Capital Repair Assessment									↓Subtotal \$ of Items Filtered in Budget Year (Plan)								
Lake Bluff Public Library - MEP, FP Systems					2022 2023 2024 2025 2026					I		\$ 1,708,800	December 14, 2022				
© 2022 Engberg Anderson							2022-2026 2027-2031 2032-2036					Ψ		3 1,708,800	Project Number 203173		
·			BUILDING YE		Filter by Budget year - Plan (column 25)			2022			2022	2022					
CR Capital Repair M Major Maintenance		Envelope		Original Building Addition	1 7 2 7 3.1 7 3.2 7 4	2005		Compared to normal		Evaluated = Th€ Evaluated ≠ Th€							
1 vi iviajoi i		afety, C	înde	LL-Public LL-Staff	2002 2006	Addition	Filter by Priority (column 3)	Repaired, replaced, or		predicted wea System is		than normal					
2	Buildin	• • •		MEP FP Systems	2008		e. syey (co.a sy	remodeled		System is	Normal	, matching pred	icted wear				
3.1	Near T	Γerm Sy	stem Integrity	Site	2015		Fire Plumbing HVAC Electrical Tech	since Original		System is	Wearing	faster than norr					
3.2	_		stem Integrity	UL-Public	-		Elevator Roof Envelope	Construction		System is	Used Up	and needs repla	cing				
4	Aesthe	etics		UL-Staff Whole Building	-		Parking Site Utilities Parking/Site.Utilitie										
				Common	0		Filter by Building System										
Ref	ef Criteria Location &		Category		Product Data/Life Expectancy		Evaluated Condition			ition	ion Opinion of		Comments				
1	2	3	4	5	6	7 8	10	15	15 16		19 20		25	33	34		
0	get ory	ıj	Zone	Room Number or Area /	Building	CSI# System	Component	Installed Date	Planned	Evaluation	Condition	Remaining Life	Budget Year -	Escalated Cost at			
	Budget ategory	Priority		Zone	Year				Service Life	Year		- Evaluated	Plan	Budget Year - Plan			
	ర																
1	М	3.2	MEP FP Systems	Whole Building	1974	21 Fire Protection	FP-2	1974	50	2022	Normal	2	2024	\$ 1,300	Provide escutcheons where missing.		
											-				Extend sprinkler system to 1974 section of building and provide		
2	CR	1	MEP FP Systems	Whole Building	1974	21 Fire Protection	FP-1	0	50	2022	Better	0	2022	\$ 43,800	complete coverage.		
3	М	3.1	MEP FP Systems	Whole Building	1974	22 Plumbing	P-1	1974	10	2022	Used Up	-38	2022	\$ 7,500	Replace domestic water heater.		
4	CR	3.1	MEP FP Systems	Whole Building	1974	22 Plumbing	P-2	0	10	2022	Used Up	-2012	2022	\$ 18,800	Provide recirculation pump and associated piping.		
															Replace plumbing fixtures in public toilet rooms, provide hands free		
5	CR	4	MEP FP Systems	Whole Building	1974	22 Plumbing	P-5	1992	20	2022	Better	0	2022	\$ 70,000	sensor operated fixtures where applicable. Upsize cold water piping		
															where required		
6	М	1	MEP FP Systems	Whole Building	1974	22 Plumbing	P-3	1992	20	2022	Better	0	2022	\$ 3,800	Provide thermostatic mixing valve at all lavatories in public toilet rooms.		
				_													
7	N4	1	MED ED Systems	Whole Building	1974	22 Dlumbing	P-4	0	20	2022	Dottor	0	2022	\$ 6.300	Provide RPZ backflow preventer at domestic water service when		
/	M	1	MEP FP Systems	whole Building	1974	22 Plumbing	r-4	U	20	2022	Better	0	2022	\$ 6,300	required by local authority having jurisdiction.		
8	CR	2 1	MEP FP Systems	Library	1974	23 HVAC	HV-1	2006	25	2022	Better	10	2032	\$ 588,000	Optional if temperature control issues exist: Convert system to Variable Air Volume by adding heat to each VAV box, either through addition of a		
	CIN	3.1	WEI IT Systems	Library	1374	25 IIVAC	110-1	2000	25	2022	Dettei	10	2032	3 388,000	hot water system serving hot water coils at the hoves or hy adding		
9	CR	3.1	MEP FP Systems	Museum	2002	23 HVAC	HV-10	2002	20	2022	Better	2	2024		Schedule replacement of gas furnace unit, air cooled condensing unit,		
			.,											,	and refrigerant piping within the next 2 years.		
10	0.5				2015			2015			.		2024	4 45.000	Provide software update for Building Automation System to bring the		
10	CR	3.1	MEP FP Systems	Library	2015	23 HVAC	HV-11	2015	8	2022	Better	2	2024	15.900	system to current technology.		
															Enter into a preventative maintenance agreement with Delta Controls,		
11	М	3.1	MEP FP Systems	Library	2015	23 HVAC	HV-12	2015	1	2022	Better	0	2022	\$ 3,800	the Building Automation System servicer (budget is assumed to be		
															\$3.000 per year) When the HVAC systems serving the east side of the building are		
12	CR	3.1	MEP FP Systems	Museum	2002	23 HVAC	HV-13	2002	8	2022	Used Up	-12	2022		replaced (recommendations HV.6, HV.8, HV.9, HV.10), they should be		
														, ,,,,,,	included in the Delta Building Automation System.		
13	CR	3.1	MEP FP Systems	Library	1974	23 HVAC	HV-2	2015	20	2022	Better	15	2037	\$ 214,200	Schedule gas duct furnaces for replacement in the next 13 years.		
