TOR OH&P NTRACTED IERAL MARKUPS TOTAL	25% 50.00%	\$300 \$75 \$375 \$188 \$1,000
3 - Remove and clean moss from walkways	TOTAL SUBCO	TOR OH&P NTRACTED IERAL MARKUPS TOTAL	25% 50.00%	\$300 \$75 \$375 \$188 \$1,000
3 - Remove and clean moss from walkways	TOTAL SUBCONTRAC	TOR OH&P NTRACTED IERAL MARKUPS TOTAL	25% 50.00%	\$300 \$75 \$375 \$188 \$1,000
3 - Remove and clean moss from walkways <u>Item Description</u> 4. Description	TOTAL SUBCONTRAC	TOR OH&P NTRACTED IERAL MARKUPS TOTAL	25% 50.00% <u>\$/Unit</u>	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u>
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk	OBCONTRAC TOTAL SUBCO GEN <u>Qty.</u>	TOR OH&P NTRACTED IERAL MARKUPS TOTAL	25% 50.00% <u>\$/Unit</u>	\$300 \$75 \$375 \$188 \$1,000
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro <u>Replace concrete vehicle access and provide a painted crosswalk</u> Demolish evicting asphalt	OUTECONTRAC TOTAL SUBCO GEN <u>Oty.</u>	TOR OH&P NTRACTED IERAL MARKUPS TOTAL Unit	25% 50.00% <u>\$/Unit</u>	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u>
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro <u>Replace concrete vehicle access and provide a painted crosswalk</u> Demolish existing asphalt Regrade surface to less than 2.0%	OUTAL SUBCONTRAC TOTAL SUBCO GEN <u>Otv.</u> 555 slope. 150	TOR OH&P NTRACTED IERAL MARKUPS TOTAL Unit SF	25% 50.00% <u>\$/Unit</u> 6.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" bace course 2" asphalt	Otv. <u>Otv.</u> <u>oss slope.</u> <u>150</u> <u>150</u>	TOR OH&P NTRACTED IERAL MARKUPS TOTAL <u>Unit</u> SF SF	25% 50.00% <u>\$/Unit</u> 6.00 6.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1 200
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk	<u>Otv.</u> <u>Otv.</u> <u>555 slope.</u> <u>150</u> <u>150</u> <u>20</u>	TOR OH&P NTRACTED IERAL MARKUPS TOTAL <u>Unit</u> SF SF SF SF	25% 50.00% <u>\$/Unit</u> 6.00 6.00 8.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detertible warning	<u>Otv.</u> <u>Otv.</u> <u>555 slope.</u> <u>150</u> 150 <u>150</u> 20 20 2	TOR OH&P NTRACTED JERAL MARKUPS TOTAL <u>Unit</u> SF SF SF LF EA	25% 50.00% <u>\$/Unit</u> 6.00 6.00 8.00 10.00 300.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detectible warning	<u>Oty.</u> <u>S55 slope.</u> <u>150</u> 150 150 20 2	TOR OH&P NTRACTED JERAL MARKUPS TOTAL <u>Unit</u> SF SF SF LF EA SUBTOTAL	25% 50.00% <u>\$/Unit</u> 6.00 6.00 8.00 10.00 300.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detectible warning	Oty. SUBCONTRAC OCTORES OCT	TOR OH&P NTRACTED JERAL MARKUPS TOTAL <u>Unit</u> SF SF SF LF EA SUBTOTAL TOR OH&P	25% 50.00% <u>\$/Unit</u> 6.00 6.00 8.00 10.00 300.00	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600 \$3,800 \$550
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detectible warning	SUBCONTRAC TOTAL SUBCO GEN <u>Oty.</u> <u>555 slope.</u> 150 150 150 20 2 SUBCONTRAC TOTAL SUBCO	TOR OH&P NTRACTED IERAL MARKUPS TOTAL Unit SF SF SF LF EA SUBTOTAL TOR OH&P NTRACTED	25% 50.00% <u>\$/Unit</u> 6.00 6.00 8.00 10.00 300.00 25%	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600 \$3,800 \$950 \$4,750
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detectible warning	SUBCONTRAC TOTAL SUBCO GEN <u>Oty.</u> <u>555 slope.</u> 150 150 20 2 SUBCONTRAC TOTAL SUBCO	TOR OH&P NTRACTED IERAL MARKUPS TOTAL Unit SF SF SF LF EA SUBTOTAL TOR OH&P NTRACTED	25%	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600 \$3,800 \$950 \$4,750 \$2,275
3 - Remove and clean moss from walkways <u>Item Description</u> 4 - Demolish and re-level the beach vehicle access to have less than a 2.0% cro Replace concrete vehicle access and provide a painted crosswalk Demolish existing asphalt Regrade surface to less than 2.0% Place new asphalt: 6" base course 2" asphalt Paint crosswalk Install detectible warning	SUBCONTRAC TOTAL SUBCO GEN <u>Oty.</u> 150 150 20 2 SUBCONTRAC TOTAL SUBCO GEN	TOR OH&P NTRACTED IERAL MARKUPS TOTAL Unit SF SF SF LF EA SUBTOTAL TOR OH&P NTRACTED IERAL MARKUPS TOTAI	25%	\$300 \$75 \$375 \$188 \$1,000 <u>Total</u> 900 900 1,200 200 600 \$3,800 \$950 \$4,750 \$2,375 \$8 000

