Fire Station 207



Built in 1963 the facility is located on Duke St and has very limited parking at the rear of the facility. The fire station construction is brick masonry construction. Roofing consists of EPDM construction with a mansard style slate roof over the vehicle bay area. A video study of the sanitary line should be conducted to determine the extent of sewer issues at the facility.

DRAFT REPORT



Spalling masonry

Kitchen remodel needed



Water penetration

Roof ponding conditions

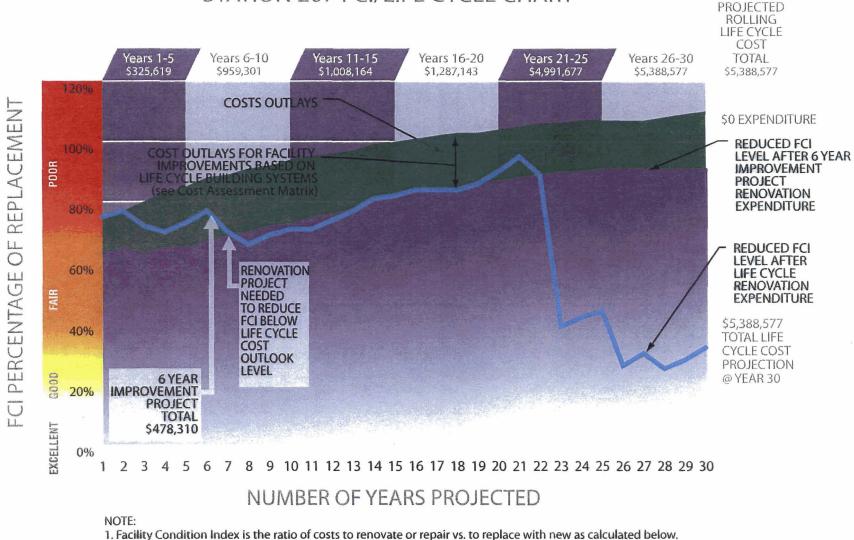
Facility Outlook

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 207 1 inch equals 35 feet







STATION 207 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.

