

THE CORPORATION OF THE CITY OF VERNON REPORT TO COUNCIL

SUBMITTED BY: Geoff Mulligan, Manager

Infrastructure Systems

COUNCIL MEETING: REG \square COW \boxtimes I/C \square

COUNCIL MEETING DATE: Jan 22, 2024

REPORT DATE: January 4, 2024

Terry Martens, Manager Financial

Planning & Reporting

FILE: 5700-3

SUBJECT: HISTORIC O'KEEFE RANCH FACILITY CONDITION ASSESSMENT

PURPOSE:

To present to Council the findings of the Historic O'Keefe Ranch Facility Condition Assessment (FCA) in addition to information regarding the financial obligations of the Historic O'Keefe Ranch and financial assistance provided.

RECOMMENDATION:

THAT Council receive for information the report titled "Historic O'Keefe Ranch Facility Condition Assessment", dated January 4, 2024 and respectfully submitted by the Manager, Infrastructure Systems and the Manager, Financial Planning & Reporting;

AND FURTHER, that Council direct Administration to review and report back to Council at a future meeting.

ALTERNATIVES & IMPLICATIONS:

1. THAT Council direct Administration to proceed with the budgeted phases 2 and 3 and complete the O'Keefe Ranch Heritage Conservation Plan and Capital & Operations Management Plan;

Note: A Heritage Conservation Plan (HCP) is a document which builds upon a Facility Condition Assessment by providing strategy and policy to manage the conservation of the value of the heritage and the key features. An HCP increases the likelihood of heritage properties being successful with Heritage BC grant funding. A Capital & Operations Management Plan operationalizes the FCA and HCP, informed by budgets provided by the City and considers future funding, future grants and other costs in a more unified approach that can be acted upon on an annual basis. Considering that Phase 2 and 3 represent a relatively small proportion of the overall project, for efficient use of resources, it is suggested that the two remaining phases be combined.

AND FURTHER, that Council direct Administration to review and report back to Council at a future meeting.

ANALYSIS:

A. Committee Recommendations:

N/A

B. Rationale:

1. Background

In the interest of providing safe and sustainable services to the public, Council at its Regular Meeting of June 12, 2023 directed Administration to prepare an Asset Management/Heritage Conservation Plan for the Historic O'Keefe Ranch. Councils direction also included the division of the plan into three separate phases, providing Council the opportunity to review each phase independently and assess and decide on the progression of subsequent phases.

- **Phase 1**: Conduct a Facility Condition Assessment (FCA) of the site (Attachment 1) including a brief Statement of Significance (Attachment 2) to provide guidance to the assessment.
- **Phase 2**: Prepare a Heritage Conservation Plan with reference to the Canadian Standards and Guidelines for Heritage Conservation that will give the City guidance in preparing budgets and programs for ongoing maintenance and renewal of the Historic O'Keefe Ranch.
- **Phase 3**: Prepare a detailed 1-10-year Capital and Operations Management Plan, defining a maintenance, renewal, and improvement program for the site assets.

Remaining phases 2 and 3 are costed at \$5000 and \$5000 respectively, and are included within approved budget.

2. Facility Condition Assessment

The purpose of a FCA is to determine the present condition of the Historic O'Keefe Ranch facilities and to provide context to the development of a Heritage Conservation Plan and Capital and Operations Management Plan. The FCA provides a per-building and a per-systems approach to understanding the site and the various capital needs of the buildings and the building systems, and provides recommendations. Recommended work was risk prioritized and separated into phased programs and projects. These were then categorized and summarized into:

- **High Priority**: work recommended to be completed in the next fiscal year totalling \$500,000 and including:
 - Bridge removal,
 - o Replacement of the Greenhow Museum exit stairs,
 - Structural and wall repairs to the Meat and Dairy building.
 - Chimney repairs at O'Keefe House and the Blacksmith Shop,
 - Repair of concrete at the Hay Shed,
 - Visitor Centre carpentry repairs and drainage improvements,
 - Ventilation replacement at the Blacksmith Shop,
 - Hazardous materials and geotechnical assessment.
- **Medium Priority**: work recommended to be completed in two to five years, totalling \$950,000 and including a variety of projects and programs detailed in Attachment 1.
- **Lesser Priority**: Work recommended to be completed in six to ten years, totalling \$1,425,000 and including a variety of projects and programs detailed in Attachment 1.

The sum of the recommended work requires an investment totalling \$2.875 million over 10 years.

3. Financial Obligations of O'Keefe Ranch & Financial Assistance Provided

The following represents the amounts owed to the City of Vernon by O'Keefe Ranch & Interior Heritage Society as of the date of this report:

Non-interest bearing loan	\$70,000 (issued in October, 2019)
Insurance – 2019	\$22,268
Insurance – 2020	\$25,387
Insurance – 2021	\$29,033
Insurance – 2022	\$35,965
Insurance – 2023	\$42,791 (invoiced in December, 2023)
Total	\$225,444

The due date for the repayment of the loan and for the payment of the 2019 to 2022 insurance charges was December 31, 2022. The 2023 insurance charge will become due January 17, 2024.

The following represents the direct operational funding provided by the City of Vernon to O'Keefe Ranch & Interior Heritage Society over the past five years:

2019	\$100,000
2020	\$100,000
2021	\$125,000
2022	\$125,000
2023	<u>\$150,000</u>
Total	\$600,000

Council approved operational funding of \$50,000 in the 2024 budget.

C. Attachments:

Attachment 1 – Historic O'Keefe Ranch Facility Condition Assessment
Attachment 2 – Statement of Significance for the Historic O'Keefe Ranch

*Included in Phase 2,3 Report under
Attachment 2 - Heritage Conservation Plan

D. Council's Strategic Plan Alignment:

\times	Governance & Organizational Excellence	Livability
	Recreation, Parks & Natural Areas	Vibrancy
	Environmental Leadership	Not Applicable

E. Relevant Policy/Bylaws/Resolutions:

1. At its Regular Meeting of March 27, 2023, Council passed the following resolution:

"THAT Council receive the memorandum titled "O'Keefe Ranch Presentation", dated March 14, 2023 and respectfully submitted by the Manager, Financial Planning and Reporting;

AND FURTHER that Council directs Administration to determine the cost of a high level building report and asset management plan which would include a historical value assessment;

AND FURTHER that Council approve additional funding for O'Keefe Ranch & Interior Heritage Society for \$100,000, funded by the 2022 Prior Year Uncommitted Unexpended Balance."

2. At its Regular Meeting of June 12, 2023, Council passed the following resolution:

"THAT Council receive for information the memorandum titled "O'Keefe Ranch Asset Management/Heritage Conservation Plan" dated May 10, 2023 and respectfully submitted by the Manager, Infrastructure Systems;

AND FURTHER, that Council authorize the expenditure of up to \$70,000 for the Conservation Plan and Asset Management Plan of the O'Keefe Ranch, to be funded by the 2022 Unexpended Uncommitted Balance;

AND FURTHER, that Council direct Administration to separate the Conservation and Asset Management Plans into three phases, with an option to not proceed based on the findings in each phase."

BUDGET/RESOURCE IMPLICATIONS:

Council authorized the expenditure of up to \$70,000 to complete all three phases of the O'Keefe Ranch Conservation and Asset Management Plan Should Council choose to continue with Phase 2 and 3.

FINANCIAL IMPLICATIONS:		
⊠ None □ Budget P		Budget Request e Review Required)
Prepared by:	Approved for s	submission to Council:
Geoff Mulligan Manager, Infrastructure Systems	Patricia Bridal Date:	
Terry Martens Manager, Financial Planning & F	Reporting	
Director, Operations		
REVIEWED WITH Corporate Services Bylaw Compliance Real Estate RCMP Fire & Rescue Services Human Resources Financial Services COMMITTEE: OTHER:	 □ Operations □ Public Works/Airport □ Facilities □ Utilities □ Recreation Services □ Parks 	 □ Current Planning □ Long Range Planning & Sustainability □ Building & Licensing □ Engineering Development Services □ Infrastructure □ Transportation □ Economic Development & Tourism

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Historic O'Keefe Ranch

Facility Condition Assessment

9380 BC-97, Vernon, BC

Prepared for:

City of Vernon

3001 – 32 Avenue Vernon, BC V1T 2L8

Prepared by:

RJC Engineers

1626 Richter Street, Suite 214 Kelowna BC V1Y 2M3

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Executive Summary

To aid in providing safe and sustainable services to the public, the City of Vernon has, via RFP and subsequent contract, engaged a consulting team to provide an Asset Management and Heritage Conservation plan for the O'Keefe Ranch.

Owned by the City of Vernon and located in the Township of Spallumcheen, the O'Keefe Ranch site covers a total of 57 acres, 51 of which are City owned. The ranch was first established in 1867 and operated as a working ranch until 1965, after which it was converted into a heritage and tourist feature.

The site and buildings represent assets to the City. Conforming to the work plan, the services are delivered in Phases, with later phases informed by the work of earlier phases. Phase 1, including Preparation of Statements of Significance (SoS) and completion of a Facility Condition Assessment (FCA), is now complete.

Statements of Significance, prepared by ANCE Building Services, are documents to aid in understanding value of a place by briefly explaining that place and its importance. The Statements identify key aspects of each place or building that must be protected in order to preserve the value. These Statements use three lenses to achieve this goal; they *describe* the historic place, they *explain the value* of the heritage and they *define the key-features* that must be conserved in order maintain the described value.

A Facility Condition Assessment is a tool that aids owners in developing capital plans for their assets. They are a snapshot in time of the *current condition of the asset*, built up from the condition of the asset components such as foundations, superstructure, roofing, mechanical and electrical systems. Each component is catalogued, visually assessed and evaluated to document the as-found condition and make recommendations to maintain the component in a like-for-like condition over a prescribed future lifetime. The recommendations of the condition assessment are *informed by* the Statements of Significance.

After these first phase activities, and on approval to proceed to next phases, the overall program includes preparation of a Heritage Conservation Plan (HCP) and completion of plans to aid the City in Capital and Operations Management, both of which are informed by the SoS and FCA. An HCP builds upon the SoS and FCA by providing strategy and policy to manage the conservation of the value of the heritage and the key features. The strategy and policy are then made operational by developing Capital and Operating Plans. Statements of Significance are presented separately bound from this Facility Condition Assessment.

The Facility Condition Assessment identifies the current building and site asset conditions and provides recommendations. Priorities for each recommendation are derived from the risk of occurrence (risk probability) and the consequence of occurrence. These risks are then grouped into recommended timelines for remedial recommendations to be undertaken with related opinions of probable cost. By way of summary, the categories, timelines and total of probable costs are:

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- High Priority work recommended to be completed in the next fiscal year totaling \$500,000 and including bridge removal, replacement of the Greenhow Museum exit stairs, structural and wall repairs to the Meat and Dairy Building, chimney repairs at O'Keefe House and the Blacksmith Shop, repair of concrete at the Hay Shed, Visitor Centre carpentry repairs and drainage improvements, ventilation replacement at the Blacksmith Shop, and hazardous materials and geotechnical assessments.
- Moderate Priority work recommended to be completed in two to five years, totaling \$950,000 and including a variety of projects and programs.
- Lesser Priority work recommended to be completed in six to ten years, totaling \$1,425,000 in probable costs and including a further variety of projects and programs.

Probable costs are order of magnitude projections based on current conditions and recent costs to complete similar recommended scopes. Allowance is made for contractor overhead and profit, soft costs, contingencies and abatement of hazardous materials. Actual project costs will depend on market conditions at the time work is tendered and actual project design and implementation requirements.



1.0 Introduction

At the City of Vernon's request Read Jones Christoffersen Ltd. (RJC) has completed a Facility Condition Assessment (FCA)at the Historic O'Keefe Ranch located at 9380 BC-97 near Vernon, BC per our proposal dated September 14, 2023. The FCA forms part of Phase 1 of the overall services. Phase 1 also includes preparation of Statements of Significance (SoS).

A FCA is an assessment of the facility at the specific time of the review with recommendations on how to maintain the assets. FCA's aid in developing plans for capital renewals of assets. Planning for renewals also needs to consider other criteria, including intended use of the assets. An FCA does does not include a review of the current maintenance operations. The FCA is informed by the Statements of Significance, prepared by ANCE and separately submitted.

Phase 2 services, which will advance on approval from City of Vernon, builds on the SoS and FCA is further described in Section 7 of this report. Phase 2 activities include:

- Development of a Heritage Conservation Plan
- Preparation of a Capital and Operations Management Plan

The purpose of the FCA is to determine the present condition of O'Keefe Ranch, thus providing a benchmark and context from which to advise the City as the Capital and Operations Management Plan is developed. The FCA provides a per building and a per systems approach to understanding the site and the various capital needs of the buildings and the building systems.

In the development of this report, RJC and Falcon Engineering completed the following work:

- Review available documentation from the City of Vernon and O'Keefe Ranch and Interior Heritage Society.
- Visual review of all buildings and visible site works at the Ranch.
- Prepare a written report including observations, conclusions, recommendations, and opinions of probable cost.

The following appendices are included at the conclusion of this report:

- Appendix A: Site Maps provides reference site maps showing the locations of buildings, infrastructure, and services on site.
- Appendix B: Facility Condition Assessment Background provides information about the methodology
 and best practices for a heritage facility condition assessment followed in the preparation of this report.

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- Appendix C: Detailed Building Condition Assessments provides detailed information about the condition
 of each building or site feature reviewed on a by-component basis using the UNIFORMAT II classification
 standard.
- Appendix D: Overview, Structure, and Building Envelope Photos is a log of relevant photographs of the condition of the site.
- Appendix E: Mechanical Report describes in more detail the reviewed mechanical systems. The appendix documents significant observations, provides recommendations for repair or renewals and includes OPCs to replace or repair certain building components. The reader is encouraged to review this appendix for more details regarding the facility mechanical systems.
- Appendix F: Electrical Report describes in more detail the reviewed electrical systems. The appendix
 documents significant observations, provides recommendations for repair or renewals and includes
 OPCs to replace or repair certain building components. The reader is encouraged to review this appendix
 for more details regarding the facility electrical systems.
- Appendix G: Roof Maintenance Guide and Replacement Prioritization is provided to guide the Society
 with general roof maintenance and as a decision-making tool when planning work in the recommended
 roof replacement program.
- Appendix H: Limit of Liability which provides limitations based on the visual methods used for a facility condition assessment.

2.0 Site Description

O'Keefe Ranch is located in the Township of Spallumcheen, British Columbia, 3 km north of the head of Lake Okanagan and 8 km north of the City of Vernon. The historic ranch and heritage site covers 57 acres, 51 of which are owned by the City under several titles. The site is divided by Deep Creek with most historical buildings and artifacts located on the East side of the creek. The West side of the site contains three historic buildings, an RV park, and farmed land. Access to the Ranch by vehicle is from BC Highway 97.



Figure 1: Historic O'Keefe Ranch Site Plan

The Ranch was established in 1867 and operated as a working ranch until 1965 when it was converted by Tierney O'Keefe to a heritage and tourist feature in the Okanagan Valley. We defer to the Statements of Significance prepared by ANCE and separately reported for further historical perspective.

Over 30 historic buildings form the O'Keefe Ranch. Together with site works, such as fencing, water supply, walkways and exterior lighting, they form the subject of this FCA.

All buildings and structures on the site are owned by the City of Vernon and leased to the O'Keefe Ranch & Interior Heritage Society which oversees operations at the ranch. The Society also holds sub-leases with the North Okanagan Model Railway Society, Field of Screams, and the Spallumcheen Pioneer Power Club for various spaces on site. Figure 1 is a key plan of the buildings located on the site.



Figure 2: Site and Building Plan from Appendix A

2.1 General Building and Site Descriptions

Typically, buildings are wood frame construction with stone, masonry or concrete foundations. Most buildings are clad in wood with the exception of the Greenhow Museum and O'Keefe House which have been reclad in stucco. Roofs are a mix of cedar shakes, corrugated metal, asphalt shingles and sheet metal of which cedar shakes are the most common. A large roof replacement program was completed in the 1980's where many of the cedar shake roofs were replaced. The steeple of St. Anne's Church is clad with metal shingles. In general, buildings have wood framed windows and wood doors in wood door frames. Interior finishes are typically plaster and lath with some drywall in new buildings, or where replaced during renovations.

Road access from BC Highway 97 leads to a paved parking lot with space for approximately 80 cars in front of the Visitor Center. There is also a paved road and circular driveway in front of O'Keefe House with access from the parking lot. Roads from the parking lot to the Caretaker's House and Glamping are unpaved.

Several foot paths run between building groups across the site as seen in Figure 3. There is a wood pedestrian boardwalk that runs from the Log House to St. Anne's Church. Access to the West side of the site is currently by the North footbridge near Schubert House. The bridge, which was used to move vehicles over the creek, has been decommissioned due to structural concerns raised previously by others.

Fences on site are generally wood pole with two to four rails including fences surrounding the perimeter of the site and animal enclosures. Some fences on site are also barbed wire and infilled with chicken wire. Figure 3 shows the location of fences on site.



Figure 3: Infrastructure Map from Appendix A.

Services on site include water supply, fire protection, sewage disposal, electrical power, natural gas, and telephone and communication systems. A summary of services available by building can be found on Figure 4.

Mechanical and electrical systems are reviewed by Falcon Engineering in Appendix E and F respectively.



Figure 4: Services Map from Appendix A

3.0 Facility Condition Assessment Methodology

Facility Condition Assessments are based on:

- 1. Understanding the items included with the asset, in the case of O'Keefe Ranch, this is the list of buildings, services and infrastructure.
- 2. Visual review of the assets to asses their apparent condition.
- 3. Documentation of condition and recommendations arising either from the apparent condition or the reported age and expected life of each asset / asset component.

During the various site visits RJC and Falcon Engineering reviewed the following building and site components:

- Wood-Framed Windows and Doors
- Exterior Cladding
- Cedar Shake, Asphalt, and Metal Roofs
- Stone, Concrete, and Wood Foundations
- Envelope Sealants
- Rainwater Management Systems
- Electrical systems, where present.
- Mechanical systems and equipment, where present.
- Vehicle and Pedestrian Pathways and Wayfinding
- Fences

Due to the number of buildings this section of the report is arranged by the priority assessment of observations, using the following structure.

- Observations and data collected during site reviews and discussion of the current condition.
- Discussion and Recommendations for maintenance, renewal programs, and specific projects.

A more detailed description regarding facility condition assessments and heritage conservation methodology is found in Appendix B.

3.1 Risk and Consequence Priority Assessment

The condition and associated repairs of each building system or site infrastructure item have been assessed using a risk matrix presented in Table 1. The matrix considers risk probability and severity of consequence criteria.

For the purposes of this report we have uses the following definitions for the consequence severity:

- Catastrophic: The consequence will result in a life safety concern.
- Hazardous: The consequence will result in a major project that will impact the use of the building if not addressed or can cause injuries.
- Major: The consequence will result in a large project and will impact the use of the building if not addressed.
- Minor: The consequence will result in a small project and will have minor impact to the use of the building if not addressed.
- Negligible: The consequence will likely not result in a project and will have minimal impact to the use of the building.

The definitions of risk probability were as follows:

- Very Probable: Risks that are almost certain to occur.
- Somewhat Probable: These risks need regular attention, as they are bound to reoccur and therefore require a consistent mitigation strategy.
- Moderately Probable: Possible risks may occur and need some attention.
- Somewhat Improbable: Risks that have a relatively low chance of occurring but they may still have an affect.
- Improbable: Risks with a low probability of occurring.

The resulting categories of risk are grouped to recommended activity timelines to address the assessed risk for the particular item. The timelines are summarized in Table 2 on the next page.

TABLE 1: RISK ASSESSMENT MATRIX						
		CONSEQUENCE SEVERITY				
		Catastrophic A	Hazardous B	Major C	Minor D	Negligible E
	Very Probable 5	5A	5B	5C	5D	5E
BILITY	Somewhat Probable 4	4 A		4C	4D	4E
RISK PROBABILITY	Moderately Probable 3	3A	3B	3C	3D	3E
RISK P	Somewhat Improbable 2	2A	2B	2C	2D	2E
	Improbable 1	1A	1B	1C	1D	1E

TABLE 2: RECOMMENDED RISK REMEDIATION TIMELINES			
	High Priority	0-1 Years	
	Moderate Priority	2-5 Years	
	Lesser Priority	6-10 Years	

4.0 Summary of Observations

RJC attended site on October 17, 2023, October 18, 2023. We revisited site in collaboration with Falcon Engineering on November 17, 2023. A summary of the observations can be found below. Where there are mechanical and electrical observations included in Appendices E and F these are brought forward for reference. Detailed building summaries with by-component notes are included in Appendix C.

When referring to a condition that affects multiple buildings "many" refers to twelve or more buildings, "a few" refers to three to eleven buildings, and individual buildings are listed when a condition affects three or fewer buildings.

To aid in transition to planning for the upcoming Phase 2 reporting, the following sections include observations that are summarized in order of Priority Ranking (i.e. higher priority items are followed by lower priority items). The methodology for developing the priority score for each item is outlined in Section 3. Our reporting is further organized by priority within each major category. This method of reporting has been carried through the summary and recommendation sections of the report.

4.1 High Priority

The observations noted in this section generally represent the 5A, 5B, 5C, 4A, 4B, and 3A priority categories as described in Section 3.

Items of interest noted by RJC are as follows:

- The wood-framed emergency exit stairs from the second floor of the Greenhow Museum are significantly deteriorated at the footing connections and railings.
- The wood stairs to the basement of the Greenhow Museum are sloped to the west and have deterioration on the step to stringer connections.
- The low-slope roof on the Garage (B3 in Appendix C) of the Meat & Dairy building is deflecting significantly. A post near the center of the room is providing support, resulting in a wave-like deflected shape. The joists supporting this roof span approximately 20' and are spaced generally at 16" on center.
- At the Blacksmith Shop there is no separation between the active chimney and the wood shake roof. This may pose a fire hazard. At the O'Keefe House the south most chimney is leaning and is currently supported by ties.
- The buttressed concrete walls at the Hay Shed are deflecting out of plane. The concrete at the base of wall is deteriorated and, in some locations, has exposed rebar reinforcement.
- The sheet metal roof of the Log House lean-to, which is situated to be eye-level due to the adjacent ground profile, has sharp edges and is a hazard to pedestrians.
- The wood retaining wall behind the Caretaker's House has displaced outwards at its base, likely due to earth pressure overload. Wood components at the tie back connections are deteriorating in some locations.
- The cedar shake roof on the Stagecoach Depot is in poor condition and has signs of an active leak, likely due to missing or otherwise failed shingles.
- One roof overhang post near the North side of the Visitor Center has rotted completely from its footing connection and is unsupported.
- Efflorescence and water staining is present on the interior face of the Greenhow Museum stone foundation wall. There is also evidence of previous water leakage in the form of staining on the vapour barrier surrounding the artifact storage space in the basement. Organic growth is present throughout the artifact collection. Efflorescence is also present at the base of wall on the interior face of the concrete basement wall in the Visitor Center.
- As outlined in the O'Keefe Ranch Bridge Field Review and Assessment Memo produced by McElhanney on April 28, 2023.
 - "The bridge is showing signs of moderate failure. This coupled with the lack of guardrails for pedestrians direct [McElhanney] to the conclusion that the bridge is beyond repair and must be removed and replaced."

4.2 Moderate Priority

The observations noted in this section generally represent the 5D, 5E, 4C, 4D, 4E, 3B, 3C, 3D, 2A, 2B, 2C, and 1A priority categories as described in Section 3.

Items of interest by RJC and Falcon Engineering are as follows:

4.2.1 Moderately High Priority Structural Conditions

- The brick foundation columns at O'Keefe House have freeze-thaw damage and are spalled.
- The Schubert Barn is leaning towards Deep Creek.
- The Schubert House foundation wall has water staining on the interior where the hose bibb is located at the exterior on the east side.
- The ceilings in the small dining room and bathroom in the O'Keefe House were also noted to be deflected. There are signs of water damage on the ceiling in the bathroom at the O'Keefe House and on the attic floor above
- Joists in the Meat Building (B2) of the Meat & Dairy building were cut when the cooler room was installed and are currently cantilevered on the East side.
- Beams and joists in the Dairy Building (B1) of the Meat & Dairy building are deflecting at midspan.
- The masonry block foundation wall at the Schubert House has been damaged and is out of plane in two locations.
- Ceiling finish deflection was noted in the East room of the Red Shed with signs of water staining in localized areas.
- The concrete foundation wall of the Carriage Shed is undermined due to animal activities at the South-East elevation.

4.2.2 Moderately High Priority Roof Conditions

- Many cedar shake roofs have significant organic build up in the form of moss. Shakes were noted to be loose, curled or missing on multiple buildings.
- The fascia on a few of the buildings have chipped paint or are otherwise deteriorated from water damage. Areas where the fascia is deteriorated typically do not have gutters.
- A few buildings were noted to have water staining on the underside of roof sheathing or soffit.
- The low slope built up roof on the Meat and Dairy building is covered by organic growth and has ponding due to deflected roof structure. There is one scupper and downspout to divert water off of this roof. Drainage was noted to be poor.

4.2.3 Moderately High Priority Envelope Conditions

- Water ingress at the North and South elevations of Meat & Dairy building has resulted in deterioration and rot of floor structure (joists and rim board).
- Water staining is present at the floor joists and around the base of dormer windows at the Log House.
- Cladding along the North and South elevations of the Meat & Dairy is damaged and missing at areas of wood deterioration.
- Both ends of the Dairy room has areas of missing and deteriorated CMU blocks in the foundation wall.
- There is efflorescence and other signs of water ingress at multiple locations along the CMU basement wall in the Caretaker's House.
- The O'Keefe House attic was noted to have feces in the attic and exposed insulation. See Section 5.1.4 for further discussion on this item.

