DRAFT REPORT

Fire Station 203



Built in 1948 the facility is located in a residential neighborhood. The site has off street parking. The fire station construction is brick masonry veneer with wood frame. Roof construction is wooden roof framing and asphalt shingles and metal roof at the rear of the facility. The facility is in the middle of a residential neighborhood development and architecturally blends with the surrounding houses.

DRAFT REPORT





Poor metal roofing conditions

Kitchen renovation required



Poor lighting conditions



Poor finish conditions

Facility Outlook

The following charts depict the life cycle costs and FCI values over a 30 year outlook, including a six year building renovations improvement project cost matrix.

Station 203 1 inch equals 30 feet





STATION 203 FCI/LIFE CYCLE CHART PROJECTED ROLLING LIFE CYCLE COST Years 1-5 Years 6-10 Years 11-15 Years 16-20 Years 21-25 TOTAL Years 26-30 \$955.347 \$287,638 \$1,047,947 \$1,384,956 \$2,872,021 \$3,314,276 \$3,314,276 EPLACEMENT COSTS OUTLAYS **\$0 EXPENDITURE** REDUCED FCI POOR LEVEL AFTER 6 YEAR IMPROVEMENT COST OUTLAYS FOR FACILITY PROJECT RENOVATION **EXPENDITURE** a **REDUCED FCI** 4 LEVEL AFTER 0 LIFE CYCLE RENOVATION 60% FCI PERCENTAGE **EXPENDITURE 6 YEAR** \$3,314,276 IMPROVEMENT RENOVATION PROJECT TOTAL LIFE PROJECT 40% TOTAL CYCLE COST NEEDED \$389,712 PROJECTION TO REDUCE @ YEAR 30 FCI BELOW LIFE CYCLE GOOD COST 20% OUTLOOK LEVEL EXCELLENT 0% 2 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 3 4 5 NUMBER OF YEARS PROJECTED NOTE:

1. Facility Condition Index is the ratio of costs to renovate or repair vs. to replace with new as calculated below.

(FCI) = Deferred Maintenance + Capital Renewal

Current Replacement Value

2. Life cycle costs are based upon the value to replace the system that once the life of that system is over. Example: 20 year life span of a roof system and the cost to replace it in 20 years.

FIR STATION #203

RENOVATION COST MATRIX

Alexandria Fire Department - Alexandria, Virginia

	162	CA	PITA	AL IMP	ROVEM	ENTS - SI	X YEAF	ROUTL	OOK			Stand 1		Harrison and started
BASE YEA	RESTIMA	TE	San San	IL COLOR		NAM PARA	FILEHAS	Part of the	SIX YE	AR OUTLO	OK	The second	-247 B	and the second second
Project Description	Priority 1 - 5	UM	M Qty	Unit \$	Subtotal \$	Total \$ ESCALATED \$ 389,712	2009 1.00 \$ -	2010 1.03 \$-	2011 1.06 \$-	2012 1.09 \$ 389,712	2013 1.12 \$-	2014 1.15 \$-	Defered	Remarks
Replace Metal Roofing Demo New Roofing Replace Kitchen Replace Cabinets Demo New Cabinets Replace Appliances Demo New Appliances Replace Flooring Demo New Flooring Paint - Walls/Ceiling Walls Ceilings Boiler Replacement - Entire Facility Electrical	4 3 3 3 4 5	SF SF SF EA EA SF SF SF		\$ 4.60 \$ 4.70 \$ 63.27 \$ 200.00 \$1,047.87 \$ 12.69 \$ 1.74	\$ 5,062 \$ 1,175 \$ 15,817 \$ 1,200 \$ 6,287 \$ 14,775 \$ 75,015 \$ 10,272	\$ 6,712 \$ 16,992 \$ 7,487 \$ 89,790 \$ 22,463				 7,316 18,521 8,161 97,871 24,485 				Complete by 2009
Replace old wiring-Remove exposed/abandoned wiring from attic. Demo New Wiring Included with New Wiring Install new panels. additional receptacles should be installed. Replace Light fixtures with energy efficient fixtures. Replace exit lights Install smoke detectors in the 1st floor sleeping rooms. Electrical Systems Install a new generator Demo New generator Sitework Miscellaneous Site improvements.	5	SF SF EA EA		\$ 23.28 \$3,401.63	\$ 137,559 \$ 3,402 \$ 43,352	\$ 165,336 \$ 46,754 \$ 2,000				\$ 50,962 \$ 2,180				(Included) (Included) (Included) (Included) (Included)

Notes:

Cost estimate shows the following:

Project Elements.

Base Year Costs.

Distribution of costs

Differences are due to rounding Priority Rating 1 - 5

5- Life safety & building security.

Building sterior & primary systems.
 Building interior finishes and secondary systems.
 Supplemental systems.

1- Noncritical systems.