(FCI) = <u>Deferred Maintenance + Capital Renewal</u> Current Replacement Value

FIR **TATION #207 RENOVATION COST MATRIX**

Alexandria Fire Department - Alexandria, Virginia

Priority 1-5	E			HE 20	C. C. C. S.		I NAME	AL DATES	REAL PROPERTY.	10000	CIV	VEAD OUT	100	N.	the state of the state of the state	Standard Street Street	and the second se			
	101-15	All states and states							SIX YEAR OUTLOOK											
1-5		STATISTICS.		1		Total \$		2009	2010		2011	2012		2013	2014	Defered	Remarks			
	UM	Qty	Unit \$	Subtota		ESCALATED		1.00	1.03		1.06	1.09		1.12	1.15	1 - Carlos				
	-			and a set of the	\$	478,310	5	270,840	\$ -		\$ 119,56	7 5 -	5	64,206	\$ 23,697	\$ -				
4					e	16 201		16 201												
	SE	7 350	\$ 0.75	\$ 55		10,551	ľ	10,551												
							1													
· · · ·							1													
4	10.	1,000	¢ 0.00	v 0,0		14 258	s	14 258				1			1					
	SE	2,500	\$ 5.70	\$ 14.2		11,200	ľ	14,200								1				
4	· · ·		• ••••	φ 14,2	50 S	24 463	1				25.95	1								
	FA	2	\$ 250.00	\$ F	00	24,405	1			- 11	20,00	·				1 1				
1							1													
4		-	• 11,001.10	φ 20,0		30 100	1	1					0	22 017		1 1				
1	FA	30	\$ 50.00	\$ 15	-	50,155	1					1	l°.	52,917		1 1				
				• • • • • •			1			- 1					1	1 1				
3	100	00	\$ 550.04	\$ 20,0	99		Ł									1 1				
	1				e	20.945				- 14	22.00				1					
	SE	250	\$ 4.70	¢ 11		20,045	1				\$ 22,05	°								
							1		1 A						1					
1	1.	200	\$ 70.00	\$ 19,0			1									1 1				
	1	0	¢ 000.00			6,413	1			- 11	6,79	8				1 1				
							1									1				
	EA	D	\$ 868.79	\$ 5,2		4 550	1	1		1			1			1 1				
	0	000	¢ 0.50			4,558	1				4,831.3	2			1	1 1				
1							1									1 1				
	SF	300	\$ 12.69	\$ 3,8			1									1				
3	0.5	7.050	C 474		-	27,937	1					1	\$	31,289		1 1				
							1					1				1 1				
	SF	7,350	\$ 2.06	\$ 15,1			1			1										
3					-	50,828	1			- 13	53,87	8			1					
							1			- 1		1								
	SF	7,350	\$ 6.17	\$ 45,3	16		1									1 1				
3	1				\$	189,451	\$	189,451				1				1 1				
							1								1	1 1				
1							1			- 1						1 1				
	SF	7,350	\$ 12.32	\$ 90,5	63		1													
5						50,740	\$	50,740												
	EA	1	\$ 3,401.63	\$ 3,4	02		1													
	EA	1	\$47,338.75	\$ 47.3	39		1									1 1				
1						10,200	1								\$ 11,730	1 1				
	SF	1,200	\$ 2.50	\$ 3,0	00		1									1 1				
	SF	1,200					1									1				
1						10,406	1								\$ 11.967	1 1				
1	SF	7,350	\$ 1.42	\$ 10.4		,	1								1,007	1				
4					s	5,691	1				6 01	3				1 1				
	SF	7.350	\$ 0.50	\$ 36	75	2,501	1				0,00	~								
							1									1 1				
	1	SF SF SF SF SF SF SF SF SF SF SF SF SF S	SF 7,350 4 SF 7,350 4 SF 7,350 4 SF 7,350 4 SF 2,500 4 EA 2 4 EA 2 4 EA 30 3 SF 250 EA 6 SF 300 3 SF 7,350 5 EA 1 1 SF 1,200 5 EA 1 1 SF 7,350 5 EA 1 1 SF 1,200 1 SF 7,350 4 SF 7,350	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			

Notes:

Cost estimate shows the following:

Project Elements.

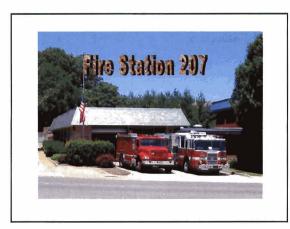
Base Year Costs.

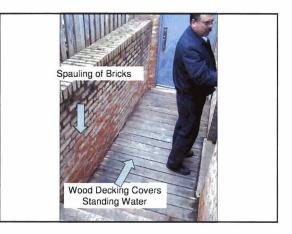
Distribution of costs

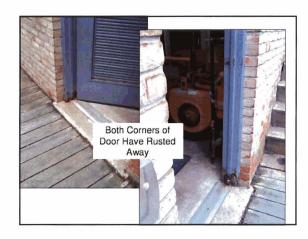
Differences are due to rounding.

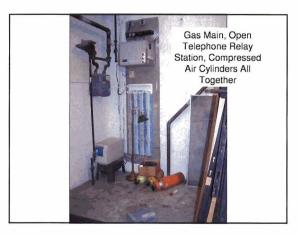
Priority Rating 1 - 5

triority Rating 1 - 5
Life safety & building security.
Building exterior & primary systems.
Building interior finishes and secondary systems.
Supplemental systems.
Noncritical systems.

