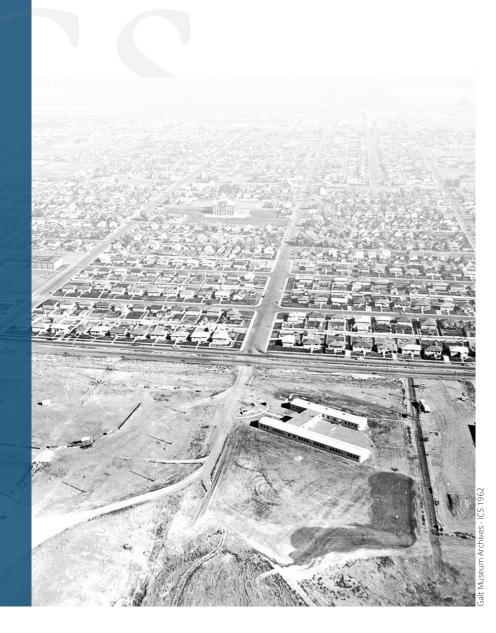
ICSS | ICES.

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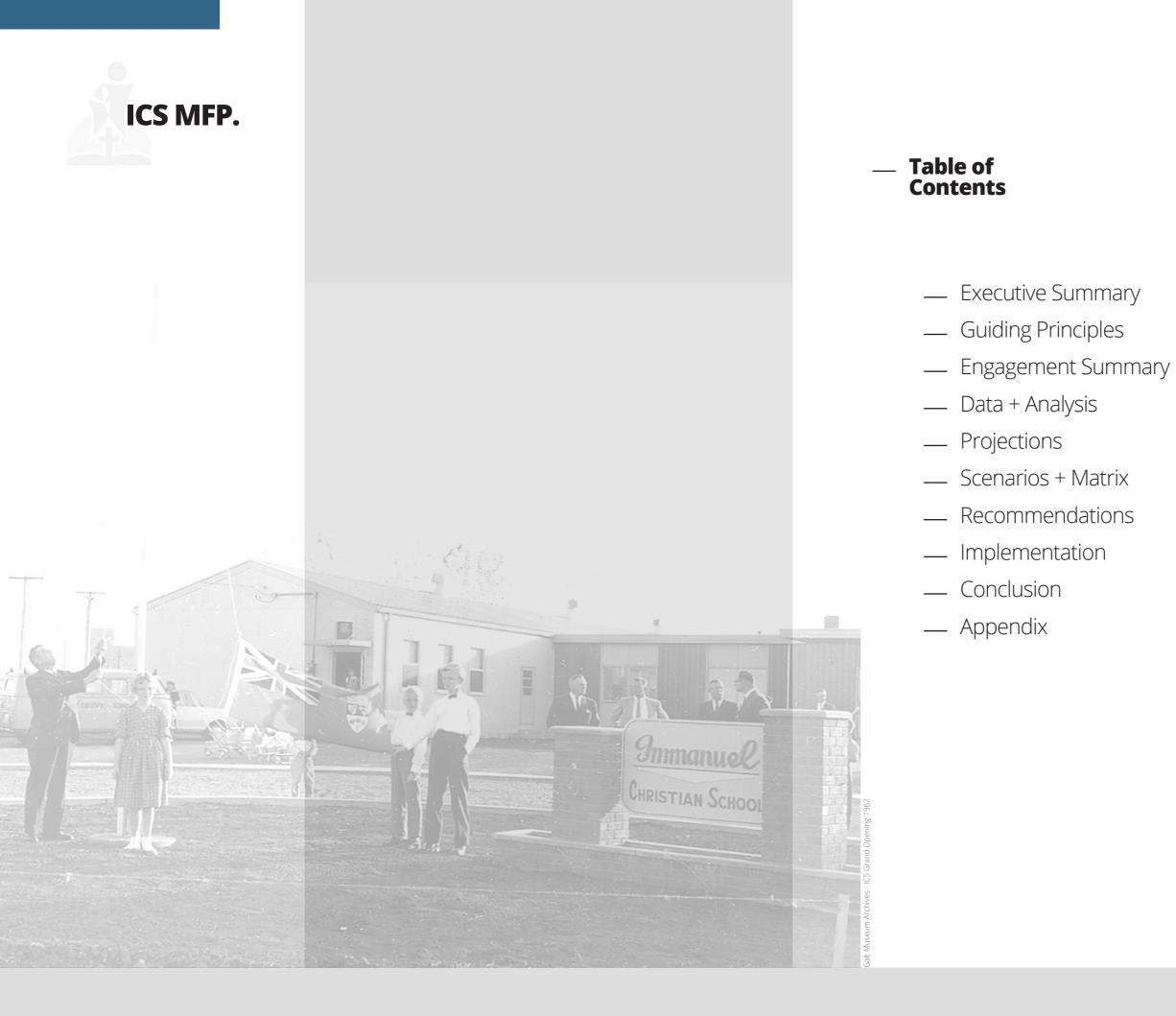
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Master Facility Plan Year 2024

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ICS | Master Facility Plar



— Executive Summary

The Society for Christian Education in Southern Alberta (SCESA) is the overseer of Christian programming, facilities, and transportation for Immanuel Christian Schools (ICS) operating within the City of Lethbridge and servicing families across Southern Alberta.

The Master Facility Plan Committee (MFPC), was born out of the SCESA Strategic Plan 2023-2028 and tasked by SCESA Board, to produce a Master Facility Plan (MFP) for ICS. Created as an ad-hoc committee reporting to the SCESA board, its goal is to achieve aligning mission, educational, and employment needs for both present and future ICS facilities.

To support the committee's efforts, a survey conducted in Spring 2024 received 120 responses from students, staff, community members, and Board members. This feedback, along with the committee's input criteria, helped to identify the optimal scenario more clearly.

Discussions about a larger building capital expenditure began in the 2017-2018 school year when the building committee assessed enrollment growth and capacity limits. Noticing a consistent increase of five or more students each year, the committee recommended to the Board that cost estimates be obtained for expansion and modernization, referred to as the BIG Project. However, this proposal was ultimately voted down by the membership during the height of the COVID-19 pandemic.

Recognizing the ongoing need for a comprehensive plan and prioritizing the stewardship of Society funds, the building committee engaged MPE Engineering in winter 2022 for a Building Condition Assessment (BCA) to evaluate life cycle costs.



With operating costs nearing \$100,000 annually at ICES and similar life cycle costs anticipated for an aging building, the building committee also recommended forming the Master Facility Plan Committee (MFPC) to help guide long term planning and spending.

975 S/Gvm Exi

To provide a balanced and neutral analysis of optimal building scenarios, the MFPC created the Master Facilities Planning Matrix. This tool integrates survey feedback and committee input, weighing each criteria and category. It clearly demonstrates how each scenario can serve as a viable option for a future site and building.

A new build is the most direct way to reduce escalating annual maintenance and deferred maintenance costs associated with aging buildings. A new build or significant modernization will necessitate a comprehensive funding plan to cover the substantial upfront costs. Meanwhile, proactive maintenance and expansion of existing facilities are essential to continue meeting the needs of students and staff and to bridge the gap until the new facility is established.

By leveraging the guidance provided by the SCESA Mission and Strategic Plan, the MFP navigates complexities, anticipates future needs, and crafts a comprehensive plan that reflects the aspirations of the SCESA educational community. Through collaborative efforts and strategic foresight, the MFP lays the groundwork for sustainable growth, innovation, and educational excellence at ICES and ICSS, thus enriching the educational journey of current and future generations.

> Master Facility Planning Committee



S 2024



— Guiding Principles

The SCESA Board is committed to ensuring that both of the ICS campuses and the transportation fleet adequately meet the needs of our students, staff, and community. We prioritize the maintenance and upgrading of aging buildings while planning for future growth and managing our finances responsibly. By adhering to these guiding principles, the SCESA Board aims to create a safe, welcoming, and forwardthinking environment that meets the evolving needs of our students, staff and community.

Master Facility Plan Development:

Establish an ad hoc committee tasked with creating a comprehensive master facility plan that outlines strategies for the next 1-5 years, 5-10 years, and 10-20 years.

Planning:

Conduct future planning discussions in conjunction with fund development and promotions staff and Society membership to ensure alignment and resource availability.

Modernization:

Continue efforts to modernize both campuses, focusing on enhancing aesthetics and building comfort for students and staff.

Infrastructure Upgrades:

Evaluate and implement necessary updates to infrastructure to support technological advancements and improve overall



Engagement Summary

Stakeholder engagement strengthens and enriches the outcomes of processes such as the Master Facilities Plan (MFP). True engagement goes beyond the informative and draws ideas, questions and concerns out of individuals and groups, to create meaningful dialog. This MFP has benefitted from multiple rounds of stakeholder engagement, including a phased survey that was released in Spring 2024 to the Board, Society, staff, and students, garnering more than 120 responses. A subsequent round of engagement was initiated with the sharing of the full draft plan in October 2024, prior to the finalization of the MFP for presentation to the board.

Through the collective work of the committee and feedback provided by our Board, Society members, staff and students who shared their thoughts on the plan, this MFP can be implemented with the confidence that it has been shaped through collective effort and dialog.

As the Board makes decisions using the guidance provided by this MFP, engagement methods can continue to be utilized, such as future surveys related to significant expenditures, and votes on major funding decisions. 2024 ICS | Master Facility Pla

— Data & Analysis

Capital Projects

Immanuel Christian Elementary School

The most recent capital project proposed began in the 2017-2018 school year at Immanuel Christian Elementary School (ICES) with what was called the "BIG Project". The project scope was to address capacity limitations with an expansion that included a gymnasium and adjacent supporting spaces, classrooms, and the renovation and modernization of most existing spaces.



Immanuel Christian Secondary School

The last large capital project at Immanuel Christian Secondary School (ICSS) was completed in the 2004-2005 school year. The scope of work is now known as the "LIFEwing". This work included the construction of new art, band/choir, learning commons, administrative offices, and the removal of an old greenhouse that was connected to the science lab. The greenhouse space was incorporated into the interior building structure and repurposed to what we now know to be the Student Activity Center (SAC).

Since then, smaller capital projects have been completed in 2021-2023 school years. These projects include the upgrading and modernization of the Home Economics room, large gym change rooms, along with adjacent supporting spaces of storage and offices.

Other Work

Outside of the larger projects previously stated, several other projects benefiting students, staff, safety and building modernization have been completed since 2017 and include:

ICES

- 2016/2023 New and additional outdoor equipment with an expected lifespan of 20+ years.
- 2021 Gym projector and screen with an expected lifespan of 10 years.
- 2021/2023 Replacement of original roof with an expected lifespan of 25 years.
- 2022 Touchless taps in washrooms with an expected lifespan of 20 years.
- 2023 Built-in shelving and storage with an expected lifespan of 25 years.
- 2023 Overlay and expansion of original asphalt play area with an expect lifespan of 30 years.

ICSS

- 2018 Building Management System (BMS) expected lifespan that is dependent on technology update/changes and building asset upgrades.
- 2018 Upgraded security camera system with an expected lifespan that is dependent on technology, build quality and environmental conditions, but typically 10 years.
- 2020 LED lighting throughout with an expected lifespan of 15-20 years.
- 2022 Touchless taps in washrooms with an expected lifespan of 20 years.
- 2023 Large gym floor refinish with an expected lifespan of 20 years.
- 2023 Upgraded fire alarm devices with an expected lifespan that is dependent on technology update/changes, but typically 20 years.
- 2024 Large gym video board (donated funds) with an expected lifespan of that is dependent on use, but typically 10 years.



— Data & Analysis (Continued)

Building

Building Condition Assessment (BCA) - Lifecycle Costs

In the follow up of the Big Project vote to not continue, the Building Committee was tasked with finding support for and producing a long term building maintenance plan. To gain better insight to the full scope and condition of both campuses, the committee engaged MPE Engineering Ltd. for a BCA in the spring of 2022.

Building Condition Assessment - ICES

Overall, the building is in fair condition with some repairs, replacements, and monitoring required. The summary of the costs for all the disciplines is shown below.

Item/Area	Comment	0	-5 years	5-1	10 years	1	0-15 years	15-20 years	Total	Recent Repairs/Upgrades	Cost	Year
										New/resurfaced		
Site Condition	Grading concerns	\$	12,500	\$	10,000	\$	3,000		\$ 25,500	ashphault	\$ 65,550	2023
Building Exterior	Wall cracking and roof replacement	\$	232,000	\$	-	\$	-		\$ 232,000	New Roof on 3/4 of buildi	\$ 203,146	2021/2023
* Environmental	Exterior Walls, Glass Block, Caulking - Vermeculite, Chrysotile								\$ 200,000	N/A		
Building Interior	Floors	\$	-	\$	100,000	\$	-		\$ 100,000	N/A		
*Environmental	DWJC, Ceiling Texture, Floors								\$ 397,000	N/A		
Mechanical Systems	Life expenctancy of all HVAC at or near end of life	\$	12,000	\$	150,000	\$	220,000		\$ 382,000			
	Existing systems and devices suffictient but nearing end of life. Little											
Electrical Systems	room for power expantion based on single phase feed.	\$	60,000	\$	18,000	\$	6,000		\$ 84,000			



Building Condition Assessment - ICSS

Overall, the building is in fair condition with some repairs, replacements, and monitoring required. The summary of the costs for all the disciplines is shown below.

Item/Area	Comment	0	-5 years	5	5-10 years	1	0-15 years	15	5-20 years	Total	Recent Repairs/Upgrades	Cost	Year
Site Condition	In good condition - Parking lot upgradesoptional	\$	7,000	\$	-	\$	-			\$ 7,000	N/A		
Building Exterior	In good condition	\$	10,000	\$	186,000	\$	31,000			\$ 227,000	N/A		
* Environmental	Walls and other areas - Vermeculite									\$ 190,000			
Building Interior	In good condition. Cosmetic items. Small gym floor heaving!	\$	6,000	\$	12,000	\$	9,000			\$ 27,000	N/A		
*Environmental	Crawl space, floors, drywall,									\$ 480,000			
Mechanical Systems	Fair condition	\$	6,500	\$	315,000	\$	300,000	\$	275,000	\$ 896,500			
*Environmental	Sanitary and Sewer line coating							\$	60,000	\$ 60,000			
Electrical Systems	Fair condition	\$	75,000	\$	25,000	\$	8,000			\$ 108,000			

TOTAL \$1,995,500

Building Capacity and Utilization

Alberta Education's formula for school capacity and utilization, along with consistent enrollment increases, was a key factor in considering the BIG Project. The existing ICES campus has an estimated full capacity of 310 students. When we began exploring expansion in the 2017-2018 school year, our capacity utilization was in the upper 90th percentile. By 2019-2020, we reached full capacity with 314 students. However, as noted in the timeline for the BIG Project, the COVID-19 pandemic caused a significant drop in enrollment, particularly at ICES, during the 2021-2022 school year. Since then, we have seen small increases in enrollment (see appendix), and our current capacity utilization for the 2024-2025 school year is approximately 75%.

The capacity and utilization of ICSS have remained relatively stable over the past five years. For the 2024-2025 school year, utilization is approximately 45%, with a maximum capacity estimated at 650 students. Although this utilization figure may seem low, it is influenced by the campus's extensive footprint and large shared spaces, such as gyms, labs, CTS (wood and mechanics), and learning commons. A closer examination of the active classroom spaces would reveal that any significant increase in student enrollment may necessitate the consideration of additional classrooms. This additional space is based on an average of 25 students per room.