4.2.4 Moderately Low Priority Structural Conditions

- The wood posts of the lean-to shelter behind Implement Shed #1 have been buried below grade.
- The lateral bracing system for the Tack Shed and Spallumcheen Pioneer Power Club Display #2 has toenailed anchor straps connecting the beams to the poles.
- The handrail of the ramp at the back entrance to St. Anne's Church is rotted.
- Stairs to the Chinese Cook's House are supported by a concrete footing at the base and nailed into an
 exposed ledger attached to the cladding and sheathing at the top. The fasteners into the ledger are
 losing withdrawal resistance.
- Concrete stairs to the Dairy room of the Meat & Dairy building are spalled and the uneven surface poses a tripping hazard to pedestrians.
- The concrete at the base of the Log Barn's East lean-to has eroded and is poorly consolidated resulting in the slab not being supported.

4.2.5 Moderately Low Priority Envelope Conditions

- Cladding at a few of the buildings is deteriorated in the form of woodpecker holes, significant water staining, and loose or missing siding.
- The log wall of the Balmoral School House has rotted in some locations.
- Vegetation is in contact with the cladding at many of the buildings and has begun to deteriorate cladding.
- Windows and doors in most of the buildings have deteriorated trims. Windows either have no seals or seals are hard to the touch and exhibiting adhesive failure.
- Bricks are spalling at the top of chimneys at the Log House. At the Schubert House the mortar joints of the chimney are starting to fail.

- Painted white brick at the South side of the Meat & Dairy building is spalled resulting in cross-sectional area loss and paint being damaged.
- The wood porch at the O'Keefe House is rotting at the edges. There are no scuppers or rainwater leaders to allow water to move away from the edge of the porch.
- Exposed truss tails on the Visitor Center roof are rotted.

4.2.6 Moderate Priority Mechanical and Electrical Conditions

- Some of the inaccessible piping systems are getting close to the end of their service lives and could become increasingly unreliable.
- A few installations do not comply with currents standards regarding fire rated enclosures around gas fired appliances at locations noted in section 2.0 of Appendix E.
- Hot water has not been provided in all washrooms.
- Some appliances are nearing the end of their service life, specific items at buildings are noted in section 2.0 of Appendix E.
- Gas piping does not appear to have the appropriate protective coatings at the Museum and SPPC Clubhouse.
- No drain pan has been provided at several hot water heaters.
- At the Stagecoach Depot there is an old meter base that is not in use.
- Communications and branch circuit wiring in the O'Keefe House basement and Schubert House crawlspace are messy.
- At Spallumcheen Pioneer Power Club Display #1 the non-weatherproof disconnect switch is exposed to the weather and is rusting.
- The disconnect switch at the Meat and Dairy Building is very old.
- There is an older style ITE panel in the Pump House for which replacement breakers will be difficult to obtain.

4.3 Lesser Priority

The observations noted in this section generally represent the 3E, 2D, 2E, 1B, 1C, 1D, and 1E risk categories as presented in Section 3.

Items of interest noted by RJC are as follows:

Plaster and lath finish is cracking in most walls and ceilings in the Schubert House and O'Keefe House. In one location in the Schubert House plater and lath has been replaced by drywall. There is a large section of finish missing in the Schubert House kitchen.

- Surface corrosion is present on the steel saddle connections at the base of posts in both Implement Sheds.
- A few cedar shake and metal roofs are in good condition with normal signs of aging.
- The siding of a few buildings has minor deterioration in the form of fading or chipped paint, water staining, or loose shingles.
- Insulation around piping is in poor condition or missing in some locations in buildings with domestic water distribution.
- Steel uninsulated piping is used for the hydronic heating systems at O'Keefe House. If the hot water heating systems gets above 140°F, the bare pipe can scald bare skin in seconds. It appears that these systems are well barricaded from the public, to avoid an inadvertent incident.
- The only building that is heated but not connected to Natural gas is the St Anne's Church that has a dedicated propane tank.
- The paint is chipping off the white picket fence surrounding the Cemetery.
- Small buildings (sheds, feed buildings, firewood storage, pens, etc.) are in generally good condition with the following exceptions:
 - A joist at the firewood storage structure west of Schubert House is rotted and deflecting significantly.
 - One animal feed building at the West pens is leaning.
 - The firewood storage structure in the Red Shed and Carriage Shed courtyard has sustained impact damage.
 - There is a missing rail at the North tractor shelter near the cemetery.
- Lateral and alligator cracking is observed throughout the paved asphalt surfaces.
- The wood platform outside the bathroom entrances to the Carriage Shed is wet and at high risk for rot due to continuous exposure and lack of cover.
- The concrete foundation wall at the Cowboy Bunkhouse is spalled on the South-West elevation. At other elevations the foundation is buried and could not be reviewed.
- The decorative shutters on the O'Keefe house are deteriorated and the paint is chipped.
- The concrete slab-on-grades outside the Carriage Shed and Red Shed exhibit minor cracking.
- There is cracking in the Red Shed addition concrete slab-on-grade.
- The wood retaining wall at the North side of the Log Barn is leaning outwards.
- Three posts of the Gazebo have checking, and one beam is cracked.
- There is minor cracking in the Stagecoach Depot foundation wall.
- The wood posts at the Windmills are buried at grade and are at risk for rot.

5.0 Discussion and Recommendations

Visually accessible building components and site features were visually reviewed from both the inside and outside of the buildings to identify evidence of distress or deterioration of the structural and envelope elements. Falcon Engineering competed reviews of the electrical and mechanical components where present in the buildings (not all buildings have mechanical and/or electrical components).

In general, the visual review found that the buildings overall are generally in fair condition with variation in condition for components in particular. Recommendations have been presented in two formats to accommodate the various roles of the reader: the first being a by-building summary and the second being a prioritized recommendation plan, typically grouped by system (e.g. roofs, window frames, etc.).

The by-building summary is intended to provide a brief discussion of the condition of each building and an overview of the recommended work. Detailed observations and by-building recommendations including maintenance items are included in Appendix C.

The prioritized recommendation plan is intended to be used as a tool to guide decision making for future work programs at the site. In the prioritized recommendations plan, recommendations have been considered into two categories: programs and projects. Programs are recommendations for work that occurs at many buildings and could be completed in phases over a period of years. Projects occur at one or a few buildings and are not considered suitable for phased completion.

A summary of our recommendations are as follows:

5.1 By-Building Summary of Recommendations

This section provides by-building recommendations for repair and preventative work. For further detail of the work that should be completed in each program and project see Section 5.2. Maintenance items have not been included and should be reviewed in Appendix C.

5.1.1 Visitor Center

The Visitor Center is in generally fair condition. The main structure appears to be performing as intended, and no overall evidence of structural distress was observed. The truss tails are rotted and may fall off becoming a hazard to pedestrians. If not addressed, ongoing rot will continue to some degree up the member and could result in more costly repair requirements. The rotted pole at the North corner which is not connected to the ground is a structural and pedestrian hazard and should be repaired. The roofing is in good condition at this time. Cladding has water staining up to half-height, likely from the in-ground irrigation, which should be redirected away from the building. Insulated glass unit windows are in fair condition but are nearing the end of their service life and may need to be replaced in the next ten years. Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. Cooling is provided by a single

Lennox ten-ton cooling capacity Condensing Unit which was manufactured in 1999 and is nearing the end of its service life. To address the current condition of the Visitor Center we recommend the following:

- Complete miscellaneous carpentry repairs to remove rotted truss tails and repair and reconnect the
 rotted post. As an upgrade, consideration could be given to adding fascia boards and gutters. This
 upgrade is not included in Appendix C or in opinions of probable cost.
- Complete a roof maintenance program that includes maintenance on the Visitor Center roof.
- Complete cladding maintenance program that includes maintenance or replacement of the Visitor Center cladding.
- Upgrade domestic water system to provide hot water to washrooms.
- Provide the hot water heater with a drain pan to catch and direct the water to a drainage system in the event of a leak in the tank.
- Construct fire rated room to house furnaces.
- Replace cooling unit and cooling coil in furnaces.
- Complete a pipe and duct monitoring program to inspect domestic water pipes, sanitary pipes, and supply ducts every five years.
- Complete a landscaping program that includes the garden beds surrounding the Visitor Center.
- Replace IGU windows when required, plan for a window renewal program in 10 years.
- Upgrade existing insulation at domestic water supply pipes to save energy.

5.1.2 Greenhow Museum

Greenhow Museum is generally in fair condition except as noted following. The overall structure appears to be performing as intended, with no visual evidence of structural distress. The basement and second floor emergency stairs in Greenhow Museum are in poor condition and the emergency stairs are deficient when compared to the current Building Code. The organic growth present on artifacts in the Greenhow Museum Basement is a health and safety hazard. Greenhow Museum would benefit from roof maintenance and eventual replacement. Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. The Domestic hot water heater is old (approx. 40 years since manufactured) and is need of replacement. Gas piping does not appear to have the appropriate protective coatings. To address the current condition of the Greenhow Museum we recommend the following:

- Replace the second-floor emergency exit and basement stairs with Code compliant stairs, guards and railings.
- Complete a roof replacement program that includes replacing the Greenhow Museum roof.
- Complete a roof maintenance program that includes maintenance on the Greenhow Museum roof.
- Upgrade domestic water system to provide hot water to washrooms.
- Provide the hot water heater with a drain pan to catch and direct the water to a drainage system in the event of a leak in the tank.

- Construct fire rated room to house furnaces and domestic water heater.
- Replace hot water heater with new.
- Engage a technician to ensure the energy supply systems are configured to code.
- Complete a pipe and duct monitoring program to inspect domestic water pipes, sanitary pipes, and supply ducts every five years.
- Complete a landscaping program that includes the garden beds surrounding the Greenhow Museum.
- Retain an environmental professional to conduct a Hazardous Materials Assessment reviewing the
 organic growth in the basement. Recommendation pending basement treatment and collection storage
 proposal complete repair program.
 - If the artifacts are to remain in the basement considerations should be made to create a separate controlled environment. This may include creating a separate room or buffer zone to condition the current temperature and humidity of the basement to a more desirable level for the storage of artifacts. Capital cost related to creating a separate controlled environment is not included as this is considered an upgrade, and outside the scope of a Facility Condition Assessment.

5.1.3 Stagecoach Depot

The Stagecoach Depot is generally in fair to poor condition. The overall structure appears to be performing as intended, with no visual evidence of structural distress. There is active leaking in the roof causing water staining in the ceiling. Cladding is stained along the South elevation. Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. The Domestic hot water heater was manufactured in 2006. The hot water tank is approximately ¾ through the service life. The old meter base on West side of building should be removed. To address the current condition of the Stagecoach Depot we recommend the following:

- Complete a roof maintenance program that includes typical maintenance on the Stagecoach Depot roof and immediate repairs to active leaking.
- Complete a roof replacement program that includes replacing the Stagecoach Depot roof in the next two years.
- Complete a cladding maintenance program that includes maintenance or replacement of the Stagecoach Depot cladding.
- Remove meter base at West side of building.
- Upgrade domestic water system to provide hot water to washrooms.
- Replace hot water heater with new.
- Construct fire rated room to house domestic water heater.
- Upgrade existing insulation at domestic water supply pipes to save energy.
- Complete a pipe and duct monitoring program to inspect domestic water pipes and sanitary pipes every five years.

5.1.4 O'Keefe House and Caretaker's House

The O'Keefe House and attached Caretaker's House are in generally fair condition except as noted following. The overall structures appears to be performing as intended, with no visual evidence of structural distress.

The retaining wall behind the O'Keefe House is in poor condition. It is unknown if the tie back connections are from original construction or were installed to prevent further movement in the wall. The deterioration of the wood components of the wall puts it at high risk of failure.

There are reports that animal droppings and vermiculite insulation are present in the O'Keefe House attic, per the Interior Home Inspections report dated November 16, 2018, "if these conditions are present they may pose a health and safety hazard and should be reviewed by a qualified environmental consultant". The chimney at the O'Keefe House is of structural concern and is a falling hazard. While it appears to be braced, the design of the brace is unknown and the condition of the chimney is such that a detailed review is required and an upgraded support may be warranted. An alternative to repairs to the chimney would be to decommission as suits Ranch operations. Costs have been carried to repair the chimney.

The plaster and lath finish in the O'Keefe House is in fair to poor condition and should be repaired or replaced to prevent it becoming a falling hazard. Although plaster and lath is a historic material there is already precedent on site at the Schubert House for replacement with drywall, so either repair with like materials or replacement with drywall is an option. Replacement with like materials will carry a higher cost than replacement with drywall. Costs to replace with drywall have been carried in the OPC.

The Domestic hot water heater was installed in 2008. The hot water tank is approximately ¾ through the service life. The condensate is intentionally plugged and is showing signs of degradation and rust. Care should continue to be made to keep the public from touching the heating piping and terminal units while the systems are hot. Communication wiring is messy in the basement. To address the current condition of the O'Keefe House and Caretaker's House building we recommend the following:

- Provide additional support to the leaning chimney which is currently supported by ties. Also complete any brick repairs at this time.
- Complete a roof maintenance program that includes maintenance on the O'Keefe House roof.
- Complete a roof replacement program that includes replacing the O'Keefe House roof.
- Complete a window and door program that includes maintenance and replacement of protective films and shutters on the O'Keefe House windows.
- Complete a landscaping program that includes the garden beds surrounding the Greenhow Museum.
- Retaining a report by a geotechnical engineer reviewing the retaining wall behind the Caretaker's House.
- Retain an environmental engineering to conduct a Hazardous Materials Assessment reviewing the animal feces and vermiculite insulation in the attic.
- Clean and repair the Caretaker's House CMU basement wall where there is water damage. Add drainage around the basement.

- Retain a structural engineering report reviewing the O'Keefe House roof and deflected ceilings in the Bathroom and Small Dining Room.
- Provide temporary shoring and complete repairs at brick foundation columns.
- Either repair plaster and lath wall and ceiling finishes with like materials or replace with drywall.
- Clean up messy communications and branch circuit wiring in the basement.
- Replace hot water heater with new.
- Construct fire rated room to house domestic water heater and boiler.
- Provide the hot water heater with a drain pan to catch and direct the water to a drainage system in the event of a leak in the tank.
- Replace condensate pump with new.
- Upgrade existing insulation at domestic water supply pipes to save energy.
- Complete a pipe and duct monitoring program to inspect domestic water pipes and five years.

5.1.5 Pavilion

The Pavilion is in generally good condition. The overall structures appears to be performing as intended, with no visual evidence of structural distress. Water staining on the soffit indicates an excess of moisture in the roof. To address the current condition of the Pavilion we recommend the following:

 Complete a roof Maintenance program that includes adding eavestroughs and downspouts and other typical maintenance at the Pavilion roof.

5.1.6 Gazebo

The Gazebo is in generally fair condition. The overall structures appears to be performing as intended, with no visual evidence of structural distress. To address the current condition of the Gazebo we recommend the followina:

- Complete a roof maintenance program that includes maintenance on the Gazebo roof.
- Complete an annual monitoring program of the checking posts and cracked beam for changes in condition.

5.1.7 Pioneer Cabin

The Pioneer Cabin is in generally poor condition. The overall structures appears to be performing as intended, with no visual evidence of structural distress. To address the current condition of the Pioneer Cabin we recommend the following:

- Complete a roof Maintenance program that includes cutting back the overhanging tree, clearing debris from the roof and other typical maintenance at the Pioneer Cabin roof.
- Complete a roof replacement program that includes replacing the Pioneer Cabin roof.
- Complete a cladding maintenance program that includes the repair of the Pioneer Cabin cladding. The Pioneer Cabin should be considered one of the first buildings to be addressed under this program.

5.1.8 Cowboy Bunkhouse

The Cowboy Bunkhouse is in generally fair condition. The overall structures appears to be performing as intended, with no visual evidence of structural distress. To address the current condition of the Cowboy Bunkhouse we recommend the following:

- Complete a cladding maintenance program that includes maintenance to the Cowboy Bunkhouse cladding.
- Complete a window and door program that includes the door and door trims and other typical maintenance at the Cowboy Bunkhouse.
- Complete a roof maintenance program that includes maintenance on the Cowboy Bunkhouse roof.
- Complete a roof replacement program that includes replacing the Cowboy Bunkhouse roof.
- Complete an annual monitoring program of the spalled foundation wall for changes in condition.

5.1.9 Bird Pens

The Bird Pens are in generally good condition. There is currently no recommended work for the Bird Pens.

5.1.10 Windmill #1

Windmill #1 is in fair condition considering its age and does not currently pose a hazard to visitors. To address the current condition of Windmill #1 we recommend the following:

Complete an annual monitoring program of the buried posts for changes in condition.

5.1.11 Log Barn

The Log Barn is in generally fair condition. The overall structure appears to be performing as intended, except as noted following. Load capacity of the barn loft should be assessed and use of the loft restricted to align with the structural capacity. The lack of support beneath the concrete slab-on-grade at the East lean-to of the Log Barn may lead to future cracking and failure. To address the current condition of the Log Barn we recommend the following:

- Assess structural capacity of the barn loft and restrict use based on the available capacity.
- Provide fill below the East lean-to concrete slab-on-grade.
- Complete a roof maintenance program that includes maintenance on the Log Barn roof.
- Complete a roof replacement program that includes replacing the Log Barn roof.
- Complete a cladding maintenance program that includes maintenance to the Log Barn cladding.

5.1.12 Hay Shed

The Hay Shed is generally in poor condition and is not suitable for its current use as feed storage. The concrete walls are in poor condition due to deterioration. It appears that the shed is of low use/value to the current operations. To avoid repairs this building could be decommissioned if feasible to Ranch operations. Otherwise, to address the current condition of the Hay Shed we recommend the following:

- Temporarily restrict access to the hay shed.
- Undertake a detailed structural review to develop a remediation program.
- Implement the structural remediation program, including concrete repairs at the buttressed walls
- Complete a roof maintenance program that includes maintenance on the Hay Shed roof.
- Complete a roof replacement program that includes replacing the Hay Shed roof.

5.1.13 Ye Ol' Feed Shed

Ye Ol' Feed Shed is in generally fair condition. To address the current condition of Ye Ol' Feed Shed we recommend the following:

- Complete a roof maintenance program that includes maintenance on the Ye Ol' Feed Shed roof.
- Complete a roof replacement program that includes replacing the Ye Ol' Feed Shed roof.
- Complete a cladding maintenance program that includes maintenance to the Ye Ol' Feed Shed cladding.
- Complete a window and door program that includes maintenance of the window and door at Ye Ol' Feed Shed.

5.1.14 Meat & Dairy Building

The Meat & Dairy Building is in generally poor condition, with noted areas of distress and deterioration affecting the structure and use of this building. Excessive water ingress at the floor of the Meat Building (B2 in Appendix C) has caused the structure to rot. If the floor is not repaired, it will continue to deteriorate and is in danger of collapsing. The CMU foundation walls of the Dairy Building (B1 in Appendix C) are also deteriorated and in need of repair. The joists in both the Dairy and Garage (B3 in Appendix C) are deflecting beyond what is typically allowed for occupancy and require structural assessment and likely remediation or alternate support. The cut

joists in the Meat Building are not currently of structural concern but could be supported for to reduce incidences of occupant discomfort when the current condition is observed. The disconnect switch is very old and should be replaced. To address the current condition of the Meat & Dairy Building we recommend the following:

- Complete repairs to the North and East Dairy walls and rotting Meat Building floor structure.
- Complete brick repairs at the South Dairy wall.
- Provide permanent additional support to joists in Dairy and Garage.
- Replace disconnect switches. Complete a roof maintenance program that includes maintenance on the Meat & Dairy Building roof.
- Complete a roof replacement program that includes replacing the Meat & Dairy Building roofs.
- Complete a window and door program that includes maintenance of the windows and doors at the Meat
 & Dairy Building.
- Complete a cladding maintenance and painting program that includes maintenance and painting at the Meat & Dairy Building.
- Complete a landscaping program that includes the garden beds surrounding and hill behind the Meat & Dairy Building.

5.1.15 Chinese Cook's House

The Chinese Cook's House is generally in poor condition. The overall structure appears to be performing as intended. Cedar shakes on the walls and roof have reached the end of their service life, although no leaking has been reported. The stairs to the Chinese Cook's House are not adequately supported at the top which may cause future failure and injury to visitors under continued use. To address the current condition of the Chinese Cook's House we recommend the following:

- Complete a cladding maintenance and painting program that includes typical repair or replacement of the Chinese Cook's House cladding and providing additional support or connection to the structure of the building at the top of the stairs.
- Complete a roof maintenance program that includes maintenance on the Chinese Cook's House roof within the next two years.
- Complete a roof replacement program that includes replacing the Chinese Cook's House roofs.
- Complete a window and door program that includes maintenance of the windows and doors at the Chinese Cook's House.

5.1.16 Log House

The Log House is in generally fair to poor condition. The overall structure appears to be performing as intended. The lean-to roof at the kitchen entrance is in fair condition but terminates at eye-level with sharp edges and is a

safety hazard to pedestrians. The chimney is in fair condition but is beginning to reach the end of its service life. If allowed to continue to spall the chimney could fall and will be a risk to pedestrians below. To address the current condition of the Log House we recommend the following:

- Complete a roof maintenance program that includes typical maintenance on the Log House roof and includes re-detailing the lean-to roof to remediate the risk to pedestrians.
- Replace spalled bricks and repoint mortar joints at chimney.
- Complete a roof replacement program that includes replacing the Log House roof.
- Complete a window and door program that includes maintenance of the windows and doors at the Log House.
- Complete a landscaping program that includes the garden beds surrounding the Log House.
- Complete annual monitoring program to review signs of active leaking at the interior of the building, particularly from the roof and floor.

5.1.17 General Store

The General store is in generally fair condition. The overall structure appears to be performing as intended. To address the current condition of the General Store we recommend the following:

- Complete a roof maintenance program that includes maintenance on the General Store roof.
- Complete a roof replacement program that includes replacing the General Store roofs.
- Complete a window and door program that includes maintenance of the windows and doors at the General Store.
- Complete a cladding maintenance program that includes maintenance of the General Store cladding.
- Complete a landscaping program that includes the garden beds surrounding the General Store.

5.1.18 Blacksmith Shop

The Blacksmith Shop is in generally fair condition. The overall structure appears to be performing as intended. Under current use the chimneys at the Blacksmith shop, which serves active forges, is a potential fire hazard. To address the current condition of the Blacksmith Shop we recommend the following:

- Provide a double walled flue flashing for the chimney at combustible roofs.
- The forge ventilation systems should be replaced, and appropriate thimbles are needed for the penetrations through the roof.
- Complete a roof maintenance program that includes maintenance on the Blacksmith Shop roof.
- Complete a roof replacement program that includes replacing the Blacksmith Shop roofs.
- Complete a cladding maintenance program that includes maintenance of the Blacksmith Shop cladding.

• Complete a window and door program that includes maintenance of the windows and doors at the Blacksmith Shop.

5.1.19 Red Shed

The Red Shed is in generally fair condition. The overall structure appears to be performing as intended. Minor cracking in the concrete slab on grade and extended slab are not currently of concern. As the foundation has been deflected out of plane for many years and there are no other signs of movement in the building the condition of the foundation is not currently of structural concern. To address the current condition of the Red Shed we recommend the following:

- Complete a roof maintenance program that includes maintenance on the Red Shed roof.
- Complete a roof replacement program that includes replacing the Red Shed roof.
- Complete a window and door program that includes maintenance of the windows and doors at the Red Shed.
- Complete a cladding maintenance program that includes typical maintenance of the Red Shed cladding and patch repair of stained plywood sheathing.
- Complete an annual monitoring program of the cracking in the concrete slab-on-grade for changes in condition. This program can be completed with typical maintenance completed by the Society.
- Complete an annual monitoring program of the foundation and building as a whole for signs of
 movement such as cracking in walls. This program can be completed with typical maintenance
 completed by the Society.

5.1.20 Carriage Shed

The Carriage Shed is in generally fair condition. The overall structure appears to be performing as intended, except as noted. Where the foundation is undermined, there is a lack of support for the foundation which may cause future failures. Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. The electric domestic hot water heater is nearing the end of its service life. To address the current condition of the Carriage Shed we recommend the following:

- Temporarily support the foundation where undermined and add fill below.
- Upgrade domestic water system to provide hot water to washrooms.
- Replace domestic hot water heater with new.
- Complete a roof maintenance program that includes maintenance on the Carriage Shed roof.
- Complete a roof replacement program that includes replacing the Carriage Shed roof.
- Complete a cladding maintenance program that includes maintenance of the Carriage Shed cladding.

5.1.21 St. Anne's Church

St. Anne's Church is in generally fair condition. The overall structure appears to be performing as intended. The wood ramp leading to the rear room of the building was noted to be in poor condition and the connection to the guards was failing. Water staining on the ceiling and wall of the sacristy is likely from the chimney penetration although further investigation is required to determine the root cause. St. Anne's Church is the only building that is heated but not connected to Natural gas and has a dedicated propane tank. Gas piping where visible appears to be in good condition. We assume there is a propane fired furnace in the ceiling space above the back entry to the church. Our sense is the unit is fairly old as the venting is an older style. Modern furnaces use plastic pipe for combustion air and venting. To address the current condition of St. Anne's Church we recommend the following:

- Remove and replace the existing wood ramp and guards with new. This project does not meet the minimum \$5,000 value of a project as set out by the RFP documents and would be considered a maintenance item. It is not included in the OPC.
- Update the propane furnace to a sealed combustion condensing furnace considering the cost of propane. Construct a fire rated room to house the new furnaces.
- Complete a supply duct monitoring program every five years.
- Complete a roof maintenance program that includes typical maintenance on the St. Anne's Church roof and investigation of the chimney penetration to confirm source of leaking in the sacristy and repair flashing.
- Complete a window and door program that includes maintenance of the windows and doors at St. Anne's Church.

