FACILITIES MAINTENANCE MANAGEMENT

Roofing - life cycle cost analysis

Projected Inflation Per Year

3.50% unless noted below

	ig ino oyolo oodi ahal	,				i iojecieu iiiialio		0.0070	unicas noteu bei	•		
AREA	DESCRIPTION	Yr Completed	SqFt	Est Total Replacement Cost Based on Yr 2009		Est Annual Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost
4												
1	K Wing	2012	12,928	\$125,372	20	\$6,269	\$0		\$0		\$0	\$0
1	G Wing	2012	29,049	\$281,709	20		\$0					\$0
1	M Wing	2012	13,725	\$133,101	20		\$0		\$0			
1	Z Wing - Garage	2012	11,282	\$109,410	20		\$0		· ·		· ·	· ·
1	Z Wing - Garage	2012	864	\$8,379	20	\$419	\$0		\$0		\$0	\$0
2	C Wing - Mechanical Room	2012	485	\$4,703	20		\$0				\$0	\$0
3	H/J Hall	2005	15,999	\$155,154	20		\$0					
3	H Wing	2005	7,742	\$75,080	20		\$0					\$0
3	J Wing	2005	16,798	\$162,902	20		\$0					7 -
4	P Wing - Pool	2003	25,674	\$248,979	20		\$0		\$0			\$0
4	P Wing Hall	2003	1,376	\$13,344	20		\$0					\$0
4	P Wing - Gym	2003	9,548		20		\$0					\$0
4	P Wing East	2003	5,520	\$53,531	20	\$2,677	\$0		\$0		. ,	\$0
4	P Wing North	2003	1,137	\$11,026	20		\$0					\$0
4	P Wing West	2003	5,520	\$53,531	20	. ,	\$0				. ,	\$0
5	N Wing Court Elevator	2003	453	\$4,393	20		\$0					
5	N Wing - Pioneer Gym	2003	31,074	\$301,347	20		\$0					\$0
5	N Wing Hall	2003	28,657	\$277,907	20		\$0					\$0
6	B Walkway	2007	846	\$8,204	20		\$0		\$0		·	\$0
6	C Wing	2007	5,926	\$57,469	20		\$0					
6	D Wing Hall	2007	7,375	\$71,521	20	\$3,576	\$0				·	
6	G Wing	2007	4,647	\$45,065	20	\$2,253	\$0					
6	B Wing & Hall	2007	14,571	\$141,305	20		\$0		· ·		·	
6	B Wing West	2007	11,108	\$107,722	20		\$0					\$0
6	B Wing	2007	3,895	\$37,773	20		\$0					
6	D/E Connector/East	2007	1,019		20		\$0					
6	C/D Connector/East	2007	858	\$8,321	20	\$416	\$0			\$0	\$0	
6	C/D Wing Main Hall	2007	4,036	\$39,140	20		\$0	\$0	\$0	\$0		
7	L Wing	2003	19,441	\$188,533	20	. ,	\$0	\$0	\$0	\$0		\$0
7	L & M Wing Addition - Tech Area	2003	56,299	\$545,972	20		\$0		'			\$0
7	S Wing - Fine Arts Bldg	2003	27,572	\$267,385	20		\$0			\$0	\$317,570	\$0
8	L Wing - Process Training	2001	4,794	\$46,491	20		\$0	\$0	\$51,545	\$0	\$0	\$0
9	E Wing	2009	19,237	\$186,555	20	\$9,328	\$0	\$0	\$0	\$0	\$0	\$0
9	C Wing High Bay Orig Bldg	2009	2,619		20		\$0	\$0	\$0	\$0	\$0	\$0
9	D Wing High Bay	2009	3,180	\$30,839	20	\$1,542	\$0		\$0	\$0	\$0	
9	D Wing	2009	13,899	\$134,789	20	\$6,739	\$0	\$0	\$0	\$0	\$0	\$0
9	C Wing High Bay SLTF	2009	1,617	\$15,681	20	\$784	\$0	\$0	\$0	\$0	\$0	\$0
12	C Wing West	1999	10,409	\$100,944	18		\$104,477	\$0	\$0	\$0	\$0	
14	F Wing	1999	30,967	\$300,309	20	\$15,015	\$310,820	\$0				
17	C/D/E Connector/West	1999	19,466	\$188,776	18	\$10,488	\$195,383	\$0	\$0	\$0	\$0	
17	D Wing Penthouse	1999	1,431	\$13,877	18	\$771	\$14,363	\$0	\$0	\$0	\$0	
17	C/D Corridor Connector/West	1999	2,399	\$23,265	18	\$1,292	\$24,079	\$0				
17	Library	1999	46,131		18	\$24,854	\$463,023	\$0			\$0	
9	site&yard roof 9/21/2018	-										

FACILITIES MAINTENANCE MANAGEMENT

Roofing - life cycle cost analysis

Projected Inflation Per Year

3.50% unless noted below

i to om tig time by one book an any one												
AREA	DESCRIPTION	Yr Completed		Est Total Replacement Cost Based on Yr 2009		Est Annual Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost	Est Replacement Cost
1M	Midland Center Sloped Roof Area	1989	28,120	\$655,555	20	\$32,778	\$678,499	\$0	\$0	\$0	\$0	\$0
2M	Midland Center Flat Roof Area	1989	3,220	\$44,261	20	\$2,213	\$45,811	\$0	\$0	\$0	\$0	\$0
1P	Planetarium - Main Area	1996	13,163	\$127,651	20	\$6,383	\$132,119	\$0	\$0	\$0	\$0	\$0
2P	Planetarium - Low Area West Wing	1996	567	\$5,499	20	\$275	\$5,691	\$0	\$0	\$0	\$0	\$0
3P	Planetarium - Stair Tower	1996	340	\$3,297	20	\$165	\$3,413	\$0	\$0	\$0	\$0	\$0
4P	Planetarium - Observation Deck and Bridge	1996	1,968	\$81,560	25	\$3,262	\$0	\$0	\$90,427	\$0	\$0	\$0
TOTAL AREA 578,9 TOTAL REPLACEMENT VALUE			578,951	\$6,072,868		\$307,129	\$1,977,677	\$0	\$141,973	\$0	\$2,444,905	\$0
				Next three years Main Campus Midland Center Bay City Planetarium			\$2,119,650 \$1,112,145 \$724,310 \$141,223	\$0 \$0 \$0	\$51,545 \$0 \$90,427	\$0 \$0 \$0	\$2,444,905 \$0 \$0	\$0 \$0 \$0