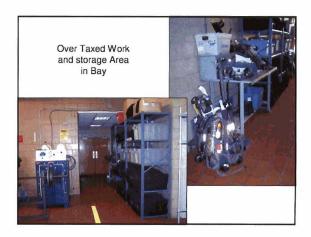


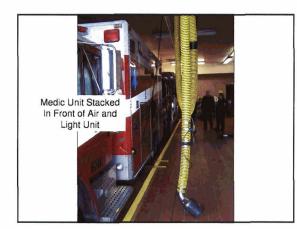


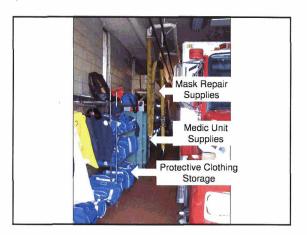


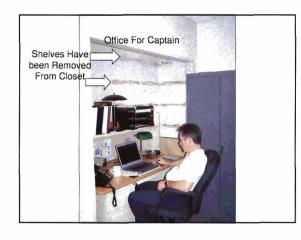


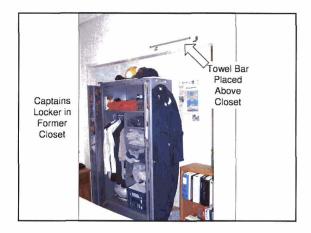


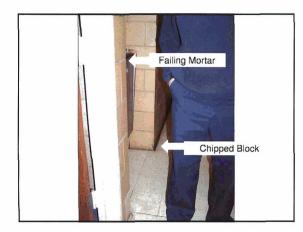


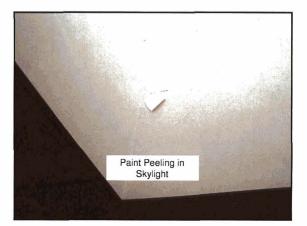






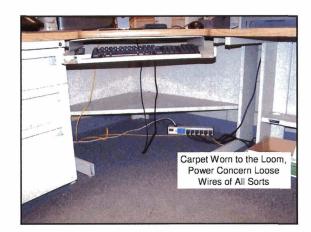




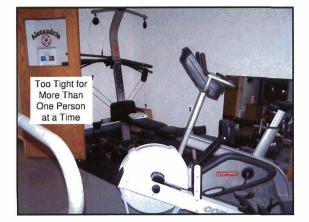


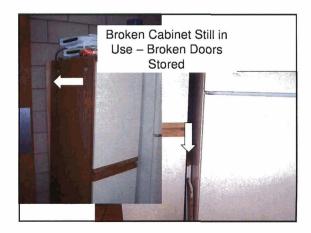




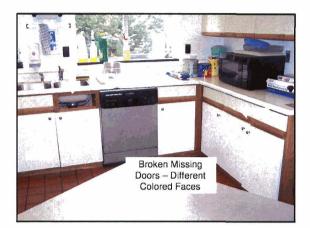






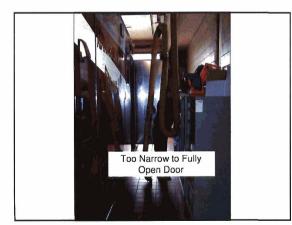












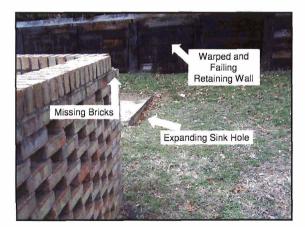


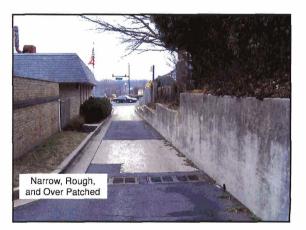


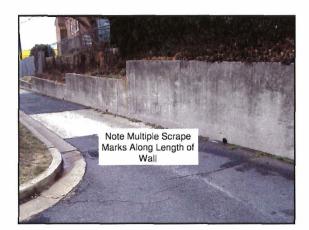










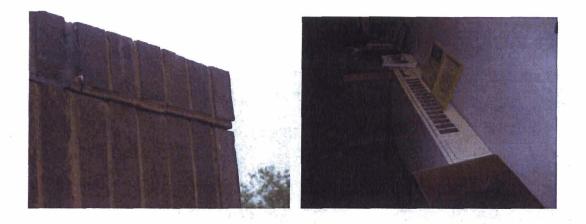


Fire Station 208



Built in 1976 the facility is located on Duke St and has very limited parking at the rear of the facility. The fire station construction is brick masonry construction. Roofing consists flat built–up roof membrane construction.