14	CR	3.1	MEP FP Systems	Library	1974	23 HVAC	HV-3	2008	20	2022	Wearing	5	2027		Schedule replacement of air cooled condensing unit, refrigeration piping, and DX cooling coil in air handling unit in the next 4 years.		
15	CB	2 1	MEP FP Systems	Library	1974	23 HVAC	HV-4	2008	20	2022	Wearing	5	2027	\$ 10.900	Schedule replacement of the variable frequency drive in the next 4 years.		
1.0	CIN	3.1	IVILI II SYSTEMS	Listary	13/4	25 IIVAC		2008	20	2022			2027	7 10,300	somewhat replacement of the variable frequency unive in the flext 4 years.		
16	CR	3.1	MEP FP Systems	Library	1974	23 HVAC	HV-5	2008	20	2022	Wearing	2	2024	\$ 26,500	Replace humidifier if needed		
			<u> </u>											<u> </u>			

Capital Repair Assessment														↓Subtotal \$ of Ite	ms Filtered in Budget Year (Plan)
Lake Bluff Public Library - MEP, FP Systems							2022 2023 2024 2025 2026					ı		\$ 1,708,800	December 14, 2022
© 2022 Engberg Anderson							2022-2026 2027-2031 2032-2036					$\overline{\mathbf{V}}$		3 1,708,800	Project Number 203173
KEY: CR Capital Repair M Major Maintenance 1 Life Safety, Code 2 Building Enclosure 3.1 Near Term System Integrity 3.2 Long Term System Integrity 4 Aesthetics		nance afety, Code ng Enclosure Ferm System Integrity Ferm System Integrity	ZONES (column 4) Envelope LL-Public LL-Staff MEP FP Systems Site UL-Public UL-Staff UL-Staff UL-Staff Whole Building BUILDING YEAR KEY: 2002 Addition 2008 Site 2015 UL-Public - UL-Staff Whole Building Common 0			l Building	Filter by Budget year - Plan (column 25) 1 2 3.1 3.2 4 Filter by Priority (column 3) Fire Plumbing HVAC Electrical Tech Elevator Roof Envelope Parking Site Utilities Parking/Site.Utilitie Filter by Building System		predicted wear, Evaluat System is Better than no System is Normal , match System is Wearing faster t			faster than norr	valuated ≠ The		
Ref	Ref Criteria Location & Category						Product Data/Life Expectancy		Evaluated Condition				of Probable Cost	Comments	
0	2 t ≥	3 4	5 Room Number or Area /	6 Building	7 CSI#	8 System	10 Component	15 Installed Date	16 Planned	19 Evaluation	20 Condition	21 Remaining Life	25 Budget Year	- Escalated Cost at	34
U	Budget Category	Priority Zoue	Zone	Year	CSI#	System	Component	mistanea Bate	Service Life	Year	Condition	- Evaluated	Plan	Budget Year - Plan	
17	CR	3.1 MEP FP Systems	Library	1974	23	HVAC	HV-6	2002	20	2022	Better	2	2024	\$ 26,500	Schedule replacement of gas furnace unit, air cooled condensing unit, and refrigerant piping within the next 2 years.
18	CR	3.1 MEP FP Systems	Museum	2002	23	HVAC	HV-7	2002	20	2022	Better	15	2037	\$ 68,200	Schedule replacement of gas duct furnace in the next 2 years.
19	CR	3.1 MEP FP Systems	Museum	2002	23	HVAC	HV-8	2002	20	2022	Better	2	2024	\$ 59,700	Schedule replacement of air cooled condensing unit, refrigeration piping, and DX cooling coil in air handling unit in the next 2 years.
20	CR	3.1 MEP FP Systems	Museum	2002	23	HVAC	HV-9	2002	20	2022	Better	2	2024	\$ 99,500	Schedule replacement of gas furnace unit, air cooled condensing unit, and refrigerant piping within the next 2 years.
21	М	1 MEP FP Systems	Electrical Boxes	1974	26	Electrical	E-1	1974	35	2022	Used Up	-13	2022	\$ 6,300	Thermal imaging service is recommended due to discoloration of a lug in panel LP-3A. In addition scanning of all panels is recommended as a preventative measure to ensure all connections are secure and properly terminated.
22	М	1 MEP FP Systems	Electrical Boxes	1974	26	Electrical	E-2	0	20	2022	Used Up	-20	2022	\$ 600	Provide signage at electrical services indicating the presence of of multiple electrical services serving the building
23	М	1 MEP FP Systems	Electrical Boxes	1974	26	Electrical	E-3	1974	20	2022	Used Up	-28	2022	\$ 600	conceal live internal electrical bussing.
24	М	1 MEP FP Systems	Exterior Receptacles	1974	26	Electrical	E-4	1974	0	2022	Used Up	-48	2022	\$ 600	Change exterior weatherproof cover to "while-in-use" cover to prevent damage to receptacle or cord plugged into recpectacle.
25	CR	1 MEP FP Systems	Emergency Lighting	1974	26	Electrical	E-8	0	20	2022	Used Up	-20	2022	\$ 12,500	Provide exterior, weatherproof heads connected to emergency egress battery lighting fixture.
26	CR	3.2 MEP FP Systems	Exterior Lighting	2002	26	Electrical	E-6	2002	20	2022	Normal	0	2022	\$ 93,800	and energy efficiency.
27	CR	3.2 MEP FP Systems	Interior Lighting	2008	26	Electrical	E-5	2008	20	2022	Normal	6	2028	\$ 104,500	Replace lighting fixtures with LED for improved lighting levels, longer life, and energy efficiency.