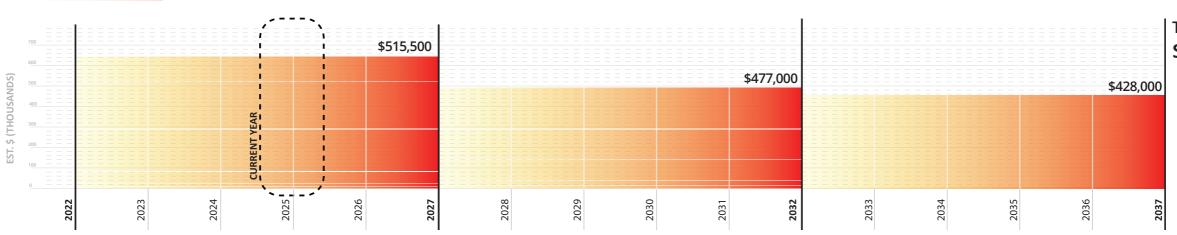
2024 ICS | Master Facility Plan



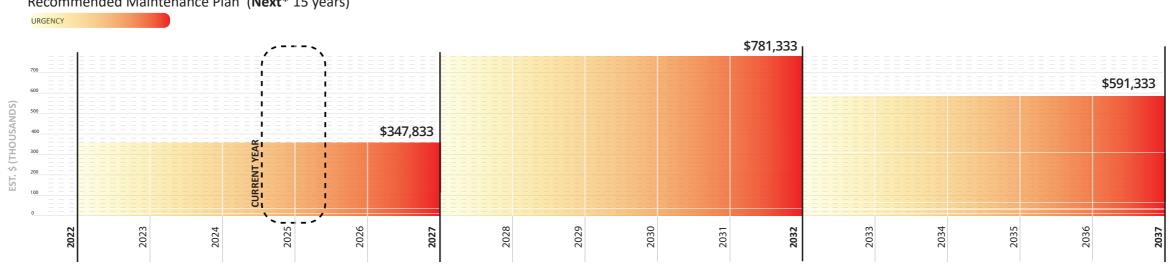
URGENCY

ICES - BCA | Visualized

Recommended Maintenance Plan (Next* 15 years)



ICSS - BCA | Visualized



Recommended Maintenance Plan (Next* 15 years)

TOTAL \$1,420,500

ICS | Master Facility Plan

2024

TOTAL \$1,660,500

Page: 13



— Projections + Matrix

Projections

Historical enrollment and projections for ICS are based on the historical data over several periods of time.

Analysis of the 10 year period at ICES prior to 2019-2020 and COVID showed an estimated increase of 2% year over year with a few outlining factors. The first being the move of grade 6 students from ICES to ICSS in 2016-2017. Second, the addition of Early Education in 2017/2018 and closing of the Early Education program at ICES in 2022/2023. The 2019-2020 year is also the year that enrollment peaked at 314 students. Since then, the enrollment percentage has been relatively static with a current population of 235 students. Projected enrollment based on this most recent data would show it is likely to anticipate small changes.

Analysis of the 10 year period at ICSS prior to 2019-2020 and COVID showed an estimated increase of 1% year over year. The one outlining factor would be the move of grade 6 students from ICES to ICSS in 2016-2017. The 2017-2018 and the current 2024-2025 years are where enrollment peaked at 325 and 327 students respectively. Since COVID there has been a steady increase in enrollment of almost 3.5% year over year. Projected enrollment based on this most recent data and the ICES data would show it is likely to anticipate small changes.

Further demographic projections of growth in Lethbridge and the School division (LSD 51 Capital Plan - see appendix) also show steady increases. This does not provide a direct correlation to enrollment growth for our community at ICS as we are a school of choice, but does continue to show there are more people coming to Lethbridge. Not factored into this is the surrounding geographic area that ICS draws on from outside of the city limits where population estimates show consistent increases as well (Alberta Municipal Pop Est - see appendix).





			Capacity (650)
			<u> </u>
6 to ICSS	2021	Covid	2024



— Opportunities Matrix

The Matrix was refined using several hypothetical scenarios. Once deemed complete, f scenarios representative of the most likely future outcomes for new facilities for both the IC and ICSS campus, were analyzed.
The Matrix does not recommend one specific scenario as the best or most effective, rather shows how each scenario may be considered on its own merits, and when weighed against oth potential scenarios
The Matrix represents a powerful tool for the SCESA to use when the time comes to consider a vote on next steps for the sites and facilities that serve our students and staff.

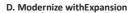
Term	Definition	Relationship to Sites & Buildings
Visibility	How easily a structure or location can be seen and recognized by people from various vantage points	Physical Visibility, Accessibility, Branding and Recognition, Safety, Security, Environmental integration
Wayfinding	The system and processes that help people navigate and understand their surroundings ensuring they can find their way efficiently and confidently	Signage, Landmarks, Maps, Lighting, Visual Cues, Accessibility, User Experience
Proximity	The physical closeness or distance between structures, spaces, and key features within an environment.	Considerations for accessibility, site layout, sustainability, aesthetic considerations, traffic flow, layby, and future adaptability
Parking	Designated areas where vehicles can be temporarily stored.	Considerations for accessibility, site layout, sustainability, aesthetic considerations, traffic flow, layby, and future adaptability
Resilience	The ability to withstand, adapt to, and recover from adverse conditions, challenges, or disruptions with aims to ensure safety, functionality, and sustainability.	Structural integrity, sustainable practices, adaptability, urban planning, community engagement, emergency preparedness
Security	The measures and practices implemented to protect people, property, and information from threats, including unauthorized access, theft, vandalism, and other criminal activities	Physical security, surveillance, lighting, emergency preparedness, design principles, and access control
Environment	The surrounding physical, social, and ecological conditions that influence and are influenced by the built environment.	Physical, social, ecological, urban, environmental, and regulations
Service Availabilty	The accessibility and reliability of essential utilities and services that support the functionality and livability of a space.	Utilities, public, maintenance, operational, emergency, and transportation links.
Procurement Opportunities	The ability to acquire land, resources, and services necessary for development or management.	Land acquisition, site development services, environmental, zoning and permitting,
Project Execution Complexity	The challenges and intricacies involved in planning, coordinating, and implementing a construction or development project.	Site conditions, stakeholder involvement, project scope and scale, timeline constraints, risk management
Secondary Income Opportunities	Ways that a building can generate additional revenue beyond the primary use of the space.	Event hosting, shared amenities, rental space, partnerships?
Outside Funding Opportunities	Financial resources obtained from external sources that do not directly relate to existing or operating revenue.	Government grants, loans, investments, other?
Social/Political Complexity	The intricate dynamics and interactions among various stakeholders, regulations, and community factors that can influence development projects.	Community engagement, cultural context, demographics, public sentiment, regulatory framework, political landscape, policy changes,
Land Banking	The practice of acquiring and holding land for future development or investment purposes.	Future development, risk management

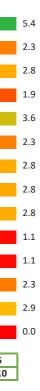


— **Opportunities Matrix**

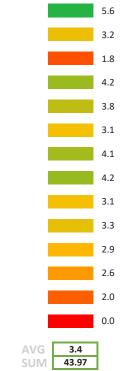
















— Recommendations

Replacement facilities represent the shortest path to addressing the deferred maintenance of an ageing building inventory.

However, ensuring facilities currently under ownership by the SCESA are proactively maintained and expanded to continue to meet student and staff needs, is a critical step in bridging the transition from existing facilities, to new ones.

In three basic steps, the path from today to new facilities includes proactive maintenance of existing facilities with an eye on lifecycle management and expansion of existing facilities as necessary to serve school needs, to the planning, collection and expenditures of funding necessary to construct new facilities. Within the three main steps noted above, there are many complexities and contextual considerations. The Matrix developed for this MFP provides a tool to assess, plan and execute these steps effectively and efficiently, regardless of the specifics of the opportunities and challenges presented at the time the SCESA wishes to move forward with the steps necessary to build new facilities.

Recommendations include:

-Use of the BCA's to guide lifecycle expenditures for current facilities

-included here is a further recommendation to index against inflation for high level budgeting purposes; recognizing that as costs are refined from conceptual to design to IFC-drawing level the budgets will be refined accordingly, and

-A commitment to update BCA's every 10 years or as necessary

-Adoption of the Matrix as the tool with which to undertake options analysis in advance of Society votes on expenditures related to new facilities

-A commitment to review the MFP at no greater than five year intervals

Implementation:

The goal of this strategy is to ensure a smooth transition from ageing facilities to new ones while maintaining existing structures and effectively managing resources. This will be achieved through proactive maintenance, lifecycle management, and strategic planning for new construction. The following three steps outline the path forward:

Step 1: Proactive Maintenance and Lifecycle Management

1. Building Condition Assessments (BCA):

 Utilize BCAs to guide lifecycle expenditures, ensuring maintenance aligns with longterm facility goals.

2. Budgeting:

- Establish a framework for maintenance and operational costs against inflation for highlevel budgeting.
- Include disclaimers that budgets will be refined as costs become more defined through the project lifecycle.

3. Regular Review:

- Commit to updating BCAs every 10 years or sooner if significant changes occur in facility conditions.
- Develop a schedule for these updates and allocate budget resources accordingly.

Step 2: Expansion of Existing Facilities

1. Assess Needs:

- · Conduct an analysis to determine current and projected needs for school facilities, taking into account enrollment trends and programmatic changes.
- Engage with staff and stakeholders to gather input on needs and potential expansions.

2. Adopt and Use Matrix:

- Adopt the Matrix as a key tool for options analysis before presenting proposals for new facilities to the Society.
- Train relevant staff on using the Matrix effectively to evaluate expansion options and their implications.
- Review the Master Facility Plan (MFP) every five years, with the option for more frequent reviews if necessary.

3. Asess Options:

- Use the Matrix to explore different scenarios for facility expansion, considering factors such as cost, timeline, and impact on the community.
- SCESA Board to present findings to the Society for informed decision-making on facility expenditures.



— **Recommendations** (Continued)

Step 3: Planning, Funding, and Construction of New Facilities

1. Financial Planning:

- Develop a comprehensive financial strategy for funding new construction, including potential sources of funding.
- Create a funding timeline aligned with the construction schedule to ensure cash flow availability.

2. Budgeting:

 Refine budgets as projects progress from conceptual to design and into construction phases. Regularly review and adjust budgets in response to updated cost estimates and project developments.

— Conclusion

The Master Facility Plan serves as a guide for the future development, maintenance, and enhancement of SCESA facilities. By prioritizing both the proactive management of existing infrastructure and consideration of expansion to meet modernization, safety, and growth needs, this plan provides the Society an effective path to address the challenges and opportunities that lie ahead.

By referencing data from Building Condition Assessments (BCA) and utilizing the Matrix for assessing options, we can make informed choices that align with our long-term goals, objectives and Society members expectations.

With a focus on modernizing campuses and upgrading infrastructure, this reflects our dedication to providing a safe, comfortable, and functional environment for students and staff. This commitment will be further reinforced through regular reviews of the MFP, allowing us to adapt to changing circumstances and continue meeting the needs of our community.

To do this well, it will require ongoing collaboration, transparency, and a proactive approach to resource management. By following the outlined steps, we have a blueprint to provide an educational environment that supports current and future generations. Our ultimate goal is for SCESA facilities to not only meet today's demands but also lay a foundation for sustainable growth and success in the years to come. 2024 ICS | Master Facility Plan



— Appendix | Full Matrix

indu Answitche Name Answitche	lluation Criteria	Potential Scenarios					
		Status Quo	A. New Build Within Existing Lot	B. New Build at Existing with Land Purch	C. Centralized to ICSSwith Land Purch/Exch	D. Modernize with Expansion	E. New Site & New Buil
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Safety/Proximity4.44.44.44.44.4ure Proofing/Resilience3.63.63.63.63.63.63.6Lot coverage vs. allowable3.62.44.83.63.63.7Area required vs. available2.44.83.62.43.63.7	Bus Parking	4.4	4.4	4.4	4.4	4.4	4.4
Lot coverage vs. allowable 3.6 3.6 3.7 Area required vs. available 2.4 4.8 3.6 3.7	Safety/Proximity		4.4	4.4	4.4		4.4
Lot coverage vs. allowable 3.6 3.6 3.7 Area required vs. available 2.4 4.8 3.6 3.7	ure Proofing/Resilience	3.6	3.2	4.8	3.6	3.6	3.8
Area required vs. available 2.4 4.8 3.6 2.4 3.7							
	-						



— **Appendix |** Full Matrix (Continued)

valuation Criteria	Potential Scenarios					
	Status Quo	A. New Build Within Existing Lot	B. New Build at Existing with Land Purch	C. Centralized to ICSSwith Land Purch/Exch	D. Modernize withExpansion	E. New Site & New Build
ecurity (user focused)	2.1	2.7	2.9	3.3	2.3	3.1
Adjacency to Known Risks	2.1	2.9	3.0	3.3	2.7	3.1
Busy Streets/ease of access to/from site	1.1	1.1	2.3	3.4	1.1	3.0
Industrial production	2.3	2.3	2.3	3.4	2.3	2.7
Commercial/Industrial vehicle adjacency	2.3	2.3	2.3	3.4	2.3	2.6
Natural Hazards (for users)	3.4	3.4	3.4	3.0	3.4	3.0
Bodies of water	3.4	3.4	3.4	3.4	3.4	2.7
Exposure (wind, sunetc.)	3.4	3.4	3.4	3.4	3.4	3.7
Grade hazards (ie. Topographyetc)	3.4	3.4	3.4	2.3	3.4	2.7
Concentrated criminal activity	2.3	2.3	2.3	2.3	2.3	3.1
CPTED (crime prevention through env. Design)	1.1	4.6	4.6	4.6	2.3	4.3
vironment Considerations (facility focused)	3.2	2.9	2.9	2.2	2.8	4.1
Water - table, stormwater management, etc.	3.4	3.4	3.4	3.4	3.4	4.3
Slope stability	3.4	3.4	3.4	2.3	3.4	4.6
Subsistence	3.4	3.4	3.4	1.1	3.4	4.6
Geotech	3.4	3.4	3.4	2.3	3.4	4.6
Soil Gas (i.e. radon)	2.3	2.3	2.3	2.3	2.3	4.3
Climate considerations	3.0	3.0	3.0	3.0	2.3	3.0
Wind (protection)	3.4	1.1	1.1	1.1	1.1	3.2
Sun (Exposure)	2.3	4.6	4.6	4.6	2.3	2.7
Precipitation	3.4	3.4	3.4	3.4	3.4	3.2
rvice Availabilty	1.9	3.9	3.9	3.9	2.8	4.2
Future alternative energy regulations	0.0	4.4	4.4	4.4	1.1	4.4
Builiding Code requirements	1.1	4.4	4.4	4.4	3.3	4.4
Communications/internet	3.3	3.3	3.3	3.3	3.3	4.4
Proximity to services	3.3	3.3	3.3	3.3	3.3	3.7
rocurement opportunities -Level of complexity	4.5	3.4	3.2	1.8	2.8	3.1
Complexity	4.5	4.5	3.4	1.1	4.5	3.2
Readily available	4.5	4.5	3.4	1.1	4.5	2.9
oject Execution Complexity	4.4	2.2	2.8	2.8	1.1	3.3
Site preperation	4.4	2.2	3.3	2.2	1.1	3.2
Transition	4.4	2.2	2.2	3.3	1.1	3.4
econdary Income Opportunties	1.1	1.8	2.6	1.8	1.1	2.9
Commercial needs/opportunities	0.0	2.2	2.2	2.2	0.0	2.4
Community needs/opportunties	1.1	3.3	3.3	3.3	1.1	3.4
Known future develoment (fut. Sell-off)	2.2	0.0	2.2	0.0	2.2	2.9
ant/Outside Funding Opportunities	1.2	3.5	3.5	3.5	2.3	2.6
Government	1.1	3.3	3.3	3.3	3.3	2.2
Private	1.3	3.8	3.8	3.8	1.3	3.0
Other						
ocial/Political complexity	2.9	3.3	3.3	3.3	2.9	2.0
Adjacent Community impact	2.9	3.3	3.3	3.3	2.9	2.0
Residential impacts (neighbours)	4.4	4.4	4.4	4.4	4.4	2.0
Recreational impacts (Clubs, leagues)	2.2	3.3	3.3	3.3	2.2	2.0
Environmental impacts (Parks, agriculture, nature reserves, et	2.2	2.2	2.2	2.2	2.2	2.0
and Banking	0.0	0.0	0.0	0.0	0.0	0.0
	AVG 2.50	3.00	3.29	3.08	2.4	3.1
	SUM 35.06	42.06	46.02	43.07	34.10	43.97
	30141 33.00	42.00	1010-		0.120	

ICS | Master Facility Plan

2024

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— Appendix | Historical Enrollment

Year	ICES	ICHS	Total
65/66	168	56	224
66/67	178	56	234
67/68	209	70	279
68/69	204	74	278
69/70	228	78	306
70/71	221	84	305
71/72	281	104	385
72/73	264	105	369
73/74	271	119	390
74/75	263	111	374
75/76	262	186	448
76/77	283	209	492
77/78	283	266	559
78/79	287	251	538
79/80	316	273	589
80/81	341	312	653
81/82	358	315	673
82/83	347	313	660
83/84	366	315	681
84/85	343	307	650
85/86	336	273	609
86/87	337	256	593
87/88	333	244	577
88/89	315	220	535
89/90	317	220	537
90/91	316	225	541
91/92	319	234	553
92/93	333	252	585
93/94	342	259	601
94/95	336	271	607

95/96	313	310	623
96/97	268	346	614
97/98	292	327	619
98/99	264	332	596
99/00	290	324	614
00/01	297	336	633
01/02	264	321	585
02/03	281	326	607
03/04	293	301	594
04/05	303	315	618
05/06	290	289	579
06/07	277	285	562
07/08	271	279	550
08/09	267	278	545
09/10	223	250	473
10/11	228	229	457
11/12	226	228	454
12/13	229	228	457
13/14	244	247	491
14/15	256	229	485
15/16	283	246	529
16/17	237	307	544
17/18	277	327	604
18/19	291	318	609
19/20	314	306	620
20/21	242	290	532
21/22	242	292	534
22/23	251	276	527
23/24	237	303	540





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— Appendix | Operating Cost

Operating and Maintenance Costs

The following are costs associated with general year over year upkeep and maintenance of the buildings.