5.1.22 Smoke House

The Smoke House is in generally fair condition considering its age and use. To address the current condition of the Smoke House we recommend the following:

 Complete a cladding maintenance program that includes patching the North-East corner and other typical maintenance of the Smoke House cladding.

5.1.23 Pump House

The Pump House is in generally fair condition. There was a leak noted in the North East corner of the building. The leak appears to be a result from the roof. The interior finishes should be removed to review to condition of the structure. The piping systems use galvanized, copper, and plastic piping. Galvanized piping is no longer approved on domestic water systems. The building has an older style ITE panel and replacement breakers will be hard to find. To address the current condition of the Pump House we recommend the following:

- Remove interior finishes and repair and deteriorated wood framing caused by the leak.
- The next time the system needs work, we recommend replacing the galvanized piping with approved domestic water systems.
- Replace ITE panel with new.
- Complete a roof maintenance program that includes typical maintenance and repair of the leaks at the Pump House roof.
- Complete a cladding maintenance program that includes replacing stained plywood sheathing and other typical maintenance of the Pump House cladding.
- Complete a landscaping program that includes the vegetation surrounding the Pump House.

5.1.24 Windmill #2

Windmill #2 is in fair condition considering its age and does not currently pose a hazard to visitors. To address the current condition of Windmill #2 we recommend the following:

• Complete an annual monitoring program of the buried posts for changes in condition.

5.1.25 Water Cisterns and Cover

The Water Cisterns and Cover are in generally fair condition. Cracking in the cisterns is minor and not of concern under current use. To address the current condition of the Water Cisterns and Cover we recommend the following:

- Complete an annual monitoring program of the cracking in the Water Cisterns for changes.
- Complete a roof maintenance program that includes maintenance on the Water Cistern Cover roof.
- Complete a roof replacement program that includes replacing the Water Cistern Cover roof.
- Complete a window and door program that includes maintenance of the window at the Water Cistern Cover.
- Complete a cladding maintenance and painting program that includes maintenance of the Water Cistern Cover cladding.

5.1.26 Spallumcheen Pioneer Power Club Display #1

The SPPC Display #1 is in generally good condition. The non-weatherproof disconnect switch is exposed to the weather and is rusting. To address the condition at SPPC Display #1 we recommend:

Replace the disconnect switch.

5.1.27 Spallumcheen Pioneer Power Club Display #2

The SPPC Display #2 is in generally fair condition. However, the strap ties that currently provide the lateral bracing for the barn are not a sufficient structural system. To address the current condition of the Spallumcheen Pioneer Power Club Display #2 we recommend the following:

- Provide new strap anchors at steel ties.
- Complete a roof maintenance program that includes maintenance on the SPPC Display #2 roof.
- Complete a roof replacement program that includes replacing the SPPC Display #2 roof.

5.1.28 Implement Shed #1

Implement Shed #1 is in generally fair condition. Some posts of the lean-to structure have been buried over time and are in danger of rot if not re-exposed. Surface corrosion on the steel saddle connections at the base of the barn posts is not currently of concern but will continue to corrode the connection if not addressed. The roof currently has significant organic growth on the north side and has missing shakes on the south. To address the current condition of Implement Shed #1 we recommend the following:

- Complete a roof maintenance program that includes maintenance on the Implement Shed #1 roof.
- Complete a roof replacement program that includes replacing Implement Shed #1 roof.
- Complete a landscaping program that includes the vegetation surrounding Implement Shed #1.
- Expose lean-to posts up to concrete footing.

5.1.29 Implement Shed #2

Implement Shed #2 is in generally fair condition. Surface corrosion on the steel saddle connections at the base of the barn posts is not currently of concern but will continue to corrode the connection if not addressed. The roof has significant debris from the tree to the North and has had extensive localized shake replacement. To address the current condition of Implement Shed #2 we recommend the following:

- Complete a roof maintenance program that includes maintenance on the Implement Shed #2 roof.
- Complete a roof replacement program that includes replacing Implement Shed #2 roof.
- Complete a landscaping program that includes the vegetation surrounding Implement Shed #2.
- Complete a cladding maintenance program that includes maintenance of the Implement Shed #2 cladding.
- Expose lean-to posts up to concrete footing.

5.1.30 Tack Shed

The Tack Shed is in generally good condition. The strap ties that currently provide the lateral bracing for the barn are not sufficient from a structural perspective. To address the current condition of the Tack Shed we recommend the following:

Provide new strap anchors at steel ties.

5.1.31 Corral

The fence and announcer booth are in generally good condition. The grandstand platform is a hazard to visitors in its current condition. It should be removed and could be replaced as desired by the City and the Society. Costs have been carried to remove and replace the grandstand. To address the current condition of the Corral we recommend the following:

• Remove grandstand platform with option to replace with new if desired.

5.1.32 Glamping

The glamping area appears to be in generally good condition. As the glamping site becomes more popular, the operator may need to add more toilet systems to keep up with demand. Improvement to toilet systems, including septic system upgrades are not included in recommendations or opinions of probable costs as these would be improvements to the current installations.

5.1.33 Balmoral School House

Balmoral School House is in generally fair condition. Localized rotting of logs at the exterior walls should be repaired before they become of structural concern. To address the current condition of Balmoral School House we recommend the following:

- Repair logs where they have deteriorated.
- Complete a roof maintenance program that includes maintenance on the Balmoral School House roof.
- Complete a roof replacement program that includes replacing Balmoral School House roof.
- Complete a window and door program that includes maintenance of the window at the Balmoral School House.
- Complete a cladding maintenance program that includes maintenance of the Balmoral School House cladding.

5.1.34 Schubert House

Schubert House is in generally fair condition. The foundation at Schubert House is in fair condition. Some localized damage to the concrete masonry foundation appears to have been caused during the restoration process or other work and should be repaired. The plaster and lath finish is in poor condition and should be repaired or replaced to prevent it becoming a falling hazard. While plaster and lath is a heritage material, a precedent for replacement with drywall has already been set. The chimney is in fair condition but is beginning to reach the end of its service life. If allowed to continue to deteriorate the chimney poses a projectile risk to pedestrians below. There is messy wiring in the crawlspace that should be cleaned up. To address the current condition of the Schubert House we recommend the following:

- Complete localized foundation wall repairs at the wood pony wall where tilted and repair any damaged CMU.
- Complete a roof maintenance program that includes maintenance on the Schubert House roof.
- Complete a roof replacement program that includes replacing the Schubert House roof.
- Complete a window and door program that includes maintenance of the windows and doors at Schubert House.
- Complete a cladding maintenance and painting program that includes maintenance of the Schubert House cladding.
- Complete a landscaping program that includes the vegetation surrounding the Schubert House.
- Repoint mortar at the chimney.
- Either repair plaster and lath wall and ceiling finishes with like materials and heat in the winter or replace with drywall.
- Clean up wiring in crawlspace.

5.1.35 Schubert Barn

The Schubert Barn is in generally fair condition considering its age. However, it is leaning towards Deep Creek which is of structural concern. RJC had no access to the interior of the barn during our visit so the cause of the leaning could not be determined. To address the current condition of the Schubert Barn we recommend the following:

- Retain structural engineer report to review whole building structural system.
- Complete a roof maintenance program that includes maintenance on the Schubert Barn roof.
- Complete a roof replacement program that includes replacing the Schubert Barn roof.
- Complete a cladding maintenance program that includes maintenance of the Schubert Barn cladding.

5.1.36 Spallumcheen Pioneer Power Club Clubhouse (a.k.a. Maintenance Building)

The SPPC Clubhouse and Maintenance Building is in generally good condition. Some posts supporting the lean-to at the back and side of the building have rotted and should be repaired. The hole in the North lean-to roof also diminishes its weather-proofing abilities. The Domestic hot water heater is nearing the end of its service life and is in need of replacement. The furnace is at the end of its service life. Gas piping does not appear to have the appropriate protective coatings. To address the current condition of the Spallumcheen Pioneer Power Club Clubhouse we recommend the following:

- Remove rotted wood from posts and add new pedestal.
- Complete a roof maintenance program that includes maintenance on the SPPC Clubhouse roof.
- Complete a cladding maintenance program that includes maintenance of the SPPC Clubhouse cladding.
- Replace domestic water heater. Provide the hot water heater with a drain pan to catch and direct the water to a drainage system in the event of a leak in the tank.
- Upgrade heat generation system.
- Construct fire rated room to house domestic water heater and furnaces.
- Engage a technician to ensure the energy supply systems are configured to code.
- Complete a pipe and duct monitoring program to inspect domestic water pipes, sanitary pipes, and supply ducts every five years.
- Upgrade existing insulation at domestic water supply pipes to save energy.
- Complete a landscaping program that includes the vegetation surrounding the SPPC Clubhouse and lean-tos.

5.1.37 Storage Building

The Storage Building is in generally fair condition. To address the current condition of the Storage Building we recommend the following:

Complete a landscaping program that includes the vegetation surrounding the Storage Building.

5.1.38 Storage Shed

The storage shed is in generally poor condition. Although the super structure appears to be in fair condition with minor staining at the base of posts, the roofing is in poor condition with missing sheathing and shingles, excessive moss, and poor condition of the existing shingles. To address the current condition of the Storage Shed we recommend the following:

- Complete a roof replacement program that includes replacing the Storage Shed roof.
- Complete a roof maintenance program that includes maintenance on the Storage Shed roof.

5.1.39 Foot Bridge

The new Foot Bridge is in generally good condition. There is currently no recommended work for the Foot Bridge.

5.1.40 Vehicle Bridge (Currently Decommissioned)

The Decommissioned Bridge is currently in poor condition and, per report by McElhanney, is not suitable for use. To address the current condition of the Decommissioned Bridge we recommend the following:

- Retain environmental engineer Environment Impact Assessment for the removal of the bridge.
- Remove and dispose of bridge
- Assess whether a new bridge is beneficial to the site and, if so, replace with new.

5.1.41 Log Foot Bridge

The Log Foot Bridge is in poor condition and it is not suitable for use. To address the current condition of the Log Foot Bridge we recommend the following:

- Retain environmental engineer Environment Impact Assessment for the removal of the bridge.
- Remove and dispose of bridge.

5.1.42 Small Buildings

The animal feed buildings and other small buildings are in generally good condition. A few buildings are in poor condition due to age or have sustained previous damage and require repair. To address the current condition of the Small Buildings on site we recommend completing the following:

- Complete a small building maintenance program which includes the following items in the next five years:
 - Repair fire storage structure West of Schubert House.
 - Replace north most animal feed building in group South of Log Barn
 - Replace railing on North tractor shelter near cemetery.
 - Repair wood storage building near Carriage Shed and Red Shed.
- Complete a landscaping program which addresses the vegetation around small buildings.

5.1.43 Parking Lots and Roads

The parking lots are in fair condition. Repair will be required to maintain drivability. To address the current condition of the Parking Lots and Roads we recommend the following:

• Complete a road maintenance program to repair paved surfaces over the next seven years as required.

5.1.44 Fences

Fencing is in varying but generally good condition with areas of maintenance being required. To address the current condition of the Fences we recommend the following:

• Complete a fencing maintenance program over the next 15 years that allows for the repair and replacement of 2 km of fence per year.

5.1.45 Irrigation and Water Lines

Irrigation Lines are varying but generally good condition where visible. However, the majority of the system is buried and was not reviewed. The Water lines and hydrant servicing the O'Keefe Ranch were installed in 2010 and are assumed to be in good condition. It has been reported that the O'Keefe Ranch site is on a permanent water quality advisory from Interior Health as they have low chlorine issues and have had positive coliform samples. Further assessment will be required to determine a long term solution to this issue. Cost associated with addressing this problem are not known and have not been included in the evaluation.

To address the current condition of the Irrigation and Water Lines we recommend the following:

• Complete an irrigation and water line maintenance program over the next 50 years that allows for the repair and replacement of 50 m of water lines and connected hydrants per year.

5.2 Prioritized Recommendation Plan

This section proposes a prioritized recommendation plan of programs and projects based on the recommended actions above and the risk assessment matrix presented in Section 3.0. The opinion of probable costs for each program and project can be found in Section 6.0 of this report. Recommended work has been grouped into Programs and Projects based on the following criteria:

Programs: work is to be completed at multiple buildings in phases over a period of several years.

Projects: work is to be completed at one building or at multiple buildings and is not phased over several years.

5.2.1 High Priority Programs

Table 3, identifies programs address conditions considered to be of moderate priority and should begin within the next year.

TABL	E 3: HIGH PRIORI ⁻	TY PROGRAMS	
Item	Location	Program Title	Description
1	All Building Roofs	Roof Maintenance Program	Clean eavestroughs, remove vegetation and debris from roofs bi-annually (fall/spring). Replace loose or missing shingles as required. Repair and repaint fascia as required. Immediate repairs to active leaking at Stagecoach Depot. Cut back overhanging tree and remove debris from Pioneer Cabin roof. Re-Detail Log House Lean-To roof edge with mitered edges
			and add signage and post to redirect pedestrians. Investigate chimney penetration at St. Anne's Church to
			confirm source of leaking and repair flashing. Review and repair leaks at Pump House roof.
2	All Buildings and Small Buildings	Landscaping, Small Building Maintenance, and Monitoring Budget Program	Landscape to provide 4" clearance around buildings. Repair or replace small buildings as required. See Section 5.1 for immediate projects. Continue to monitor conditions indicated in Section 5.1 for changes. Monitoring can be completed internally. Notify a professional if conditions change. At a minimum the following items should be included in the annual monitoring program. Gazebo checking posts and cracked beam. Cowboy Bunkhouse spalled foundation wall. Both Windmills buried posts. Log House active leaking at the interior of the building. Red Shed cracking in the extended concrete slab-ongrade, foundation, and building for movement. Water Cisterns cracking in walls. Note. This program is considered high priority based on the recommended timeline not the severity of the condition.

5.2.2 Moderate Priority Programs

Table 4, on the next page, identifies programs address conditions considered to be of moderate priority and should begin with two to five years.

TABL	E 4: MODERATE P	RIORITY PROGRAMS	
Item	Location	Program Title	Description
3	All Building Roofs	Roof Replacement Program	Complete a roof replacement program starting in the next 5 years. The program is recommended to replace the roofs of four buildings a year for the next nine years. The first roofs considered for replacement should include the Stagecoach Depot and Chinese Cook's House. For a full prioritization of roof replacements see Appendix G.
4	All Sanitary and Domestic Distribution Piping and Supply Ducts	Mechanical System Monitoring and Assessment Program	See Section 2.0 in Appendix E for detail. Inspect and clean sanitary pipes. Look for pinhole leaks in domestic water distribution and sanitary waste piping. Inspect and clean supply ducts. This program is recommended to be completed every 5 years.
5	All Windows and Doors	Window and Door Program	Repair and paint window and door trims, replace glazing seals and broken glass, repair or replace door doors. The program is recommended to repair or replace windows in three buildings a year for the next seven years.
6	All Building Cladding	Cladding Maintenance and Painting Program	Replace damaged cladding trims and loose or missing cladding as required. Clean and paint cladding as required. Paint at risk cladding to extend service life. This program is recommended to replace 5% of cladding in the next 30 years. Provide additional support or connection to the structure of the building at the top of the Chinese Cook's House stairs. Repair stained sheathing at Red Shed and Pump House.

5.2.3 Lesser Priority Programs

Table 5 identifies programs address conditions considered to be of lesser priority and should begin with six to ten years.

TABLE 5: LOW PRIORITY PROGRAMS										
Item	Location	Program Title	Description							
7	All Buildings	Assessment Budget	Allowance for building assessments as required. This program is recommended for assessment of 2-4 buildings every five years.							
8	All Fences	Fence Maintenance Program	Repair fencing in the spring with like materials as required.							
9	All Paved Surfaces	Road Maintenance Program	Repair potholes and slope for drainage as required.							
10	All Water Lines	Irrigation and Water Line Replacement Program	Replace damaged lines and garden hydrants in the spring as required.							

5.2.4 High Priority Projects

Table 6 identifies projects address conditions considered to be a high priority and should be completed within the next year.

TABL	E 6: HIGH PRIORITY P							
Item	Location	Project Title	Description					
11	Visitor Center, Greenhow Museum & O'Keefe House	Hazardous Materials Assessment	Retain environmental engineer report for review of organic growth in Visitor Center and Greenhow Museum basements and animal dropping and vermiculite insulation in O'Keefe House attic.					
12	Greenhow Museum	Stair Replacement and Repair	Replace basement and second floor emergency exit stairs.					
13	Meat & Dairy Building	Additional Structural Support	Add permanent support at Dairy Building, Garage (B3 in Appendix C). Complete structural review and design to address as-found conditions. Add blocking at cut joists at Meat Building.					
14	Meat & Dairy Building	Wall and Floor Repairs	Temporarily support and repair North and East wall in Dairy Building (B1 in Appendix C) and rotted floor structure in Meat Building (B2 in Appendix C). Landscape to expose structure. Remove and reinstate cladding at North wall. Install vents over openings at North wall. Patch concrete steps to Dairy Building front entrance.					
15	Blacksmith Shop	Forge Ventilation System Replacement	See section 2.0 of Appendix E for detail. Systems should be replaced, and appropriate thimble are needed for the penetrations through the roof.					
16	O'Keefe House & Blacksmith Shop	Chimney Repairs	Provide additional support to leaning chimney at O'Keefe House. Replace spalled bricks and repoint mortar. Provide double wall flashing at combustible roof at Blacksmith Shop.					
17	Hay Shed	Concrete Repair	Remove deteriorated concrete, clean rebar, replace any reinforcement with significant cross-sectional area loss, and repair concrete.					
18	Decommissioned Vehicle Bridge & Log Foot Bridge	Bridge Removal and Replacement	Retain environmental engineer report for environmental impact of bridges removal. Remove and dispose of bridges. Cost to install a new bridge is carried as Optional Item 43. This cost has been budgeted using the Ministry of Transportation of BC's guidelines as is recommended to be reviewed.					

TABL	TABLE 6: HIGH PRIORITY PROJECTS										
Item	Location	Project Title	Description								
19	O'Keefe House	Geotechnical Report	Retain geotechnical engineer report for review of retaining wall.								
20	Visitor Center	Carpentry Repairs	Temporarily support roof structure, remove rotted wood from post and add new pedestal. Remove rotted truss trails and provide flashing.								
21	Visitor Center	Basement Repairs	Clean basement walls and extend rainwater leaders. If condition persists, add drainage and waterproofing.								

5.2.5 Moderate Priority Projects

Table 7 identifies projects address conditions considered to be at moderate risk and should be completed within two to five years.

TABL	E 7: MODERATE PRIOF	RITY PROJECTS	
Item	Location	Project Title	Description
22	O'Keefe House & Schubert Barn	Structural Assessment	Retain structural engineer report for review of O'Keefe House roof structure and deflecting ceilings in bathroom and small dining room, Log Barn hay loft, and Schubert Barn structural system.
23	Corral	Grandstand Removal	Remove grandstand platform. Cost to install a new grandstand has been carried as an optional cost in addition to the removal.
24	Various	New Fire Rated Rooms	See section 2.0 of Appendix E for detail. Construct new fire rated rooms to house furnaces and water heaters as recommended.
25	O'Keefe House, Log Barn, Carriage Shed & Schubert House	Foundation Repairs	Provide support and repair foundation columns at O'Keefe House. Replace spalled bricks and repoint mortar joints. Provide fill below Log Barn East Lean-To concrete slab. Provide fill where Carriage Shed foundation is undermined. Repair Schubert House pony wall where tilted and repair CMU blocks that are damaged.
26	Various Locations	Miscellaneous Electrical Repairs	See Appendix F for detail. Remove old meter outside of Stagecoach Depot. Replace disconnect switches in Meat and Dairy Building and SPPC Display #1. Clean up wiring in O'Keefe House and Schubert House.

TABL	E 7: MODERATE PRIOR	RITY PROJECTS							
27	Schubert House & Log House	Chimney Repairs	Replace spalled bricks and repoint mortar joints where required.						
28	O'Keefe House	Water Management	Repair CMU basement wall and add extend rainwater leaders. If condition persists, add drainage away from the area. Remove rotted portions of porch and repair. Add new scuppers.						
29	Visitor Center	Cooling Unit Replacement	See section 2.0 of Appendix E for detail. Replace cooling unit in the near future.						
30	Greenhow Museum	Hot Water Heater Replacement	See section 2.0 of Appendix E for detail. Remove and dispose of old heater and install new.						
31	Stagecoach Depot	Hot Water Heater Replacement	See section 2.0 of Appendix E for detail. Remove and dispose of old heater and install new						
32	O'Keefe House	Condensate Pump Replacement	See section 2.0 of Appendix E for detail. Remove and dispose of old condensate pump and install new.						
33	Carriage Shed	Hot Water Heater Replacement	See section 2.0 of Appendix E for detail. Remove and dispose of old heater and install new						
34	SPPC Clubhouse	Furnace Upgrade	See section 2.0 of Appendix E for detail. System should be upgraded soon.						
35	SPPC Clubhouse	Hot Water Heater Replacement	See section 2.0 of Appendix E for detail. Remove and dispose of old heater and install new						
36	Various	Hot Water Upgrade	See section 2.0 of Appendix E for detail. Upgrade systems to provide hot water at sinks.						
37	Various	Miscellaneous Mechanical Repairs	See section 2.0 of Appendix E for detail. Configure natural gas piping in Museum and SPPC Clubhouse. Provide drain pans for hot water heaters. Replace galvanized piping at Pump House. Upgrade piping insulation.						

5.2.6 Lesser Priority Projects

Table 8, on the next page, identifies projects address conditions considered to be lesser priority and should be completed within six to ten years.

TABL	E 8: LESSER PRIORITY	PROJECTS	
Item	Location	Project Title	Description
	Implement Sheds,		Expose base of lean-to wood posts to concrete footing were buried. Remove rotted wood and add new pedestals at these locations.
38	SPPC Displays and SPPC Clubhouse	Minor Structural Repairs	Provide new strap anchors at SPPC Display #2 and Tack Shed.
			Clean saddle connections at base of posts in Implement Sheds.
39	Visitor Center, Caretaker's House, & SPPC Clubhouse	IGU Replacement	Replace IGUs as required.
40	O'Keefe House & Schubert House	Plaster and Lath Repair or Replacement	Option 1: Repair existing plaster and lath. Heat buildings in the winter to extend service life. Option 2: Replace damaged plaster and lath with drywall (carried in OPC).
41	O'Keefe House	Air Handling Unit Repair	See section 2.0 of Appendix E for detail. Replace cooling coil in air handling unit.
42	St. Anne's Church	Heating Upgrade	See section 2.0 of Appendix E for detail. Update heating to sealed combustion condensing unit.

6.0 Opinions of Probable Cost

Opinions of Probable Costs (OPC) for the recommended options are presented by RJC to provide an expectation as to the magnitude of costs required to complete the recommended work. The opinions provided are based on conceptual repair methods, recently obtained broad unit rates and past experience with similar projects. A detailed estimate of costs has not been provided, as it would require the preparation of plans, details, specifications, and schedules to achieve a quantified summary of estimated costs. It is assumed in the creation of these costs that work will be completed by a contractor.

Opinions of Probable Costs are based on RJC's review of the present condition of the building. Deferral of the work could result in increased repair costs. Please note that the cost of remediation could vary greatly depending upon the materials chosen and any deterioration uncovered during the remediation work.

Contract administration range depending on the scope and can run from 10% through 20%, typically smaller projects are found to have a higher percentage of costs. For the purposes of the provided OPCs we have included soft costs to be 18% of construction costs.

When budgeting, soft costs, including Society costs, engineering fees, costs for management, permits, and testing should also be added. Soft costs range depending on the scope and can run from 15% through 25%, typically smaller projects are found to have a higher percentage of soft costs, depending on the project details and requirements. For the purposes of the provided OPCs we have included soft costs to be 25% of construction costs.

An Owner contingency of 20% is included with each Opinion of Probable Cost. A contingency of at least this amount should be included in all construction budgets to allow for variation in estimated unit prices due to competitive bidding, repair work resulting from additional deterioration, and additional work required to repair any damage caused by or discovered during construction.

Due to the known potential of hazardous materials we have included a Hazardous Material Contingency of 15% of the construction costs. This contingency does not include for the testing of materials but rather the potential increase in effort to abatement and contain work areas with hazardous materials.

Table 9, on the next page, summarizes the opinions of probable costs for remediation and repair programs and projects for the O'Keefe Ranch. As noted earlier, items are presented in order of priority. The items recommended in the table are intended to maintain or improve the performance of the facility and to protect the building's structures from deterioration due to moisture ingress. A summary of OPCs for all programs and projects discussed are included below.