Item Description	<u>Qty.</u>	<u>Unit</u>	<u>\$/Unit</u>	<u>Total</u>
5 - Construct curb ramp for ADA stalls and connect to sidewalk				
Demolish existing concrete sidewalk and curb	120	SF	6.00	720
Construct parallel curb ramp	1	EA	2,000.00	2,000
		SUBTOTAL		\$2,720
	SUBCONTR	ACTOR OH&P	25%	\$680
	TOTAL SUB	CONTRACTED		\$3,400
	G	SENERAL MARKUPS	50.00%	\$1,700
5 - Construct curb ramp for ADA stalls and connect	to sidewalk	TOTAL		\$6,000
Item Description	Otv	Unit	\$/Unit	Total
6. Clean and seal the cracks in the asphalt path along the west fr	$\frac{Q(y)}{Q(y)}$	<u>onn</u>	<u>5/0111</u>	<u>10tai</u>
<u>o - clean and sear the clacks in the asphalt path along the west to</u>		15	E 00	275
Ciedii Ciedks iii dspiidit	75		5.00	375
Sear cracks with rubbenzed asphalt crack searant	/5		7.50	503 ¢028
	CURCONTR		250/	\$938
	SUBCONTR		25%	\$234
	TOTAL SUB		=0.000/	\$1,172
	(1 ENERAL MARKUPS	50.00%	5586
C. Clean and east the gradie in the combalt wath clean the weat f	as of the building	TOTAL		ć2,000
6 - Clean and seal the cracks in the asphalt path along the west fa	ace of the building	TOTAL		\$2,000
6 - Clean and seal the cracks in the asphalt path along the west fa	ace of the building Qty.	TOTAL Unit	\$/Unit	\$ 2,000 Total
6 - Clean and seal the cracks in the asphalt path along the west father the second search in the second sec	ace of the building	TOTAL <u>Unit</u>	<u>\$/Unit</u>	\$2,000
6 - Clean and seal the cracks in the asphalt path along the west fatight the second search of the second se	ace of the building <u>Qty.</u> 8	TOTAL <u>Unit</u> EA	<u>\$/Unit</u> 50.00	\$2,000 <u>Total</u> 400
6 - Clean and seal the cracks in the asphalt path along the west fa <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashblocks	ace of the building <u>Qty.</u> 8 8	TOTAL <u>Unit</u> EA FA	<u>\$/Unit</u> 50.00 25.00	\$2,000 Total 400 200
6 - Clean and seal the cracks in the asphalt path along the west fa <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks	ace of the building <u>Qtv.</u> 8 8	TOTAL <u>Unit</u> EA EA SURTOTAI	<u>\$/Unit</u> 50.00 25.00	\$2,000 <u>Total</u> 400 200 \$600
6 - Clean and seal the cracks in the asphalt path along the west far <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks	ace of the building <u>Otv.</u> 8 8 SUBCONTR	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P	<u>\$/Unit</u> 50.00 25.00	\$2,000 <u>Total</u> 400 200 \$600 \$150
6 - Clean and seal the cracks in the asphalt path along the west for <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks	ace of the building <u>Otv.</u> 8 8 SUBCONTR TOTAL SUB	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED	<u>\$/Unit</u> 50.00 25.00 25%	\$2,000 <u>Total</u> 400 200 \$600 \$150 \$750
6 - Clean and seal the cracks in the asphalt path along the west far <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks	ace of the building Otv. 8 8 SUBCONTR TOTAL SUB	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED SENERAL MARKUPS	<u>\$/Unit</u> 50.00 25.00 25% 50.00%	\$2,000 <u>Total</u> 400 200 \$600 \$150 \$750 \$375
6 - Clean and seal the cracks in the asphalt path along the west fat <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks 7 - Install downspouts and splashblock	ace of the building <u>Otv.</u> 8 8 SUBCONTR TOTAL SUB Cost at all roof ton scuppers	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED SENERAL MARKUPS TOTAL	<u>\$/Unit</u> 50.00 25.00 50.00%	\$2,000 <u>Total</u> 400 200 \$600 \$150 \$750 \$375 \$2,000
6 - Clean and seal the cracks in the asphalt path along the west fa <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks 7 - Install downspouts and splashblock	ace of the building Otv. 8 8 SUBCONTR TOTAL SUB C cs at all roof top scuppers	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED SENERAL MARKUPS TOTAL	<u>\$/Unit</u> 50.00 25.00 25% 50.00%	\$2,000 <u>Total</u> 400 200 \$600 \$150 \$750 \$375 \$2,000
6 - Clean and seal the cracks in the asphalt path along the west fatility of the second secon	ace of the building <u>Qtv.</u> 8 8 SUBCONTR TOTAL SUB C cs at all roof top scuppers <u>Qtv.</u>	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED SENERAL MARKUPS TOTAL Unit	<u>\$/Unit</u> 50.00 25.00 50.00% <u>\$/Unit</u>	\$2,000 Total 400 200 \$600 \$150 \$750 \$375 \$2,000 Total
6 - Clean and seal the cracks in the asphalt path along the west for <u>Item Description</u> 7 - Install downspouts and splashblocks at all roof top scuppers Install downspouts Install splashplocks 7 - Install downspouts and splashblock <u>Item Description</u> 8 - Provide 4" water line for fire sprinkler system	ace of the building Qtv. 8 8 SUBCONTR TOTAL SUB 0 total sub 0 total suppers 0 total suppers 0 total suppers 0 Qtv. See Plumbin	TOTAL Unit EA EA SUBTOTAL ACTOR OH&P CONTRACTED SENERAL MARKUPS TOTAL Unit g Item 13	<u>\$/Unit</u> 50.00 25.00 50.00% <u>\$/Unit</u>	\$2,000 Total 400 200 \$600 \$150 \$750 \$375 \$2,000 Total