Category	10-year Average	Area Serviced	Average \$ / ft ²
ICES - Utilities	\$ 33,772	27,600 ft ²	\$1.22
ICES - Maintenance	\$ 58,000	27,600 ft ²	\$2.10
ICSS - Utilities	\$ 82,375	78,000 ft ²	\$1.06
ICSS - Maintenance	\$ 97,200	78,000 ft ²	\$1.24

ICS | Master Facility Plan 2024



	Immanuel Christian Elementary School – Society Office 2010 5 Avenue North Lethbridge, Alberta T1H 0S1 Attention: Jason Ferrie Society Business Manager Dear Mr. Ferrie: Re: Immanuel Christian Elementary School Condition Assessment MPE Engineering Ltd. is pleased to submit this Report for the Imm condition assessment. We appreciate the opportunity to provide our services for this project require additional information, please contact the undersigned at (40 Yours truly,	May 13, 202 File: N:\1151\003-00\R0 nt nanuel Christian Elementary Schoo ct. Should you have any questions o
2010 5 Avenue North File: N:\1151\003-00\RC Lethbridge, Alberta TH THH OS1 Attention: Jason Ferrie Society Business Manager Dear Mr. Ferrie: Re: Immanuel Christian Elementary School Condition Assessment MPE Engineering Ltd. is pleased to submit this Report for the Immanuel Christian Elementary School condition assessment. We appreciate the opportunity to provide our services for this project. Should you have any questions or require additional information, please contact the undersigned at (403) 317-3645 or pgoertzen@mpe.cd Yours truly, MPE ENGINEERING LTD. Amage: Peter Goertzen, P.Eng., LEED A.P. Electrical/Mechanical Engineer	2010 5 Avenue North Lethbridge, Alberta T1H 0S1 Attention: Jason Ferrie Society Business Manager Dear Mr. Ferrie: Re: Immanuel Christian Elementary School Condition Assessment MPE Engineering Ltd. is pleased to submit this Report for the Imm condition assessment. We appreciate the opportunity to provide our services for this project require additional information, please contact the undersigned at (40 Yours truly,	File: N:\1151\003-00\RC nt nanuel Christian Elementary Scho ct. Should you have any questions o
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Electrical/Mechanical Engineer	MPE ENGINEERING LTD.	
Electrical/Mechanical Engineer		
Electrical/Mechanical Engineer	fulla	
Enclosure	-	
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CORPORATE AUTHORIZATION

This report has been prepared by MPE Engineering Ltd. under authorization of the Society Office of Immanuel Christian Schools. The material in this report represents the best judgment of MPE Engineering Ltd. given the available information. Any use that a third party makes of this report, or reliance on or decisions made based upon it is the responsibility of the third party. MPE Engineering Ltd. accepts no responsibility for damages, if any, suffered by a third party as a result of decisions made or actions taken based upon this report.

Should any questions arise regarding content of this report, please contact the undersigned.

MPE ENGINEERING LTD.

Professional Stamp



May 13, 2022

Professional Engineer, P.Eng.

Professional Seal

CARPE Ltd.

Immanuel Christian School Condition Assessment Immanuel Christian Elementary School

PERMIT TO PRACTICE ta . Signature _ APEGA ID ______#68504 Date <u>May 13, 2022</u> PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Corporate Permit

ICS | Master Facility Plan 2024

i

— Appendix | Building Condition Assesment

Immanuel Christian School Condition Assessment Immanuel Christian Elementary School 1.0 INTRODUCTION MPE Engineering Ltd. (MPE) performed site visits, Craig Ambler (Civil/Structural/Architectural), Ife Oyedotun and Peter Goertzen (Mechanical), and Jon Danielson (Electrical), with Jason Ferrie of the Society Office in February 2022 to assess the Immanuel Christian Elementary School (ICES) infrastructure located at 2010 5th Avenue North in Lethbridge, Alberta. The buildings were reviewed based on site, architectural, structural, mechanical, and electrical components. The detailed results of the assessments are in Section 2.0 of this report. The building included in this assessment is the main ICES building. The school structure was built in 3 phases. The original school including the gym was constructed in 1956 which is now the north end of the school. Second phase completed in 1961 is the southwest wing and the third phase completed in 1997 is the southeast wing. All three phases are one story structures,

with flat wood framed roof systems. The roof structures in phases 1 and 2 are supported on masonry load bearing exterior and interior walls, and masonry non-load bearing partition walls. Phase 3 uses conventional load bearing wood framed exterior and interior walls, and non-load bearing wood framed partition walls. All three phases use conventional shallow concrete foundation walls/ grade beams and strip footings/pad footing systems. A concrete slab on grade floor system was used in all three phases.



1.1	Metho	dology
The fo	llowing w	vas evaluated for each building:
•	Buildin	g Envelope:
	0	Roof, Skylights
	0	Windows, doors, exterior walls

- Building Interior Overall Condition
- Mechanical Heating and Ventilation Equipment (including equipment owned by Immanuel Christian Schools)
- Plumbing systems and fixtures
- Electrical Systems (main switchgears and distribution panels)
- Parking/Asphalt and Landscaping

All accessible areas within the buildings were reviewed. Any deficiencies, repairs, and upgrades are noted within the assessment to ensure that the life expectancy of the buildings can be achieved or prolonged, as well as to maintain a safe environment for occupants and improve building efficiencies. Detailed assessments of each building are provided in the following sections.

MPE evaluated each infrastructure system individually using the risk matrix provided below. This matrix uses condition and importance factors to rank each infrastructure need. MPE developed a work plan for each infrastructure system based on these priorities.

Cost estimates of the deficiencies, repairs and upgrades are also provided in this report. Please note that the estimations are high-level estimates, valued to this year. Cost varies significantly depending on the size of the scope, labour availability in the area, and inflation rate. Combining several projects with a similar scope that utilizes a single Contractor will minimize the cost of the overall project.

		Consequence/Impact					
		1-Low	2 – Moderate	3 – High	4 – Intolerable		
	1 – Improbable	Р3	P3	P2	P2		
hooc	2 – Possible	P3	P2	P2	P2		
Likelihood	3 – Likely	P2	P2	P2	P1		
_	4 – Almost Certain	P2	P2	P1	P1		

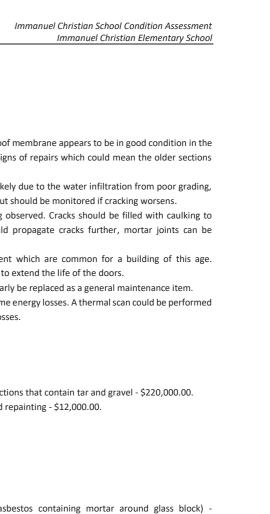
MPE

Immanuel Christian School Condition Assessment Immanuel Christian Elementary School

— Appendix | Building Condition Assesment

 2.1.1 Site Condition The overall site condition is poor. General observations: Parking lots appears to drain well significant evidence of ponding was not noticed in the walkthrough. Parking spaces are maximized on site. Door aprons have settled in a couple locations creating a tripping hazard when entering the building. Barrier free access at these locations have been limited at the locations of these door aprons. Grading around the south and east sides of the building is poor. The grading does not properly shed water away from the building instead it directs it towards the building. 		Immanuel Christian Elementary Schoo
 The overall site condition is poor. General observations: Parking lots appears to drain well significant evidence of ponding was not noticed in the walkthrough. Parking spaces are maximized on site. Door aprons have settled in a couple locations creating a tripping hazard when entering the building. Barrier free access at these locations have been limited at the locations of these door aprons. Grading around the south and east sides of the building is poor. The grading does not properly shed water away from the building instead it directs it towards the building. Utility boxes in the parking lot should be protect. Only 2 bollards on one side leave them exposed to vehicles. Landscape areas appear well maintained although it was difficult to assess due to snow cover. Recommendations: In the next 0-5 Years: MPE recommends to repair grading on the south and east sides of building - \$125,000.00. In the next 10-15 Years: MPE recommends repairing settled concrete door aprons \$10,000.00. 	2.0	BUILDING CONDITION
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• MPE recommends adding bollards and paint existing ones to protect utilities - \$3,000.00.		MPE recommends repairing settled concrete door aprons \$10,000.00.
		In the next 10-15 Years:
Appendix A provides a breakdown of the General Site Condition.		• MPE recommends adding bollards and paint existing ones to protect utilities - \$3,000.00.
		Appendix A provides a breakdown of the General Site Condition.

	Im
	Building Exterior
The ove	erall building exterior is in fair condition.
Genera	I observations:
	Visibility was limited due to snow cover but the roof membrane ap newer roofed section. Older roof sections have signs of repairs w are at or passed their life expectancy. The settlement and cracking of exterior walls is likely due to the w these are not a concern structurally at this time but should be mo Inside and outside of exterior walls had cracking observed. Crac prevent any water or pest infiltration that could propagate or repointed. Doors throughout show some signs of settlement which are of Repainting and realigning doors is recommended to extend the life Caulking around doors and windows should regularly be replaced Skylight on the roof had cracked could result in some energy losses
	to indicate the severity of any increased energy losses.
Recom	mendations:
In the r	next 0-5 Years:
•	MPE recommends a roof replacement of older sections that conta MPE recommends exterior door realignments and repainting - \$12
In the r	next 5-10 Years:
•	None
In the r	next 10-15 Years:
•	MPE recommends repairing broken skylight (asbestos contain \$1,000.00.
Append	dix B provides a breakdown of the condition of the Building Exterio



2024 ICS | Master Facility Plan

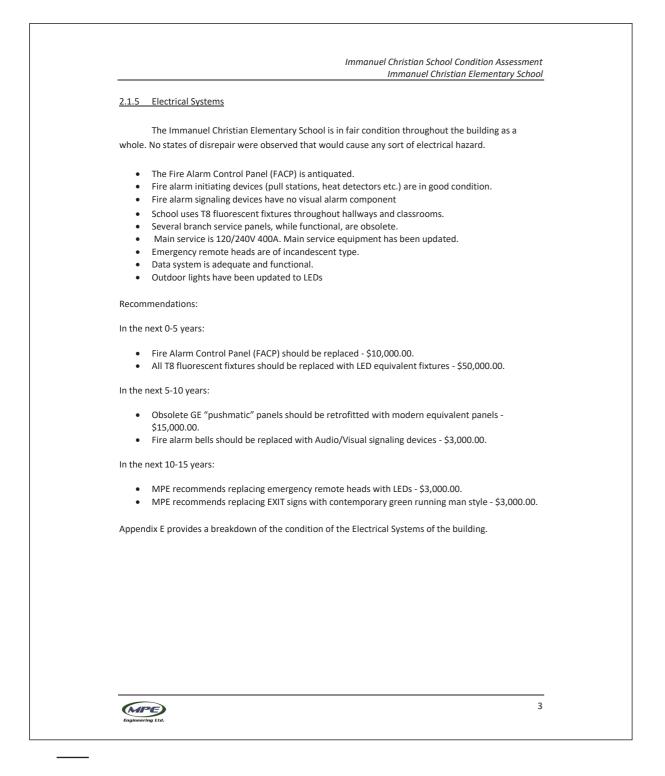
— Appendix | Building Condition Assesment

	Immanuel Christian School Condition Assessme
	Immanuel Christian Elementary Scho
2.1.3 Building	Interior – Overall Conditions
The overall Build	ling Interior is fair.
General observa	tions:
 Floor fin assessm asbestos procedu A storag 	g in several locations is noted but not a concern structurally unless the cracking worsens hishes were chipping and cracking in several locations throughout the building. A hazar ent from 2010 by Sherlock Environmental Services Ltd. indicated the locations of the s containing flooring. These should be abated with proper hazardous materia erres to prevent any health hazards. The space adjacent to the stage in the small gym should not be used as a storage space a wood is not capable to support storage loads without additional members being added.
Recommendatio	ons:
In the next 0-5 Y	lears:
MPE rec	commends a hazardous materials assessment - \$5,000.00.
In the next 5-10	Years:
MPE rec	commends floor tile repairs and hazardous materials abatement - \$100,000.00.
In the next 10-15	5 Years:
• None.	
Appendix C prov	vides a breakdown of the condition of the Building Interior.
MPE	

Imman
2.1.4 Mechanical Systems The overall site condition is fair as there were no immediate is unctional hazard.
Seneral observations:
 Floor drains are in poor condition. The pipe leaving the revealing a poor system. Sump currently is not being monitored. All of the gas furnaces in the mechanical room are in f approaching life expectancy. The 6 Weathermaker 8000 furnaces in the classrooms v life expectancy. Below grade ducts are suspect and should be investigat Exhaust fans are expected to be upgraded when washr
Recommendations:
n the next 0-5 Years:
 MPE recommends the Lennox 80MGF4/5 140A 12 furna - \$10,000.00. MPE recommends the below grade ducts to be investig n the next 5-10 Years:
 MPE recommends a full rehabilitation of site service, \$50,000.00 MPE recommends sump monitoring to be implemented MPE recommends the 7 furnaces installed in 1997 and each) – \$105,000.00.
n the next 10-15 Years:
 MPE recommends the 3 furnaces in the mechanical roc furnaces in classrooms (\$15,000.00 each) to be upgrad MPE recommends that the 9 exhaust fans are upgrad \$9,000.00.

Immanuel Christian School Condition Assessment Immanuel Christian Elementary School
ediate issues with the system causing a safety or
ving the school has been evaluated with a video
are in fair condition, but the 1 Lennox furnace is
rooms were installed in 1997 and are approaching
vestigated further. In washrooms are next upgraded
.2 furnace in the mechanical room to be upgraded investigated - \$2,000.00.
service, sewer and storm lines leaving school –
mented – \$1,000.00 997 and prior to are to be replaced (\$15,000.00
ical room (\$10,000.00 each) and 12 shelve-a-duct upgraded – \$210,000.00. upgraded when the washrooms are upgraded -
e Mechanical Systems of the building.