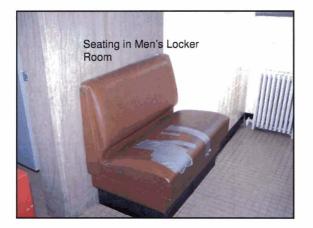






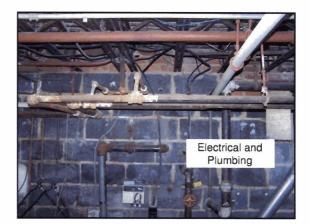


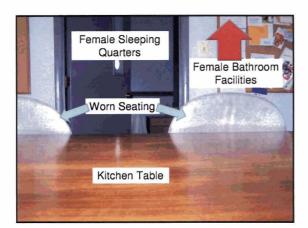






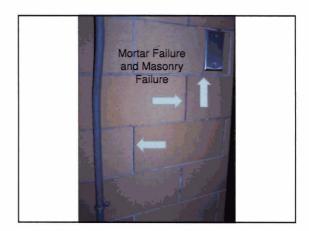






~

1

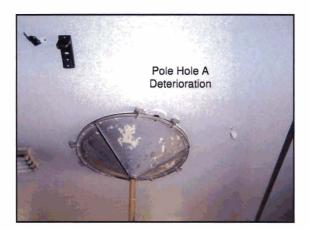


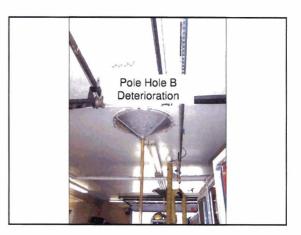








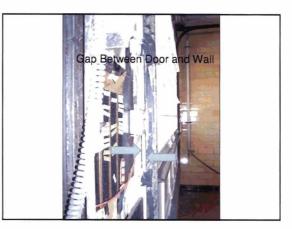






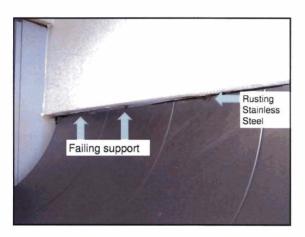






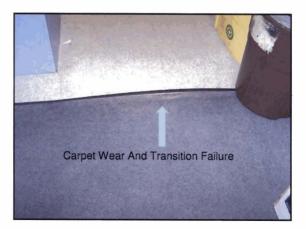








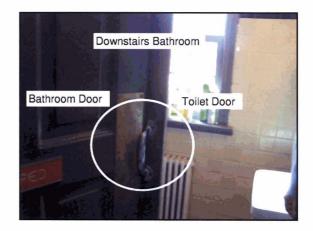








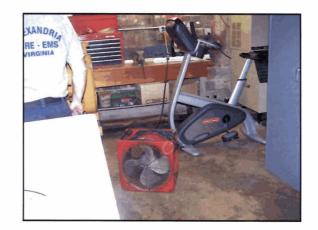


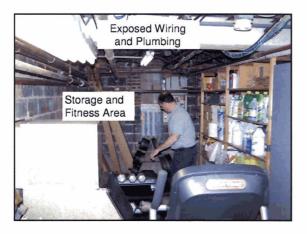


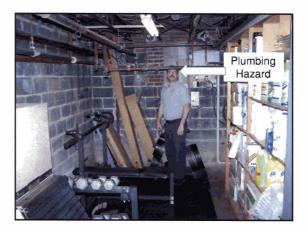












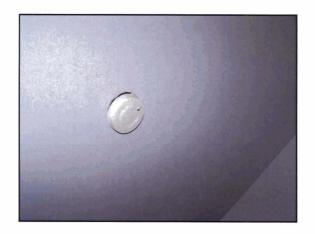










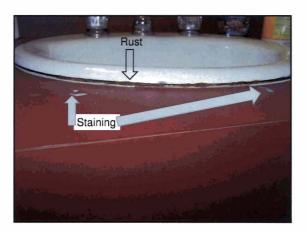






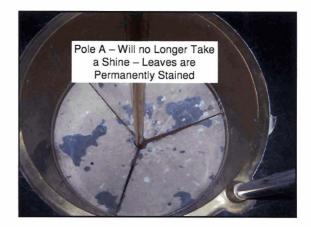




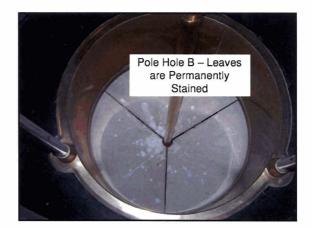




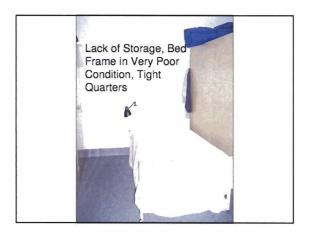






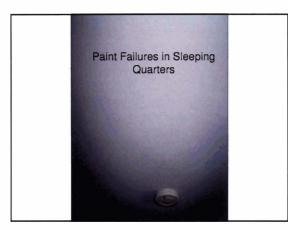


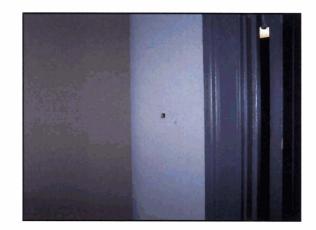










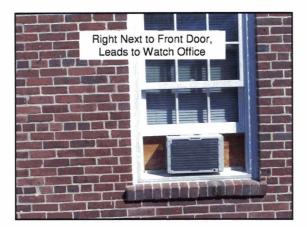


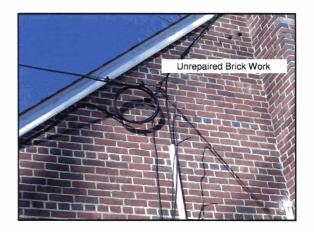


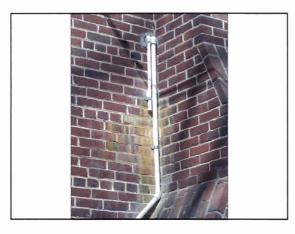








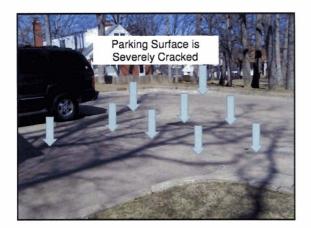






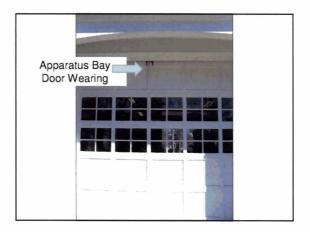
























Fire Station 204



Built in 1961 the facility went under a major expansion and renovation and is the current headquarters facility for the fire department. The site has shared insufficient off street parking. The fire station construction is brick masonry veneer construction.

Roof construction is a combination of flat membrane roofing and sloped asphalt shingle roofing.

Station 204 1 inch equals 40 feet



STATION 204 FCI/LIFE CYCLE CHART PROJECTED ROLLING LIFE CYCLE COST Years 1-5 Years 6-10 Years 11-15 Years 16-20 Years 21-25 Years 26-30 TOTAL \$3,152,022 \$947.669 \$3,797,227 \$6,888,882 \$7,234,740 \$7,234,740 EPLACEMENT COSTS OUTLAYS COST OUTLAYS FOR FACILITY **\$0 EXPENDITURE** LIFE CYCLE BUILDING SYSTEMS **REDUCED FCI** POOR (see Cost Assessment Matrix **LEVEL AFTER 6 YEAR** IMPROVEMENT PROJECT RENOVATION **EXPENDITURE** n \$7,234,740 LL TOTAL LIFE 0 CYCLE COST 60% 11 PROJECTION FCI PERCENTAG RENOVATION PROJECT NEEDED TO REDUCE FCI BELOW LIFE CYCLE COST OUTLOOK @ YEAR 30 **6 YEAR** IMPROVEMENT 40% PROJECT TOTAL LEVEL \$31,675 REDUCED FCI LEVEL AFTER GOOD 20% LIFE CYCLE RENOVATION **EXPENDITURE** EXCELLENT 0% 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 3 5 7 8 1 2 4 6 NUMBER OF YEARS PROJECTED NOTE:

1. Facility Condition Index is the ratio of costs to renovate or repair vs. to replace with new as calculated below.

(FCI) = Deferred Maintenance + Capital Renewal

Current Replacement Value

2. Life cycle costs are based upon the value to replace the system that once the life of that system is over. Example: 20 year life span of a roof system and the cost to replace it in 20 years.

TATION #204 FIR

RENOVATION COST MATRIX

Alexandria Fire Department - Alexandria, Virginia

BASE YEA	RESTIMAT		APIT	AL IMP	PROVEN	IENTS -	SIX YEA	AR OUT		YEAR OUT	LOOK	1000			
Project Description	Priority 1-5	UM	Qty	Unit \$	Subtotal \$	Total \$ ESCALATED	2009	2010	2011	2012	2013	2014		Defered	Remarks
	1.1.1.1.1.1.1		Barley.		A. B. Star	\$ 31,675		\$ -	s -	5 .	\$ -	\$	31,675	5 -	
Supplement / Modify 2nd Floor Heating & Cooling system Demo Add Heating and Cooling Sitework	4	SF SF	9,750 9,750			\$ 25,543 \$ 2,000						\$ \$	29,374 2,300		
Miscellaneous Site improvements.		SF	2,955	\$ 0.68	\$ 2,000										

Notes:

Cost estimate shows the following:

Project Elements. Base Year Costs.

Distribution of costs

Differences are due to rounding.

Priority Rating 1 - 5

5- Life safety & building security.

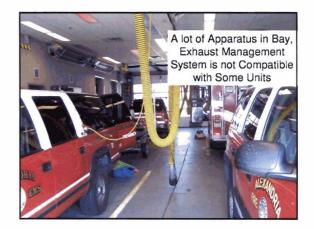
4- Building exterior & primary systems.
 3- Building interior finishes and secondary systems.

2- Supplemental systems.

1- Noncritical systems.



.