TABI	LE 9: OPC SUMMARY												
		High Priority		Modera	ate Priority				Lesser Prior	ity			
Item	Description	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Optional Timeline	Comments
						Programs							
1	Roof Maintenance Program	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000		Ongoing Maintenance Program.
2	Landscaping, Small Building Maintenance, and Monitoring Program	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000		Ongoing Maintenance Program.
3	Roof Replacement Program			\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000		Program completed in 40 years.
4	Mechanical System Monitoring and Assessment Program		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000		Ongoing Maintenance Program.
5	Window and Door Program		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000		Program completed in 30 years.
6	Cladding Maintenance and Painting Program		\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000		Program completed in 30 years.
7	Assessments Budget						\$8,000	·					Budget \$8,000 every 5 years. Ongoing program.
8	Fencing Maintenance Program						\$10,000	\$10,000	\$10,000	\$10,000	\$10,000		Program completed in 15 years.
9	Road Maintenance Program						\$15,000	\$15,000	\$15,000	\$15,000	\$15,000		Program completed in 7 years.
10	Irrigation and Water Line Replacement Program							\$40,000	\$40,000	\$40,000	\$40,000		Budget \$400,000 every 10 years for 50 years.
					·	Projects				·	·	·	
11	Hazardous Materials Assessment	\$10,000											
12	Greenhow Museum Stair Replacement and Repair	\$25,000											
13	Meat and Dairy Building Additional Structural Support	\$7,000											
14	Meat and Dairy Building Wall and Floor Repairs	\$20,000											
15	Blacksmith Shop Forge Ventilation Replacement	\$18,000											
16	O'Keefe House & Blacksmith Shop Chimney Repairs	\$5,000											
17	Hay Shed Concrete Repair	\$25,000											
18	Bridge Removal	\$125,000											
19	O'Keefe House Geotechnical Report	\$8,000											
20	Visitor Center Drainage Improvement	\$25,000											
21	Visitor Center Carpentry Repairs	\$8,000											
22	Structural Assessments at Various Buildings		\$10,000										
23	Corral Grandstand Remove		\$10,000									\$40,000	Optional item to replace grandstand in addition to the removal cost.
24	New Fire Rated Rooms at Various Buildings		\$60,000										
25	Foundation Repairs at Various Buildings		\$25,000										

TABI	E 9: OPC SUMMARY												
		High Priority		Moderat	e Priority			Lesser Priority					
Item	Description	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Optional Timeline	Comments
26	Miscellaneous Electrical Repairs		\$9,000										
27	Log House and Schubert House Chimney Repairs		\$5,000										
28	O'Keefe House Water Management		\$5,000										
29	Visitor Center Cooling Unit Replacement		\$14,000										
30	Greenhow Museum Hot Water Heater Replacement		\$6,000										
31	Stagecoach Depot Hot Water Heater Replacement		\$6,000										
32	O'Keefe House Hot Water Heater Replacement		\$2,000										
33	Carriage Shed Hot Water Heater Replacement		\$3,000										
34	SPPC Clubhouse Furnace Upgrade		\$13,000										
35	SPPC Clubhouse Hot Water Heater Replacement		\$6,000										
36	Hot Water Upgrade		\$10,000										
37	Miscellaneous Mechanical Repairs		\$8,000										
38	Minor Structural Repairs Project						\$6,000						
39	IGU Replacement Project						\$50,000						
40	O'Keefe House Air Handling Unit Repair						\$6,000						
41	O'Keefe & Schubert House Plaster and Lath Repair or Replacement*						\$14,000						
42	St. Anne's Church Heating Upgrade						\$13,000						
43	Optional - Bridge Replacement						V 1.5,000			\$325,000	Optional item to replace bridge. Based off of the Ministry of Transportation BC Guidelines. A class 'D' estimate is recommended by a cost consultant.		
Subt	otal**:	\$291,000	\$227,000	\$105,000	\$105,000	\$105,000	\$227,000	\$130,000	\$130,000	\$130,000	\$130,000	\$365,000	
Cont	ract Administration Overhead (18%)**:	\$52,380	\$40,860	\$18,900	\$18,900	\$18,900	\$40,860	\$23,400	\$23,400	\$23,400	\$23,400	\$65,700	
Soft	Costs (25%)**:	\$72,750	\$56,750	\$26,250	\$26,250	\$26,250	\$56,750	\$32,500	\$32,500	\$32,500	\$32,500	\$91,250	
Cont	ingencies (20%)**:	\$29,100	\$22,700	\$10,500	\$10,500	\$10,500	\$22,700	\$13,000	\$13,000	\$13,000	\$13,000	\$73,000	
Haza	rdous Material Contingency (15%)	\$43,650	\$34,050	\$15,750	\$15,750	\$15,750	\$34,050	\$19,500	\$19,500	\$19,500	\$19,500	\$54,750	
Tota	***:	\$500,000	\$425,000	\$175,000	\$175,000	\$175,000	\$425,000	\$250,000	\$250,000	\$250,000	\$250,000	\$650,000	

Note. The total is calculated on the first year for programs or projects that span multiple years.

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^{*}Cost carried is to replace cracked plaster and lath with drywall not to repair or replace with like materials.

^{**}Opinions of Probable Costs do not include extended warranties, engineering fees, or GST/PST unless noted otherwise. The opinions of probable costs should be considered class "D" estimates.



***The total costs provided in the table above and the executive summary have been rounded based on the following rounding protocol:

- Rounded to the nearest \$1,000 for budget values up to \$20,000
- Rounded to the nearest \$5,000 for budget values between \$20,000 and \$100,000
- Rounded to the nearest \$25,000 for budget values between \$100,000 and \$500,000
- Rounded to the nearest \$50,000 for budget values between \$500,000 and \$1,000,000
- Rounded to the nearest \$100,000 for budget values of more than \$1,000,000

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7.0 Next Steps

As discussed in the introduction of this report Phase 2 of the overall consulting program builds from the Statements of Significance (SoS) and this Facility Condition Assessment (FCA). Taken together, the overall goal is to understand the heritage value of O'Keefe Ranch as a historic place (SoS) and its current condition (FCA) then plan for the ongoing use and conservation of the heritage value (Phases 2 and 3). To help understand the value of these reports and the pending additional phases, ANCE has provided the following summary, with emphasis and additions by RJC:

Before any plans are put in place, or work carried out, the Standards and Guidelines for the Conservation of Historic Places in Canada call for producing SoSs to cohesively and formally recognize the heritage value of the place. This requirement is now met as the Statements are complete.

The SoS was created by the federal Historic Places Initiative (HPI) as a succinct and consistent format to express the heritage values of places that matter to Canadian communities. A SoS, in its simple, non-technical language, is "a declaration of value that briefly explains what a historic place is and why it is important". It is both a starting point and a guide for communities, property owners, architects, developers, planners and anyone who may be planning the future of a historic place. The completed SoSs are submitted by the local government to the Province of BC, and from there to the Canadian Register of Historic Places (historic places.ca).

An SOS and a Condition Assessment are both **requirements for conservation grant applications** with the provincial Heritage Legacy Fund, administered by Heritage BC, and which provide hundreds of thousands of dollars towards heritage awareness, planning and conservation work each year.

The advancement of the work to develop the Heritage Conservation Plan (HCP) explains how The City of Vernon will sustain the significance identified in the Statement of Significance (the heritage values and character defining elements) in any new use, alteration, repair or management.

The HCP utilizes a simple thinking process which starts with describing what is there, the condition of each part, what is proposed to happen to the historic place and its components, and the principles by which you will manage it (following the Standards and Guidelines for the Conservation of Historic Places in Canada).

The HCP then outlines more detailed work programs for maintenance, management, access, use or other issues.

Within the HCP each part of the property (building and site) will be specified to be either Preserved, Restored or Rehabilitated (the three possible Conservation treatments) depending on its condition, its significance and its intended function. The HCP document outlines how to technically implement the above conservation approaches.

The biggest funding source for heritage properties in BC, the Heritage Legacy Fund, as mentioned above, prioritizes applications that have a professionally written Statement of Significance, Condition Assessment



and Heritage Conservation Plan. **Having this work completed now, in advance of grant intake announcements, will help the City be prepared to act when new grant intakes are announced**.

Whether the grant application is successful or not, having these documents is especially useful in the case of historic places that are owned, run and managed by non-profit societies and a board or committee. The HCP provides a consensual, professional and comprehensive guide to how to care for the place, the priority items and order in which money and efforts should be invested, and, offer a continuity of knowledge about a site when board members, site managers and maintenance staff may turn-over or have different ideas over time.

From this conservation plan the proposed capital and operations management plan will be formed. The capital and operations management plan operationalizes the studies, informed by budget boundaries provided by the City and considers existing funding, future grants and other costs in a more unified approach that can be acted upon on an annual basis.

8.0 Closing

We trust the information contained within this report satisfies your current requirements. Should you have any comments, questions or concerns, please contact the undersigned. We remain available to review and discuss findings and future action.

Yours truly,

READ JONES CHRISTOFFERSEN LTD.

Trenton Squair, BASc, P.Eng., CAHP, BCAHP Project Engineer

ELW/vml

EGBC Permit to Practice number: 1002503Michael Blackman, BASc, P.Eng., LEED® AP BD+C, FEC Principal



Appendix A

Site Maps





SERVICES MAP

Building Key

- 1. Visitor Center
- 2. Greenhow Museum
- 3. Stagecoach Depot
- 4A. O'Keefe House
- 4B. Caretaker's House
- 5. Pavilion
- 6. Gazebo
- 7. Pioneer Cabin
- 8. Cowboy Bunkhouse
- 9. Bird Pens
- 10. Windmill #1
- 11. Log Barn
- 12. Hay Shed
- 13. Ye Ol' Feed Shed
- 14. Meat & Dairy Building
- 15. Chinese Cook's House
- 16. Log House
- 17. General Store
- 18. Blacksmith Shop
- 19. Red Shed
- 20. Carriage Shed
- 21. St. Anne's Church
- 22. Smoke House
- 23. Pump House
- 24. Windmill #2
- 25. Water Cisterns
- 26. SPPC Display #1
- 27. SPPC Display #2
- 28. Implement Shed #1
- 29. Implement Shed #2
- 30. Tack Shed
- 31. Corral
- 32. Glamping
- 33. Balmoral School House
- 34. Schubert House
- 35. Schubert Barn
- 36. SPPC Clubhouse
- 37. Storage Building
- 38. Storage Shed
- A. Foot Bridge
- B. Decommissioned Bridge
- . Cistern Ruin
- D. Fields
- E. Cemetery
- . Log Foot Bridge





Appendix B

Facility Condition Assessment Background

Notation

A condition assessment is provided for each building component. The condition is generally categorized as Good, Fair, and Poor.

Good generally applies to building components that are in the first half of their expected service life, are well-maintained, require only basic maintenance if any, are fully functional and serving their intended purpose without known issues.

Fair generally applies to building components that are in the second half of their expected service life, require some regular maintenance, are fully functional and serving their intended purpose, however may have known issues.

Poor generally applies to building components that require increasing effort to maintain in a functional state or are not serving their intended purpose reliably.

When a component cannot be visually reviewed, such as underground storm water piping or building components hidden inside walls or behind other building components, Unknown may be used. When the component condition varies significantly, such as for buildings where portions of the exterior cladding have been restored at different times, Varies may be used.

Estimated Remaining Service Life

The estimated remaining service life, as well as the timing for work required before the component reaches the end of its expected service life, is based on the year the component was installed, its expected service life (published and internal data), and the condition at the time of the site review, and the field observer's knowledge of the component. If the installation date is unknown, the condition assessment becomes the primary means of estimating the year of installation. If deemed useful (and included in the agreed-upon scope of work for the BCA), the condition assessment is supplemented by a review of available documentation and discussions with maintenance staff or service providers. This can improve the estimates of the component's remaining service life. For this report the estimated lifespan is compiled in the Asset Inventory in Appendix G.

There are numerous factors that can affect the service life and performance of a component. Furthermore, certain evidence which might impact our opinions of estimated remaining service life or work required before the component reaches the end of its expected service life may be hidden within walls, inside the component or behind other components, underground or in crawl spaces, for example. As a result, there remains a significant margin of error for certain building components. Actual conditions may differ significantly from the conditions assumed during the visual review. In some cases, components could require significant expenditures earlier or later than what is noted in this report.

Preservation, Restoration, and Rehabilitation

The Historic O'Keefe Ranch is part of the historic fabric of British Columbia. As such, any works proposed for the Ranch should be proposed within the context of the Standards and Guidelines for The Conservation of Historic Places in Canada (The Standards). The current iteration of this document is the Second Edition.

The Standards prescribe three (3) primary approaches or "treatments" for conservation of historic or heritage value. These are preservation, rehabilitation and restoration. Each of the three (3) treatments can be present in any particular conservation context, but one (1) will be the primary focus.

In the case of O'Keefe Ranch it is RJC's current understanding that the overarching goal is to preserve the structures and are not intended to be returned to an occupied state. While preservation is the long-term goal, rehabilitation is also a prudent course of action in order to effectively conserve the heritage fabric of The Ranch. Rehabilitation activities will largely focus on the repair of deteriorated building components, such as roofs, that will extend the lifespan of the building as a whole system.

Assuming that the recommended funding is available, and work can move forward with the recommended scopes of rehabilitation, the services of a heritage consultant will be invaluable to help ensure that The Standards are met and that schematic designs for the rehabilitation can be submitted to the responsible authorities to vet the proposed works.



Appendix C

Detailed Building Condition Assessments

OPC for Programs

Opinions of Probable Cost for recommended programs have not been included in the summary tables in the header of the following sheets. A summary of Recommended Programs OPCs is below in Table C1.

TABLE C10: SUMMARY OF PROG	RAM OPCS		
Program Title	Typical Annual Cost	Ten Year Cost	Comments
Roof Maintenance Program	\$ 10,000	\$ 100,000	n/a
Landscaping, Small Building Maintenance, and Monitoring Budget Program	\$ 5,000	\$ 50,000	n/a
Roof Replacement Program	\$ 70,000	\$ 560,000	Total replacement project to run over 40 years with a projected total cost of \$ 2,800,000
Mechanical System Monitoring and Assessment Program	\$ 4,000	\$ 36,000	n/a
Window and Door Program	\$ 10,000	\$ 90,000	Total replacement project to run over 30 years with a total cost of \$ 300,000
Cladding Maintenance and Painting Program	\$ 6,000	\$ 54,000	Total replacement project to run over 30 years with a total cost of \$ 180,000
Assessment Budget	\$ 8,000	\$ 8,000	A budget of \$8,000 every 5 years.
Fence Maintenance Program	\$ 10,000	\$ 50,000	50% replacement project to run over 15 years with a total cost of \$ 150,000
Road Maintenance Program	\$ 15,000	\$ 75,000	50% replacement project to run over 7 years with a total cost of \$ 105,000
Irrigation and Water Line Replacement Program	\$ 40,000	\$ 160,000	Total replacement project to run over 50 years with a total cost of \$ 2,000,000

Visitor Center

Building Info		Notes		Opini	on of Prob	able Cost S	ummar	Overview Photo	Location				
Building No.	1	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority		Lov	w Priority	Total			///
Othe	r Names	1981 constructed.	buildings the full project cost has been included in	Α	\$ 35,000				\$ 35,	000			
Restaurant, Gift	Shop, Core Building	1988 restaurant patio added.	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В		\$	8,000	\$	50,000	\$ 58,	000		
	cription	2006 patio removed, re-roofed (summer).	red.	С						\$	The state of the s		S CONTRACT
One-storey building		Interior bathroom renovation in	Programs have not been included in OPC Summary.	D		\$	27,400	\$	1,000	\$ 28,	400		Company of the second
shop, non-operation	nter also houses a gift	the last 5 years.	Refer to Program Summary page at beginning of the	E						\$	-		
administrative offices			report. Where scopes have been summarized into one	F						\$		*	and the same of th
			project in the report OPC, numbers are reported in	G						\$			
			green.	Total	\$ 35,000	\$	35,400		51,000	\$ 121,	400	North Control	
Level 1	Level 2	Level 3					As	sessm	ent			D 1 11	
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Com	ments				Recommended Action	Priority Ranking	Probable Cost
											1 Hazardous Materials Assessment.	4B	\$ 10,000
	A10 Foundation	A1010.1 Standard Foundations	Concrete foundation wall.	Poor	Efflorescence and water staining at the base of the wall.						O at buildings 2, B1020 at building 4A. dd perimeter drainage and extend RWL.	40	· ·
										A 10 10.2 A	<u> </u>	4B	
A Substructure		A1020 Special Foundations	Wood foundation on grade at the exterior washrooms.	Fair	١	No comment	on condition	١.			No Recommendation.	N/A	N/A
		A1030 Slab on Grade	Concrete slab on grade patio at North-West of the building.	Fair		Minor	cracking.				No Recommendation.	N/A	N/A
	A20 Basement Construction	A2020 Basement Walls	See A1010.	Poor		See A	A1010.					N/A	See A1010.
	B10 Superstructure	B1010 Floor Construction	Wood deck at the front entrance. Wood framed. Concrete slab in basement.	Good	١	No comment	o comment on condition.				No Recommendation.	N/A	N/A
	B to Superstructure	B1020 Roof Construction	Pole barn style glulam rafters in gift shop and restaurant. Elsewhere, 2x wood rafters or trusses.	Fair	Truss tails extend beyond edge of the roof and are rotted. Some checking in poles.						eriorated wood and add flashing. Continue toring checked poles for changes.	4D	\$ 8,000
	B20 Exterior Enclosure	B2010 Exterior Walls	Untreated board and batten cladding. Wood framed.	Fair	Cladding very close to grade and covered by landscaping in some areas. Water staining from irrigation. Some boards loose or rotted and some battens missing.					Landscape to	provide 4" clearance between cladding and vegetation.	3D	See Landscaping Program.
B Shell	BZO EXICITOR ENGIOSORE	B2020 Exterior Windows	Double glazed fixed windows circa 1980.	Fair	1980 windows	may need re	placement ir	next te	en years.	1	Carry partial IGU replacement.	2D	\$ 50,000
		B2030 Exterior Doors	Fibreglass doors at kitchen and giftshop, else wood. Wood trims.	Fair	1	No comment	on condition	۱.			No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and downspouts and wood fascia.	Poor	Moss below dorm rooves. Water sta	aining below		dormer.	. Fascia on		Clean and maintain roof.	N/A	See Roof Maintenance Program.
		B3020 Roof Openings	Box vents.	Fair	1	No comment	on condition	١.			No Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Wood frame partitions.	Good	1	No comment	on condition	٦.			No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood doors and trims. Style varies.	Fair	<u> </u>	No comment	on condition	۱.			No Recommendation.	N/A	N/A
	C20 Stairs	C2010 Stair Construction	Wood stairs to second floor (1) and basement (2).	Fair			on condition				No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Drywall and plaster.	Good	Plaster cracking in		Staining in kit se.	chen fr	om previous		No Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Mostly hardwood. Linoleum tile in kitchen and vinyl in bathrooms.	Good	١	No comment	on condition	۱.			No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Drywall with textured finish.	Fair		Taped joi	nts failing.				No Recommendation.	N/A	N/A

Visitor Center

		D2010 Plumbing Fixtures	Washrooms with toilets, urinals, sinks. One set indoors and the other outdoors. Kitchen equipment is in good shape but has been abandoned in place, as	Good	Lavatories and water closets are in good condition and seem to have been recently upgraded. The lavatory is only served with cold water. Hot water has not been provided. The existing	Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene.	3D	\$ 2,500
		D2020 Domestic Water	the restaurant is no longer in use.		fixtures should provide good service for the near future. Original piping systems are copper systems. Recent upgrades have used approved plastic piping systems. The insulation is in poor condition or missing in certain locations. Some elbows	D2020.1 Look for pinhole leaks from time to time. D2020.2 Consideration should be made for upgrades to	3B 1E	\$ 100 \$ 500
D Services	D20 Plumbing	Distribution	Piping system.	Fair	witnessed look suspiciously to be made with asbestos. The domestic water piping should provide good service for the near future.	the existing insulation to save energy. D2020.3 The piping system should be assessed by a hazardous materials professional to determine if there is asbestos on these systems.	3B	See A1010.1
		D2030 Sanitary Waste	Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.	Fair	The sanitary drainage piping should provide good service for the near future. However, the system is at an age where blockages could occur.	Should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at hand. There is no need for wholesale piping upgrades in the near future.	3D	\$ 300
		D2090 Other Plumbing Systems	Domestic hot water has been recently upgraded with a 3 kW Electric Domestic Water Heater.	Fair	The domestic water heater should provide good service for the near future.	Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.	2C	\$ 500
	D30 HVAC	D3010 Energy Supply	The bulk of the facilities that are heated are served through the natural gas meter and pressure regulation systems. These systems are owner and operated by the utility supplier.	Good	Gas piping where visible appears to be in good condition.	No upgrades to the system are anticipated unless significant upgrades to the existing systems is initiated.	N/A	N/A
		D3020 Heat Generating Systems	Three furnaces have been recently upgraded with sealed combustion energy efficient units.	Fair	These gas fired appliances have been installed in a room that is not fire rated.	No upgrades to the system are anticipated in the near future. Consideration should be made to fire rate the room that the furnaces are installed.	2B	\$ 10,000
		D3030 Cooling Generating Systems	Cooling is provided by a single Lennox ten-ton cooling capacity Condensing Unit. The unit was manufactured in 1999.	Poor	The unit is nearing the end of its service life. The cooling equipment is near the end of its service life, but has effectively been abandoned in place, as the restaurant is no longer in use.	Replace in the near future. Due to the change in refrigerants, the cooling coil on the furnaces will need to be replaced as well.	5D	\$ 14,000
D Services		D3040 Distribution Systems	Supply duct system.	Fair	The supply duct systems are in good shape considering the age of the system.	At most, an internal inspection of the duct and a duct cleaning every 5 years or so.	3E	\$ 500
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguishers.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		D5010 Electrical Service & Distribution	400A-3PH BC Hydro service. Wiring consists of AC90 and NMD90 cable.	Fair	Service is adequate for the facility.	Routine maintenance of circuit breakers (maintenance).	2D	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Interior, Exterior, and Emergency lighting.	Poor	Emergency lighting is minimal but has been maintained. Lighting is generally fluorescent in fair condition.	Continue annual checks of EM lighting. Upgrade general lighting to LED as fixtures fail or when funding is available (maintenance).	2D	N/A
		D5030 Communications & Security	Security alarm & fire alarm.	Fair	Minimal fire detectors installed.	Adding fire alarm devices could improve early detection of fires.	3C	N/A
		D5090 Other Electrical Systems	Branch circuit wiring.	Fair	Wiring is untidy in places but code compliant.	No Recommendation.	1D	N/A
E Equipment & Furnishings	E10 Equipment	E1090 Other Equipment	Kitchen equipment and cooler room.	Fair	Water at base of basement cooler room.	No Recommendation.	N/A	N/A
0.0%	G20 Site	G2030 Pedestrian Paving	Pavers around South-East side. 3-ply 2x6 posts at porch.	Poor	Pavers are cracked. One post rotted, not connected to grade.	Support post and add new pedestal.	3D	See B1020.
G Sitework	Improvements	G2040 Site Development	4-rail fence surrounding.	Fair	Fence in fair condition.	No Recommendation.	N/A	N/A
		G2050 Landscaping	Garden beds surrounding.	Fair	Vegetation touching cladding.	See B2010.	N/A	See B2010.