— Appendix | Building Condition Assesment



			In
3.0		ll, the building is in	fair condition with some
	require	ed. The summary of	f the costs for all the disci
	0-5 Years: Structural: Mechanical: Electrical:	\$434,000.00 \$362,000.00 \$12,000.00 \$60,000.00	
	<u>5-10 Years:</u> Structural: Mechanical:	\$284,000.00 \$110,000.00 \$156,000.00	
	Electrical:	\$18,000.00	
	<u>10-15 Years:</u> Structural: Mechanical: Electrical:	\$229,000.00 \$4,000.00 \$219,000.00 \$6,000.00	
	TOTAL for th	ne next 15 Years:	\$947,000.00
	In the next 15 of the Imman	years, MPE estima uel Christian Eleme	tes a total of \$947,000.00 ntary School building and

MPE

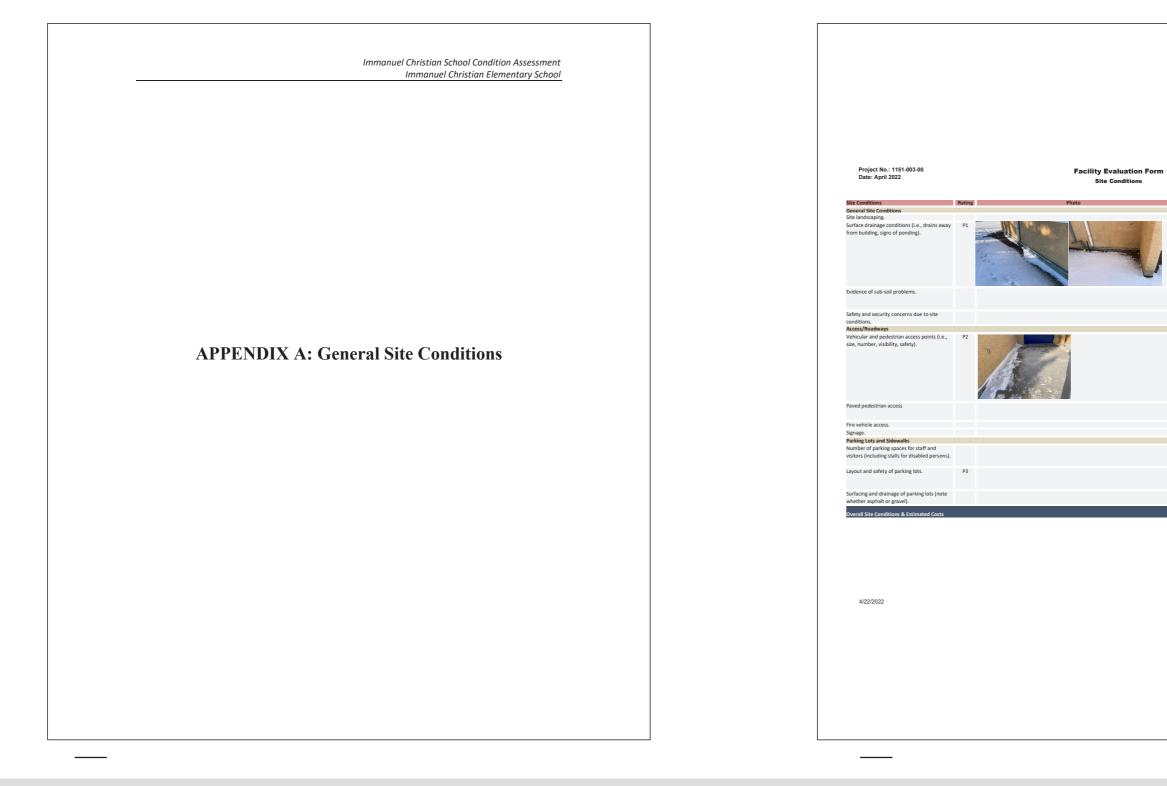
Immanuel Christian School Condition Assessment Immanuel Christian Elementary School

me repairs, replacements, and monitoring isciplines is shown below.

0.00 to be spent on maintenance and upgrades and systems.

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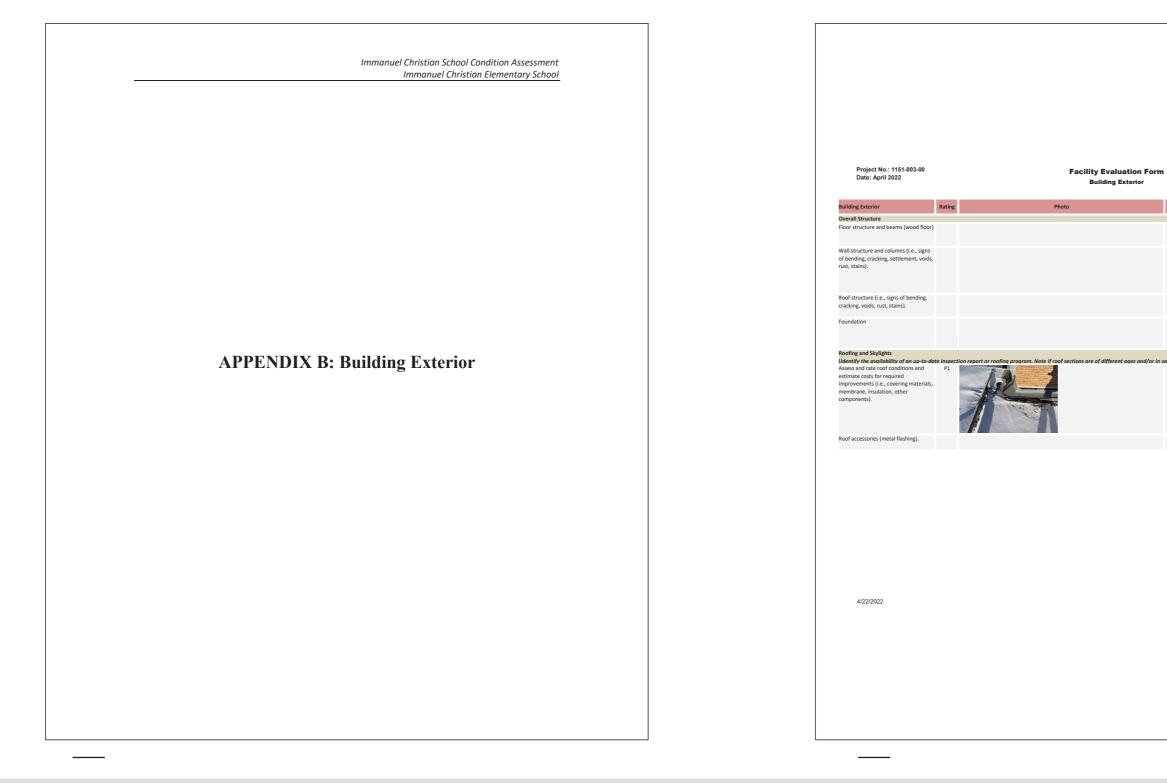




Building: Immanuel Christian Elementary School

Comments/Concerns	E	stim. Cost
No Comments (snow cover)		
To Commence (show over) Grading around the east and south sides of the building is slope towards the building and appears to have caused settlement/heaving issues on the foundations. Regrading should be considered to avoid any further settlement/heaving.	\$	125,000.00
Soils becoming saturated from surface water likely infiltrating into the subsoils. This is caused by grading and drainage issues mentioned previously.		
No Comments		
Settlement at door aprons creates a tripping hazard when entering the building. Barrier free access is limited at more than one doorway due to this settlement. Replacing the apron would allow for better barrier free access at all doors.	Ş	10,000.00
Asphalt appears to be in good condition. Raised edges are pulling away from building where grading has settled along the interior.		
No Comments		
Parking is near some utility boxes/poles, bollards would be recommended to prevent damage to utilities and make this area more noticeable.	\$	3,000.00
Parking lots appear to drain towards the alley.		
	\$	138,000.00





Building: Immanuel Christian Elementary School

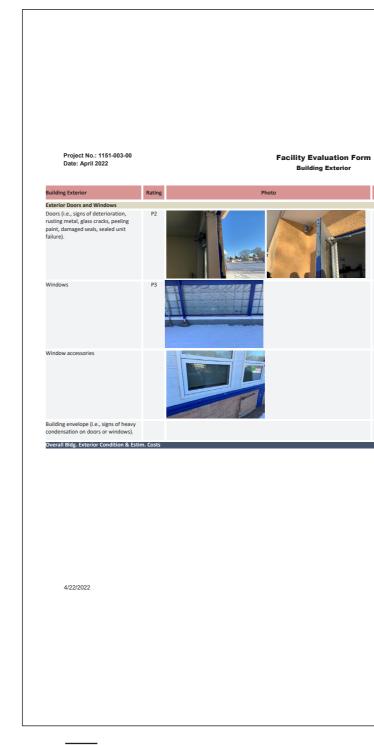
	Bldg. Section	Description/Condition	Estim. Cost
	All Sections	Settlement/heaving throughout the building have created some uneven floors. Continual monitoring is recommended to indicate continous movement.	
	All Sections	Cracking is evident throughout the the south end of the building likely due to settlement. Outer cracks should be caulked regularly to prevent water infiltration. No major structural concerns noted at this time but cracks should be monitored if they continue to worsen. Mortar joints should be repointed where cracking is present.	
	All Sections	No Comments. Limited visibilty of roof structure.	
	All Sections	Cracking of walls and floors throughout the building make it appear that the foundations are shifting slightly. This is likely due to the poor water drainage of the building and subsoils are likely to be saturated during wet seasons.	
s and/or in v	arvina stat	es of repair.)	
	All Sections	Newer portions of roof appear to be in good condition. The older roof sections have signs that previous leaks have occurred. Re- roofing the older sections would be recommended in the near future as the roof appears that it has met or exceeded its intended life cycle.	\$ 220,000.00
	All Sections	Appears to be in good condition	

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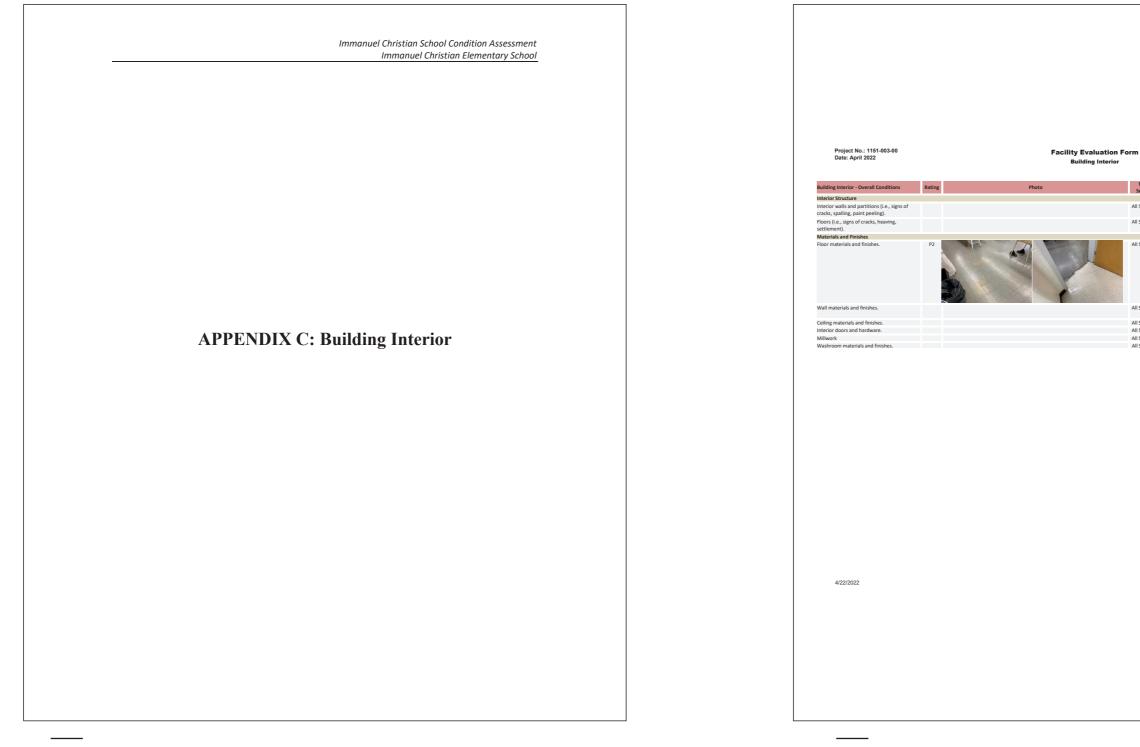
Building: Immanuel Christian Elementary School

Bldg. Section	Description/Condition	Estim. Cost
All Sections	Doors and doorframes are rubbing in several places. Several doors have been shaved down, staff noted seasonal shifts in the doors have made it it difficult to maintain proper service of doors. Door alignments would be recommended to allow doors to open and close properly. This will also help weather stripping to work propely on all sides and prevent excessive energy losses.	\$ 12,000.00
All Sections	Skylight window above gym has cracked. Window should be replaced to limit any energy losses.	\$ 1,000.00
All Sections	Windows and caulking apper to be in fair condition. Caulking is considered a general maintenance item and should be refinished regularly.	
All Sections	No Comments further than what has previously been stated.	
		\$ 233,000.00

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2024

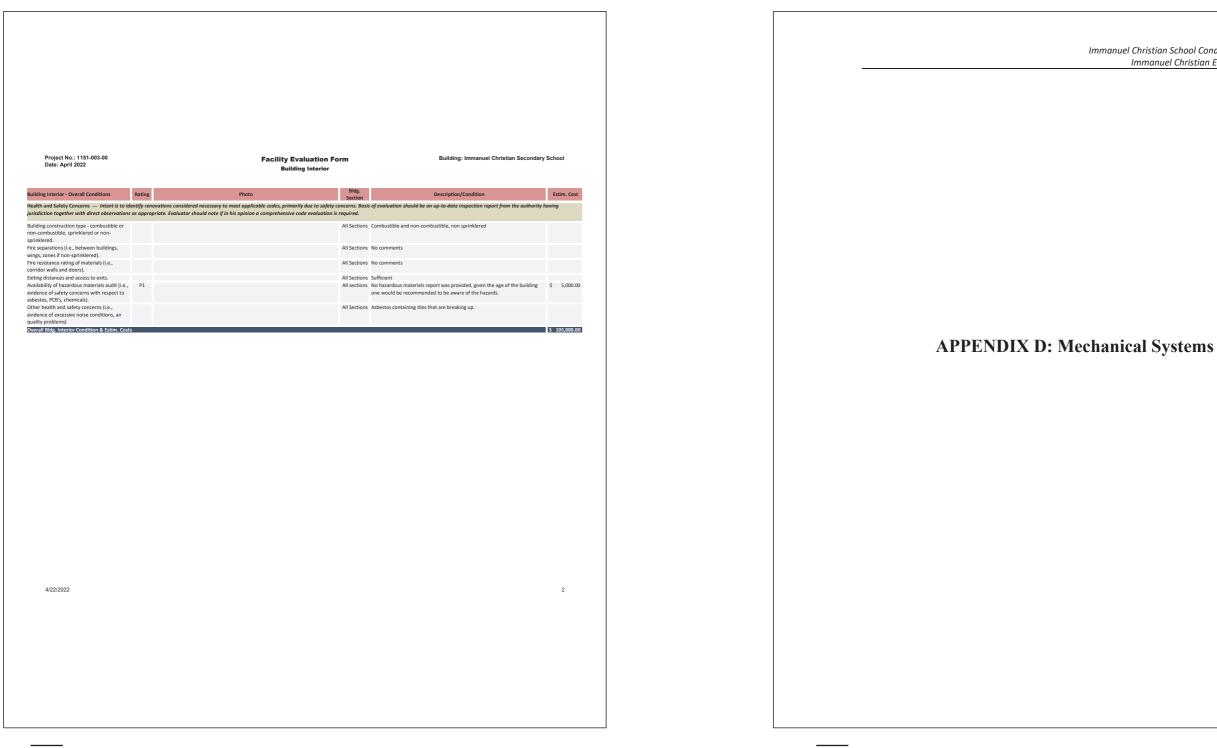




Building: Immanuel Christian Secondary School

Bldg. Section	Description/Condition	Estim. Cost
All Sections	Interior walls have occasional cracks due to settlement. Not a major structural concern.	
All Sections	Settlement/heaving throughout the building have created some uneven floors.	
All Sections	Floor finished have been chipped off or damaged due to building movement. Most of the tiles in these floors are askerstos containing materials (ACM) and should be replaced with that in mind, especially if chipping continues to worsen. Abatement of ACMs and replacement would be recommended in these areas.	\$ 100,000.00
All Sections	Occasional cracks throughout, repainting or caulking can help reduce the appearance of cracks.	
All Sections	No comments	