Fire Station 205



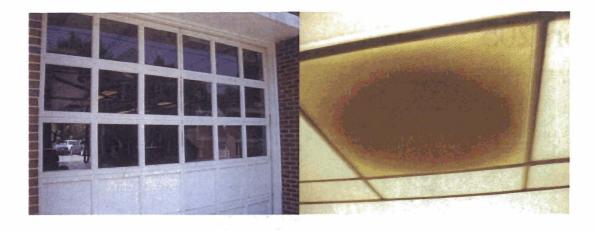
Built in 1949 the facility is located on Cameron St and has very limited street parking at the rear of the facility. The fire station construction is brick masonry construction.

Flat built-up roof construction with a small deck area off the kitchen is provided. A new green roof project is planned for to be constructed in the near future





DRAFT REPORT



Poor finish conditions

Overhead door replacement needed

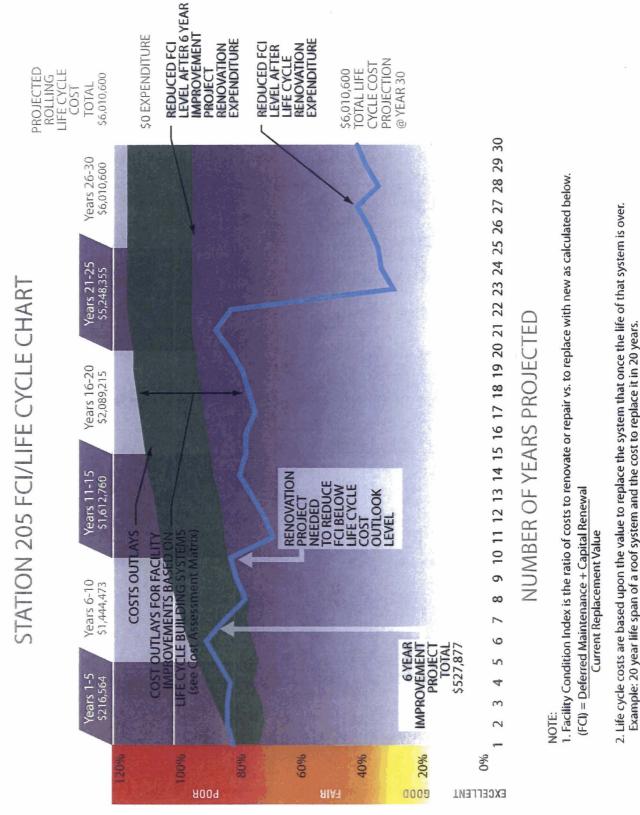


Water penetration

Insufficient emergency power

Facility Outlook

The following charts depict the life cycle costs and FCI values over a 30 year outlook, including a six year building renovations improvement project cost matrix.