DRAFT REPORT



Masonry decay

HVAC issues



Paving issues

Exterior decay

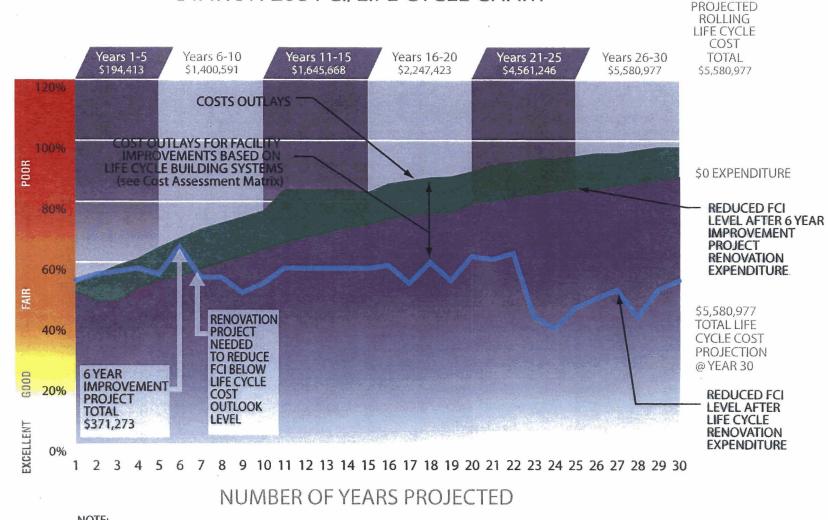
Facility Outlook The following charts depict the life cycle costs and FCI values over a 30 year outlook, including a six year building renovations improvement project cost matrix.

Station 208 1 inch equals 35 feet





REPLACEMENT FCI PERCENTAGE OF



STATION 208 FCI/LIFE CYCLE CHART

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.



Alexandria Fire Department - Alexandria, Virginia

CAPITAL IMPROVEMENTS - SIX YEAR OUTLOOK												Colores Calles Street										
BASE YEA	BASE YEAR ESTIMATE												SIX YEAR OUTLOOK									
Project Description	Priority	1 SKR	NAME OF	Section 1		A Stall House	Total \$		2009		2010		2011	2012		2013		2014	Defered	Remarks		
r toject beactiption	1-5	UM	Qty	Unit \$	S	Subtotal \$	ESCAL	ATED	1.	.00	12.00	1.03	1.06		1.09		1.12	1.15		Restaura Langer		
	Number		12		1	The rate of the	\$ 37	1,273	\$ 1	18,099	5	187,287		5	6,053			\$ 11,730	s .			
Repair Exterior Envelope - Water Penetration	4							5 400		05 400												
Power Wash Exterior Surfaces	-	CE	11,300	\$ 0.76	5 \$	0 475	\$ 2	5,199	э.	25,199												
Patch and Point Brick			11,300		3 \$	8,475 11,074		- 1														
Paint and Seal			11,300			5,650		- 1														
Masonry Repair	4	51	11,500	\$ 0.50) Þ	5,650	S 1	4,258	e .	14,258												
Replace Masonry - Partial	-	SF	2,500	S 570	\$	14,258	\$ 1	4,200	Φ	14,200												
Paint interior walls/ceilings	3	J SF	2,000	\$ 5.70	Ð	14,200	e 1	2,950								s	40 104					
Walls	1	CE.	11,300	6 174	\$	19,641	ə 4	2,950						1		\$	48,104					
Ceilings	1		11,300		5 5			- 1		1				1								
Replace Chiller	4	SF	11,500	\$ 2.00	> >	23,309	\$ 5	0,672			S	52,192		1								
Demo	-	CE.	11,300	\$ 0.76	5 \$	8,475	\$ 3	0,072			Ð	52,192										
New Chiller			11,300		3 5			- 1		1				1								
Replace Fan Coil Units	3	SF	11,500	\$ 5.13	\$	42,197	\$ 10	1,112			s	104,145				1						
Demo	3	SE	11,300	¢ 0.75	5 \$	0 475	\$ 10	1,112			Ð	104,145										
New Fan Coil Units			11,300		5			1														
Replace Controls	3	SF	11,300	\$ 0.20	Ð	92,637	\$ 3	0,049			\$	30,951										
	3	0.5				0 475	ə 5	0,049			Э	30,951										
Demo			11,300		5 \$			- 1														
New Controls		SF	11,300	\$ 1.91	5	21,574			-							1						
Replace Exit Lights	5		0	0 75 00			\$	2,461	\$	2,461												
Demo		EA		\$ 75.00		600		- 1									÷.					
New Exit Lights		EA	8	\$ 232.64	\$	1,861				1				1.0		1						
Repair service trough	4	-				-	\$	2,500						15	2,725							
Repair trough		EA	1	\$ 2,500.00	5	2,500								1.0				9				
Replace bathroom/shower lights with flourescent fixtures	1	1					\$	3,328		1				\$	3,328							
Demo		EA		\$ 75.00		600		- 1						1								
New Bathroom Lights		EA	8	\$ 341.00	\$	2,728		1														
install a new generator	5						\$ 7	6,181	\$	76,181												
Demo		EA		\$ 3,401.63		3,402								1								
New Generator		EA	1	\$72,779.31	\$	72,779																
Replace Concrete Apron	2						\$ 1	0,200						1				\$ 11,730				
Demo		SF	1,200			3,000																
New Concrete Apron		SF	1,200	\$ 6.00) \$	7,200																