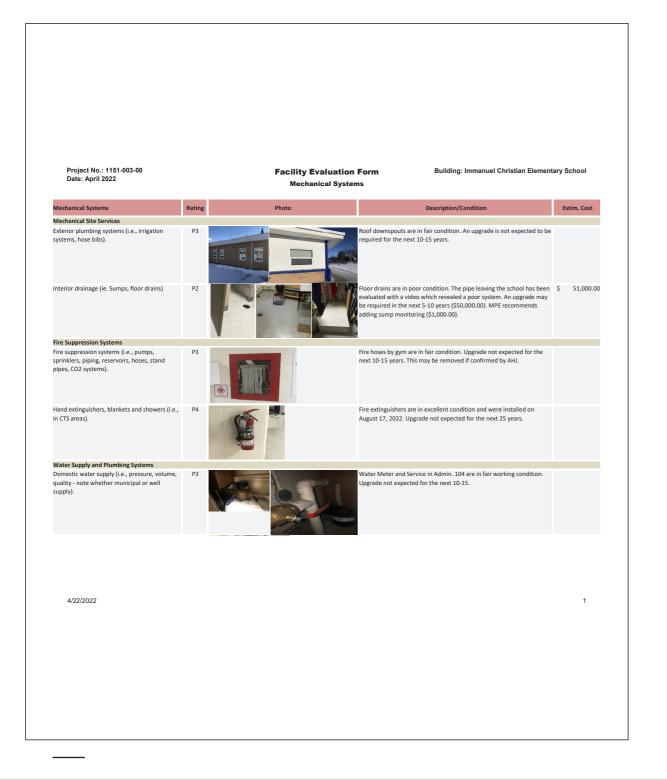


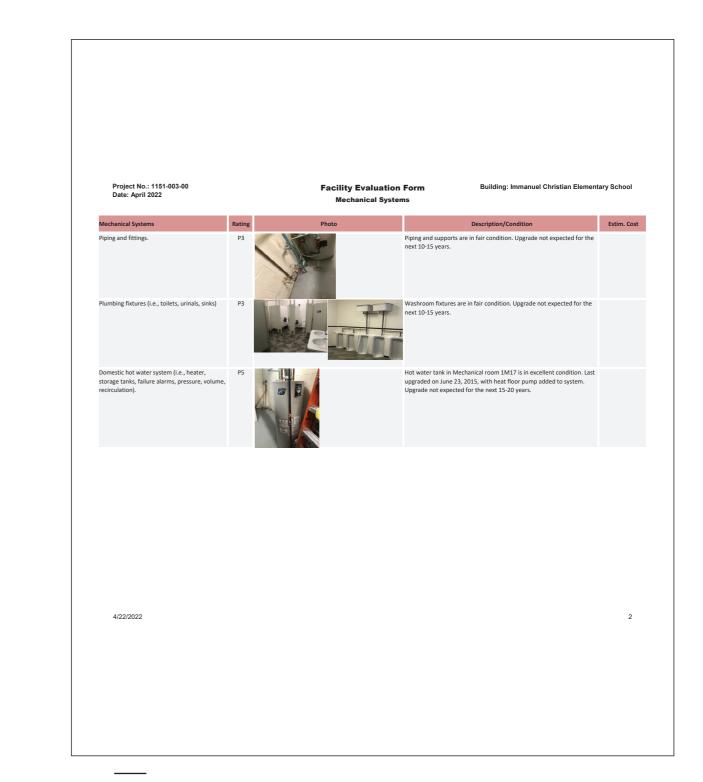


Immanuel Christian School Condition Assessment Immanuel Christian Elementary School

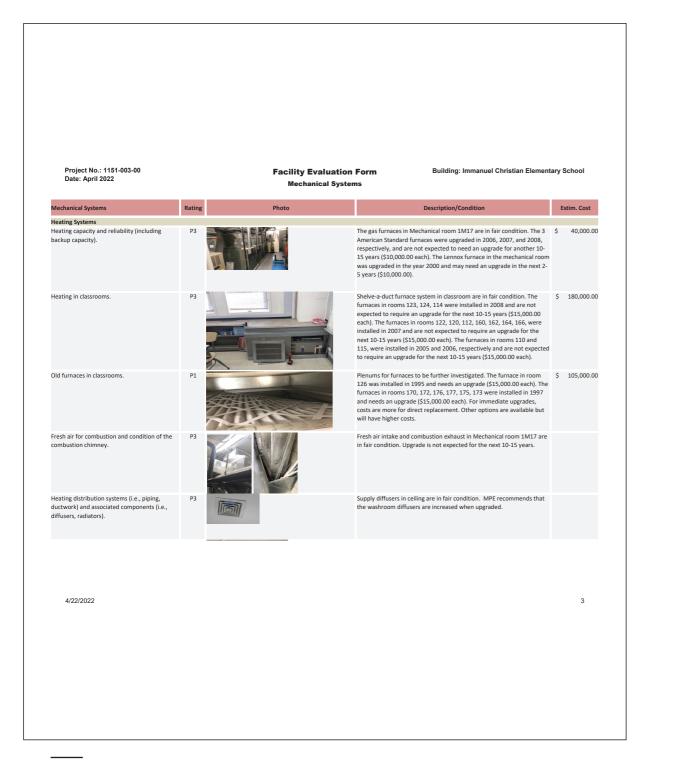
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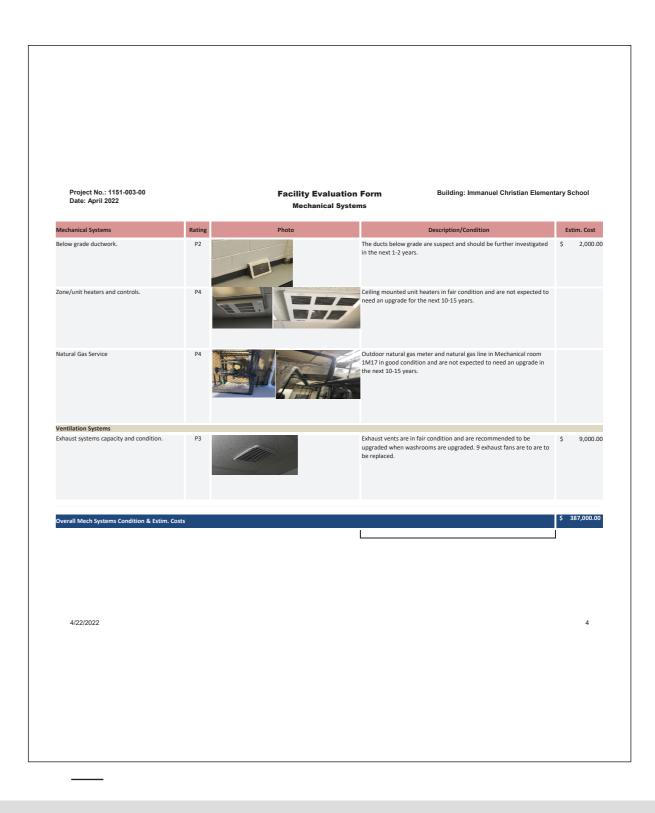




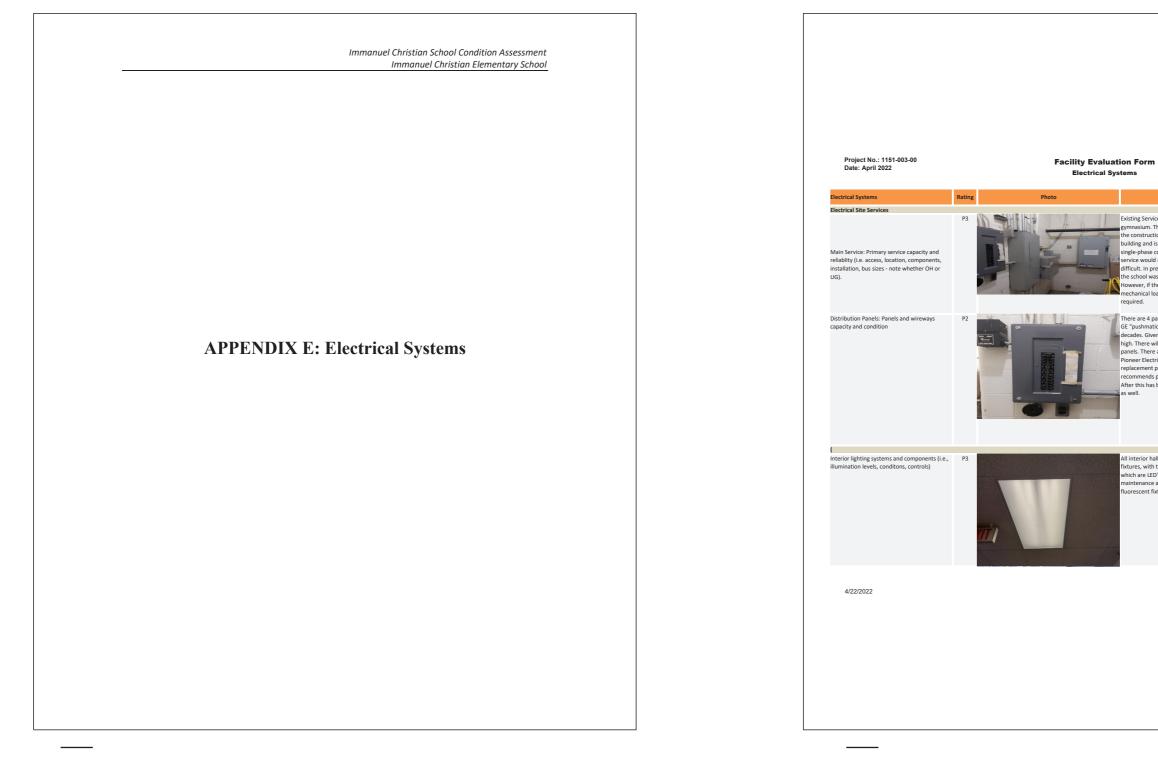






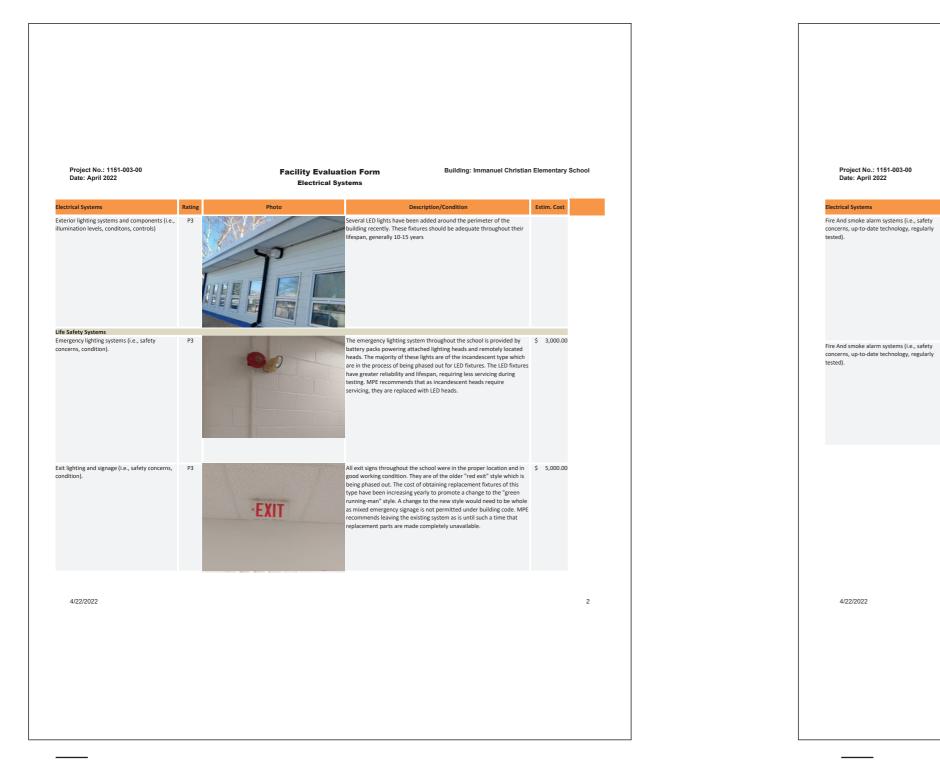


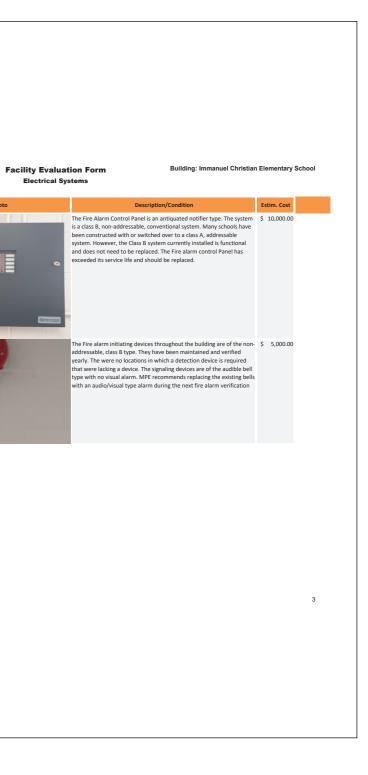




Building: Immanuel Christian Elementary School







Rating

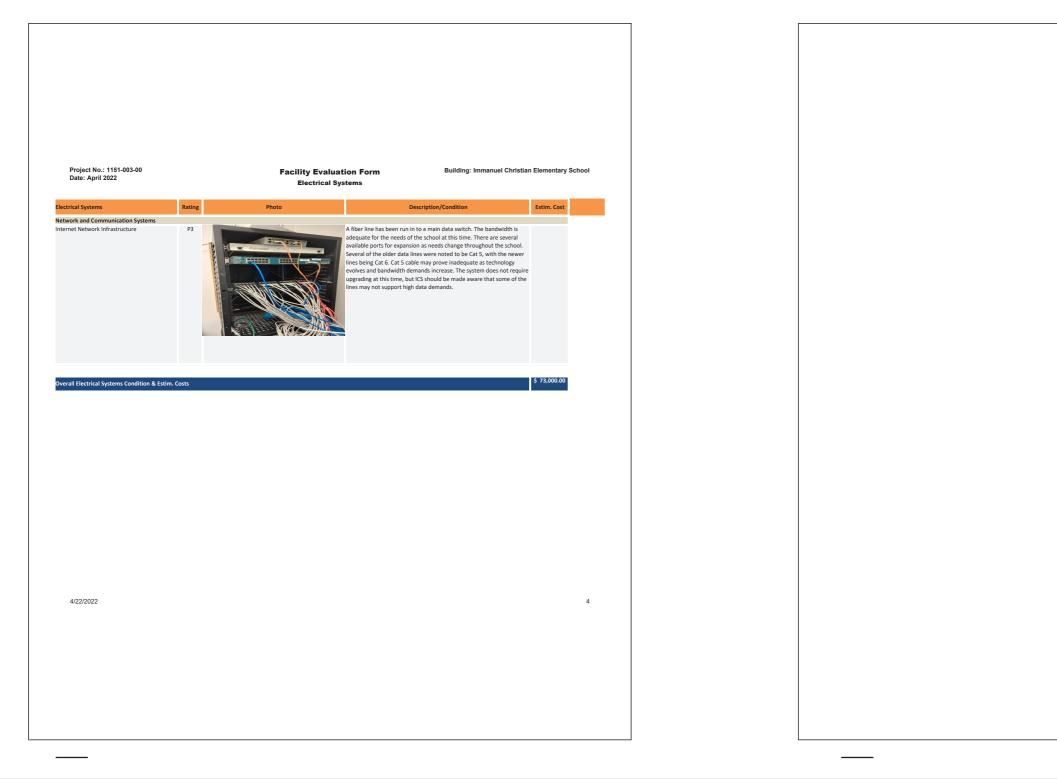
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2024 ICS | Master Facility Plan



Suite 300, 714-5 th Avenue South Lethbridge, AB T1J 0V1 Phone: 403-329-3442 Fax: 403-329-9354	Engineering Ltd.
Immanuel Christian Secondary School – Society Office 802 6 Avenue North Lethbridge, Alberta T1H 0S1	January 10, 2023 File: N:\1151\003-00\R01R1
Attention: Jason Ferrie Society Business Manager	
Dear Mr. Ferrie:	
Re: Immanuel Christian Secondary School Condition Asses	ssment
MPE Engineering Ltd. is pleased to submit this Report for th condition assessment.	he Immanuel Christian Secondary School
We appreciate the opportunity to provide our services for this require additional information, please contact the undersigned	
Yours truly,	
MPE ENGINEERING LTD.	
Peter Goertzen, P.Eng., LEED A.P.	
Electrical/Mechanical Engineer	
Enclosure	

CORPORATE AUTHORIZATION

This report has been prepared by MPE Engineering Ltd. under authorization of the Society Office of Immanuel Christian Schools. The material in this report represents the best judgment of MPE Engineering Ltd. given the available information. Any use that a third party makes of this report, or reliance on or decisions made based upon it is the responsibility of the third party. MPE Engineering Ltd. accepts no responsibility for damages, if any, suffered by a third party as a result of decisions made or actions taken based upon this report.