FCI PERCENTAGE OF REPLACEMENT

TATION #205 FIR

RENOVATION COST MATRIX

Alexandria Fire Department - Alexandria, Virginia

	CAPITAL IMPROVEMENTS - SIX YEAR OUTLOOK BASE YEAR ESTIMATE SIX YEAR OUTLOOK														State States			
BASE YEA								No. of the second	CLERK STATE TANK PR									
Project Description	Priority			E COL IN	1	1000	ST WARTER		2009		2010		2011	2012	2013	2014	Defered	Remarks
i reject bescription	1-5	UM	Qty	Unit \$	S	ubtotal \$	ESCALAT	ED	1.00		1.03	12.3	1.06	1.09	1.12	1.15	ALC: THE P	
	The second second		22			- Link	\$ 527,8	B77 \$	211,211	\$	104,074	\$	62,650	5 -	\$ 132,641	\$ 17,301	\$.	
Repair Exterior Envelope - Water Penetration	4						\$ 18,1	60 0	18,152									
Power Wash Exterior Surfaces	*	SF	8,140	\$ 0.75	¢	6,105	φ 10,1	52 5	10,152									
Patch and Point Brick		SF	8,140			7,977		1				1			1			
Paint and Seal		SF	8,140			4.070												
Replace Overhead Doors	4	0.	0,110	¢ 0.00	9	4,070	\$ 27,2	89				S	28,926					
Demo	2	EA	3	\$ 250.00	S	750	ψ 11,1			1		1	20,520					
New Overhead Doors		EA		\$ 8,846.35		26,539		- 1		1		1						
Replace Roofing - Water Remediation	4		0	¢ 0,040.00	Ψ	20,000	\$ 56.7	36 \$	56.736						1			
Replace Roofing		SF	3,940	\$ 14.40	\$	56,736	¢ 00,1		00,700			1				1		
Remove Hazardous Materials Asbestos - Hose tower stairs	5		0,040	• 14.40	Ψ	50,750	\$ 3.6	65 \$	3,665	1						1		
Remove Asbestos		SF	3,940	\$ 0.93	\$	3,665	J 3,0		0,000	1								
aint interior walls/ceilings	3		0,040	¢ 0.00	φ	5,005	\$ 30,9	139		1		S	33,724					
Walls	5	SF	8,140	\$ 1.74	e	14,148	ψ 30,5			1		\$	33,124					
Ceilings		SF	8,140			16,791				1		1				1		
teplace Flooring	3	5	0,140	φ 2.00	Φ	10,791	\$ 109.4	25		1					\$ 122.556			
Demo	5	SF	8.140	\$ 0.75	¢	6,105	\$ 109,4	25		1					\$ 122,556			
										1								
New Flooring		SF	8,140	\$ 12.69	Ф	103,320				1	10.001	1				1		
eplace Water Distribution System	4	0.00					\$ 44,7	51		\$	46,094			}				
Demo	1	SF	8,140			6,105		- 1				1						
New Water Distribution System		SF	8,140	\$ 4.75	\$	38,646						1						
Replace sanitary sewer - Drain/Waste/Vent	4						\$ 56,2	291		\$	57,980					1		
Demo		SF	8,140			6,105		- 1										
New Sanitary Sewer System		SF	8,140	\$ 6.17	\$	50,186										1		
Replace HVAC - EMS quarters	4	1					\$ 24,8	387 \$	24,887	1		1			1			
Demo		SF	1,500			1,125		- 1							1			
New HVAC		SF	1,500	\$ 15.84	\$	23,762		- 1		1		1			1	1		
Replace HVAC - Officers quarters	4						\$ 16,5	591 \$	16,591	1					1			
Demo		SF	1,000			750										1		
New HVAC	1	SF	1,000	\$ 15.84	\$	15,841						1						
Replace Controls	4						\$ 21,6	646 \$	21,646									
Demo		SF	8,140	\$ 0.75	\$	6,105		- 1							1			
New Controls		SF	8,140	\$ 1.91	\$	15,541										1		
teplace hydronic Piping	4						\$ 13,0	18 \$	13,018									
Demo		SF	8,140	\$ 0.75	\$	6,105												
New Piping		SF	8,140	\$ 0.85	S	6,913				1								
nstall Smoke Detectors	5	100785.1				-,-,0	\$ 6	587 \$	687	1								
New Smoke Detectors		EA	4	\$ 171.80	S	687				1								
Replace Light Fixture Lenses	1						\$ 15,0	45		1					1	\$ 17,301		
New Lenses		SF	8,140	\$ 1.85	\$	15,045				1						1		
nstall a new generator	5	0	5,140	• 1.00			\$ 55.8	328 \$	55.828	1					1	1		
Demo		EA	1	\$ 3,401.63	\$	3,402	- 55,0	~ *	00,020	1						1		
New Generator		EA		\$ 52,426.86		52,402				1						1	1	
leplace Concrete - Front ramp	4	1 -	1	ψ JZ1420.00	Φ	52,427				1								Complete by 2009
leplace Sanitary Line	4						\$ 9.0	0.5		1					\$ 10.085			complete by 2009
Demo		SF	8,140	\$ 0.50	¢	4,070	≠ 9,0			1					10,000			
		SF	8,140			4,070				1				1				
New Sanitary Line		5	0,140	0.01	Ð	4,935				1		1				1		

Notes:

Cost estimate shows the following:

Project Elements.

Base Year Costs

Distribution of costs

Differences are due to rounding.

Priority Rating 1 - 5

5- Life safety & building security.

4- Building exterior & primary systems.

Buiding interior finishes and secondary systems.
 Supplemental systems.

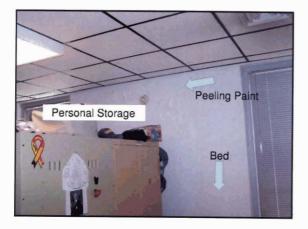
1- Noncritical systems.