Greenhow Museum

	Building In	ıfo	Notes		Opin	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	2	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
Oth	er Names	1893 foundations built.	buildings the full project cost has been included in	Α	\$ 25,000			\$ 25,000			
Green	how House	1941 constructed.	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В	\$ 25,000			\$ 25,000			
De	scription		red.	С				\$ -			
	ame building with stone		Programs have not been included in OPC Summary.	D		\$ 19,400	\$ 1,000	\$ 20,400	The state of the s		
and concrete basen			Refer to Program Summary page at beginning of the	E				\$ -			
shingle roof. Wood			report.	F				\$ -			
windows. Stucco si	uirig.		Where scopes have been summarized into one project in the report OPC, numbers are reported in	G				\$ -			
			green.	Total	\$ 50,000	\$ 19,400	\$ 1,000	\$ 70,400			
Level 1	Level 2	Level 3					sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			Recommended Action	Priority Ranking	Probable Cost
A Cub sámusámus	A10 Foundation	A1010 Standard Foundations	Concrete foundation wall at front (South) and stone foundation wall at rear (North) elevation.	Fair		d efflorescence on interior nent stair. Efflorescence s and moving upwards.		See A1010 at Recommendation	ous materials assessment. building 1, B1020 at building 4A. on pending basement treatment and e proposal complete repair program.	4B	\$ 25,000
A Substructure		A1030 Slab on Grade	Concrete slab on grade in the basement.	Fair		Minor cracking.			See A1010.	N/A	See A1010.
	A20 Basement Construction	A2020 Basement Walls	Vapour barrier installed on the ceilings around artifact storage in basement. Wood lattice over openings in foundation/basement wall.	Fair	Wat	ter staining on vapour bar	rier.	See A1010.		N/A	See A1010.
		B1010 Floor Construction	Wood front steps. Timber posts in basement. 2x12 wood joists at 16" o/c with cross bracing. Wood stairs to basement and at second floor emergency exit.	Good	All e.	xterior stairs in poor cond	dition.	Rep	lace both exterior stairs.	4B	\$ 25,000
	B10 Superstructure	B1020 Roof Construction	2x6 wood rafters at 16" o/c. 1x10 shiplap. 8x10 beam north-south on three 8x8 columns. 18x12 concrete beam spans 8' over south foundation wall. 18x12 concrete beam on 10'8" opening on east and west walls.	Fair		No comment on condition	ì.	ı	No Recommendation.	N/A	N/A
B Shell		B2010 Exterior Walls	Pea gravel and cement stucco cladding. Walls consist of brick masonry and 2x4 stud wall at 16" o/c. Some horizontal wood, shake shingle, and board and batten.	Fair		g and previous patches in ers built into wall at forme			ion. Consider sealing cracks in stucco tial water ingress (maintenance).	N/A	N/A
	B20 Exterior Enclosure	B2020 Exterior Windows	Single pane fixed windows first floor and hung windows second floor circa 1996. All wood trim. Some stained-glass in-fill.	Good		No comment on condition	1.	Rep	air windows as required.	N/A	See Cladding Maintenance Program.
		B2030 Exterior Doors	Wood doors and trim.	Fair		No comment on conditior	١.	1	No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Asphalt shingle roof with eavestroughs and downspouts and wood fascia.	Fair	Deb	oris build up at roof overh	ang.	Clean eavestroug	hs and front roof. Roof replacement.	3C	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	Brick chimney.	Fair	Lo	ose bricks at top of chimr	ney.		No Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Wood frame partition walls.	Fair		No comment on condition	1.	1	No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood doors and frame excepting plywood doors in basement.	Good		No comment on condition	1.	ı	No Recommendation.	N/A	N/A
C Interiors	C20 Stairs	C2010 Stair Construction	Wood stairs to second floor.	Fair		No comment on condition	1.	R	epair where required.	3B	See B1010.
O III(GIIOI3	00011.5	C3010 Wall Finishes	Painted drywall on main and second floors. Unpainted drywall and VB in basement.	Good		No comment on condition	١.	1	No Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Hardwood.	Good		No comment on condition	1.	1	No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	White painted wood plank.	Fair		No comment on condition	١.		No Recommendation.	N/A	N/A

Greenhow Museum

		D2010 Plumbing Fixtures	Sink on main floor.	Good	The existing fixtures should provide good service for the near future.	Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene.	3D	\$ 2,500
		D2020 Domestic Water	Original piping systems are copper systems. Recent	Fair	The insulation is in poor condition or missing in certain locations. Non the less, the operators should look for pinhole	D2020.1 Look for pinhole leaks from time to time.	3C	\$ 100
		Distribution	upgrades have used approved plastic piping systems.	raii	leaks from time to time.	D2020.2 Consideration should be made for upgrades to the existing insulation to save energy.	1E	\$ 500
	D20 Plumbing	D2030 Sanitary Waste	Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.	Good	The sanitary drainage piping should provide good service for the near future.	System is at an age where blockages could occur, so should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at	3D	\$ 300
					The Domestic hot water heater is old (approx. 40 years since	D2090.1 The domestic water heater should be replaced soon.	4C	\$ 5,500
		D2090 Other Plumbing Systems	Domestic water heater.	Poor	manufactured) and is need of replacement. The Water heater has not been provided with a drain pan.	D2090.2 Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.	4C	\$ 500
D Services	D30 HVAC	D3010 Energy Supply	The facility has a natural gas connection and pressure regulation station.	Fair	Gas piping does not appear to have the appropriate protective coatings.	The owner will want to engage a technician to ensure the systems are configured to code.	2C	\$ 500
		D3020 Heat Generating Systems	The furnace was upgraded with sealed combustion energy efficient unit about 12 years ago.	Fair	This gas fired appliances have not been installed in a room that is fire rated.	No upgrades to the system are anticipated in the near future. Consideration should be made to build a fire rated room that would house the furnaces and domestic water heater.	2B	\$ 10,000
		D3030 Cooling Generating Systems	Cooling is provided by a single window mount air conditioning unit.	Fair	No comment on condition.	If the unit fails, replacement units are readily available and relatively inexpensive.	3E	N/A
		D3040 Distribution Systems	Supply duct system.	Fair	The supply duct systems are in good shape considering the age of the system.	At most, an internal inspection of the duct and a duct cleaning every 5 years or so.	3E	\$ 500
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguishers.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		D5010 Electrical Service & Distribution	100A-single phase BC Hydro service.	Fair	Service is adequate for facility.	Maintain circuit breakers	2D	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Mixture of fluorescent and screw base track lighting.	Fair	Lighting is in fair condition.	Upgrade general lighting to LED as fixtures fail or funding becomes available	2E	N/A
		D5030 Communications & Security	Fire exits & emergency lighting.	Fair	Minimal but acceptable level of emergency lighting and exit signage. No fire alarm system.	Continue annual checks of EM lighting.	2D	N/A
		D5090 Other Electrical Systems	Branch circuit wiring.	Fair	Mainly NMD cable.	No Recommendation.	1D	N/A
G Sitework	G20 Site Improvements	G2050 Landscaping	Garden beds at the front to around sides.	Fair	Good clearance between vegetation and side of building.	No Recommendation.	N/A	N/A

Stagecoach Depot

	Building In	fo	Notes		Opini	Opinion of Probable Cost Summary			Overview Photo		Location
Building No.	3	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
	er Names	1978 constructed.	Refer to Program Summary page at beginning of the report.	Α				\$ -			
•	s, Green Room, Stove ay Barn, Firehall Barn		Where scopes have been summarized into one	R							
·	scription		project in the report OPC, numbers are reported in	C				¢ -	Marie August 14		SA VENEZA
	amed building with		green.	D		\$ 9,400	\$ 100	\$ 9,500	A TENANT	1	
•	f. Access from two			E	-	φ 9,400	φ 100	\$ 9,500 ¢ -			Vario Vizice
	or stairs. Concrete			E	-			¢ -			
oundation wall follo	· ·			G				\$ - \$ -			
board and batten wi doors.	th wood windows and			Total	\$ -	\$ 9,400	\$ 100	\$ 9,500			
Level 1	Level 2	Level 3		Total	1 *		sessment	Ψ 0,000			
Major Group	Group Elements	Individual Elements	Building Component	Condition		Comments		Re	commended Action	Priority	Probable Cost
Elements								Continu	o manitaring for changes	Ranking	
	A10 Foundation	A1010 Standard Foundations	Concrete foundation/retaining wall sloped with grade.	Fair		Minor cracking.			e monitoring for changes.	N/A	N/A
A Substructure	400 P	A1030 Slab on Grade	Upper patio is slab on grade.	Fair Some organic growth and minor cracking.		N	o Recommendation.	N/A	N/A		
	A20 Basement Construction	A2020 Basement Walls	See A1010.			See A1010.			See A1010.	N/A	See A1010.
	B10 Superstructure	B1010 Floor Construction	Concrete slab on grade and wood framed.	Fair	1	No comment on condition	١.	N	o Recommendation.	N/A	N/A
	B to ouperstructure	B1020 Roof Construction	Hip roof. Wood framed.	Fair	1	No comment on condition	١.	N	o Recommendation.	N/A	N/A
		B2010 Exterior Walls	Board and batten cladding with horizontal wood cladding on gable ends.	Fair	Cladding	stained at base up to ha	If height.		Repair cladding.	3D	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame fixed windows.	Fair	ľ	No comment on condition	١.	N	o Recommendation.	N/A	N/A
p queii		B2030 Exterior Doors	Wood barn door at South. Else door and wood frame.	Fair	1	No comment on condition	1.	N	o Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and	Poor	Shingles curling or missing and organic growth. Facia and			Immediate	roof repairs to address leak.	5C	See Roof Replacement and Maintenance Programs.
	J	.	downspouts and wood fascia.		soffit have organic growth.				Replace Roof.	4C	See Roof Replacement and Maintenance Programs.
	C10 Interior Construction	C1010 Partitions	Wood framed partitions.	Fair	1	No comment on condition	١.	N	o Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Painted drywall.	Fair	1	No comment on condition	١.	N	o Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Mix of plywood and vinyl tile.	Fair	1	No comment on condition	١.	N	o Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Mix of painted plywood and acoustic tiles.	Fair	Water s	taining at Stove Museum	ceiling.		See B3010.	N/A	See B3010.
		D2010 Plumbing Fixtures	Lavatories, Urinal, Shower and water closets	Good		v and well appointed. The vide good service for the	-		uld be made to provide hot water to rooms for improved hand washing hygiene.	3D	\$ 2,500
		D2020 Domestic Water	Original piping systems are copper systems. Recent			is in poor condition or m		D2020.1 Look fo	or pinhole leaks from time to time.	3C	\$ 100
		Distribution	upgrades have used approved plastic piping systems.	Fair		omestic water piping sho service for the near future			tion should be made for upgrades to g insulation to save energy.	1E	\$ 500
D Services	D20 Plumbing	D2030 Sanitary Waste	Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.	Fair	The sanitary drain	age piping should provid the near future.	e good service for	Blockages could cleaned from time completed for the I	to time. Repairs if needed could be ocation at hand. There is no need for ing upgrades in the near future.	3D	\$ 300
					The hot water tank	is approximately ¾ thro	ugh the service life.		sstic water heater should be replaced soon.	4C	\$ 5,500
		D2090 Other Plumbing Systems The Domestic hot water heater was manufactured in 2006.		Poor	The hot water tank is approximately ¾ through This gas fired appliances has not been installed is fire rated.		-	water heater with a	ation should be made to provide the drain pan to catch and direct the water em, in the event of a leak in the tank.	4C	\$ 500

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Stagecoach Depot

		D3010 Energy Supply	The facility has a natural gas connection and pressure regulation station.	Good	The system should provide good service for the near future.	No Recommendation.	1D	N/A
	D30 HVAC	D3020 Heat Generating Systems	Most areas are unheated. Occupied areas use baseboard electric heaters.	Good	No comment on condition.	No Recommendation.	N/A	N/A
D Services		D3030 Cooling Generating Systems	Cooling is provided by a single window mount air conditioning unit.	Fair	No comment on condition.	If the unit fails, replacement units are readily available and relatively inexpensive.	3E	N/A
D Services	D40 Fire Protection D4030 Fire Protection Specialties Fire extinguisher. Fair		No comment on condition.	No Recommendation.	N/A	N/A		
	DE0 E1 1 1 1	D5010 Electrical Service & Distribution	Newer 200A single phase BC Hydro service and panel.	Good	Panel in good condition.	Old meter base on west side of building to be removed	5D	\$ 500
	D50 Electrical	D5020 Lighting and Branch Wiring	Exterior, interior, and emergency lighting.	Fair	Newer LED lighting in washrooms, fluorescent and screw base track in other areas.	Upgrade general lighting to LED as fixtures fail or funding becomes available	2E	N/A
		G2010 Roads	Dirt road at North elevation.	Fair	Road in fair condition.	No Recommendation.	N/A	N/A
G Sitework	G20 Site Improvements	G2030 Pedestrian Paving	Rock stairs with metal railing on East side. Exterior wood stair and ramp provide access to Stove Museum and Green Room.	Fair	Organic growth on wood ramp and platform. Some water staining at the base of posts.	Clean stairs (maintenance).	N/A	N/A

O'Keefe House

Building Info			Notes		Opinion of Probable Cost Summary				Overview Photo		Location
Building No.	4A	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	1886 built.	buildings the full project cost has been included in	Α		\$ 25,000		\$ 25,000			AFOR LONG
O'Keef	fe Mansion	1896 Log House removed,	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В	\$ 5,000	\$ 20,000		\$ 25,000	8		
Des	scription	addition added, roofline altered. 1900 single storey addition.	red.	С			\$ 14,000	\$ 14,000	- 112		
Two-storey wood bu	uilding with attic and	1910 central hot water heating	Programs have not been included in OPC Summary.	D		\$ 10,000	\$ 2,000	\$ 12,000		.,	No service of the ser
mixed concrete and		and hardwood flooring.	Refer to Program Summary page at beginning of the	E				\$ -			
Stucco cladding ove	r original and wood vith decorative shutters.	1989 most recent roof	report.	F				\$ -		4 33	
	around porch. Cedar	replacement.	Where scopes have been summarized into one project in the report OPC, numbers are reported in	G		\$ 5,000		\$ 5,000			
shake roof.	around porom occur	1994 stucco reclad.	green.	Total	\$ 5,000	\$ 55,000	\$ 16,000	\$ 81,000			
Level 1	Level 2	Level 3				Ass	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Re	commended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone foundation wall and clay brick masonry columns. Two 2'x2' concrete pillars. Wood trellis above grade.	Poor	deteriorated. Stone walls in good condition				v support and repair brick foundation columns. dings 20 & 34, A1030 at building 11.	3В	\$ 25,000
	A20 Basement Construction	A2020 Basement Walls	Basement below kitchen and crawlspace below rest of building. See A1010 for construction.	Fair	See A1010.				See A1010.	N/A	N/A
		B1010 Floor Construction	Wood framed. Fair Floor deflecting in bathroom.			ructural assessment. 020 at buildings 11 & 35.	3B	\$ 10,000			
	B10 Superstructure	B1020 Roof Construction	Wood truss with collar ties. Partially finished attic.	Poor	Ceilings deflecting	Ceilings deflecting in bathroom and small dining room. Animal droppings in attic.			ous Materials Assessment. 1010 at buildings 1 & 2. B1010 for deflection.	3B	\$ 10,000
		B2010 Exterior Walls	Stucco over original siding. Wood framed.	Good	1	No comment on condition		N	o Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Fixed wood framed windows.	Fair	Shutters deterior	Shutters deteriorating. Protective films on windows poorly applied.			shutters. Replace protective films.	3E	See Window and Door Program.
		B2030 Exterior Doors	Wood doors and trim.	Fair	1	No comment on condition		N	o Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and downspouts and wood fascia.	Poor	Downsp	Normal aging, some organic growth. Eavestroughs leak. Downspouts discharge close to building.			Replace roof.	3C	See Roof Replacement and Maintenance Programs.
	B30 Roolling	B3020 Roof Openings	Brick chimneys (2).	Poor		l at top. South chimney is nd is currently supported	-		on or support leaning chimney. B3020 at building 18.	4B	\$ 5,000
	C10 Interior	C1010 Partitions	Wood framed stud walls.	Good	١	No comment on condition		N	o Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood and wood framed.	Good	1	No comment on condition		N	o Recommendation.	N/A	N/A
		C1030 Fittings	Wood handrail in second floor hall.	Good	١	No comment on condition	•	N	o Recommendation.	N/A	N/A
	C20 Stairs	C2010 Stair Construction	Wood stair with wood handrail (3) between all levels.	Fair	Stair to attic is ve	ery steep and handrail is r	ot fully attached.	Reattac	h handrail (maintenance).	N/A	N/A
C Interiors	020 Stairs	C2020 Stair Finishes	Carpet finish on stair to second floor. Membrane taped over stair to attic.	Fair	Finish is	chipping on second floor	handrail.	Paint	handrail (maintenance).	N/A	N/A
		C3010 Wall Finishes	Mixture of wallpaper, painted plaster, wainscotting, and tile.	Fair		Cracking in sewing room.		•	or replace plaster and lath. C3010 at building 34.	2E	\$ 14,000
	C30 Interior Finishes	C3020 Floor Finishes	Mix of hardwood and carpet, and wood plank in attic.	Good	1	No comment on condition		N	o Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Plaster and lath.	Poor		vhere, water staining in go room, and small dining ro		Repair o	or replace plaster and lath.	2E	See C3010.
D Services	D20 Plumbing	D2010 Plumbing Fixtures	The plumbing fixtures for the historic part of the mansion are of course old.	Fair	The existing fixture	es should provide good so future.	ervice for the near	N	o Recommendation.	2E	N/A
D Services	DZU FIUITIDITIS	D2020 Domestic Water Distribution	The piping systems in the historic part of the mansion are not in use.	Fair	1	No comment on condition		N	o Recommendation.	N/A	N/A

O'Keefe House

		D3010 Energy Supply	The facility has a natural gas connection and pressure regulation station.	Good	The system should provide good service for the near future.	No Recommendation.	1D	N/A
	D30 HVAC	D3020 Heat Generating Systems	The hot water heating systems for the historical portion of the building is served by a modern sealed combustion condensing boiler manufactured in 2013. The boiler is approximately ½ through its service life.	Fair	This gas fired appliances have not been installed in a room that is fire rated.	No upgrades to the system are anticipated in the near future. Consideration should be made to build a fire rated room that would house the boiler.	2B	\$ 10,000
		D3030 Cooling Generating Systems	Cooling is provided by a single Rheem five-ton cooling capacity condensing unit. The unit was manufactured in 2016.	Fair	The unit is 1/3 through its service life and should provide good service for the near future. If the outdoor cooling unit is replaced, the indoor cooling coil will need to be replaced to match the outdoor unit.	No Recommendation.	2D	N/A
D Services		D3040 Distribution Systems	Steel uninsulated piping is used for the hydronic heating systems.	Fair	If the hot water heating systems gets above 140°F, the bare pipe can scald bare skin in seconds. It appears that these systems are well barricaded from the public, to avoid an inadvertent incident. The system should provide good service for the near future.	Care should continue to be made to keep the public from touching the heating piping and terminal units while the systems are hot.	1D	N/A
		D3050 Terminal & Package Units	D3050 Terminal & Package Units		It is hard to determine the life expectancy of these older system, but they seem to be built to last as there are lots of facilities that utilize them.	Deal with failing systems as they occur.	1C	N/A
	D40 Fire Protection	D4090 Other Fire Protection Systems	on Smoke alarm and some heat detectors.		Some fire alarm heat detectors but no bells or pull stations. Fire alarm panel was not located	Fire alarm system could be upgraded but would provide little additional benefit in the absence of fire sprinklers.	2D	N/A
		D5010 Electrical Service & Distribution	200A single phase BC Hydro service. 60A sub panel adjacent.	Fair	Service is adequate.	Maintain circuit breakers.	2D	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Mainly residential style screw base fixtures	Fair	Lighting is in fair condition.	Ensure LED lamps are used.	2D	N/A
	D50 Electrical	D5030 Communications & Security	Communications in entry of basement.	Fair	Communications wiring in basement is messy	Clean up wiring.	2D	\$ 1,000
		D5090 Other Electrical Systems	Branch circuit wiring.	Fair	Wiring in basement is messy.	Clean up wiring.	2D	\$ 1,000
		G2010 Roads	Circular driveway at front.	Fair	Lateral and alligator cracking found throughout. Pot holes developing. Parking line paint has worn off.	Repair potholes and slope surface to drainage.		See Road Maintenance Program.
G Sitework	G20 Site Improvements	G2030 Pedestrian Paving	Wrap around wood front porch with steps.	Fair	Wood is rotting at edges of front porch. Nowhere for water to drain.	Repair porch and add scuppers. See A2020 at building 4B.	3B	\$ 5,000
		G2050 Landscaping	Garden beds around front porch.	Fair	Vegetation is restricting air flow around the building.	Landscape to provide 4" clearance between cladding and vegetation.	3D	See Landscaping Program.

Caretaker's House

	Building In	fo	Notes		Opinion of Probable Cost Summary Overview Photo								Location
Building No.	4B	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate F	Priority	Low Priori	ty	Total		7	
Othe	r Names	1886 built.	buildings the full project cost has been included in	Α		\$	5,000		\$	5,000	A. s	4	
	n/a	1000 Log 110000 101110 Vou,	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В					\$	-	The state of the s		
Desc	cription	1900 single storey addition.	red.	С					\$	-	A STATE OF THE PARTY OF THE PAR		
	n to the O'Keefe House	1910 central hot water heating	Programs have not been included in OPC Summary.	D		\$	17,600		\$	17,600	A SHARE WAS AND A SHARE WAS AND ASSESSMENT OF THE PARTY O	1	
	nent. Wood framed with	and hardwood flooring.	Refer to Program Summary page at beginning of the	E					\$	-	The second second		
stone veneer claddin	_	1989 mosr recent roof	report.	F					\$	_			
windows and doors.	Cedar snake root.	replacment.	Where scopes have been summarized into one project in the report OPC, numbers are reported in	G	\$ 8,000				\$	8,000			
		1994 stucco reclad. 1997 porch repaired	green	Total	\$ -	\$	22,600	\$	- \$	30,600			
Level 1	Level 2	Level 3	groom		,	•		sessment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments			Re	commended Action	Priority Ranking	Probable Cost		
A Substructure	A10 Foundation	A1010 Standard Foundations	Concrete masonry units. Two 2'x2' concrete pillars. Wood trellis above grade. Stone pedestal footings.	Poor	Parging is mostly gone. Brick has freeze/thaw damage. Trellis deteriorated. Stone walls in good condition.			ellis	See A10	10 on O'Keefe House sheet.	3B	N/A	
	A20 Basement Construction	A2020 Basement Walls	CMU basement wall.	Fair	Water damage in corner of CMU wall.				CMU wall and add perimeter drainage. G2030 at building 4A.	3C	\$ 5,000		
	B10 Superstructure	B1010 Floor Construction	Concrete slab on grade in basement and approximately 8x8 wood center beam. Wood framed.	Fair	No comment on condition.				N	o Recommendation.	N/A	N/A	
		B1020 Roof Construction	Built-up beams.	Fair	N	lo comment or	n condition	١.		N	o Recommendation.	N/A	N/A
		B2010 Exterior Walls	Stone cladding and wood frame.	Good	No comment on condition.					N	o Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Fixed and sliding windows. Wood frame.	Fair	Windows are in aged but fair condition.				Repai	r or replace as required.	N/A	See Window and Door Program.	
		B2030 Exterior Doors	Wood and fiberglass doors. Wood frame. Glass sliding door with aluminum frame to patio.	Fair	Doors are in aged but fair condition.					N	o Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and downspouts and wood fascia.	Poor	Normal aging and organic growth. Eavestroughs leaking.				J.		Replace roof.	2C	See Roof Replacement and Maintenance Programs.
	-	B3020 Roof Openings	Box vents.	Fair	N	lo comment or	n condition	۱.		N	o Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Wood stud walls.	Good	N	lo comment or	n condition	١.		N	o Recommendation.	N/A	N/A
	C10 Interior Construction	C1020 Interior Doors	Wood doors and frames.	Good	N	lo comment or	n condition	۱.		N	o Recommendation.	N/A	N/A
	OUTSH delion	C1030 Fittings	Wrought-iron guardrail at basement stairs.	Good	N	lo comment or	n condition	١.		N	o Recommendation.	N/A	N/A
C Interiors	C20 Stairs	C2010 Stair Construction	Wood stairs with no handrail.	Fair	N	lo comment or	n condition	١.		N	o Recommendation.	N/A	N/A
		C3010 Wall Finishes	Mix of tile and painted drywall.	Fair	N	lo comment or	n condition	١.		N	o Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Mix of tile and hardwood.	Good	N	lo comment or	n condition).		N	o Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Drywall with textured finish.	Fair	N	lo comment or	n condition	۱.		N	o Recommendation.	N/A	N/A
		D2010 Plumbing Fixtures	Lavatories, Urinal, Shower and water closets for the residence appear to be recently installed.	Fair	The existing fixture	es should provi future	-	ervice for the	near	N	o Recommendation.	2E	N/A
D Services	D20 Plumbing	D2020 Domestic Water Distribution	The residence appears to have relatively recent upgrades have used approved plastic piping systems. Sanitary waste systems utilize ABS piping systems	Fair	The domestic water	nitary drainage	e piping sh	nould provide g	ood	•	tors should look for pinhole leaks from time to time.	3C	\$ 100
		Distribution	where visible. Buried piping and piping within the walls were not reviewed.		S	ervice for the r	near future).	D		ation should be made for upgrades to ng insulation to save energy.	1E	\$ 500

Caretaker's House

						D2090.1 The domestic water heater should be replaced relatively soon.	4C	\$ 5,500
	D20 Plumbing	D2090 Other Plumbing Systems	The Domestic hot water heater was installed in 2008. The hot water tank is approximately ¾ through the service life.	Fair	This gas fired appliances has not been installed in a room that is fire rated. The Water heater has not been provided with a	D2090.2 Consideration should be made to build a fire rated room that would house the domestic water heater.	2B	\$ 10,000
					drain pan.	D2090.3 Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.	4C	\$ 500
		D3010 Energy Supply	The facility has a natural gas connection and pressure regulation station.	Good	The system should provide good service for the near future.	No Recommendation.	1D	N/A
D Services	D30 HVAC	D3030 Cooling Generating Systems	Cooling is provided by a single Rheem five-ton cooling capacity condensing unit. The unit was manufactured in 2016.	Fair	The unit is 1/3 through its service life and should provide good service for the near future. If the outdoor cooling unit is replaced, the indoor cooling coil will need to be replaced to match the outdoor unit.	No Recommendation.	2D	N/A
		D3040 Distribution Systems	Cooling distribution systems	Fair	The fan and cooling coil are in fair shape considering the age of the system. The condensate is intentionally plugged and is showing signs of degradation and rust.	Consideration should be made to provide a condensate pump.	3D	\$ 1,500
	D40 Fire Protection	D4090 Other Fire Protection Systems	Smoke alarm	Fair	Smoke alarm condition is fair.	Smoke alarms should be added to all bedrooms and outside bedrooms.	1B	N/A
		D5010 Electrical Service & Distribution	Electrical panel	Fair	Located in main house. See O'Keefe House sheet.	No Recommendation.	2D	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Mainly screw base style residential fixtures	Fair	Lighting is in fair condition.	Ensure LED lamps are used.	2D	N/A
	DSO Electrical	D5030 Communications & Security	Communications entry in basement of main house.	Fair	Communications wiring in basement is messy.	Clean up wiring.	2D	N/A
		D5090 Other Electrical Systems	Branch circuit wiring. Electrical heaters.	Fair	Wiring in basement is messy.	Clean up wiring, ensure electric heaters are not blocked by clothing, furniture etc.	5D	N/A
	000 0:4-	G2010 Roads	Dirt road and driveway at rear.	Fair	Driveway is in fair condition.	No recommendation.	N/A	N/A
G Sitework	G20 Site Improvements	G2030 Pedestrian Paving	Paved patio	Fair	r Patio is in fair condition. No recommendation.			N/A
	improvements	G2040 Site Development	Wood retaining wall with ties at back of house.	Poor	Wall is heaving our at base near driveway.	Geotechnical Report.	4B	\$ 8,000

Pavilion

	Building Ir	nfo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	5	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	Conoti dottoni dato dimonini	Refer to Program Summary page at beginning of the	Α				\$ -	and the same of th	4	Mary Land
	n/a		report.	В				\$ -	SOUNDS A MANUAL SOUNDS		
Des	scription			С				\$ -			S CONTRACTOR
Wood post and bear				D				\$ -		., 1	
engineered trusses a roof. Wood half wall				E				\$ -			Van lesson
	er. Houses stage and			F				\$ -			
•	ete slab-on-grade floor.			G				\$ -			
	-			Total	\$ - \\$ - \\$ - \\$ Assessment						
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		·	Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Pressure-treated buried posts. Embedded plate steel saddle connection for posts near stage.	Fair	Water	staining at base of buried	d posts.		No Recommendation.	N/A	N/A
		B1010 Floor Construction	Concrete slab on grade.	Good	Cor	ncrete slab in good condi	tion.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Post and beam construction. Engineered trusses at 4' o/c. Plywood sheathing.	Fair		Water staining on soffit.		Add ea	evestroughs and downspouts.	4D	See Roof Maintenance Program.
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Wood plank half walls with mesh upper half. Hardie panels behind stage. Wood plank on gable end.	Good	Posts and	wood members stained a	at east side.		No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Asphalt shingle.	Good	Fascia in goo	d condition. No rainwater	r management.		No Recommendation.	N/A	N/A
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair	!	No comment on condition	n.		No Recommendation.		
		D5010 Electrical Service & Distribution	100A single phase service sub-fed from adjacent building.	Fair	Service appears adequate.		Maintain	circuit breakers (maintenance).	2D	N/A	
D Services	D50 Electrical	D5020 Lighting and Branch Wiring	Screw base residential fixtures and string lights.	Fair	Lighting is suitable for location as long as no water spraying is done.		should be conside	ps are utilized. Weatherproof fixtures ered as an upgrade. Maintain emergency ting packs (maintenance).	2D	N/A	
		D5090 Other Electrical Systems	Receptacles for event power.	Good	Receptacles are in good condition.		Maintain d	evices as required (maintenance).	2D	N/A	