H. ASSET MANAGEMENT DATA



Facility Condition Summary						8/18/2017
Seattle Parks & Recreation						
Madrona Bathhouse - Spectrum Da	nce Theate	r				
Facility Components	iginal System Date	st Major System newal	ndition Scores w 0 to High 5)	maining Useful Life ears	rveyor & Date	
Systems	Ōri	Las Rei	(Lo Co	Rei - Y	Sui	Comments
A. Substructure			4.0			
Foundations Conc. Foundation	1928	1971	4	40	4/7/2017	concrete spread footings, with concrete slab on grade. 1971 2nd floor addition replaced foundations. Some settlement observed.
B Shell			3.1			
Exterior Closure			3.4			
Exterior Walls - Masonry	1928		3	40	4/7/2017	Original unreinforced masonry structural walls remain. Needs seismic upgrades. Clean & Seal, and keep ivy from growing on it.
Framing - Timber	1928	1971	4	40	4/7/2017	Wood roof structure with timber columns. Changed in 1971 addition. Upgrade seismic
Exterior Windows	1928		3	5	4/7/2017	Very few windows. Appear to be orifginal, uninsulated. Some painted over. Historic?
Exterior Doors	1928		3	5 to 10	4/7/2017	Hollow metal. Various conditions - need paint and seals, update hardware.
Roofing Roof Coverings	1928	2000	4	5 to 10	4/7/2017	The slopes roofs are cedar wood shingles; replaced in 200 on N, E, & S. West only repairs. Low-slope is built-up. The shingles need to be cleaned.
C. Interiors			3.8			
Interior Construction						
Interior Doors	1928	2002	4	10	4/7/2017	Doors and frames throughout are wood with wood frames. Most replaced in 2002. Remaining doors have non-compliant hardware
Interior Finishes Wall Finishes - CMU	1928		4	10	4/7/2017	Area associated with the Bathhouse and lifeguards is CMU with lath & plaster finish

Facility Condition Summary Seattle Parks & Recreation						8/18/2017
Madrona Bathhouse - Spectrum Da Facility Components	riginal System Date	ast Major System enewal	ondition Scores ow 0 to High 5)	emaining Useful Life Years	urveyor & Date	
Wall Finishes - GWB	2002	<u>s r</u>	<u>७ ट</u> ऽ	25	م 4/7/2017	2002 offices; metal framed with GWB are in good condition.
Wall Finishes - Wood	1928	1971	4	10	4/7/2017	Studio spaces - painted exposed framing/panels.
Floor Finishes - Concrete	1928		4	40	4/7/2017	Bathhouse floors are painted concrete. Paint is peeling
Floor Finishes - Vinyl	1928		2	5	4/7/2017	Vinyl in restrooms/locker rooms. Base is failing is some places
Floor Finishes - Carpet	1928	2002	2	5 to 10	4/7/2017	Carpet in lobby, reception and 2002 offices. Seems need repair. Heavily worn in entry
Floor Finishes - Rubber	unknown		4	5 to 10	4/7/2017	Used in dance studios. A transition piece is missing.
Ceiling Finishes - Changing	1928		4	10	4/7/2017	In north bathhouse there's a mix of lath & plaster and wood T&G
Ceiling Finishes - ACT	2002		4	15	4/7/2017	In 2002 offices and in Studio I
Ceiling Finishes - GWB	2002		5	15	4/7/2017	Studio Offices and wet areas.
Ceiling Finishes - Wood	1928		4	40	4/7/2017	Second Floor studio is exposed wood framing