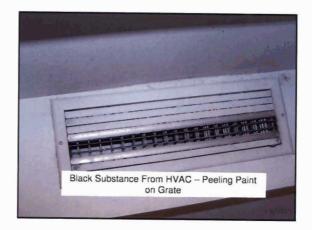




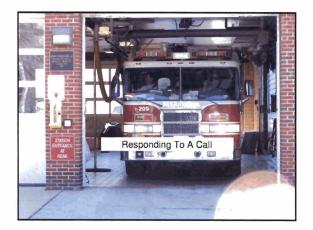










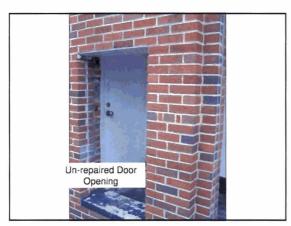


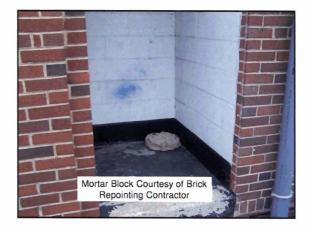




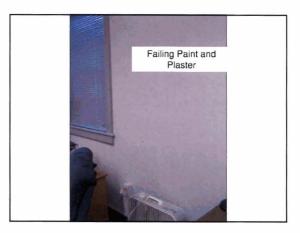


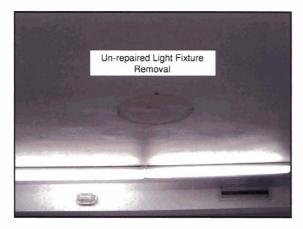


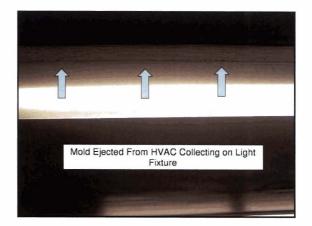


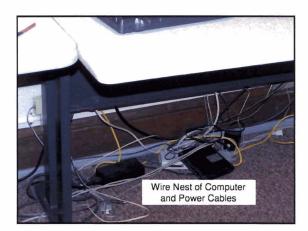


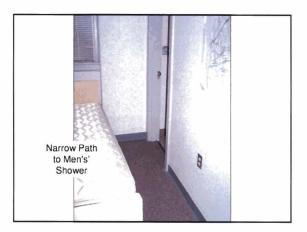




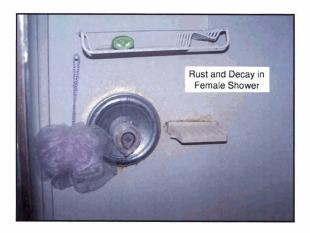






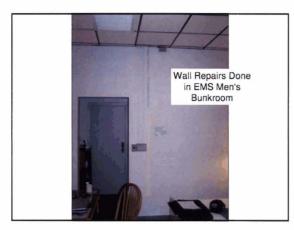








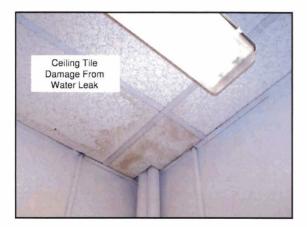


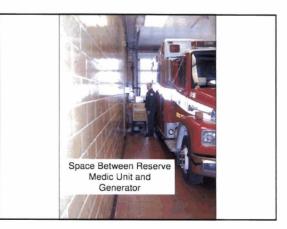


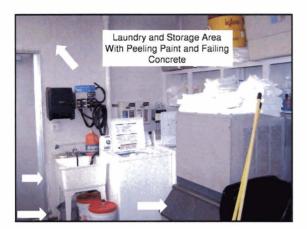




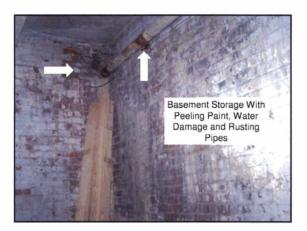
















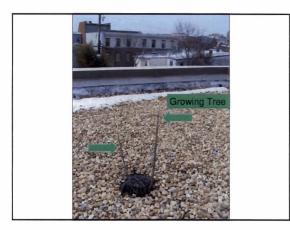


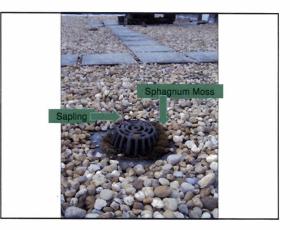










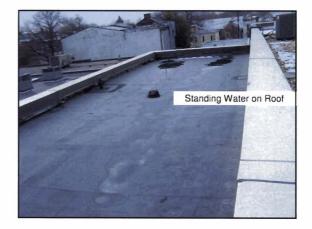


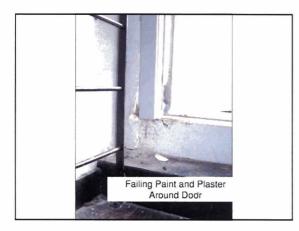
r -

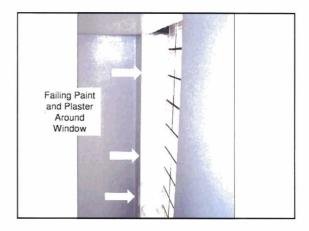






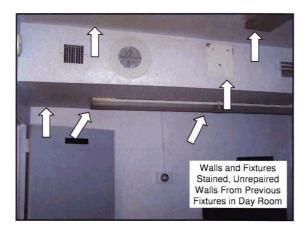








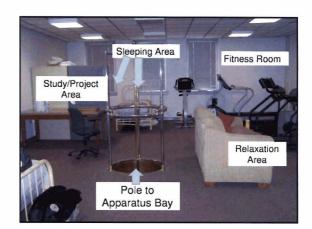


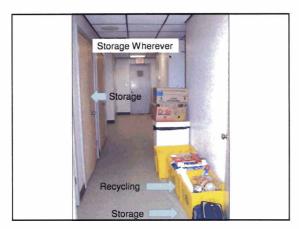


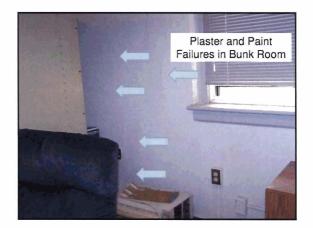
-





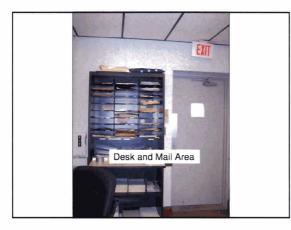






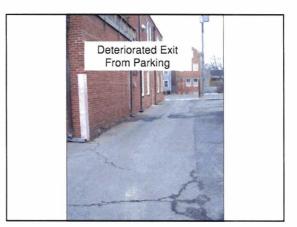