Gazebo

	Building l	nfo	Notes		Opin	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	6	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			A 164 No.
Oth	er Names	1986 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -			1999
	n/a	1987 relocated to present location.	report.	В				\$ -	All Silver		
	scription	2008 reconstructed.		С				\$ -	A 4		
White painted wood	•	2000 100011011 0010011		D				\$ -		.,	
construction with a	sphalt shingle roof.			E				\$ -			Y To leave.
				F				\$ -	The said	•	e de la companya de l
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		ı	Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Wood sleeper foundations and decorative wood lattice.	Fair	Fo	oundation is in fair conditi	on.		No Recommendation.	N/A	N/A
		B1010 Floor Construction	Wood framed.	Fair		No comment on condition	า.		No Recommendation.	N/A	N/A
B Shell	B10 Superstructure	B1020 Roof Construction	White painted post and beam with wood rafters and wood plank sheathing.	Fair	3 posts wit	h checking and 1 beam w	vith cracking.	Repair posts (r	maintenance). Continue to monitor for changes.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Asphalt shingle roof and wood fascia.	Good	F	ascia deteriorated at cupo	ola.	Repair a	and paint fascia (maintenance).	3D	See Roof Maintenance Program.
C Interiors	C10 Interior Construction	C1030 Fittings	White painted wood guardrail.	Good		No comment on condition	า.		No Recommendation.	N/A	N/A
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	Grey painted plywood.	Fair		Paint peeling on floor.		Paint s	steps and floor (maintenance).	N/A	N/A
		D5010 Electrical Service & Distribution	Circuit sub-fed from Pavilion.			No comment on condition	າ.		No Recommendation.	N/A	N/A
D Services	D50 Electrical	D5020 Lighting and Branch Wiring	Screw base floodlight lamp holders.			No comment on condition	1.	Ensure led lam	ps are utilized. Replace missing lamps (maintenance).	5D	N/A
G Sitework	G20 Site Improvements	G2050 Landscaping	Landscaping around base.	Fair	Vegetati	on may deteriorate lattice	in future.	Continue monito	ring for changes and remove vegetation as required.	N/A	N/A

Pioneer Cabin

	Building Ir	nfo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	7	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
Othe	er Names	Pre-1900 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -		4	
Chicken Coo	p, Chicken House	1989 re-shingled roof, replace	report.	В				\$ -			
	scription	bottom logs. 1992 lifted onto new concrete		С				\$ -			S MONEY !
13' x 13' log cabin v	•	slab.		D				\$ -		.,	
interior. Wood fram roof. Board and batt	ned cedar shake shingle			E				\$ -			
Tool. Board and batt	en clauding.			F				\$ -			
				G				\$ -	一种是一种的	. 7	
				Total	\$ - \$ - \$ - Assessment						
Level 1	Level 2	Level 3			Assessment						
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments		R	ecommended Action	Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1030 Slab on Grade	Standard slab on grade circa 1992.	Good	Concrete	e slab in generally good o	ondition.		No recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	See A1030.	Good		See A1030.			No Recommendation.	N/A	N/A
	B 10 Superstructure	B1020 Roof Construction	Wood rafters.	Fair		cture was not accessible			No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Split log w/ chinking and V-notched corners. Board and batten cladding.	Poor	Cladding touching	g grade and failing on sou failing.	th walls. Chinking	Re	pair or replace cladding.	4C	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Single pane fixed windows with wood trim.	Fair	One window bo	parded over and one with	mesh covering.		No Recommendation.	N/A	N/A
		B2030 Exterior Doors	Wood doors and trim.	Fair		Doors aged but functiona	l.		No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and downspouts and wood fascia.	Poor	Roof in fair to po	or condition with organic varying condition.	growth. Fascia in	Clear debris fror	n roof and cut back overhanging tree. Replace roof.	3C	See Roof Replacement and Maintenance Programs.
	B30 Roolling	B3020 Roof Openings	Reports of a square hole for smoke ventilation.	Fair	Square hole not visible at the time of the review. No comment on condition.			No Recommendation.	N/A	N/A	
C Interiors	C30 Interior Finishes	C3010 Wall Finishes	White paint.	Poor	Paint is chipping and peeling.		F	Repaint (maintenance).	N/A	N/A	
o interiors	000 interior rimsiles	C3030 Ceiling Finishes	White painted 1x4 tongue and groove.	Fair		No comment on condition	1.	F	Repaint (maintenance).	N/A	N/A
G Sitework	G20 Site	G2040 Site Development	3-rail fence with wire mesh.	Good	ı	Fence is in good condition	۱.	Rep	air or replace as required.	N/A	See Fence Program.
O OILEWOIK	Improvements	G2050 Landscaping	Grass and animal pens surrounding.			No comment on condition	1.		No Recommendation.	N/A	N/A

Cowboy Bunkhouse

	Building In	fo	Notes		Opin	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	8	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	THE PARTY OF THE P	7	
Othe	er Names	1941 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -			
Ford	d House	1980s modified.	report.	В				\$ -			
Des	cription			С				\$ -			
•	-storey structure with			D				\$ -	FINA	.,	
wood siding. Concre Cedar shake roof. W				E				\$ -			Van lesson
elevation. Wood fran	· ·			F				\$ -		+	
doors.				G				\$ -			
				Total	\$ -	\$ -	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone and concrete foundation with openings for air circulation.	Poor		Spalling.		Con	tinue monitoring for changes.	N/A	N/A
		B1010 Floor Construction	Wood rafters.	Fair		No comment on condition	١.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	2x4 wood joists at 24" o/c with 1x8 strapping.	Fair		No comment on condition	١.		No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Wood horizontal cladding. 2x4 wood framing at 16" o/c.	Poor	Previous tempo	orary patches with mesh a boards.	and some rotted	Upgrade	patches to metal or repair cladding.	3E	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Mix of hung and fixed windows. Wood frame.	Poor		Poor seals and aged trim			Repair and paint.	4D	See Window and Door Program.
		B2030 Exterior Doors	Painted wood doors and wood trim. Some glass panes.	Poor	Some orga	nic growth on trims and p	aint peeling.		Repair and paint.	4D	See Window and Door Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs and downspouts and wood fascia.	Poor		Organic growth.			Replace roof.	4C	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	Brick chimney and metal exhaust ventilation.	Fair	New metal fla	ashing on chimney. Some	efflorescence.		No Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Wood framed.	Fair		No comment on condition	1.		No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood door and frame	Fair		No comment on condition	1.		No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Mix of rough cedar planks and drywall.	Good		No comment on condition	۱.		No Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Wood plank.	Fair		No comment on condition	1.		No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	1" wood planks of random width covered by drywall.	Good		No comment on condition	١.		No Recommendation.	N/A	N/A
D Services	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair		No comment on condition	١.		No Recommendation.	N/A	N/A
0.00	G20 Site	G2030 Pedestrian Paving	Wood ramp to north-east door and wood steps with awning to south-east door.	Fair		Awning leaning North.			No Recommendation.	N/A	N/A
G Sitework	Improvements	G2040 Site Development	Horse tie-up.	Good		No comment on condition	1.		No Recommendation.	N/A	N/A
		G2050 Landscaping	Flower beds at south-east entrance.	Good		No comment on condition	١.		No Recommendation.	N/A	N/A

Bird Pens

	Building Info ling No. 9 History		Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	9	History	n/a	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	Construction date unknown		Α				\$ -			The LOW
	n/a			В				\$ -			
	scription			С				\$ -			
-	st structure and chicken			D				\$ -		N. S.	
wire fence with tin ro	001.			E				\$ -			
				F				\$ -		Y	
				G				\$ -	State of the state		
				Total	\$ -	\$ -	-			***************************************	
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Buried wood posts.	Good	Posts at hig	h risk for rot. Water stail	ning at base.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Soil.		1	lo comment on condition	า.		No Recommendation.	N/A	N/A
	b to Superstructure	B1020 Roof Construction	2x6 rafters. Post and beam construction.	Good	١	lo comment on condition	า.		No Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Wire mesh over wood frame and wood plank half wall at south.	Good	١	No comment on condition	٦.	No Recommendation.		N/A	N/A
		B2030 Exterior Doors	Wood frame and wire mesh.	Good	1	lo comment on condition	า.		No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof.	Good		Overhang is appropriate			No Recommendation.	N/A	N/A
G Sitework	G20 Site	G2040 Site Development	5-rail fence surrounding.	Good	1	lo comment on condition	า.		No Recommendation.	N/A	N/A
G GILEWOIK	Improvements	G2050 Landscaping	Grass and animal pens surrounding.		١	lo comment on condition	ı.		No Recommendation.	N/A	N/A

Windmill #1

	Building In	nfo	Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	10	History	n/a	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	r Names	1896 constructed.		Α				\$ -	a.		
	n/a			В				\$ -	T.		
	cription			С				\$ -	All I		TOWN !
	me wind mill installed			D				\$ -		**	
on a wood platform. connected to a deco				E				\$ -			V 12 2
connected to a deco	mmissioned well.			F				\$ -		+	
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Wood platform sleeper.	Fair	Woo	d is in direct contact with	is in direct contact with soil. Monitor a		d repair foundations as required.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Galvanized steel frame with bolted connections.	Good	Connection	ons show minor sings of	corrosion.	No Recommendation.		N/A	N/A

Location

Overview Photo

Historic O'Keefe Ranch

Building Info

Notes

Log Barn

Building No.	11	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	\$ 25,000 \$ 10,000		Total		7	
Othe	er Names	1890 constructed circa.	buildings the full project cost has been included in each sheet and has not been split by building.	Α		\$ 25,000		\$ 25,000			
	n/a	1989 rebuilt.	Numbers affected by these "duplicate" costs are in	В		\$ 10,000		\$ 10,000			
	Votes		red.	С				\$ -			
· ·	accessed from exterior.		Programs have not been included in OPC Summary.	D				\$ -		14	(Carried)
Stone pedestal foundations	dation. Lean-tos on ock or storage. Wood		Refer to Program Summary page at beginning of the	E				\$ -			Y 0 12 20/
	roof. Loft used for hay		report.	F				\$ -			
storage.	,			G				\$ -			
				Total	\$ -	\$ 35,000	\$ -	\$ 35,000			
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Ro	ecommended Action	Priority Ranking	Probable Cost
A Ob - 4 4	A40 Farm dation	A1020 Special Foundations	Stone pedestals and grade beams. Buried post for West elevation lean-to.	Good	Four	ndations are in good cond	lition.	1	No Recommendation.	N/A	N/A
A Substructure	A10 Foundation	A1030 Slab on Grade	Concrete slab on grade for East elevation lean-to.	Fair	No f	fill under the slab at South	n end.		dd fill to support slab. 110 at buildings 4A, 20 & 34.	3D	\$ 25,000
		B1010 Floor Construction	2x8 wood stringers on center beam.	Fair		No comment on condition	٦.	1	No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Rough cut 2x4 trusses w collar ties and 1"x6" strapping. Approximately 8-10 inch diameter pole beams. Some 2x4 posts. Lean-tos are post and beam	Fair	•	underside of wood plank loft deflects under humar	•	B10	20. 1 Roof replacement.	3C	See Roof Replacement and Maintenance Program.
B Shell			construction. West elevation lean-to has diagonal bracing.			hay fort deflects under human load.			ructural assessment of hay loft. building 4A, B1020 at building 35.	3C	\$ 10,000
b onen	DOO Futuring Fundament	B2010 Exterior Walls	Broad axed log with chinking. Vertical and horizontal 1" wood planks on gable ends. Mesh on east lean-to.	Fair	Some planks	are loose. Chinking is dry	and cracking.	Replace lo	ose boards and repair chinking.	2D	See Cladding Program.
	B20 Exterior Enclosure	B2020 Exterior Windows	Wood fame with wire mesh.	Good		No comment on condition	٦.	1	No Recommendation.	N/A	N/A
		B2030 Exterior Doors	Wood doors and frames. Barn door at South elevation.	Good		No comment on condition	۱.	1	No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingles roof with eavestroughs, downspouts and wood fascia.	Poor		f is aged and has organic Corrugated metal roofs ha corrosion.			See B2010.	N/A	N/A
01.4	C10 Interior Construction	C1010 Partitions	Wood frame and wire mesh.	Fair		No comment on condition	۱.	١	No Recommendation.	N/A	N/A
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	Shiplap floors.	Fair		No comment on condition	າ.	١	No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	1" planking.	Fair		No comment on condition	າ.	1	No Recommendation.	N/A	N/A
		D5010 Electrical Service & Distribution	60A single phase panel sub-fed underground from another building	Fair		Service is adequate.		Maintain d	ircuit breakers (maintenance).	2D	N/A
D Services	D50 Electrical	D5020 Lighting and Branch Wiring	Lighting is generally screw based lamp holders. Wiring is NMWU cable.	Fair	A lot of extension	cords have been used in style.	a semi-permanent		s are utilized. Replace extension cords wiring where required (maintenance).	2D	N/A
G Sitework	G20 Site	G2040 Site Development	Concrete retaining wall at North.	Fair	Wood portion	on of retaining wall heavir	ng out at top.	Contin	ue to monitor for changes.	N/A	N/A
	Improvements	G2050 Landscaping	Animal pens surrounding.	Fair		No comment on condition	1.	1	No Recommendation.	N/A	N/A

Opinion of Probable Cost Summary

Hay	Sh	ec
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	Building In	fo	Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	12	History Construction date unknown.	Programs have not been included in OPC Summary. Refer to Program Summary page at beginning of the	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	construction date differential.	report.	В	\$ 25,000			\$ 25,000	9		
Des	scription			С				\$ -		7	
	with tin roof. Used for			D				\$ -		1	() September 1
hay storage.				E				\$ -			Y
				F G				\$ -			
				Total	\$ 25,000	\$ -	\$ -	\$ 25,000			
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Concrete foundation and wall with concrete buttresses.	Fair		Condition was not visible).		Refer to B2010	3A	
	B40.0	B1010 Floor Construction	Soil		١	No comment on condition	า.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Stick built trusses with collar ties.	Good	١	No comment on condition	1.		No Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Reinforced buttressed concrete. Tire retaining wall at North.	Poor		te due to freeze/thaw at es spalled. Exposed rebassurface corrosion.		Structural review	and concrete repair or decommission.	ЗА	\$ 25,000
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof.	Fair		Minor surface corrosion			Roof replacement.	1C	See Roof Replacement and Maintenance Programs.
G Sitework	G20 Site	G2040 Site Development	3-rail wood fence surrounding with metal gate.	Good	Fence and gate are	in generally good condit	ion.		No Recommendation.	N/A	N/A
- O OILCWOIR	Improvements	G2050 Landscaping	Built into hill. Grade sloped along East and West walls.		N	No comment on condition	າ.		No Recommendation.	N/A	N/A

Ye Ol' Feed Shed

	Building Inf	fo	Notes		Opin	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	13	History	Programs have not been included in OPC Summary. Refer to Program Summary page at beginning of the	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7/	
Othe	r Names	Construction date unknown.	report.	Α				\$ -			The Later of the l
	n/a			В				\$ -			
	cription			С				\$ -		7	
Small wood framed	•			D	\$		\$ -				
wood sled foundatio shingle roof.	n with cedar shake			E	\$		\$ -				
Shirigic 1001.				F	\$		\$ -		Y		
				G	\$		\$ -				
				Total	\$ - \$ - \$						
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		1	Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Wood skid foundation.	Fair	Foundat	tion is in generally good o	condition.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Wood frame.	Fair		No access to review.			No Recommendation.	N/A	N/A
	B to Superstructure	B1020 Roof Construction	Wood frame. With 2x4 trusses.	Fair		No comment on condition	ո.		No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Wood frame. Vertical wood plank cladding.	Poor	Some boa	ards are loose or broken a	at the base.	Replac	ce the loose or broken boards.	3E	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame with no glass. Sliding wood shutter.	Fair		No comment on condition	1.		No Recommendation.	N/A	N/A
		B2030 Exterior Doors	Wood door and trim.	Poor	Wood is splitting, some ad hoc repairs.		F	Restain and replace door.	2E	See Window and Door Program.	
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Fair	Debris from tree. Fascia deteriorated from woodpeckers and rot. Has been previously replaced.		Remo	ove debris and replace fascia.	10	See Roof Maintenance Program.	
	G20 Site	G2040 Site Development	Decommissioned light pole adjacent.		No comment on condition.			No Recommendation.	N/A	N/A	
G Sitework	Improvements	G2050 Landscaping	Tree adjacent.		Debris on roof from tree.			Clear debris.	N/A	See Roof Maintenance Program.	

Meat and Dairy Building

	Building In	fo	Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	14	History	Programs have not been included in OPC Summary. Refer to Program Summary page at beginning of the	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
Othe	er Names	1890 constructed.	report.	A	\$ 20,000			\$ 20,000	- 1		
	n/a	1920s addition.	Where scopes have been summarized into one	В	\$ 7,000			\$ 7,000	de all Audit		
	Notes	1987 CMU support wall added. 1989 re-roofed.	project in the report OPC, numbers are reported in green.	С				\$ -			S YOUNG
Composed of three West: B1 = Dairy Bu	buildings. From East to	1960s garage added.	groon.	D			\$ 2,000	\$ 2,000		1	
Addition, B3 = Garage				E				\$ -	这些企业 的重要。		Yan in the second
wood frame, some (CMU and masonry.			F				\$ -			
Some sloped cedar flat roof. Wood wind	shake roof and some			G				\$ -			
				Total	\$ 27,000	\$ -	\$ 2,000	\$ 29,000			
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	B1: Clay brick foundation wall at South and West and CMU wall at North and East. New CMU wall at West. B2: Stone foundation with no mortar. B3: Slab on grade with footings.	Poor	cracking, spalling, and paint peeling at rotted floor joist	the clay masonry wall mo and heaved in. At the So were noted. At the East o above. Parging has spa h a portion of the wall is	outh spalled bricks oncrete is missing Iling at the East. At	Support and repair	B1 North and East wall and associated areas in B2.	5B	\$ 20,000
		B1010 Floor Construction	B1: Concrete slab on grade (not original). B2: Wood joists. B3: Concrete slab on grade.	Poor	<u>B2</u> : W	ood joists rotted on mair	floor.	Replace o	leteriorated joists. See A1010.	5B	See A1010.
	B10 Superstructure	B1020 Roof Construction	B1: 2x8 joists on center beam. New post and beam in the center of the room. B2: Wood frame joists. B3: 1 3/4"x6" joists at 16" o/c span 19'6". New steel post in the center of the room.	Poor	<u>B2</u> : Joists cut of <u>B3</u> : Deflection at r	1: Beam and joists saggir during install of the coole cantilevered. nidspan of joists held up wave deflection pattern.	r room are now		view and provide additional support. king to end of cantilevered joists.	4B	\$ 7,000
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	B1: White painted horizontal wood siding. 2x4 wood studs at 2' o/c. B2: Tin cladding on double layer of 1" plank. Wood frame. B3: CMU walls with board and batten cladding.	Fair		North wall mostly buried <u>B1</u> : Paint chipping. ding missing at bottom o		Re	pair and paint cladding.	3D	See Cladding Program.
		B2020 Exterior Windows	B1: Fixed wood frame windows at South. Openings just below grade at North. B3: Fixed wood frame.	Fair		Paint chipping at trims.			Repair and paint.	3D	See Window and Door Program.
		B2030 Exterior Doors	<u>B1/B2</u> : Wood door. <u>B3</u> : Plywood barn door.	Fair	<u>B</u>	1: Door trim deteriorating	g.		Repair and paint.	3D	See Window and Door Program.
	D00 D . "	D0040 D (O	B1/B2: Cedar shake single roof with wood fascia.	Fair	В	1/B2: Some loose shingle	es.		Replace B1/B2 roof.	3C	See Roof Replacement and Maintenance Program.
	B30 Roofing	B3010 Roof Coverings	B3: Built up roof with one scupper and downspout.	Fair	<u>B3</u> :	Organic growth and pond	ling.	Replace I	33 roof and improve drainage.	4C	See Roof Replacement and Maintenance Program.

Historic O'Keefe Ranch

Meat and Dairy Ruilding

January 10, 2024

ivical allu L	Dairy Building							
	C10 Interior	C1010 Partitions	<u>B2</u> : Wood frame.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	<u>B2</u> : Wood door and trim.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	<u>B1</u> : N/A B2: Wood plank. B3: Plywood at West, else none.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	<u>B2</u> : Wood plank.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	B1: White painted 1x12 planks. B2: White painted 1x8 tongue and groove. B3: Wood plank.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		D5010 Electrical Service & Distribution	Circuit fed from mansion overhead.	Poor	Disconnect switch is very old.	Replace disconnect switches.	3D	\$ 2,000
D Services	D50 Electrical	D5020 Lighting and Branch Wiring	Interior lighting.	Fair	Fluorescent and screw base lamp holders.	Ensure LED lamps are utilized. Replace missing lamps (maintenance).	2D	N/A
G Sitework	G20 Site	G2030 Pedestrian Paving	Concrete pavers along front. Concrete steps to B1 and B2 front entrances. Steel rail and caps at stair to B2.	Fair	Previous patch repairs at pavers. Stairs to B1 significantly eroded.	Repair concrete stairs to B1.	3B	See A1010.
	Improvements	G2040 Site Development	Decommissioned light pole adjacent.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		G2050 Landscaping	Tree adjacent.		No comment on condition.	No Recommendation.	N/A	N/A

Chinese Cook's House

	Building In	fo	Notes		Opin	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	15	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
Othe	r Names	1910s constructed.	Refer to Program Summary page at beginning of the	Α				\$ -	1/2/15		TO THE
Chinese	Bunkhouse		report.	В				\$ -			
Des	cription			С				\$ -			STATE OF THE STATE
	single-storey, single-			D				\$ -		1	N TO SERVICE OF THE S
•	edar shake roof and			E				\$ -			
cladding. Wood frandoors. Rock faced co				F				\$ -			
doors. Nock laced of	onorete ioundation.			G				\$ -			
				Total	\$ -	\$ -	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments				Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Rock faced concrete footing.	Fair	Fo	oundation is in fair conditi	ion.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Wood frame.	Fair	Floor	r is overhung of the found	dation.		No Recommendation.	N/A	N/A
	·	B1020 Roof Construction	2x6 rafters at 2' o/c.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Wood shake siding painted white on three sides. 2"x2" horizontal strapping.	Poor	Shin	gles split, curling, and mi	ssing.	R	epair deteriorated cladding.	4C	See Cladding Programs.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame hung windows.	Poor	No se	eals. Sills and trim deterio	orating.	F	depair and paint. Add seals.	4D	See Window and Door Program.
		B2030 Exterior Doors	Wood door and frame with glass panes.	Poor	S	Seals and trim deteriorating	ng.		Repair and paint trim.	4D	See Window and Door Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Shingl	es curling. Fascia paint c	hipping.	Roof	replacement and maintenance.	4C	See Roof Replacement and Maintenance Programs.
		C3010 Wall Finishes	Painted 1"x3" tongue and groove.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	Painted 1"x3" tongue and groove.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	1"x3" tongue and groove.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
G Sitework	G20 Site Improvements	G2040 Site Development	Wood stairs with steel stringer and handrail.	Fair	Paint on treads is chipping and surface corrosion on stringer. Nailed into cladding at top of stairs.		Pro	ovide support at top of stairs.	3B	See Cladding Program.	