Facility Condition Summary						8/18/201
Seattle Parks & Recreation						
Madrona Bathhouse - Spectrum I	Dance Theate	er				
Facility Components Systems	Original System Date	Last Major System Renewal	Condition Scores (Low 0 to High 5)	Remaining Useful Life - Years	Surveyor & Date	Comments
Skylights	1971		3	5 to 10	4/7/2017	Passive ventilation louvers don't always work.

D. Se	rvices			2.5			
Plum	bing Plumbing Fixtures	1928	2002	3	5	4/7/2017	Plumbing fixtures installed in 2002 are in good condition, but should be updated to meet current
							code for water efficiency. Older fixtures are in fair to poor condition, would need replacement to meet current water efficiency and lead-free regulations.
	Domestic Water Distribution	1928		3	20	4/7/2017	Domestic water piping is in good condition and has adequate capacity to supply the fixtures proposed to be added. Some galvanized branch piping remains and should be replaced.
	Sanitary Waste	1928		4	40	4/7/2017	Sanitary waste lines are original construction cast iron and hav adequate capacity to supply the fixtures proposed to be added.
	Natural Gas	1928		3	20	4/7/2017	The existing gas service to the building does not have a seismic shut-off valve. Installation of a valve is recommended.
ΗνΔά							
	-						The furnace HVAC-1 serves the studio on the first floor. It provides ventilation and heating only and appears to be 25 years old. The thermostat controls for each furnace appear to have been upgraded in c. 2000, control upgrade also includes damper- actuators, and relays to trigger damper positioning.
	Furnace HVAC-1	c. 1992	2000	3	5	4/7/2017	The furnace HVAC-2 serves the studio on second floor. This unit provides ventilation, heating as well as cooling, which appears to have been added as part of an upgrade in c. 2000. The thermostat controls for each furnace appear to have been upgraded in c. 2000, control upgrade also includes damper actuators and relays to trigger damper
	Furnace HVAC-2	2000		3	5 to 10	4/7/2017	positioning.

Facility Condition Summary						8/18/201
Seattle Parks & Recreation						
<u>Madrona Bathhouse - Spectrum</u> Facility Components Systems	Dauce Theater Original System Date	Last Major System Renewal	Condition Scores (Low 0 to High 5)	Remaining Useful Life - Years	Surveyor & Date	Comments
Condenser Unit COND-1	2000		3	5 to 10	4/7/2017	The condenser unit serves the DX cooling coil on HVAC-2 and appears to have been part of an upgrade in c. 2000.
Rooftop Unit RTU-1	2002		3	5 to 10	4/7/2017	The offices and conference room are served by a rooftop unit RTU-1 that provides heating/cooling and ventilation. The exhaust fan is provided to serve men's restrooms on first floor in order to provide odor
Exhaust Fan EX-1	Unknown		2	1 to 5	4/7/2017	control. It is controlled by a wall switch. The exhaust fan is provided to serve women's restrooms on first floor in order to provide odor
Exhaust Fan EX-2	Unknown		2	1 to 5	4/7/2017	control. It is controlled by a wall switch.
Electrical Electrical Distribution	1928		2	10	4/7/2017	Main and sub panels looks appearantly at least 40- 50 years old, the panelboards are in fairly condition, we expect it will last 10 years.
Lighting Systems Control panel	1928	1987	2	10	4/7/2017 4/7/2017	Interior lighting in the Dance Studio: HID lighting was a standard for high-ceiling spaces 20 to 30 years ago, but is very harsh, with excessive glare for this application, we estimate the fixtures can last 10 years, no lighting control system is observed during site visit.
Fire Alarm	1928	2003	4	20	4/7/2017	Fire alarm was installed not too long ago, maybe 2003, and is tested yearly, it appears to be in good working order, we expect it will last 20 years.
Telephone & Data	1928	2003	3	20	4/7/2017	Telephone & data systems seems using current standard equipment across the City all community centers. It may be replaced with other city community centers, no estimated timeline.
Fire Protection						
Fire Sprinklers	1928		0	0	4/7/2017	The building is not fire sprinklered.

End Of Summary