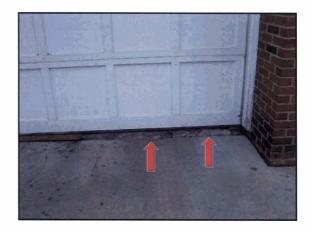






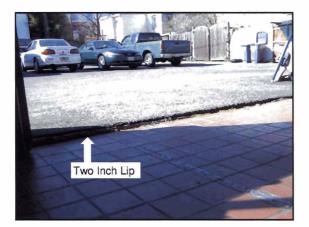












DRAFT REPORT

Fire Station 206



Built in 1958 the facility is located on Seminary Road and has some parking at the rear of the facility. The fire station construction is brick masonry construction.

Low sloped EPDM roof construction with small built up roof areas are provided. Restoration of the brick in some locations is required due to expansion and contraction at the connection to the roof construction.

DRAFT REPORT



Poor restroom conditions

Poor exterior door conditions



Interior conditions

Masonry repair required

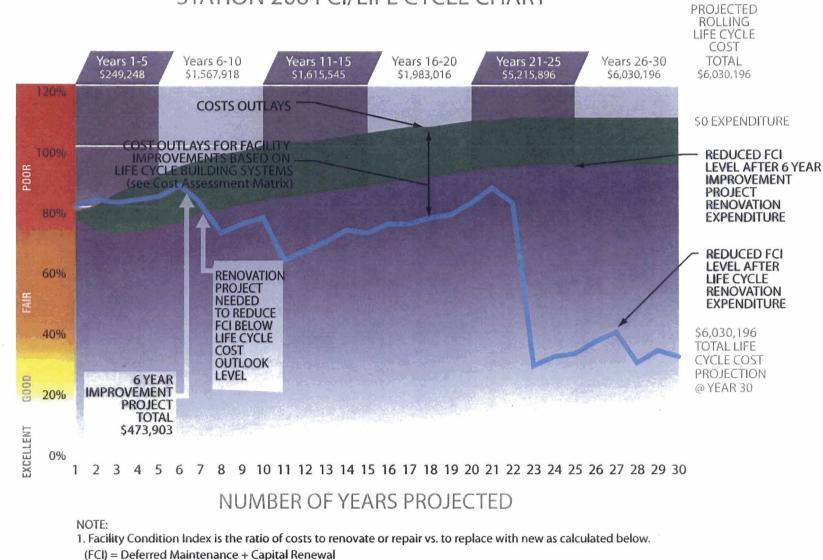
Facility Outlook The following charts depict the life cycle costs and FCI values over a 30 year outlook, including a six year building renovations improvement project cost matrix.

Station 206 1 inch equals 35 feet





FCI PERCENTAGE OF REPLACEMENT



STATION 206 FCI/LIFE CYCLE CHART

2. Life cycle costs are based upon the value to replace the system that once the life of that system is over. Example: 20 year life span of a roof system and the cost to replace it in 20 years.