Log House

Build	ding Info	History	Notes		Opinio	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	16	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	MACRITURE TO THE TAXABLE PARTY.		1/40
Othe	er Names	TOTO CONTOUR GOLOGI.	buildings the full project cost has been included in	Α				\$ -			
Log Cabin, Orig	ginal O'Keefe House	1000 moved to carront location	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В		\$ 5,000		\$ 5,000			
N	Notes	1965-1967 restored: new concrete footing, replace sashes	red.	С				\$ -			
Two-storey wood fra	•	and doors, fireplace constructed.	Programs have not been included in OPC Summary.	D				\$ -		1	
	d wood siding. Cedar	1978 re-roofed, new stairs.	Refer to Program Summary page at beginning of the	E				\$ -	An II		V 💢
_	Tin-roofed lean-to off ood frame windows and	1989 lean-to re-roofed.	report.	F				\$ -		4 (3)	
doors.	ood frame windows and			G				\$ -	unite.		
				Total	\$ -	\$ 5,000	\$ -	\$ 5,000	THE STATE OF THE S		
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Rec	ommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone foundation.	Fair	No si	gns of distress where v	sible.	No	Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Wood joists.	Fair		Stained where buried			e 4" clearance between cladding and on. Monitor for leaking.	3D	See Landscaping Program.
		B1020 Roof Construction	Wood joists.	Fair	N	lo comment on conditio	n.	No	Recommendation.	N/A	N/A
		B2010 Exterior Walls	Split log construction (whip-sawn ponderosa pine). Horizontal wood siding and wood cap on corners.	Poor		th localized metal patche ne south east corner. Wo of cladding.		Repair c	corner trim. See B1010.	3E	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Hung and fixed wood frame windows. Metal bars over some windows.	Poor	Poor seals. Water	r staining around dorm v flashing.	vindows with new	Repair and p	paint trim and replace seals.	5D	See Window and Door Program.
		B2030 Exterior Doors	Wood door and frame. Metal sill at South door.	Fair	N	lo comment on conditio	٦.	Rep	pair and paint trim.	4D	See Window and Door Program.
		B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Organic growth. Fa	scia paint is chipping. W	ater staining below		Paint fascia.	4D	See Roof Replacement and Maintenance Programs.
	B30 Roofing		Ů			dormer windows.			oof replacement.	3C	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	One brick chimney and one stone chimney.	Fair	Spal	lling at top of brick chim	ney.		Repair chimney. 33020 at building 34.	2B	\$ 5,000
	C10 Interior Construction	C1010 Partitions	Wood frame.	Good	N	lo comment on conditio	1.	No	Recommendation.	N/A	N/A
		C1020 Interior Doors	Wood doors and trim.	Fair	N	lo comment on conditio	n.	No	Recommendation.	N/A	N/A
C Interiors	C20 Stairs	C2010 Stair Construction	Wood construction.	Fair	N	lo comment on conditio	1.	No	Recommendation.	N/A	N/A
		C3010 Wall Finishes	Mix of painted wood plank and wallpaper.	Good		lo comment on conditio			Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Mix of wood plank and linoleum.	Poor		e linoleum peeling or mi	•		Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Painted wood plank.	Good	N	lo comment on conditio	า.	No	Recommendation.	N/A	N/A
D Services	D50 Electrical	D5010 Electrical Service & Distribution	100A single phase service from BC Hydro which also sub-feeds the General Store (2P-30) and Blacksmith (2P-60).	Good	Service is adequate.		Maintain	breakers (maintenance).	N/A	N/A	
		D5020 Lighting and Branch Wiring	Interior lighting.	Fair		Minimal indoor lighting.		Ensure LED la	mps are used (maintenance).	N/A	N/A
	G20 Site	G2030 Pedestrian Paving	Wood boardwalk from Log House to St. Anne's Church. Stone steps with retrofit steel rail. Gravel porch at back entrance.	Fair	Pedest	trian paving is in fair coi	ndition.	No	Recommendation.	N/A	N/A
G Sitework	Improvements	G2040 Site Development	Wood frame lean-to at back with sheet metal roof. White painted picket fence to west.	Poor	Roo	of is a hazard to pedestri	ans.	Re-detail	to remove sharp edges.	5B	See Roof Maintenance Program.
		G2050 Landscaping	Garden beds at East and South. Grade sloped from back to front.	Fair	Ve	egetation touches claddi	ng.		See B1010.	N/A	See B1010.

General Store

	Building Ir	nfo	Notes		Opin	ion of Probable Cost S	ummary	Overview	v Photo		Location
Building No.	17	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	esser mary assumptions	7	
Oth	er Names	1965 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -			
Candy Store, O	kanagon Post Office		report.	В				\$ -			
De	scription			С				\$ -			
Wood framed single	e-storey building with			D				\$ -		, /	Non The Control
	ding, stone foundations,			E				s -			V /
	ngle roof. Exposed wood ood front awning over			F				\$ - ####	The straining of the st		
boardwalk and woo				G				\$ -			
	и сторог			Total	\$ -	\$ -	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Recommended Actio		Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone foundation and grade beam. Concrete slab on grade. Deck post has concrete footing.	Good	Foundat	tion is in generally good o	condition.	No Recommendation.		N/A	N/A
	D10 Cup and must una	B1010 Floor Construction	2-ply 3x8 North-South spanning beam. 5 1/4"x5 1/4" beam in center of room.	Good		No comment on conditio	n.	No Recommendation.		N/A	N/A
	B10 Superstructure	B1020 Roof Construction	2x6 wood rafters at 16" o/c with 1"x6" strapping.	Fair		Water staining on soffit		Clean and paint soffit. Repair ro	oof leaks.	3D	See Roof Maintenance Program.
	DOO F. daving Facility was	B2010 Exterior Walls	Wood frame. 1" board and batten cladding.	Good	Aged siding with	water staining at base. S	ome loose battens.	Landscape to provide 4" clearance betw vegetation. Repair or replace loos		3D	See Landscaping and Cladding Programs.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame fixed windows with metal bars over exterior and some stained glass.	Fair		Trim paint peeling.		Repair and paint trim.		2D	See Window and Door Program.
		B2030 Exterior Doors	Wood door and trim with glass panes.	Fair		Trim paint peeling.		Repair and paint trim.		2D	See Window and Door Program.
		DOMA De et Occurrince	Onder the least in the conflict the conflict	Davis	Objected	and a second	:	Repair and paint fascia	l	3D	See Roof Replacement and Maintenance Programs.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Sningles	curling and some organ	ic growth.	Roof replacement.		4C	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	New metal chimney.	Fair		No comment on conditio	n.	No Recommendation.		N/A	N/A
		C3010 Wall Finishes	Painted wood plank.	Fair		No comment on conditio	n.	No Recommendation.		N/A	N/A
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	1x6 tongue and groove at 16" o/c.	Fair		No comment on conditio	n.	No Recommendation.		N/A	N/A
		C3030 Ceiling Finishes	Painted wood plank.	Fair		No comment on conditio	n.	No Recommendation.		N/A	N/A
D Services	D50 Electrical	D5010 Electrical Service & Distribution	30A sub fed from log house underground.	Good	Load centre p	panel located under count	er is adequate.	Maintain circuit breakers (main	tenance).	2D	N/A
2 00111000		D5020 Lighting and Branch Wiring	Interior lighting.	Fair	Screw base lar	mp holders and older ded	corative fixtures.	Ensure LED lamps are utilized (ma	aintenance).	2E	N/A
G Sitework	G20 Site	G2030 Pedestrian Paving	Wood boardwalk from Log House to St. Anne's Church. Wood frame front porch with wood steps and guardrail.			strian paving is in fair cor		No Recommendation.		N/A	N/A
	Improvements	G2040 Site Development	White painted picket fence on either side.	Fair		Fence is in fair condition		No Recommendation.		N/A	N/A
		G2050 Landscaping	Garden beds on three sides.	Fair	V	egetation touches claddi	ng.	See B2010.		N/A	See B2010.

Blacksmith Shop

Building Info			Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	18	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	E Arment - Maria Arment - Mariana		
Othe	er Names	1965 constructed.	buildings the full project cost has been included in each sheet and has not been split by building.	Α				\$ -	Mr.		130 KM
	n/a		Numbers affected by these "duplicate" costs are in	В	\$ 5,000			\$ 5,000			
	scription		red.	С				\$ -			
	e-storey with board and effoundation and cedar		Programs have not been included in OPC Summary. Refer to Program Summary page at beginning of the	D	\$ 18,000			\$ 18,000			() Comment
	Active forges inside.		report.	E				\$ -	The second second		
Vood doors.	-			F				\$ -			
				G Total	\$ 23,000	\$ -	\$ -	-			
Level 1	Level 2	Level 3		Total	\$ 25,000		sessment				
Major Group	Group Elements	Individual Elements	Building Component	Condition		Comments			Recommended Action	Priority	Probable Cost
Elements	Group Elements	individual Elements	bunding Component	Condition		Comments		ľ	Recommended Action	Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone foundation wall 10" high by 12" wide with 5" concrete footing and parging on interior.	Good	١	No comment on condition	1.		No Recommendation.	N/A	N/A
		B1010 Floor Construction	Reported 2" concrete slab.	Fair	١	lo comment on conditior	١.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	2x6 rough cut wood rafters. Center beam bearing on column and exterior walls.	Good	١	No comment on condition	1.		No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Board and batten siding with 1x8-12" board and 1x4 battens. 2x4 rough cut wood stud at 16" o/c, cross braced with 2x4 blocking. 2x6 bottom plate and 2x4 top plate.	Poor	Wood pecker holes	s and water staining at ba metal patches.	ase. Some previous		vide 4" clearance between cladding and on. Repair woodpecker holes.	3D	See Landscaping and Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame with metal mesh covering. One fixed glass panel window.	Fair	١	No comment on condition	١.		No Recommendation.	N/A	N/A
		B2030 Exterior Doors	Wood doors and trim. Glass panel in back door.	Fair		on on hardware. Front on ting at base. Back door i and has no handle.		See B2	010. repair doors as required.	3E	See Window and Door Program.
	D20 Deefing	B3010 Roof Coverings	Cedar shake shingle with wood fascia.	Fair	Lots of organic g	rowth and debris from tr shingles.	ee. Some missing		Roof replacement.	4C	See Roof Replacement and Maintenance Programs.
	B30 Roofing	B3020 Roof Openings	Metal chimney.	Good	Potential fire ha	zard with no flashing at b	pase of chimney.		e flashing at base of chimney. ee B3020 at building 4A.	4B	\$ 5,000
C Interiors	C30 Interior Finishes	C3010 Wall Finishes	Painted plywood	Good	١	lo comment on condition	1.		No Recommendation.	N/A	N/A
	D30 HVAC	D3040 Distribution Systems	Forge Venting System	Poor	Except for one sys	stem, the forge venting s be replaced.	ystem will need to		ld be replaced, and appropriate thimbles or the penetrations through the roof.	5C	\$ 18,000
D Services	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair	N	No comment on condition	1.		No Recommendation.	N/A	N/A
	D50 Electrical	D5010 Electrical Service & Distribution	60A sub feed underground from Log House.	Good	60A load centr	e panel is adequate for t	ne current use.	Maintain	circuit breakers (maintenance).	2D	N/A
		D5020 Lighting and Branch Wiring	Interior fluorescent lighting.	Fair		Minimal lighting.		Replace I	ighting with LED as fixtures fail.	2D	N/A
E Equipment & Furnishings	E10 Equipment	E1010 Commercial Equipment	Blacksmithing forges.	Fair	No comment on condition.				No Recommendation.	N/A	N/A
G Sitework	G20 Site	G2030 Pedestrian Paving	Wood boardwalk from Log House to St. Anne's Church.	Fair	Вс	oardwalk is in fair condition	on.		No Recommendation.	N/A	N/A
	Improvements	G2050 Landscaping	Evergreen tree adjacent.	Fair	N	lo comment on condition	٦.		No Recommendation.	N/A	N/A

Opinion of Probable Cost Summary

Overview Photo

Location

Notes

Red Shed

Building Info

Building No.	19	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	7	
Othe		1870 original construction.	Refer to Program Summary page at beginning of the	Α				\$ -		The Control
Potte	ery Studio	1915 garage addition.	report.	В				\$ -		
Des	scription			С				\$ -		
	framed building. Original			D				\$ -	1	S Comment of the Comm
building was 20' x 3				E				s - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -		
addition. Cedar shirt	tic with access by ladder			F				\$ -	+ (2)	
from main floor.	ile with access by ladder			G				\$ -		
				Total	\$ -	\$ -	\$ -			
Level 1	Level 2	Level 3				As	sessment			
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Concrete foundation wall.	Poor		ner concrete has eroded. sting condition). Deflected elevation.		Continue monitoring for changes.	N/A	N/A
	A20 Basement Construction	A2010 Basement Excavation	Vented crawlspace.	Fair	No comment on condition. Minor cracking.			No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Addition is concrete slab on grade and grease pit. Original room is wood joist.	Fair	Minor cracking. No comment on condition.			Continue monitoring for changes.	N/A	N/A
		B1020 Roof Construction	Wood joists.	Fair		No comment on condition	1.	No Recommendation.	N/A	N/A
		B2010 Exterior Walls	Horizontal red wood siding and white painted wood corner caps.	Fair		Some loose planks.		Replace or repair loose planks.	2E	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame awning windows.	Fair	Sout	th windows are insulated	over.	No Recommendation.	N/A	N/A
3 5		B2030 Exterior Doors	Wood door and frame.	Fair		has water staining at bas d over. Barn door has loo		Repair doors.	3D	See Window and Door Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with eavestroughs and downspouts and wood fascia.	Fair		Some organic growth.		Roof replacement.	1C	See Roof Replacement and Maintenance Programs.
	_	B3020 Roof Openings	Box vents and two metal chimneys.	Good		No comment on condition	١.	No Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Exterior wall of original room. Wood frame.	Fair		No comment on condition	١.	No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood door and trim.	Fair		No comment on condition	1.	No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Wood plank.	Fair	Water staining in	n Addition South-West co	ner at top of wall.	Patch planks.	3D	See Cladding Program.
	C30 Interior Finishes	C3020 Floor Finishes	Plank floor in loft. N/A in addition.	Fair		No comment on condition	١.	No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Plywood in original room. Wood plank in addition.	Fair	Water staining near addition door. Ceiling is deflecting in original room.		g is deflecting in	Re-fasten ceiling to roof structure (maintenance). Patch repair plywood.	3D	See Cladding Program.
D Services	D50 Electrical	D5010 Electrical Service & Distribution	Overhead BC Hydro service to a load centre panel.	Fair	Service is in fair condition.		1.	Maintain breakers (maintenance).	2D	N/A
D OCIVICES		D5020 Lighting and Branch Wiring	0 0	Fair	Fluoresc	cent and screw base lamp	holders.	Replace lighting with LED as existing fixtures fail (maintenance).	2D	N/A
	G20 Site	G2030 Pedestrian Paving	Extended slab patio.	Fair		Minor cracking.		Continue monitoring for changes.	N/A	N/A
G Sitework	Improvements	G2040 Site Development	Lamppost and metal gate adjacent.	Fair		No comment on condition	١.	No Recommendation.	N/A	N/A
		G2050 Landscaping	Vegetation on lattice.	Fair		No comment on condition	١.	No Recommendation.	N/A	N/A

Location

Overview Photo

Carriage Shed Building Info

	ling into	History	Notes			on of Probable C				Overview Photo		Location
Building No.	20	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Prio	rity	Low Priority	Total		7)	
	r Names	Circa 1890.	Refer to Program Summary page at beginning of the report.	A					\$ -			
Quilt Barn, Wash	rooms, Buggy Shed	1965 renovation. 1981 renovation: (add garage	Where scopes have been summarized into one	В					\$ -			
	cription	doors, close in some doorways	project in the report OPC, numbers are reported in	С					\$ -			
Single-storey wood f		and chimney).	green.	D		\$	5,000		\$ 5,000		"	S TOTAL STATE OF THE STATE OF T
concrete foundation shingle roof. Wood	wall and cedar shake			E					\$ -			
doors. Two individua	•			F					\$ -			
painted wood siding.				G					\$ -			
				Total	\$ -	\$ 5	5,000 \$	\$ -				
Level 1	Level 2	Level 3					Asse	essment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments	s		Re	commended Action	Priority Ranking	Probable Cost
	A10 Foundation	A1010 Standard Foundations	Concrete foundation wall. Floor joists on rocks or concrete piles.	Fair	Minor crac	king. Undermined a	at South	elevation.	Provide s	soil infill where undermined.	3C	See O'Keefe House A1010.
A Substructure	A20 Basement Construction	A2010 Basement Excavation	Vented crawlspace.	Fair	No vent covers. No comment on condition.				Install v	ent covers (maintenance).	N/A	N/A
		B1010 Floor Construction	Wood joists.	Fair	1	No comment on co	ondition.		N	o Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Wood joists.	Fair	ı	No comment on co	ondition.		N	o Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Mix of 1x6 vertical wood siding and cedar shake shingles. Wood frame.	Fair	Some loose of broken shingles and woodpecker holes. Patch or replace damaged shingles.					replace damaged shingles.	3E	See Cladding Program.
		B2030 Exterior Doors	B2030 Exterior Doors Wood frame fibreglass doors. Fair Aged but functional. No Recommendation. N			N/A	N/A					
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with eavestroughs and downspouts and wood fascia.	Fair	Some organic growth. Eavestroughs are dirty.				(Clean eavestroughs.	1C	See Roof Maintenance Program.
	C10 Interior Construction	C1010 Partitions	Wood frame.	Good No comment on condition. No Recommendation.		o Recommendation.	N/A	N/A				
C Interiors		C3010 Wall Finishes	Wood planks.	Fair	1	No comment on co	ondition.		N	o Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	2x6 tongue and groove.	Good	1	No comment on co	ondition.		N	o Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Drywall.	Fair	1	No comment on co	ondition.		No Recommendation.		N/A	N/A
		D2010 Plumbing Fixtures	Lavatories and water closets appear to be relatively new.	Good	The existing fixtur	es should provide q future.	good ser	rvice for the near		ould be made to provide hot water to nrooms for improved hand washing hygiene.	3D	\$ 2,500
	D20 Plumbing	D2020 Domestic Water Distribution	Original piping systems are not visible.	Fair	I -	not likely to be ver a recent renovation	-		N	o Recommendation.	2E	N/A
D Services	D20 Flumbing	D2030 Sanitary Waste	Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.	Fair	The sanitary drain	age piping should the near futur		good service for	N	o Recommendation.	2E	N/A
		D2090 Other Plumbing Systems	Domestic Water Heater	Fair	The electric domes	tic hot water heate service life.		ring the end of its	The domestic water	er heater should be replaced relatively soon.	3D	\$ 2,500
		D5010 Electrical Service & Distribution	Circuits sub fed from adjacent building.	Fair	;	Service is in fair co	ondition.		N	o Recommendation.	N/A	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Interior Lighting	Fair	Fluorescent wraparound and incandescent.			ED as fixtures fail or funding becomes ailable (maintenance).	2D	N/A		
G Sitework	G20 Site Improvements	G2030 Pedestrian Paving	Wood platform outside of washrooms. Extended slab patio.	Fair	Wood plat	form is wet. Minor	r cracking	g in slab.	Replace wood platfo	rm at failure. Continue monitoring slab for changes.	N/A	N/A
Improvements	G2040 Site Development	Metal fence with barbed wire.	Fair		Fence is in fair cor				o Recommendation.	N/A	N/A	

Opinion of Probable Cost Summary

Notes

History

St. Anne's Church

	Building In	fo	Notes		Opin	nion of Probable (Cost Su	ımmary			Overview Photo		Location
Building No.	21	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Pric	ority	Low Priority	To	otal	750	9	100
Othe	er Names	1889 constructed.	Refer to Program Summary page at beginning of the	Α					\$	-	A		A VOICE
St. An	n's Church	1965 interior restored, repainted.	report. Where scopes have been summarized into one	В					\$	-			
Des	scription	1989 sacristy rehabilitation (linseed preservative oil).	project in the report OPC, numbers are reported in	С					\$	-			
Wood framed single	-storey building with	2015-2017 exterior restoration	green.	D		\$ 1	0,000	\$ 13,0	00 \$	23,000	0 4	1	Company of the Company
	Vaulted ceiling in main	and foundation.		E					\$	-	A 17 44 3		
room. Cedar shake i on steeple. New wh	roof with metal shingles			F					\$	-			
cladding. Wood doo	•			G					\$	-			
oludumg. Wood doc	ore and windows.			Total	\$ -	\$ 1	0,000	\$ 13,0	00				
Level 1	Level 2	Level 3					Ass	sessment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments					Re	commended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Cast-in-place concrete foundation.	Good	Foundation new in 2006.					No Recommendation.			N/A
	B10 Superstructure	B1010 Floor Construction	2x8 joists at 24" o/c on 6x6 beam.	Fair	No comment on condition. No Recommendation.					Recommendation.	N/A	N/A	
	b to superstructure	B1020 Roof Construction	Attic above back room. 1x10-12" strapping.	Fair	No comment on condition.					N	Recommendation.	N/A	N/A
		B2010 Exterior Walls	Wood horizontal cladding. Wood balloon framing at 24" o/c.	Good	No comment on condition.					N	Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Exterior glazed single pane swing windows with wood trim. Some stained glass. Hung windows at back.	Poor	Paint	t chipping on sills.	Glass is	dirty.		Re	pair and paint trims.	2D	See Window and Door Program.
		B2030 Exterior Doors	Original wood doors and trim.	Fair		Front door has as	stragal.			Adjust astr	agal to clear the door handle.	2B	See Window and Door Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with eavestroughs and downspouts and wood fascia.	Fair		No comment on co	ondition.			N	Recommendation.	N/A	N/A
	_	B3020 Roof Openings	Metal chimney.	Fair		Chimney leak	ing.			Review	and repair (maintenance).	N/A	N/A
	C10 Interior	C1010 Partitions	Wood frame.	Fair		No comment on co	ondition.			N	Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood door and frame.	Fair		No comment on co	ondition.			N	Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Generally 1"x2.5" tongue and groove. 1"x3.5" tongue and groove in sacristy.	Fair		No comment on co	ondition.			N	Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Generally 1"x5" tongue and groove. 1"x5-9" tongue and groove in sacristy.	Fair		No comment on co	ondition.			N	Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	1x4 tongue and groove.	Fair	Som	ne water staining ir	n back ro	oom.		Assess c	nimney and repair flashing.	4E	See Roof Maintenance Program.

Historic O'Keefe Ranch

St. Anne's Church

		D3010 Energy Supply	The only building that is heated but not connected to Natural gas is the St Annes Church, that has a dedicated propane tank.	Good	Gas piping where visible appears to be in good condition.	No upgrades to the system are anticipated unless significant upgrades to the existing systems is initiated.	N/A	N/A
	D30 HVAC	D3020 Heat Generating Systems	Assumed there is a propane fired furnace in the ceiling space above the back entry to the church. Likely the unit is fairly old as the venting is an older style. Wood	Poor	This gas fired appliances have been installed in a room that is not fire rated.	D3020.1 Update the propane furnace to a sealed combustion condensing furnace considering the cost of propane.	2D	\$ 12,500
D Services			stove is not in use. Chimney has been reconfigured to serve the furnace mentioned above.			D3020.2 Fire rate the room that the furnaces are installed.	2B	\$ 10,000
		D3040 Distribution Systems	Supply duct system.	Fair	The supply duct systems are in good shape considering the age of the system.	At most, an internal inspection of the duct and a duct cleaning every 5 years or so.	3E	\$ 500
		D5010 Electrical Service & Distribution	Circuits sub fed from Blacksmith Shop.	Fair	Two circuits for lighting and receptacles.	No Recommendation.	N/A	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Interior lighting and accent lighting surrounding.	Fair	Single incandescent up light, in ground accent lightings around building.	Some inground lights have been replaced with LED. Upgrade interior lighting to LED when fixture fails or if funding is available (maintenance).	2D	N/A
G Sitework	G20 Site	G2030 Pedestrian Paving	Wood steps to front door. Wood ramp to back door on concrete pedestals. Wood boardwalk from Log House to St. Anne's Church.	Fair	Wood handrail at ramp is rotting.	Replace handrail (maintenance).	N/A	N/A
G Sitework	Improvements	G2040 Site Development	White picket fence surrounding. Mini stone retaining wall at south-east corner. Streetlamps along boardwalk.	Fair	Fence paint is chipping. Streetlamps in fair to poor condition.	Paint fence.	2E	See Fence Program.