Notes:

Cost estimate shows the following:

Project Elements.

Base Year Costs.

Distribution of costs

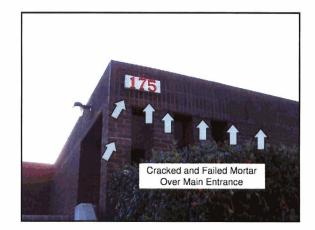
Differences are due to rounding.

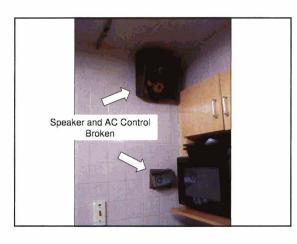
Priority Rating 1 - 5 5- Life safety & building security. 4- Building exterior & primary systems.

3- Building interior finishes and secondary systems.

Supplemental systems.
 Noncritical systems.









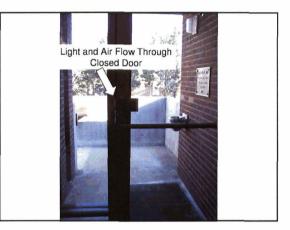


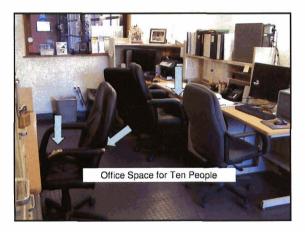


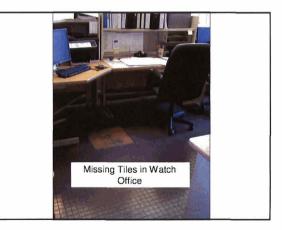


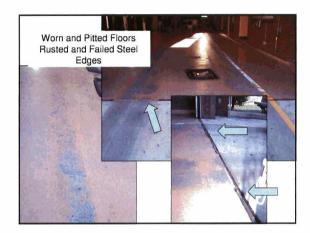


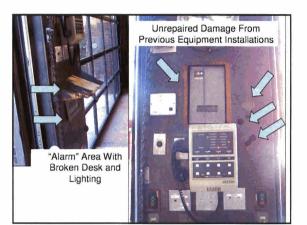


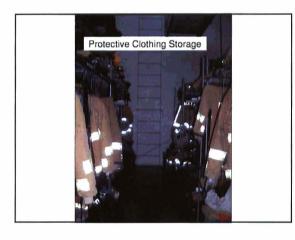




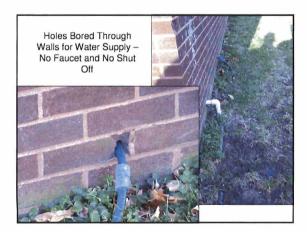






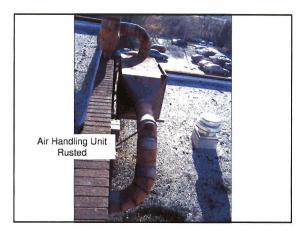


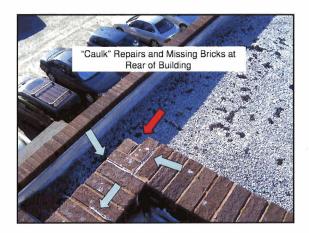


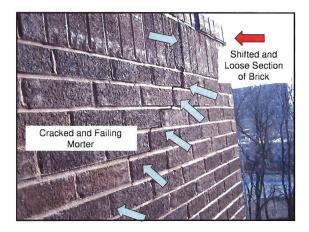


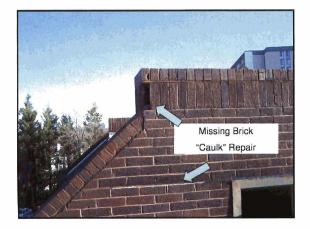