Current Replacement Value

FIR TATION #206

RENOVATION COST MATRIX

Alexandria Fire Department - Alexandria, Virginia

CAPITAL IMPROVEMENTS - SIX YEAR OUTLOOK BASE YEAR ESTIMATE															England Jack Capital			
BASE YEAR ESTIMATE									N. Sandara	and the second second								
Project Description	Priority	UM	Qty	Unit \$	N. S. C. S. L. S. L. S.	Total \$		2009		2010	2011		2012	2013	2014	Defered	Remarks	
	1 - 5				Sul	Subtotal \$	ESCALATED		1.00	1.03	1.00		1.09	1.12	1.15	Service of		
					1,000		\$ 473,90	3 \$	91,732	5	155,937	\$ 108	,590	\$ 57,246	\$ 48,67	\$ 11,730	\$ -	
Repair Exterior Envelope - Water Penetration	4						\$ 18.57	6 5	18,576									
Power Wash Exterior Surfaces		SF	8,330	0.75	S	6,248		1										
Patch and Point Brick		SF	8,330			8,163												
Paint and Seal		SF	8,330			4,165		1						- 1				
Masonry Repair	4						\$ 14,25	8 8	14,258									
Replace Masonry - Partial		SF	2,500	5.70	S	14,258	,	1										
Replace Overhead Doors	4		-,		Ŷ		\$ 28,15	9				\$ 29	848					
Demo		EA	4 5	250.00	\$	1,000	4 20,10	1	1			φ 20	0.0					
New Overhead Doors		EA		6,789.63		27,159			1		3					1		
Restroom Renovation	3			5,100.00			\$ 52,51	9						\$ 57,246		1		
Demo	-	SF	8,330	0.75	\$	6,248	÷ 02,01	~ I	1					÷ 01,240				
Renovate Restroom		SF	500			46,271												
Paint interior walls/ceilings	3		500	02.04	¢		\$ 31,66	1			3		1		\$ 35,46			
Walls		SF	8,330	1.74	¢	14,479	\$ 51,00	1	1				1		\$ 55,40			
Ceilings		SF	8,330			17,183										1		
Replace Water Distribution System	4	51	0,550	2.00	Ð		\$ 45,79			s	47,169							
Demo	7	0.5	0.000	0.75	¢	6,248	\$ 45,15	٩		3	47,109					1		
		SF	8,330						1							1	1 1	
New Water Distribution System		SF	8,330	4.75	\$	39,548			1							1 .		
Replace sanitary sewer - Drain/Waste/Vent	4	0.5					\$ 57,60	5		\$	59,333							
Demo		SF	8,330			6,248			1									
New Sanitary Sewer System		SF	8,330 \$	6.17	\$	51,358			1							1		
Replace Plumbing Fixtures	4						\$ 47,99	4		S	49,434		- 1				1 1	
Demo		SF	8,330			6,248										1		
New Plumbing Fixtures		SF	8,330	5.01	\$	41,747			1									
Replace Boiler	4						\$ 38,81	2	1		3	\$ 41	140					
Demo		SF	8,330 \$			6,248												
New Boiler		SF	8,330 \$	3.91	\$	32,564			1				1					
Replace Hydronic Piping	4						\$ 13,32	2				\$ 14	121					
Demo		SF	8,330 \$			6,248												
New Piping		SF	8,330 \$	0.85	5	7,074												
Replace Controls	4						\$ 22,15	1				\$ 23	480					
Demo		SF	8,330 \$	0.75	\$	6,248												
New Controls		SF	8,330 \$			15,904												
nstall exits lights as per code	5						\$ 1.84	6 9	1,846									
Demo		EA	6 5	75.00	S	450	1,04	1										
New Exit Lights		EA	6 5			1.396												
nstall a new generator	5				v		\$ 57.05	2 8	57,052		3							
Demo		EA	1 9	3,401.63	\$	3,402		- *	01,002									
New Generator		EA		53,650.59	1.5	53.651			1									
Replace Concrete - Front ramp	1	EA	1.3	553,050.59	*		\$ 10,20									\$ 11,730		
Ceptace Concrete - Front ramp Demo	1	SE.	1 200	2.60	6		TU,20	0					1			\$ 11,730		
		SF SF	1,200 \$			3,000												
New Front ramp		SF	1,200 \$	6.00	\$	7,200		. [1									
Resurface Asphalt Parking Lot	1	0.5	0.000				\$ 11,79	4							\$ 13,209	1		
Resurface		SF	8,330	1.42	\$	11,794												

Notes:

Cost estimate shows the following:

Project Elements.

Base Year Costs.

Distribution of costs

Differences are due to rounding.

Priority Rating 1 - 5

5- Life safety & building security.

Building exterior & primary systems.
 Building interior finishes and secondary systems.

2- Supplemental systems

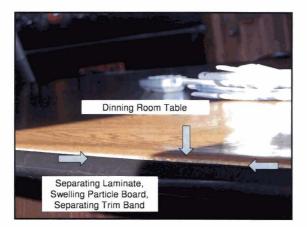
1- Noncritical systems













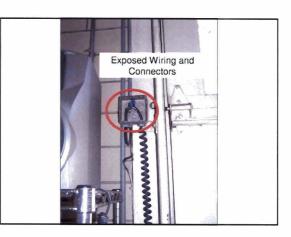




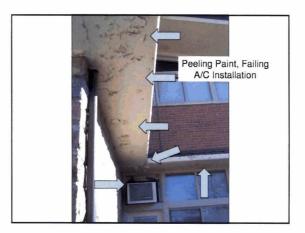










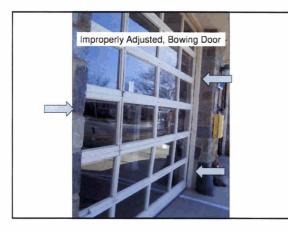




 \frown

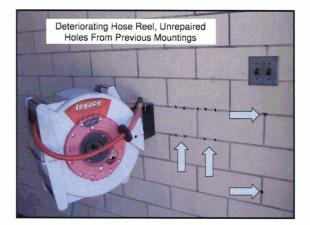
 \frown



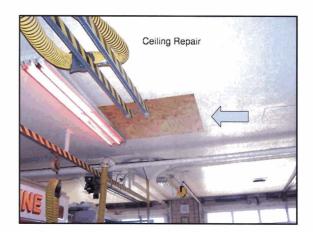






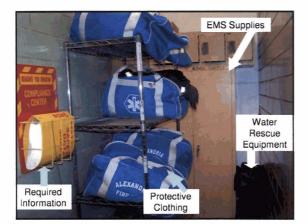
















~