Should any questions arise regarding content of this report, please contact the undersigned.

MPE ENGINEERING LTD.

Professional Stamp



January 10, 2023

Professional Engineer, P.Eng.

Professional Seal

Engineering Ltd.

Immanuel Christian School Condition Assessment Immanuel Christian Secondary School

PERMIT TO PRACTICE

fa. Signature ____ APEGA ID ______#68504 Date January 10, 2023 PERMIT NUMBER: P 3680 The Association of Professional Engineers and Geoscientists of Alberta (APEGA)

Corporate Permit

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— Appendix | Building Condition Assesment

Immanuel Christian School Condition Assessment Immanuel Christian Secondary School

1.0 INTRODUCTION

MPE

MPE Engineering Ltd. (MPE) performed site visits, Craig Ambler (Civil/Structural/Architectural), Ife Oyedotun and Peter Goertzen (Mechanical), and Jon Danielson (Electrical), with Jason Ferrie of the Society Office in February 2022 to assess the Immanuel Christian Secondary School (ICSS) infrastructure located at 802 6th Avenue North in Lethbridge, Alberta.

The buildings were reviewed based on site, architectural, structural, mechanical, and electrical components. The detailed results of the assessments are in Section 2.0 of this report. The building included in this assessment included the main ICSS building.



Methodology		
llowing was evaluated	for each building:	
Building Envelope:		
 Roof, Skyligh 	its	
• Windows, do	oors, exterior walls	
Building Interior – Ov	verall Condition	
Mechanical Heating	and Ventilation Equ	uipment (in
Christian School)		
Plumbing systems ar	nd fixtures	
Electrical Systems (m	nain switchgears an	d distributi
Irrigation		
ments of each building valuated each infrastr ondition and importan nfrastructure system b stimates of the deficie timations are high-lev the scope, labour av	g are provided in th ucture system indiv ice factors to rank e ased on these prior ncies, repairs and u el estimates, value ailability in the are	e following vidually usi each infrast rities. upgrades ar d to this ye ea, and infl
		Co
	1 – Low	2 – Mode
1 – Improbable	P3	P3
2 – Possible	P3	P2
3 – Likely	P2	P2
4 – Almost Certain	P2	
	Ilowing was evaluated Building Envelope:	Ilowing was evaluated for each building: Building Envelope: • Roof, Skylights • Windows, doors, exterior walls Building Interior – Overall Condition Mechanical Heating and Ventilation Equ Christian School) Plumbing systems and fixtures Electrical Systems (main switchgears an Irrigation essible areas within the buildings were rethe assessment to ensure that the life esting as to maintain a safe environment for ments of each building are provided in the valuated each infrastructure system indition dimportance factors to rank on frastructure system based on these prior stimates of the deficiencies, repairs and utimations are high-level estimates, value if the scope, labour availability in the areast or scope that utilizes a single Contractor within the scope has utilized as a single Contractor within the scope has utilized as a single Contractor within the scope has utilized as a single Contractor within the scope has utilized as a single Contractor within the scope has a single contractor within the scope



Immanuel Christian School Condition Assessment Immanuel Christian Secondary School

including equipment owned by Immanuel

tion panels)

ny deficiencies, repairs, and upgrades are noted of the buildings can be achieved or prolonged, s and improve building efficiencies. Descriptive ag sections.

sing the risk matrix provided below. This matrix structure need. MPE developed a work plan for

are also provided in this report. Please note that year. Cost varies significantly depending on the flation rate. Combining several projects with a se the cost of the overall project.

onsequence/Impact			
derate	3 – High	4 – Intolerable	
3	P2	P2	
2	P2	P2	
2	P2	P1	
2	P1	P1	

- Appendix | Building Condition Assesment

	Immanuel Christian Secondary School		
2.0	BUILDING CONDITION		
	2.1.1 Site Condition		
	The overall site condition is good.		
	General observations:		
	 Parking lots appears to drain well significant evidence of ponding was not noticed in the walkthrough. 		
	Minimal parking is available due to the building placement on the lot. Parking blocks appear to be shifted which can be a beaud when parking because of missing parts.		
	 shifted which can be a hazard when parking because of misalignment. Pedestrian sidewalks are present along the main entrances providing good access to the building. 		
	One egress point has a non-building code conforming landing as stated in the table.		
	 The irrigation box on the Northeast corner of the building is open and should be closed to limit any pest infestation or vandalism. 		
	 Landscape areas appear well maintained although it was difficult to assess due to snow cover. 		
	Recommendations:		
	In the next 0-5 Years:		
	• MPE recommends adding the landing to the one egress point west of the main entrance - \$6,000.00.		
	• MPE recommends adding a lid or cover to the irrigation box to deter vandals - \$1,000.00.		
	In the next 5-10 Years:		
	None		
	In the next 10-15 Years:		
	None		
	Appendix A provides a breakdown of the General Site Condition.		

2.1.2 Building Exterior The overall building exterior is in good condition. General observations: Roofing was difficult to assess due to snow cover. Roof membrane had limited bubbling and alligator cracking in some locations on the roof. Roof drain strainers had been knocked off the drains which can cause some clogging of drains. A thermal scan on the roof membrane could be performed to indicate if there are any issues/leaks in the roof membrane. • Water infiltration was observed in the boiler room causing damage to the drywall and finished in that area. Infiltration appears to be due to a roof/wall joint leak. • Occasional cracks were noted in the construction and/or mortar joints. Block walls had peeling paint in considered a general maintenance item. Foundation walls around the exterior had some honeycombing from original construction. Occasional corrosion • Doors throughout show some signs of settlement which are common for a building of this age and are not a concern. Repainting and realigning doors is recommended to extend the life of the doors. • Caulking around doors and windows should regularly be replaced as a general maintenance item.

Recommendations:

In the next 0-5 Years:

- MPE recommends repairing water leaks in the boiler room that is exposing some of the insulating material and soaking drywall - \$5,000.00
- MPE recommends exterior block wall cracking, mortar joint repairs and repainting after repairs -\$3,000.00.

In the next 5-10 Years:

- MPE recommends roof replacement of aging roof systems -\$180,000.00.
- MPE recommends exterior door adjustments and repainting \$6,000.00.

In the next 10-15 Years:

- MPE recommends repainting of metal siding where it is showing signs of aging \$30,000.00.
- MPE recommends repairing drainage pipe connections \$1,000.00.

Appendix B provides a breakdown of the condition of the Building Exterior.



Immanuel Christian School Condition Assessment Immanuel Christian Secondary School

some locations. These exterior walls should be repaired regularly to prevent water infiltration and is

cracks were also observed but are not a structural concern at this time as there are no signs of rebar

• Drainage pipe connection show deteriorating wood and fasteners that should eventually be replaced.

• MPE recommends repairing/replacing roof drain screens - \$2,000.00.

— Appendix | Building Condition Assesment

2.1.3	Building Interior – Overall Conditions
The ov	erall Building Interior is good.
Gener	al observations:
•	Small gym floor has heaving evidence throughout the floor. A previous observation has commenced but does not appear to be complete. Further observation may be required. The large gym floor has an uneven surface due to being in a construction joint. This is not concern with the structure as some settlement or heaving can be expected with the new construction. This does cause some concern with the performance of the floor as it is not entired flat. A storage space adjacent to the stage in the small gym should not be used as a storage space a the plywood is not capable to support storage loads without additional members being added. Hazardous material concerns were noted in the tables and should be abated if possible. Walls, floor and ceiling finishes show signs of wear and tear and occasional damage, but these ar only cosmetic concerns at this time.
Recon	mendations:
In the	next 0-5 Years:
•	MPE recommends having hazardous materials testing and if necessary, abatement in area indicated in the - \$5,000.00. Storage space at both ends of stage, needs to be better supported - \$1,000.00.
In the	next 5-10 Years:
•	MPE recommends mall gym floor repairs, a solution was provided in a previous review, it was recommended to notch joists to alleviate the heaving. Joist repairs- \$6,000.00. Repair/replacement of cracked floor finishes. The flooring should be included in the hazardou materials assessment - \$6,000.00.
n the	next 10-15 Years:
•	MPE recommends interior door alignments/repainting - \$4,000.00. MPE recommends cosmetic damage repairs to interior wall finishes - \$5,000.00.
	dix C provides a breakdown of the condition of the Building Interior.

	Im
2.1.4	Mechanical Systems
The ov	verall site condition is fair as there were no immedi
functio	onal hazard.
Gener	al observations:
•	Municipal water supply piped with copper and in
	domestic and irrigation.
•	The site service, sewer and storm lines leaving the
•	Some supports made from galvanized steel are se
	different material.
•	Asbestos in the Maintenance Shop to be abated be
•	Piping and conduit penetrations in basement are n
•	Domestic water heaters are in excellent condition
	heaters is at risk of corroding in contact with copp
•	Recirculating pumps are in fair condition.
•	Floor heat pumps by Grundfos are no longer in op
•	Air handling units are in fair condition.
•	RTUs are in fair condition.
•	Boilers and venting are in fair condition.
•	The exhaust fans for the washrooms are aging.

• Kitchen is missing exhaust hoods.

Recommendations:

In the next 0-5 Years:

- before next upgrade \$3,000.00.
- corroding \$1,000.00.
- Install temperature and time controls on recirculating pumps to prevent wearing and save energy - \$1,000.00.
- operational when external temperatures are below -5 degrees Celsius N/A.
- containing grease laden vapours are to be cooked to avoid cooking fumes and smoke. Installation of exhaust hoods is recommended - \$1,500.00.



nmanuel Christian School Condition Assessment Immanuel Christian Secondary School

diate issues with the system causing a safety or

a fair condition with separate water meters for

e school are suspect due to aging. everely corroded and need to be replaced with

efore the next upgrade.

not all fire caulked.

on. Aluminum cable sheath on domestic water per pipe for water heater.

peration.

• Corroded supports made from galvanized steel are to be replaced and asbestos to be abated

• Piping and conduit penetrations in basement and around school to be fire caulked – \$2,500.00. • Aluminum cable sheath in contact with copper pipe for DWHs are to be rerouted to avoid

• MPE recommends the settings of the Grundfos floor heat pumps to be reviewed to make system

• MPE recommends the ventilation in the kitchen to be investigated for adequacy and no foods

— Appendix | Building Condition Assesment

	Immanuel Christian Secondary School
In the next 5-10 Ye	ears:
lines leaviCheck pipeMPE recorupgraded	nmends a video evaluation before a full rehabilitation of site service, sewer and storm ng school. – \$50,000.00. e supports for pinhole leaks and add leak sensor to trigger BMS if pump fails – \$1,000.00. nmends all the older exhaust fans for washrooms to be replaced as the washrooms are – \$5,000.00. ng units should be upgraded – \$260,000.00.
In the next 10-15	/ears:
drainage - MPE recor MPE recor MPE expe MPE recor - \$10,000. The radiar Ceiling mc Roof top u MPE recor In the next 15-20 M The dome Washroom	nt cabinets may need an upgrade – \$600,000.00. Nunted unit heater may need an upgrade - \$2,500.00. Init should be upgraded - \$7,000.00. Nmends the Exhaust hoods in the outdoor education room to be replaced - \$3,000.00
In the next 20 year	'S:
The water	treatment system for boiler room may need an upgrade - \$30,000.00.
Appendix D pr	ovides a breakdown of the condition of the Mechanical Systems of the building.

<u>2.1.5</u>	Electrical System
buildin	The Immanuel Christian Secondary School electric g as a whole. No states of disrepair were observed t
-	

General observations:

- Main Service appears in good condition but is past the recommended service life.
- Branch circuit panels are functional. These panels are manufactured by FPE.
- Hallway/Classroom/Office lighting has been updated.
- Gymnasium lighting is T5 fixtures.
- Emergency lighting system is functional. Most emergency lights are incandescent.
- Exit signs are of older "EXIT" style.
- Fire Alarm Control Panel (FACP) is in good condition.
- Fire alarm initiating and signaling devices are in good condition.
 - Telephone system is original to the building and functional.
 - Data system is functional and adequate.

Recommendations:

In the next 0-5 Years:

- MPE recommends replacing the main service as it is approaching the point of where a failure is more probable. The age of the equipment makes finding replacement parts in the event of a failure very difficult. - \$50,000.00.
- MPE recommends replacing the gymnasium fixtures with LED equivalent \$25,000.00.

In the next 5-10 years:

• MPE recommends replacing all FPE circuit panels with contemporary panels using easily acquired breakers - \$25,000.00.

In the next 10-15 years:

- MPE recommends replacing incandescent remote heads with LED equivalent \$5,000.00. • MPE recommends replacing "EXIT" signs with contemporary green running man style - \$3,000.00.

Appendix E provides a breakdown of the condition of the Electrical Systems of the building.

MPE
Engineering Ltd.

Immanuel Christian School Condition Assessment Immanuel Christian Secondary School

- al system is in fair condition throughout the that would cause any sort of electrical hazard.

ICS MFP.

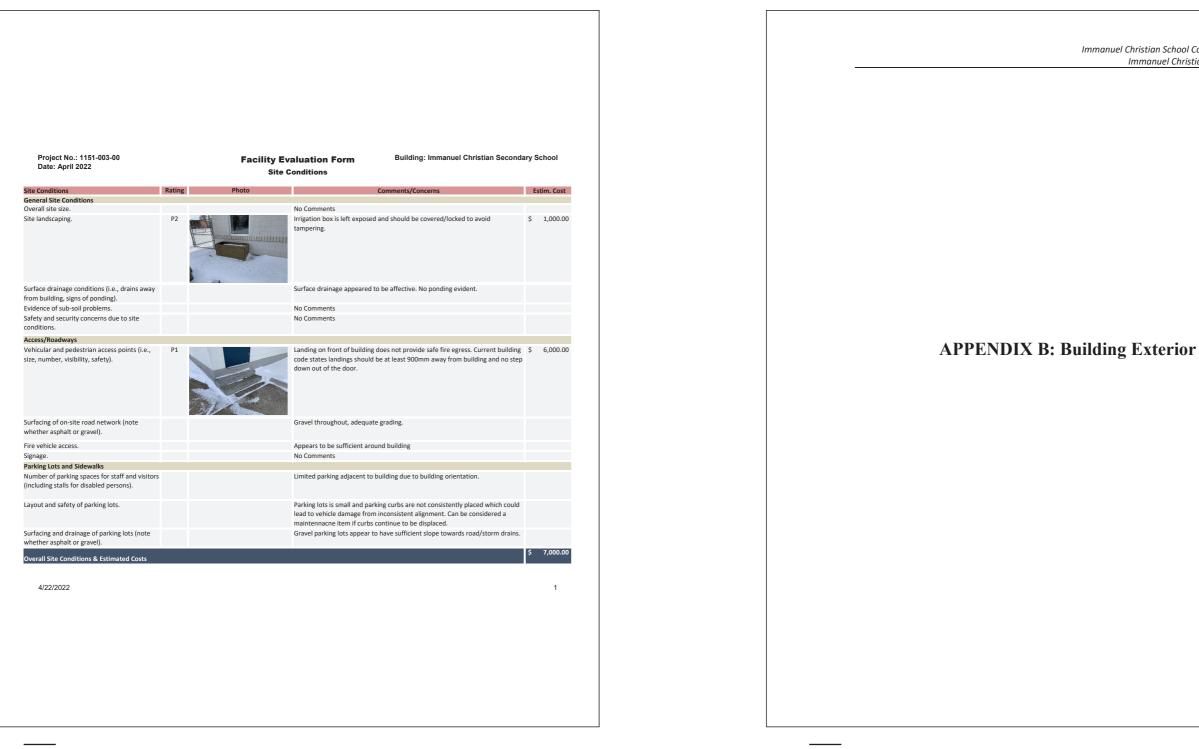
— Appendix | Building Condition Assesment