Unknown Stain On Brick

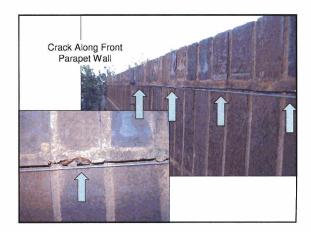




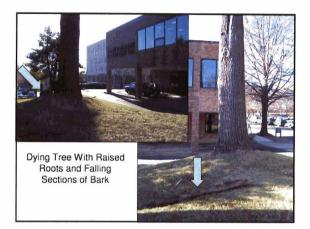


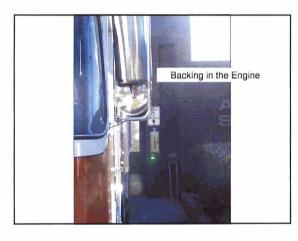


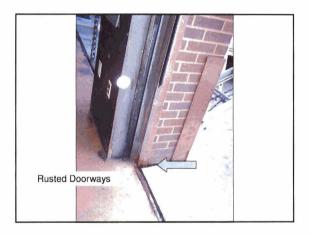


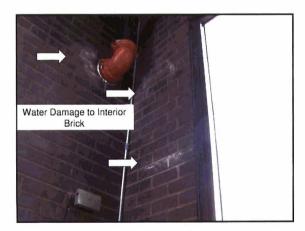


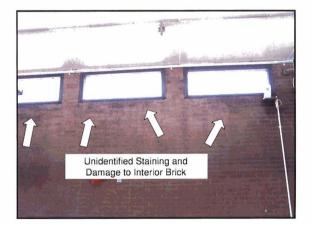


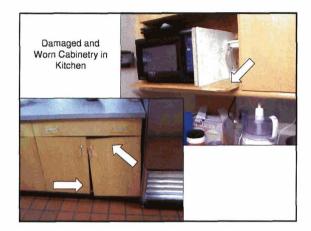


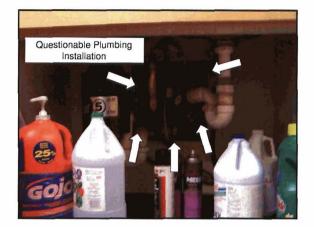


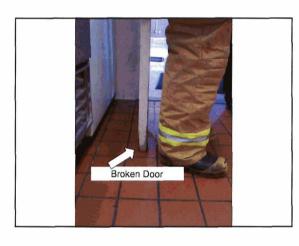


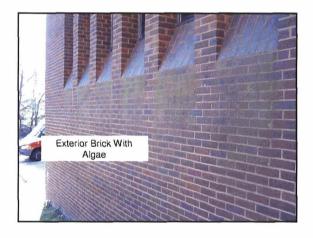


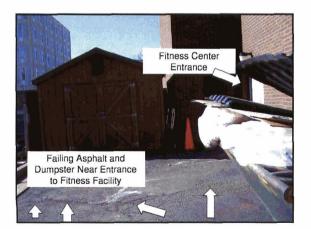


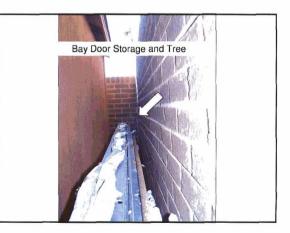




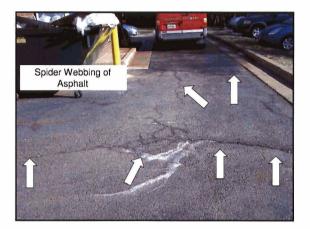




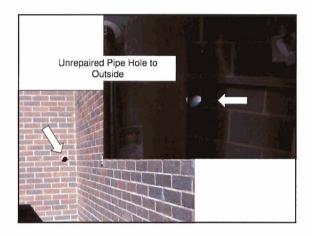


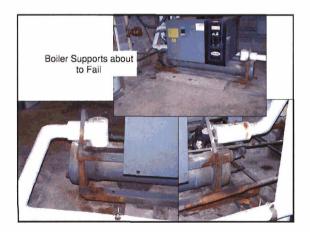












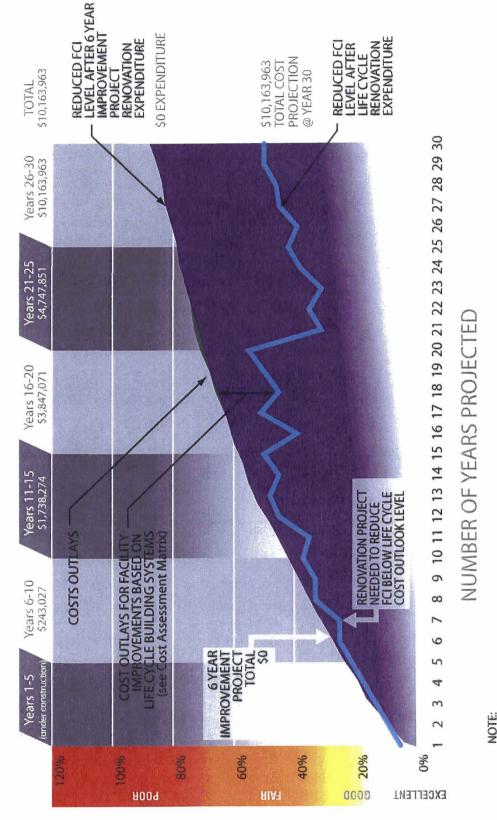


Fire Station 209

Fire station 209 is a 5 bay fire station that occupies the first floor of a multi use building that is under construction. Construction is estimated to be completed in 2009.

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 209 FCI/LIFE CYCLE CHART

PERCENTAGE OF REPLACEMENT ECI . 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

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.

FIRESTATION #209



RENOVATION COST MATRIX

Alexandria Fire Department - Alexandria, Virginia

CA	PITAL I	MPROVE	MENTS	S - SIX Y	EAR O	UTLOO	K							
BASE YEAR ESTIMATE				SIX YEAR OUTLOOK										
Project Description	Priority	Total \$	2009	2010	2011	2012	2013	2014	Defered	Remarks				
	1-5	ESCALATED	1.00	1.03	1.06	1.09	1.12	1.15						
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	5 -	\$ -					
(New Building-No Improvement Projects Required)														
					l l	÷								
	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.

3- Building interior finishes and secondary systems.

2- Supplemental systems.

1- Noncritical systems.