

HVAC REPLACEMENT PLAN THROUGH 2028

<u>2001</u>	<u>2002</u>	<u>2008</u>	<u>2014</u>	<u>2016</u>	<u>2017</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>
Unit 2	Unit 3	Unit 8	Unit 12	Unit 11	Unit 13	Unit 1	Unit 4	Unit 3	Unit 6	Unit 11	Unit 18	A	G	Unit 28	Unit 13
	Unit 5			Unit 14		AG	Unit 7	Unit 17	Unit 2	Unit 14	Unit 19	B	H	Unit 29	
	Unit 6			Unit 15				Unit 8	Unit 9	Unit 15	Unit 20	C	I		
	Unit 9			Unit 16				Unit 5	Unit 10	Unit 16	Unit 21	D	J		
	Unit 10			Unit 18				Unit 31			Unit 12	E			
	Unit 17			Unit 19								F			
				Unit 20				2021 Refurbished							
				Unit 21				Unit 22							
				Unit 22				Unit 23							
				Unit 23				Unit 24							
				Unit 24				Unit 25							
				Unit 25				Unit 26							
				Unit 26				Unit 27							
				Unit 27											
				Unit 28											
				Unit 29											
				VRV A											
				VRV B											
				VRV C											
				VRV D											
				VRV E											
				VRV F											
				VRV G											
				VRV H											
				VRV I											
				VRV J											

*Indicates units replaced in the 2021 calendar year
 *Indicates units scheduled for replacement in late May of 2022
 *Indicates recommendations for replacements from 2023 through 2028

**Board approved 12/13/21

*This recommendation includes plans to do each replacement during the last week of May each respective year. This time frame is the typical week between the regular school term and summer school.

Mid-Buchanan R-V

Multi-Year Roofing Plan

(Board approved 12/13/21)

The roofing system of the Mid-Buchanan R-V School District encompasses multiple roof systems with different roofing materials. The current roofing systems include 'Built Up Roof' (roofs 1, 2, 3, 4, 5, 6, 7, 15, 17); 'Modified Bitumen' (roofs 8, 10, 11, 12); 'Metal Roof' (roofs 9, 13, 14, 22); 'TPO Roof' (8, 16, 18, 19, 20, 21, 23, 24, 25, 26).

*2017 – The district replaced roofing systems 20, 21, 23, 24, 25, and 26 to a TPO system. These roofs have a 20-year warranty.

*2020 – The district replaced roof systems 8, 16, 18, and 19. These roofs were transitioned from a Modified Bitumen system to a TPO roofing system. These roofs have a 20-year warranty.

*2022 – Consideration of replacing roofing systems 10, 11, and 12 from a Modified Bitumen system to a TPO system with a 20-year warranty. These three roofing systems would equate to approximately 10,550 square feet. I am hoping to put this project out to bid in late winter/early spring of 2022.

*2024 – Consideration of replacing roofing systems 3, 4, 7, 15, and 17 from a Built-Up Roof system to a TPO roofing system with a 20-year warranty. These four roofing systems would equate to approximately 11,550 square feet. Until we better know the cost of removing the built-up roofing system; this may necessitate breaking this into two years.

*2026 – Consideration of replacing roofing system 1 from a Built-Up roofing system to a TPO roofing system with a 20-year warranty. This roofing system replacement would equate to approximately 7,700 square feet.

*2027 - Consideration of replacing roofing system 5 from a Built-Up roofing system to a TPO roofing system with a 20-year warranty. This roofing system replacement would equate to approximately 8,650 square feet.

*2028 - Consideration of replacing roofing system 2 from a Built-Up roofing system to a TPO roofing system with a 20-year warranty. This roofing system replacement would equate to approximately 6,000 square feet.

*2029 - Consideration of replacing roofing system 6 from a Built-Up roofing system to a TPO roofing system with a 20-year warranty. This roofing system replacement would equate to approximately 8,650 square feet.

*We have several metal roof systems that will continuously need to be evaluated and placed in the replacement rotation at some point. The elementary roof is a fully corrugated metal roof and will be extremely costly to replace. This could potentially be a project that needs to be wrapped into a future bond issue or paid by doing a lease purchase option paid from fund 4. This could be a potential option due to the current lease purchase being paid off in 2030. The other metal roofing systems, which are 9 and 22 (ag shop) should not be major replacements.

**This plan is of course a tentative plan as we may encounter a situation where a roofing system just absolutely needs replaced prior to the plan listed above. This could be a result of a major weather event, specifically hail and/or wind, causing damage prior to the scheduled replacement time frame.

Roofing Chart

Roof Number	Roof Type	YR Installed	Square Footage	
1	BUR	2005	7,700	C.O. Wing East
2	BUR	2005	6,000	FACS/Computers
3	BUR	2007	1,750	HS Lib Hallway
4	BUR	2007	5,100	JH East
5	BUR	2007	8,650	C.O. Wing West
6	BUR	2007	8,650	HS Gym
7	BUR	2007	350	HS Lib Hallway
8	TPO	2020	5,200	HS Gym
9	MTL	?	2,250	Stage/Storage
10	Mod-Bit	?	2,650	HS Library
11	Mod-Bit	?	2,700	Band Room
12	Mod-Bit	?	5,200	JH West
13	MTL	?	2,700	Athena
14	MTL	?	27,800	Elementary
15	BUR	2008	2,000	MPR Hallway
16	TPO	2020	6,625	MPR
17	BUR	2008	2,350	Kitchen
18	TPO	2020	5,300	Kindergarten Wing
19	TPO	2020	7,875	1 st Grade Wing
20	TPO	2017	1,200	HS Commons
21	TPO	2017	7,600	Safe Room
22	MTL	2003	3,200	Ag Shop
23	TPO	2017	400	AG Hallway
24	TPO	2017	1,100	AG Hall Ramp
25	TPO	2017	500	HS Gym Back Entr.
26	TPO	2017	1,200	MPR/SR Divide

BUR = Built Up Roof

Mod-Bit = Modified Bitumen

MTL = Metal Roof

TPO = Thermoplastic Polyolefin