	Immanuel Christian School Condition Assessment Immanuel Christian Secondary School	Im
3.0	CONCLUSION Overall, the building is in fair condition with some repairs, replacements, and monitoring required. The summary of the costs for all the disciplines is shown below.	
	0-5 Years:\$107,000.00Structural:\$23,000.00Mechanical:\$9,000.00Electrical:\$75,000.00	
	5-10 Years: \$539,000.00 Structural: \$198,000.00 Mechanical: \$316,000.00 Electrical: \$25,000.00	
	10-15 Years: \$931,500.00 Structural: \$40,000.00 Mechanical: \$883,500.00 Electrical: \$8,000.00	
	TOTAL for the next 15 Years:\$1,577,500.00In the next 15 years, MPE estimates a total of \$1,577,500.00 to be spent on maintenance and upgrades of the Immanuel Christian Secondary School building and systems.	APPENDIX A: Genera
	Beyond this total for the next 15 years, some mechanical components are expected to need to be replaced in the next 15-25 years with a total cost of \$273,000.00. However, cost estimates beyond 15 years are beyond the scope of this assessment and would need further inspection for a more accurate estimate.	

mmanuel Christian School Condition Assessment Immanuel Christian Secondary School

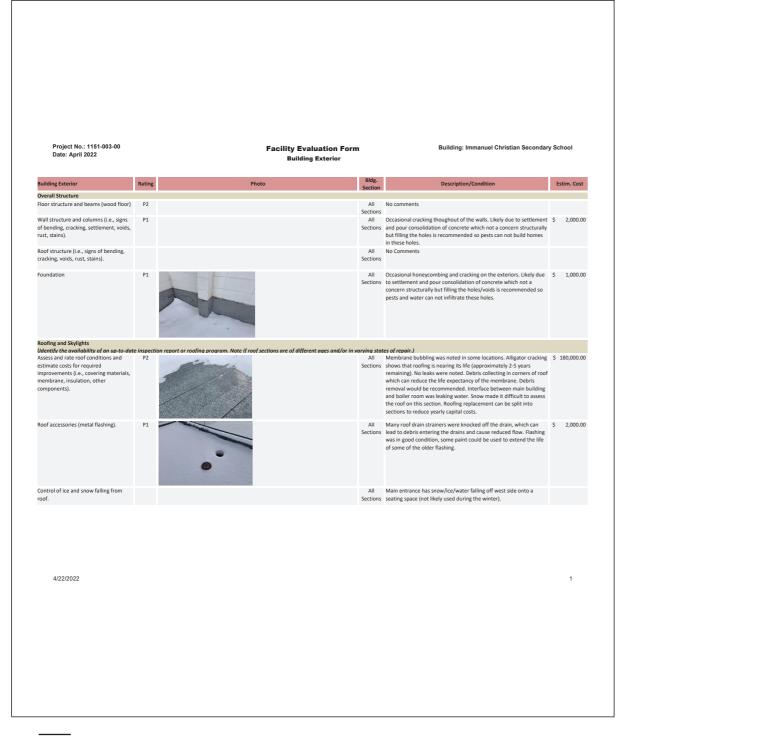
al Site Conditions





Immanuel Christian School Condition Assessment Immanuel Christian Secondary School







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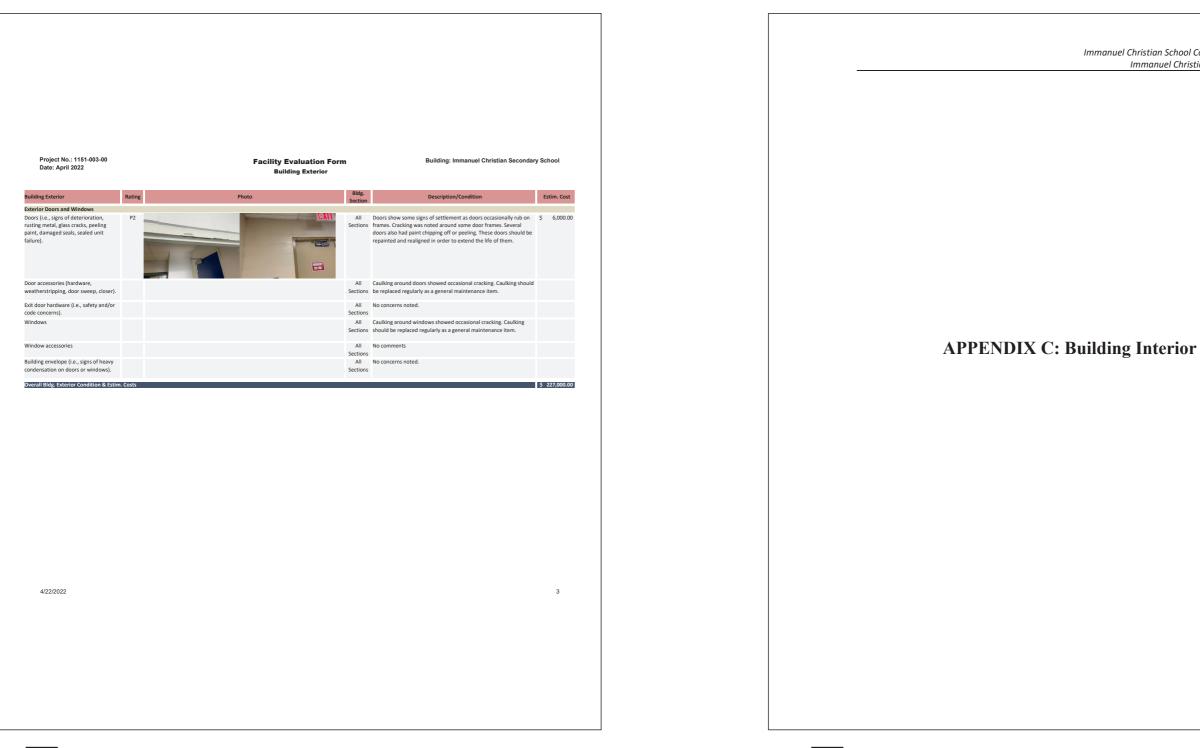
Building: Immanuel Christian Secondary School

	Bldg. Section	Description/Condition	E	stim. Cost
	All Sections	Block mortar has occasional cracking, not a structural concern but may create water penetrations which can propagate cracking. Plant on block was showing sign of age and peeling in some locations. Cracks should be filled with silicone to prevent any water infiltration, this is considered a general maintenance item.		
	All Sections	The metal siding is showing signs of aging in some locations. Repainting can extend the life of these products and give it an updated appearance but is not imperative at this time.	\$	30,000.00
1	All Sections	Boiler room has water entering it and has caused what appears to be mould coming into the area. Water leakage has damaged drywall. Leaks should be repaired and mould should be abated.	\$	5,000.00
	All Sections	Drainage pipe on east side of building is attached to exposed wood. Wood is deteriorating and fasteners are rusting. This appears to be draining for an emergency scupper so replacement does not require immediate attention.	\$	1,000.00
	All Sections	Cracking in the mortar joints was noted in several locations Likely due to foundation settlement. Not a structural concern.		

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2024

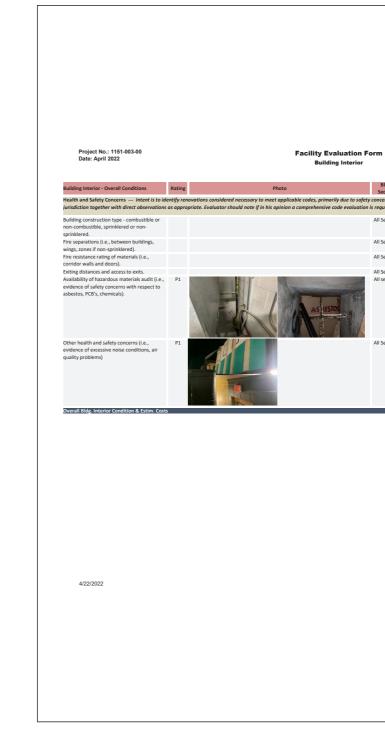




Immanuel Christian School Condition Assessment Immanuel Christian Secondary School





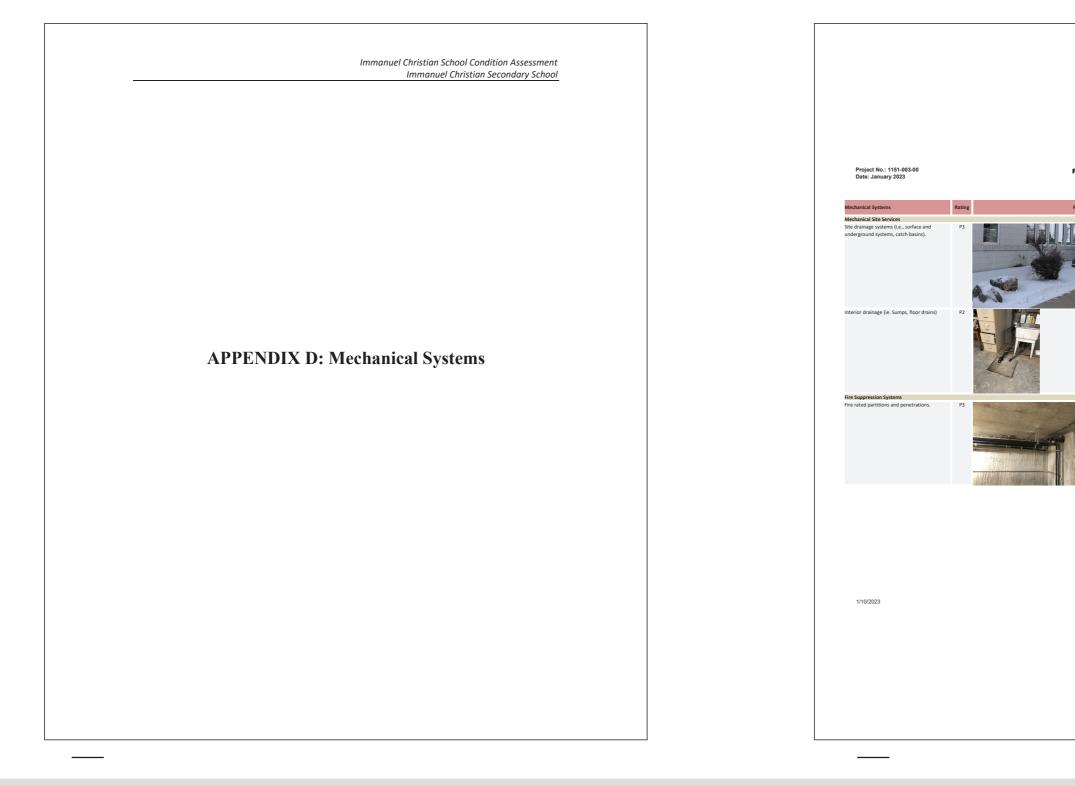


Building: Immanuel Christian Secondary School

	Bldg.			
	Section	Description/Condition	Es	tim. Cost
		sis of evaluation should be an up-to-date inspection report from the authority	havi	ng
ation i	s required.			
	All Sections	Combined non combustible and combustible. Non Sprinklered		
	All Sections	No comments		
	All Sections	No comments		
	All Sections	Sufficient		
	All sections	Boiler room had vermiculte leaking out of the walls onto the floor. This is to be treated as an absets containing material and should be remediated and sealed up immediately to mimimize any health hazards to building occupants. Testing was completed post walk through and it was determined that the material was not asbests containing. Small gym had a location that possibly contains asbestos. This area should be blocked off to avoid disturbance.	\$	5,000.00
	All Sections	Storage spaces above stage stairs in small gym appear to be over loaded. There are no members supporting the large span of plywood being used as support. These spaces should not be used for storage until the area can be reinforced properly.	\$	1,000.00
			ŝ	27.000.00

2024





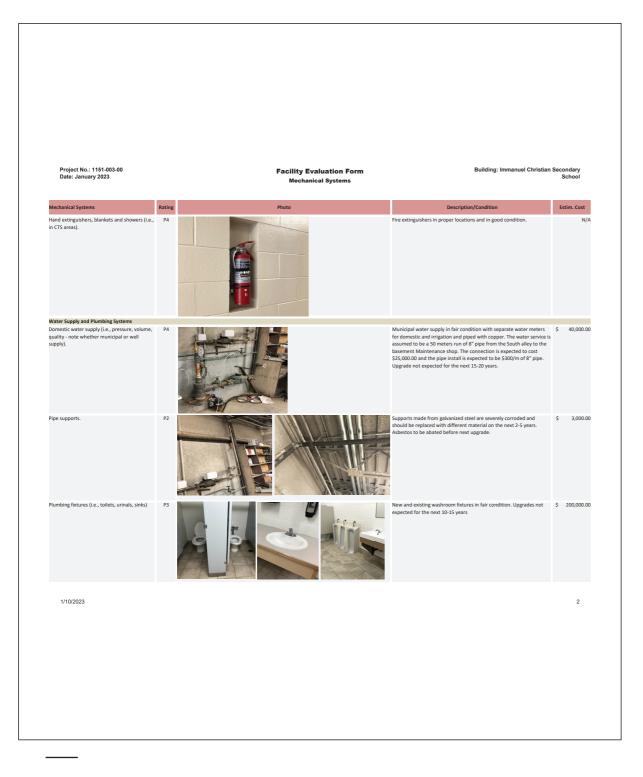
Facility Evaluation Form

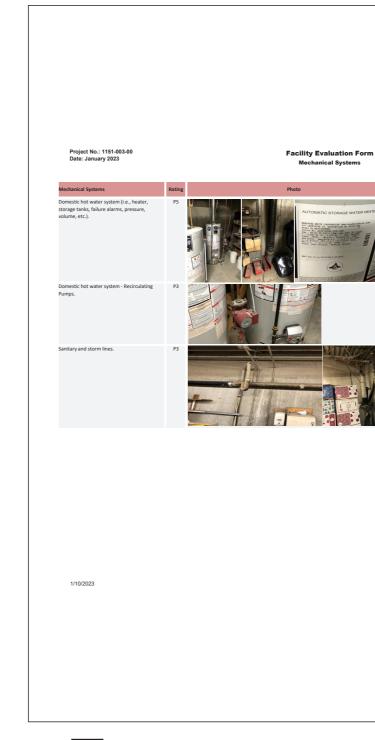
anical Sv

Building: Immanuel Christian Secondary School

Description/Condition	Estim. Cost
Outdoor drains in fair condition. Ensure adequate roof drains are present. Upgrades not expected for the next 10-15 years.	\$ 70,000.00
Floor sump in Maintenance Shop in fair condition. The site service, sever and storm lines leaving the school have been evaluated with a video which revealed a poor system. An upgrade may be required in the next 5-10 years (550,000.00). MPE recommends to check supports for pinhole leaks and add leak sensor in the next 5-10 years to trigger BMS if pump fails (\$1,000.00).	\$ 51,000.00
Piping and conduit penetrations in basement Storage 024E requires fire caulking. Wall penetrations through the wall in the Storage 001 area to be fire rated immediately as the door to Storage room is fire rated. Fire separations in general are fairly sufficient.	\$ 2,500.00
	1







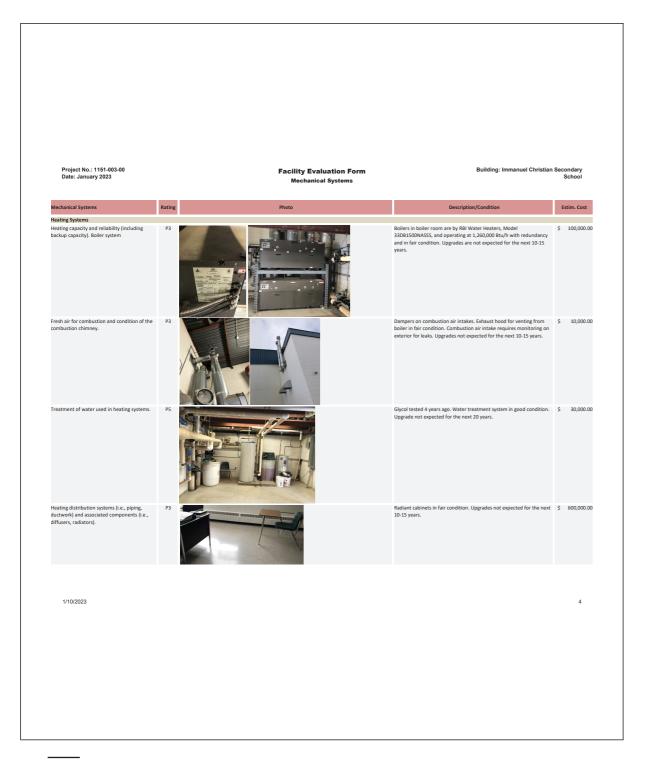
Building: Immanuel Christian Secondary School

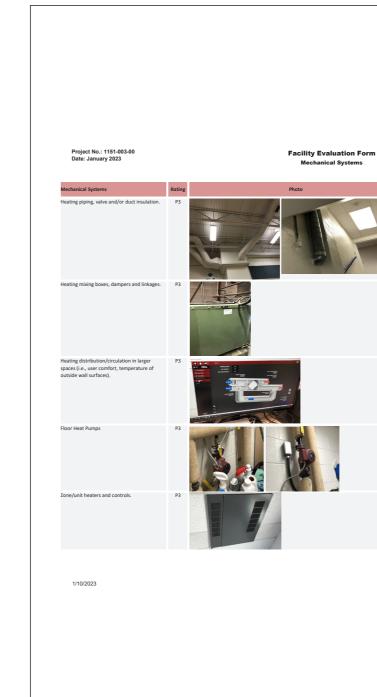
time controls for economic operation and to prevent wearing of pipes as soon as possible.		Description/Condition	Est	im. Cost
time controls for economic operation and to prevent wearing of pipes as soon as possible. Sanitary and storm lines in fair condition. Sanitary and storm drains on interior are cast iron with asbestos coating. Abatement required	ATER HEATER	gallon 45000 Btu/hr, and were installed on November 22nd, 2017. Domestic water heaters are in excellent condition and upgrades not expected for the next 20 years. Aluminum cable sheath in danger of corroding in contact with copper pipe for water heater and is to be	Ş	1,000.00
on interior are cast iron with asbestos coating. Abatement required		time controls for economic operation and to prevent wearing of pipes	Ş	1,000.00
		on interior are cast iron with asbestos coating. Abatement required	S	90,000.00

ICS | Master Facility Plan 2024

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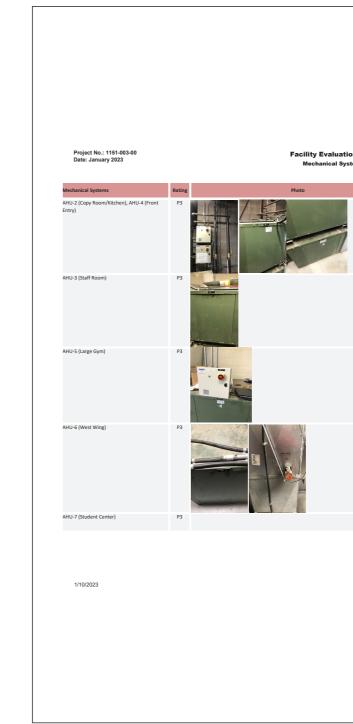
Building: Immanuel Christian Secondary School

Description/Condition	Estim. Cost
Insulation is primarily present on mains. No upgrades present or future are recommended.	N/A
All AHUs have external mixing dampers for fresh air and exhaust air, c/w Belimo dampers.	N/A
BMS System is by Delta Controls c/w enteliWEB software and is working effectively.	N/A
Floor heat pumps by Grundo are in fair condition but no longer in use. MPE recommends them to have settings reviewed to make this system operational at times when external temperatures are below -5 degrees Celcius.	N/A
Ceiling mounted unit heater in hallway by exit in fair condition. Upgrades for unit heaters are not expected for the next 10-15 years.	\$ 2,500.00
	5

ICS | Master Facility Plan





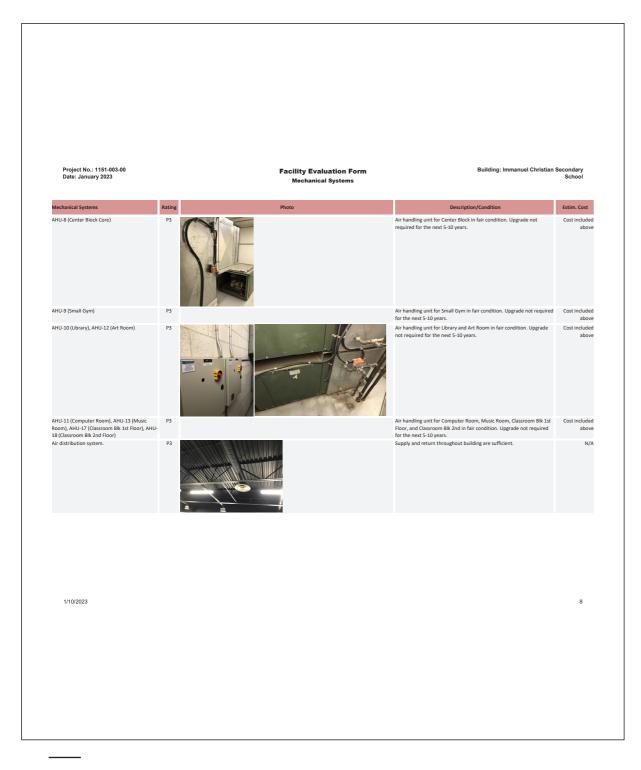


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ems	Building: Immanuel Christian	Secondary School
	Description/Condition	Estim. Cost
	Air handling units for Copy room and Front Entry in fair condition. Upgrade not required for the next 5-10 years.	Cost included above
	Air handling unit with VFD for Staff room in fair condition. Upgrade not required for the next 5-10 years.	Cost included above
	Air handling unit for Large Gym in fair condition. Upgrade not required for the next 5-10 years.	Cost included above
	Air handling unit for West Wing in fair condition. Upgrade not required for the next 5-10 years.	Cost included above
	Air handling unit for Student Center in fair condition. Upgrade not required for the next 5-10 years.	Cost included above
		7

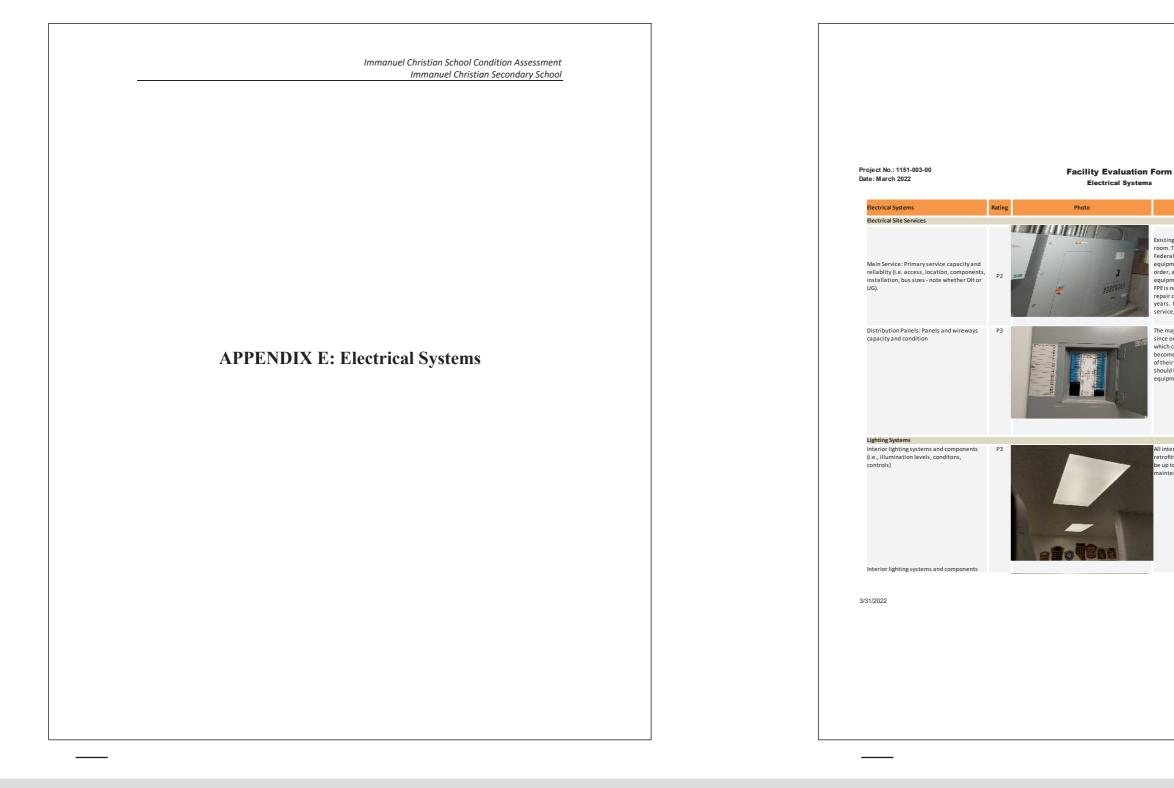
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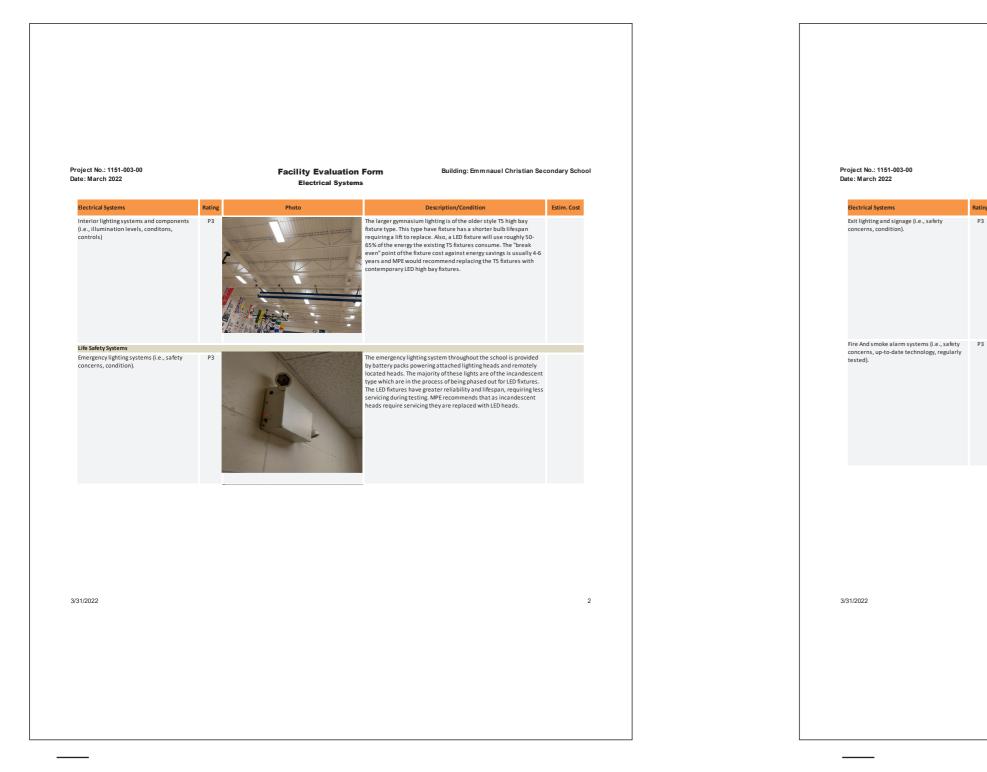




Building: Emmnauel Christian Secondary School







Facility Evaluation Form

Photo

EXIT

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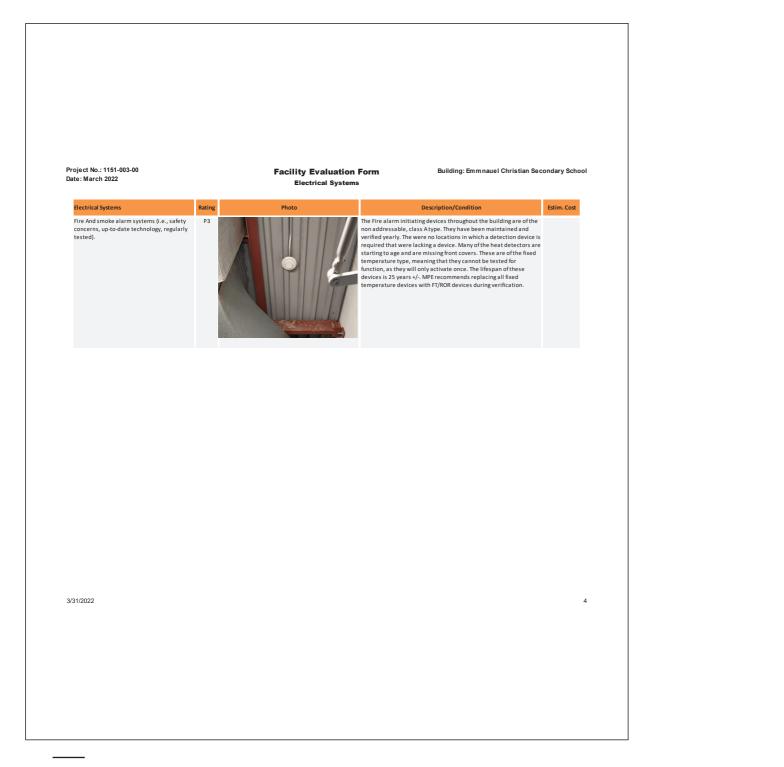
Rating

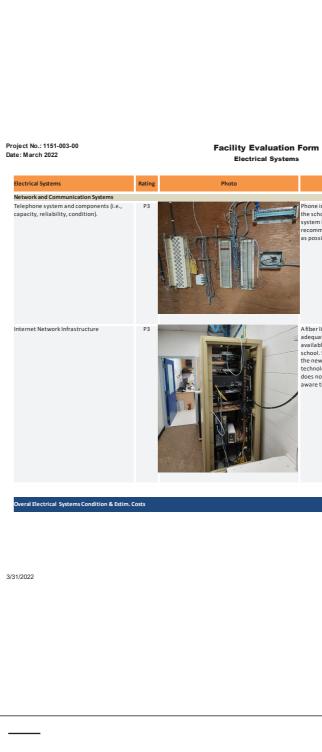
P3

Building: Emmnauel Christian Secondary School

Electrical Systems Description/Condition Estim. Cost All exit signs throughout the school were in the proper location and in good working condition. They are of the older "red exit" style which is being phased out. The cost of obtaining replacement fixtures of this type have been increasing yearly to promote a change to the "green running-man" style. A change to the new style would need to be whole as mixed emergency signage is not permitted under building code. MPE recommends leaving the existing system as is until such a time that replacement parts are more completed worson will be made completely unavailable. The Fire Alarm Control Panel has been upgraded from the original system to an Edwards EST Panel. The system is a class B, non addressable, conventional system. Many schools have been constructed with or witched over to a class A, addressable system. However, the Class B system currently installed is functional and does not need to be replaced. 3







Building: Emmnauel Christian Secondary School Description/Condition Estim. Cost hone infrastructure is primarily original wiring in many parts of \$ 4,000.00 he school with changes be made as requirements demand. The ystem is functional. Until phone systems are fully phased out MPE ecommends keeping the existing infrastructure operation as long s possible. A fiber line has been run in to a main data switch. The bandwidth is adequate for the needs of the school at this time. There are several available ports for expansion as needs change throughout the school. Several of the older data lines were noted to be Cat 5, with the newer lines being Cat 6. Cat 5 cable may prove inadequate as technology evolves and bandwidth demands increase. The system does not require upgrading at this time, but ICS should be made aware that some of the lines may not support high data demands. 5

Address

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