KEL.136116.0002 January 10, 2024

Smoke House

	Building Ir	nfo	Notes		Opin	ion of Probable Co	ost Summa	ary		Overview Photo		Location
Building No.	22	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Prior	ity L	ow Priority	Total	2號_		
Oth	er Names	1900 constructed circa.	Refer to Program Summary page at beginning of the	Α					\$ -			
	n/a	2006 re-roofed "recently".	report.	В					\$ -			
De	scription			С					\$ -			
Small wood framed				D					\$ -		1	
charred from smok and cedar shake ro	e, pedestal foundation,			E					-			Valories /
and cedar snake ro	UI.			F					\$ -			
				G					\$ -	101111		
				Total	\$ -	\$	- \$	-				
Level 1	Level 2	Level 3					Assess	ment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments				Recommended Action	Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1020 Special Foundations	Stone pedestal foundation.	Good	Foundat	ion is in generally g	ood conditi	on.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Wood joists.	Fair		No comment on cor	ndition.			No Recommendation.	N/A	N/A
	·	B1020 Roof Construction	Wood joists.	Fair		No comment on cor	ndition.			No Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Vertical wood cladding. 2x4 wood frame walls with 2-ply 2x4 posts at corners.	Fair	Hole i	n cladding at North-	East corne	r.	Pato	ch cladding where required.	2D	See Cladding Program.
	DZO EXTERIOR ENGIOSURE	B2030 Exterior Doors	Wood door and trim with holes for ventilation.	Fair	No comment on condition.			No Recommendation.	N/A	N/A		
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Fair		No comment on cor	ndition.			No Recommendation.	N/A	N/A
		C3010 Wall Finishes	Wood plank.	Fair		Finish is charred fro	m use.			No Recommendation.	N/A	N/A
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	Wood plank.	Fair		Finish is charred fro	m use.			No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Wood plank.	Fair		Finish is charred fro	m use.			No Recommendation.	N/A	N/A

Pump House

	Building Info		Notes	Opinion of Probable Cost Summary							Overview Photo		Location
Building No.	23	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Prior	rity	Low Priority	To	tal			
Othe	er Names	Constitution date dimension	Refer to Program Summary page at beginning of the	Α					\$	-	The second second		
	n/a		report. Where scopes have been summarized into one	В					\$	-			
	scription		project in the report OPC, numbers are reported in	С					\$	-	THE RESERVE TO A SECOND		
Water main for the			green.	D		\$	4,000		\$	4,000		. 1	() Company of the co
	od interior sheathing and pard and batten siding.			E					\$	-	ALC: Y		Y To lesse
Concrete slab on gra	•			F					\$	-		•	
				G					\$	-			
				Total	\$ -	\$ 4	1,000		\$	4,000			
Level 1	Level 2	Level 3					Ass	essment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments				ommended Action	Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1030 Slab on Grade	Standard concrete slab on grade.	Good	Foundation is in generally good condition. See A1030.				No Recommendation.			N/A	N/A
		B1010 Floor Construction	See A1030.	Good		See A1030.					See A1030.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Wood joists.	ists. Potential repairs required due to roof leak. Potential stud deterioration from leak.					Revie	ew and repa	ir with roof and cladding repairs.	N/A	See Roof Maintenance Program.
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Wood frame. Board and batten cladding.	Fair	Cladding is aged and touching grade.						e 4" clearance between cladding and iir or replace damaged cladding.	3E	See Landscaping and Cladding Programs.
		B2030 Exterior Doors	Wood door and frame.	Fair		No comment on co	ndition.			No Recommendation.		N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof.	Good		No comment on co	ndition.			No	Recommendation.	N/A	N/A
		C3010 Wall Finishes	Plywood.	Poor	Si	taining at North-Eas	st corne	r.		Replace ply	wood and repair roof leaks.	4D	See Cladding Program.
C Interiors	C30 Interior Finishes	C3020 Floor Finishes	See A1030.	Good		See A1030.					See A1030.	N/A	N/A
		C3030 Ceiling Finishes	Plywood.	Poor	Si	taining at North-Eas	st corne	r.			See C3010.	N/A	See C3010.
	D20 Plumbing	D2020 Domestic Water Distribution	The piping systems use galvanized, copper, and plastic piping.		Galvanized piping is no longer approved on domestic water Th					stem needs work, we recommended ized piping with approved domestic water systems.	3D	\$ 2,500	
D Services		D5010 Electrical Service & Distribution	Electrical sub-fed from Implement Shed.	Fair	Older style ITE pa	anel replacement br obtain.	eakers v	will be difficult to			Replace panel.	3D	\$ 1,500
	D50 Electrical	D5020 Lighting and Branch Wiring	Lighting.	Fair		Fluorescent.			Repla	ce with LED	when fixture fails (maintenance).	2D	N/A
		D5090 Other Electrical Systems	Generator input.	Fair	Manual transfer s	switch for connection	on of po	ortable generator.		No	Recommendation.	N/A	N/A

Windmill #2

	Building In	ifo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	24	History		Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	Signal Control	7	
Othe		1900 constructed circa.		Α				\$ -			
	n/a	1990 relocated to O'Keefe Ranch.		В				\$ -	-		
Des	scription			С				\$ -	Ā		
	me wind mill installed			D				\$ -		.,	
on a wood platform.				E				\$ -			Various /
				F				\$ -			
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition			ecommended Action	Priority Ranking	Probable Cost		
A Substructure	A10 Foundation	A1020 Special Foundations	Wood platform sleeper.	Fair	Wood is in direct contact with soil.			Monitor and repair foundations as required.		N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Galvanized steel frame with bolted connections.	Good	Connections show minor sings of corrosion.		No Recommendation.		N/A	N/A	

Water Cisterns

	Building In	fo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	25	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	1901 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -	WW.		1907
	n/a		report.	В				\$ -			
	scription			С				\$ -	A STATE OF THE PARTY OF THE PAR		
Two cisterns - West				D				\$ -	THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	.,	
uncovered. Cistern owith cedar shake roo	cover is wood frame			E				\$ -			V 10 12 20 /
foundation.	or and rock pedestar			F				\$ -			
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments Foundation is in generally good condition.				Recommended Action	Priority Ranking	Probable Cost
	A10 Foundation	A1020 Special Foundations	Rock pedestal foundation at cover.	Good	Foundation is in generally good condition.				No Recommendation.	N/A	N/A
A Substructure	A20 Basement Construction	A2020 Basement Walls	Concrete cistern.	At East cistern: crack through wall near west side, pour joint at half height is cracked. Concrete cap is in fair condition.			Remove v	vegetation and clean (maintenance).	N/A	N/A	
	B10 Superstructure	B1020 Roof Construction	Collar tied wood trusses at cover.	Fair		Minor staining			Roof replacement.	2D	See Roof Replacement and Maintenance Programs.
		B2010 Exterior Walls	Approximately 2x4 wood frame with double layer of horizontal wood cladding on cover.	Fair	Cladding near gra	ade has minor deterioration north elevation.	on and is buried at		Repair and paint cladding.	3E	See Cladding Program.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood framed opening with wood shutter.	Fair		Shutters are aged.			Repair shutters.	3E	See Window and Door Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Fair	Sheathing is water damaged and splitting in some locations. Some organic growth.			See B1020.	N/A	See B1020.	
C Interiors	C30 Interior Finishes	C3010 Wall Finishes	Parging layer.	Fair	Shrinkage cracking in both cisterns. East cistern has spalling, efflorescence, delaminations, and vegetation growth. No mortar joint deterioration.				See A2020.	N/A	See A2020.
G Sitework	G20 Site Improvements	G2050 Landscaping	Trees near West cistern.		No comment on condition.				No Recommendation.	N/A	N/A

	Building In	ıfo	Notes		Opini	ion of Probable Cost Sเ	ummary		Overview Photo		Location
Building No.	26	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Γotal	100000		
Othe	er Names	Conoci action auto amaiowin	Refer to Program Summary page at beginning of the	Α				\$ -	10.500		
Antique Farming	g Equipment Display		report. Where scopes have been summarized into one	В				\$ -			
Des	cription		project in the report OPC, numbers are reported in	С				\$ -			
Pressure-treated pos			green.	D		\$ 2,000		\$ 2,000			A PROPERTY OF
•	ide. Sheet metal roof on			E				\$ -			Various /
equipment.	Houses antique farming			F				\$ -		4	
oquipinioni.				G				\$ -			
				Total	\$ -	\$ 2,000	\$ -	\$ 2,000			
Level 1	Level 2	Level 3				Ass	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Red	ommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Pressure-treated embedded posts.	Fair		Posts are in fair condition		No	Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Concrete slab on grade.	Good	1	No comment on condition	l.	No	Recommendation.	N/A	N/A
B Shell	·	B1020 Roof Construction	Engineered trusses at 4' o/c.	Fair	l	No comment on condition	l.	No	Recommendation.	N/A	N/A
B Shell											
B Shell	B30 Roofing	B3010 Roof Coverings	Sheet metal roof with wood fascia. Sheet metal cladding on gable ends.	Good	I	No comment on condition	١.	No	Recommendation.	N/A	N/A

No comment on condition.

Circuits are in poor condition.

Screw based style lamp holders.

No Recommendation.

Non-weatherproof disconnect switch is exposed to

weather and is rusting. Replace.

Utilize LED lamps (maintenance).

N/A

N/A

2,000

N/A

3D

2D

\$

Fair

Poor

Fair

Fire extinguisher.

Circuits fed from panel in SPPC #2.

Lighting.

D40 Fire Protection

D50 Electrical

D Services

D4030 Fire Protection Specialties

D5010 Electrical Service &

Distribution

D5020 Lighting and Branch Wiring

	Building Ir	nfo	Notes		Opin	ion of Probable Cost	Summary			Overview Photo		Location
uilding No.	27	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	To	otal			
Othe	er Names	Concuración date antinomin	buildings the full project cost has been included in	Α				\$	-	P 200		
	n/a		each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В		\$ 6,000		\$	6,000	1		
Des	cription		red.	С				\$	-			
•	le barn. Cedar shake		Programs have not been included in OPC Summary.	D				\$	-	Transaction of the same of the	10	Notes The Control of
•	trusses. Houses tractor		Refer to Program Summary page at beginning of the	E				\$	-			V 10 12 20)
ollection.			report.	F				\$	-			
				G				\$	-			
				Total	\$ -	\$ 6,000	\$ -	\$	6,000	CONTRACTOR OF THE PARTY OF THE		
Level 1	Level 2	Level 3		Assessment								
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments				Recon	nmended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Pressure-treated embedded posts.	Fair		Water staining at base			No Re	ecommendation.	N/A	N/A
		B1010 Floor Construction	Soil.			No comment on conditi	on.		No Re	ecommendation.	N/A	N/A
B Shell	B10 Superstructure	B1020 Roof Construction	Engineered trusses with steel tie downs. Pole barn construction with poles at 15' o/c.	Fair	Notched poles in	No comment on condition. No Recommendation. Add new strap anchors. Continue monitoring for changes. See A1010 at buildings 28 & 29, B1020 at building 30, G2040 at building 36.		2B	\$ 6,0			
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia and horizontal wood cladding at gable ends.	Poor	Shingles in fair to	o poor condition with so Sheathing stained.	me organic growth.		Roo	of replacement.	3C	See Roof Replacement ar Maintenance Programs.
D Services	D50 Electrical	D5010 Electrical Service & Distribution	100A single phase panel.	Good	Panel is locate	ed in weather protective	wooden cabinet		No Re	ecommendation.	N/A	N/A
		D5020 Lighting and Branch Wiring	Lighting.	Fair	Resid	dential style chandelier f	ixtures.		Utilize LED	lamps (maintenance).	2D	N/A

Implement Shed #1

Building Info		History	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	28	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total	高级	7	
Othe	er Names	1981 constructed.	buildings the full project cost has been included in each sheet and has not been split by building.	Α			\$ 6,000	\$ 6,000			The Marie of the Control of the Cont
West Im	plement Shed		Numbers affected by these "duplicate" costs are in	В				\$ -			
	scription		red.	С				\$ -			
·	m barn with concrete		Programs have not been included in OPC Summary.	D				\$ -	for all the	1	() Company
•	shake roof. Open on the stock lean-to on North		Refer to Program Summary page at beginning of the report.	E				\$ -			Y
	ten siding on enclosed		report.	F				\$ -		*	and the same of th
elevations.				G				\$ -			
	1 10			Total	\$ -	-	\$ 6,000	\$ 6,000			
Level 1 Major Group	Level 2	Level 3				As	sessment			Priority	
Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		Re	ecommended Action	Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Sono tube concrete footings with steel saddle connection to columns.	Good	Surface	e corrosion on steel conn	ections.	See A1010 at bui	lean steel connection. Iding 29, B1020 at buildings 27 & 30, G2040 at building 36.	2D	\$ 6,000
		B1010 Floor Construction	Soil.		1	No comment on condition	n.	١	lo Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Engineered trusses.	Good	1	No comment on condition	n.	N	No Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Post and beam construction. Board and batten cladding.	Fair	Wate	er staining around mid-he	eight.	Landscape to prov	ide 4" clearance between cladding and vegetation.	3E	See Landscaping Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Shingles curling an	nd organic growth on Nor fair to poor condition.	rth side. Fascia is ir		Roof replacement.	3C	See Roof Replacement and Maintenance Programs.
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair	1	No comment on condition	n.		N/A	N/A	N/A
D Services	D50 Electrical	D5010 Electrical Service & Distribution	Local centre sub fed from SPPC #2.	Fair	Event receptacle load centre fed with cab-tire cable/cord cap OK on temporary basis.		١	No Recommendation.	N/A	N/A	
	200 2.000.1001	D5020 Lighting and Branch Wiring	Lighting.		Swite	ches but no lighting obse	erved.	N	No Recommendation.	N/A	N/A
G Sitework	G20 Site Improvements	G2040 Site Development	Post and beam shelter at back with concrete footing with steel saddle connection and sheet metal roof.	Fair	Some posts buried			Landsca	ape to expose buried posts.	3D	See A1010.

Implement Shed #2

	Building In	fo	Notes		Opin	ion of Probable Cos	t Sumn	mary			Overview Photo		Location
East Impl Desi Wood post and beam foundation and cedar the South side and li	r Names lement Shed cription	History 1950 constructed circa. Mid 1950s addition.	Where projects have scope occurring at multiple buildings the full project cost has been included in each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in red. Programs have not been included in OPC Summary. Refer to Program Summary page at beginning of the report.	Level 1 Group A B C D E F	High Priority	Moderate Priority	\$	Low Prio	6,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Total 6,000 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	Overview Photo		Location
Level 1	Level 2	Level 3		Total	-	-	Asses		6,000	6,000			
Major Group Elements	Group Elements	Individual Elements	Building Component	Conditon		Comments	ASSES.	Silicit		Re	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	18 concrete blocks with mix of posts bearing on concrete in some locations and steel saddle connection.	Good	Surface	e corrosion on steel c	onnectio	ons.		See A1010 at bui	lean steel connection. Iding 28, B1020 at buildings 27 & 30, G2040 at building 36.	2D	\$ 6,000
	B10 Superstructure	B1010 Floor Construction	Soil.			No comment on cond	tion.			N	No Recommendation.	N/A	N/A
	B to Superstructure	B1020 Roof Construction	Enginereed trusses and 1x6 strapping.	Fair		No comment on cond	tion.			١	lo Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	8x8 post and beam construction with mix of board and batten and vertical wood plank cladding.	Fair		Cladding is aged.				١	No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor		anic growth on North ed. Fascia in very poor			ing		Roof replacement.	4C	See Roof Replacement and Maintenance Programs.
G Sitework	G20 Site Improvements	G2040 Site Development	Post and beam lean-to at back for animals with concrete footings and steel saddle connection. Plywood cladding and sheet metal roof.	Poor		Plywood is aged.				No Recom	mendation under current use.	N/A	N/A
		G2050 Landscaping	Plantings at back corner.			Vegetation touches gr	ade.			Lands	cape to provide clearance.	2E	See Landscaping Program.

Tack Shed

	Building In	nfo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	30	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	Construction date unknown.	buildings the full project cost has been included in	Α				\$ -	A STATE OF THE STA		ACCOUNT OF THE PARTY OF THE PAR
	n/a		each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В		\$ 6,000		\$ 6,000			
Des	cription		red.	С				\$ -			
	concrete footings and		Programs have not been included in OPC Summary.	D				\$ -		-4 X	
	closed room on West I cladding and skylight.		Refer to Program Summary page at beginning of the	E				\$ -		100	V 12:50/
end with sheet meta	il clauding and skylight.		report.	F				\$ -		•	
				G				\$ -			
				Total	\$ -	\$ 6,000		\$ 6,000	A STATE OF THE STA	anne anne	
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Conditon		Comments			ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Retrofit concrete piles with collar tie connection between post and pile and decorative rope.	Good	The conection is u	unconventional but appea	rs to be sufficient.	1	No Recommendation.	N/A	N/A
		B1010 Floor Construction	Slab on grade in tack room, else soil.	Good	1	No comment on condition	1.	1	No Recommendation.	N/A	N/A
B Shell	B10 Superstructure	B1020 Roof Construction	Pole barn construction with notched pole in bearing acting as "beam" and some straps toe-nailed in at ends. Engineered wood trusses at 4'6" o/c in barn and wood rafters in tack room.	Fair	N	lormal weathering of pole	s.	See A1010 at bu	dd new strap anchors. uildings 28 & , B1020 at building 27, G2040 at building 36.	2B	\$ 6,000
D Ollell		B2010 Exterior Walls	Sheet metal cladding on tack room.	Good	1	No comment on condition	1.	1	No Recommendation.	N/A	N/A
	B20 Exterior Enclosure	B2030 Exterior Doors	Wood frame OSB doors.	Good	1	No comment on condition	1.	1	No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof. Horizontal wood plank cladding on gable ends.	Fair		Debris on roof.			Clear roof.	1D	See Roof Maintenance Program.
		B3020 Roof Openings	Wood frame skylight in tack room.	Fair	ľ	No comment on condition	1.	ľ	No Recommendation.	N/A	N/A
	C10 Interior Construction	C1030 Fittings	2-rail wood fence around perimeter.	Good	١	No comment on condition	1.	1	No Recommendation.	N/A	N/A
C Interiors	C30 Interior Finishes	C3010 Wall Finishes	Painted plywood.	Good	1	No comment on condition	1.	1	No Recommendation.	N/A	N/A
		C3020 Floor Finishes	Painted plywood.	Good	1	No comment on condition	1.	1	No Recommendation.	N/A	N/A
G Sitework	G20 Site Improvements	G2050 Landscaping	Coniferous tree adjacent.		No comment on condition.			١	No Recommendation.	N/A	N/A

Jonan												
	Building I	nfo	Notes		Opin	ion of Probable Cost	Summary			Overview Photo		Location
Building No.	31	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority		Total			
Othe	er Names	Construction date unknown.	Refer to Program Summary page at beginning of the	Α				\$	-			
	n/a		report. Optional iteam to replace grandstand is \$50,000.	В				\$	-			
Des	scription		Sphonal Roam to replace grandstand to 400,000.	С				\$	-	Total L		
5-rail pressure-treat				D				\$	-		1	
announcer, and dec	commissioned			E				\$	-	The second of th		V 12 2
grandstand.				F				\$	-	THE RESERVE OF THE PARTY OF THE		
				G		\$ 10,000		\$	10,000	学者 物學事件		
				Total	\$ -	\$ -	\$ -	\$	10,000	在中国人民国的		
Level 1	Level 2	Level 3				A	ssessment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			Red	commended Action	Priority Ranking	Probable Cost
		G2040.1 Site Development	Five rail fenced corral	Good	,	Rails are in good conditi	on.		Maintain the r	rails under the fencing program	N/A	See Fence Program.
G Sitework	G20 Site Improvements	G2040.2 Site Development	Grandstand platform	Poor	Platform struct	ure has signs of rotting. removed.	Seating has been		Decommission	n or repair Platform and seating.	3B	\$ 10,000
		G2040.3 Site Development	Announcer boot with PA System	Good	Announcer booth	is in good condition. PA	system is exposed	Ma	aintain and rep	lace PA equipment (maintenance).	N/A	N/A

to the elements.

Maintain and replace PA equipment (maintenance).

N/A

N/A

Good

G2040.3 Site Development

Announcer boot with PA System

^						
GI	a	m	n	I	n	n
•	·		r			•

	Building In	fo	Notes		Opini	on of Probable Cost	Summary		Overview Photo		Location
Building No.	32	History		Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		77	
Othe	er Names	Circa 2022		Α				\$ -			
	n/a			В				\$ -			
	scription			С				\$ -			
	nping area. Includes nine			D				\$ -		,	Property of the second
	wood platforms. Four e located in the center			E				\$ -			Y Policy
•	a is enclosed by a post			F				\$ -			
and rail fence.	, , , , , , , , , , , , , , , , , , ,			G				\$ -			
				Total	\$ -	\$ -	\$ -	\$ -	第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		
Level 1	Level 2	Level 3				ı	Assessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Pre-cast concrete pedestals.	Good	1	No comment on condit	on.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	Pressure treated wood platforms.	Good	1	No comment on condit	on.		No Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2010 Exterior Walls	Tents were not reviewed.		١	No comment on condit	on.		No Recommendation.	N/A	N/A
D Services	D20 Plumbing	D2010 Plumbing Fixtures	The water closets are a purpose-built composting type unit.	Fair	The system appears to be functional. Composting toilets are generally not considered a "high volume" system.				ite becomes more popular, the operator d more toilet systems to keep up with demand.	N/A	N/A
G Sitework	G20 Site Improvements	G2040 Site Development	Wood Gazebo and rail fence.	Good	No comment on condition.				No Recommendation.	N/A	N/A

Balmoral School House

	Building In	fo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	33	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total			
Oth	ier Names	1912 constructed.	Refer to Program Summary page at beginning of the	Α				\$ -	A		1977
	n/a	1989 relocated.	report.	В				\$ -			
De	escription			С				\$ -			S YOUR
	abin with wood framed			D				\$ -		1	Marine 1
	West). Sloped cedar ncrete foundation wall.			E				-		**	Variable ser
Wood doors and w				F				\$ -			
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			Recommended Action	Priority Ranking	Probable Cost
	A10 Foundation	A1010 Standard Foundations	Concrete foundation wall at main room.	Good	Foundat	ion is in generally good o	condition.		No Recommendation.	N/A	N/A
A Substructure	ATOTOUNGATION	A1020 Special Foundations	Permanent wood foundation at addition.	Good	Foundat	ion is in generally good o	condition.		No Recommendation.	N/A	N/A
	A20 Basement Construction	A2010 Basement Excavation	Crawlspace.			No comment on condition	n.		No Recommendation.	N/A	N/A
	B10 Superstructure	B1010 Floor Construction	See A1010.	Good		See A1010.			No Recommendation.	N/A	N/A
	b to Superstructure	B1020 Roof Construction	2x4 roof trusses.		Roo	f structure is in fair cond	ition.		No Recommendation.	N/A	N/A
	B20 Exterior Enclosure	B2010 Exterior Walls	V-notched split log and chinking in main room and 2x4 wood frame in addition. Horizontal drop wood siding at addition with wood corner cap.	Poor		ade and is dirty. Some pon n room. New chinking wind boards at addition.	•	e Repair Id	ogs and chinking at rotted locations.	5D	See Cladding Program.
B Shell		B2020 Exterior Windows	Wood frame hung and fixed windows.	Fair		Poor seals.			Repair seals.	3D	See Window and Door Program.
		B2030 Exterior Doors	Wood door and frame.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Organic growth on	roof and fascia. Some p repairs.	revious metal patch		Roof replacement.	10	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	OSB and metal chimney.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
	C10 Interior Construction	C1010 Partitions	Former exterior wall.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	1x6 wood plank.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
	C30 Interior Finishes	C3020 Floor Finishes	Wood plank.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	1x6 tongue and groove with center bead.	Fair		No comment on condition	n.		No Recommendation.	N/A	N/A

Schubert House

	Building Info Notes Opinion of Probable C					Probable Cost S	ummary		Overview Photo		Location
Building No.	34	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority Mo	derate Priority	Low Priority	Total			k (633)
Othe	er Names	1890/1892 constructed.	buildings the full project cost has been included in	Α	\$	25,000		\$ 25,000			AFOR LONG
	n/a	1000/1001100000000000000000000000000000	each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В	\$	5,000		\$ 5,000			
N	Notes	Ranch. 2003 exterior walls painted.	red.	С			\$ 14,00	0 \$ 14,000			
Two-storey wood fra	•	2000 exterior waits painted.	Programs have not been included in OPC Summary.	D			\$ 1,00	0 \$ 1,000		- N N	(Company
	g, concrete foundation		Refer to Program Summary page at beginning of the	E				\$ -			Vario Desce
wall, and cedar snak windows. Crawlspac	ke roof. Wood doors and		report. Where scopes have been summarized into one	F				\$ -	THE PROPERTY OF THE PARTY OF TH		
willdows. Orawispac	oc below.		project in the report OPC, numbers are reported in	G				\$ -	一种大学		
			green.	Total	\$ - \$	30,000	\$ 15,00	0 \$ 45,000			
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	CMU foundation wall and 2x4 furring wall in crawlspace.	Poor	Water staining at North- tilted in below sink roor Some damaged CMU blo	n. North-East pon	y wall is tilted in.	Add	Repair foundation wall. vent covers (maintenance). ildings 4A & 20, A1030 at building 11.	3C	\$ 25,000
	B10 Superstructure	B1010 Floor Construction	2x8 wood joists at 16-18" o/c and beam down center of building. 1" thick sheathing.	Fair	No com	ment on condition	า.		No Recommendation.	N/A	N/A
							No Recommendation.	N/A	N/A		
		B2010 Exterior Walls	Split log construction. Horizontal drop cladding with strapping at 24" o/c and wood corner caps.	Fair	Paint is chipping and be contact beto	oards broken at ba ween siding and g			vide 4" clearance between cladding and on. Repair and paint cladding.	3D	See Landscaping and Cladding Programs.
B Shell	B20 Exterior Enclosure	B2020 Exterior Windows	Wood frame single glazed hung windows with linseed oil glazing putty.	Poor	Uppers drooping	and paint on sills	s chipping.		Repair and paint.	4D	See Window and Door Program.
D Onen		B2030 Exterior Doors	Wood door and trim.	Fair	No com	ment on condition	n.		No Recommendation.	N/A	N/A
		B3010 Roof Coverings	Cedar shake shingle roof with wood fascia. Decorative	Fair	Truss tips missing in two		• •	Repair and p	paint fascia and replace truss tips.	3E	See Roof Replacement and Maintenance Programs.
	B30 Roofing		truss ends. Some insulation.		Shingle	s in fair condition			Roof replacement.	3C	See Roof Replacement and Maintenance Programs.
		B3020 Roof Openings	Two brick chimneys and box vents.	Fair	Mortar is startir	ig to deteriorate a	nd crack.	Se	Repoint mortar. ee B3020 at building 11.	2C	\$ 5,000
	C10 Interior	C1010 Partitions	Woof frame.	Fair	No com	ment on conditio	n.		No Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood doors and trim.	Poor	Trim in I	kitchen is damage	d.	Re	pair trim (maintenance).	N/A	N/A
	C20 Stairs	C2010 Stair Construction	Wood stair and rail.	Good	No com	ment on condition	1.		No Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Plaster and lath.	Poor	Some cracking and	a hole in wall at I	north corner.		e cladding and provide heating during winter. e C3010 at building 4A.	3E	\$ 14,000
	C30 Interior Finishes	C3020 Floor Finishes	Hardwood.	Fair	No com	ment on condition	า.		No Recommendation.	N/A	N/A
		C3030 Ceiling Finishes	Generally lath and plaster except upstairs ceiling which is drywall	Poor	Cracking is extensive ups	stairs with a large the kitchen.	section missing in		See C3010.	3E	See C3010.
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair	No com	ment on condition	n.		No Recommendation.	N/A	N/A
D Services		D5010 Electrical Service & Distribution	60A single phase load centre fed from overhead BC Hydro service.	Fair	Serv	ice is adequate.		Mainta	ain breakers (maintenance).	2D	N/A
_ 55655	D50 Electrical	D5020 Lighting and Branch Wiring	Interior lighting.	Fair	Older style resid	dential screw base	e fixtures.	Utilize	d LED lamps (maintenance).	2D	N/A
		D5090 Other Electrical Systems	Branch circuit wiring.	Fair		NMD cable.		Messy wiring i	n crawlspace should be cleaned up.	2D	\$ 1,000
G Sitework	G20 Site Improvements	G2030 Pedestrian Paving	Wood steps to front door.	Fair	Steps are in fair condition.				No Recommendation.	N/A	N/A

Schubert Barn

	Building In	fo	Notes		Opin	ion of Probable Co	ost Su	ımmary		Overview Photo		Location
Building No.	35	History 1920 constructed circa.	Where projects have scope occurring at multiple buildings the full project cost has been included in	Level 1 Group	High Priority	Moderate Prior	rity	Low Priority	Total		7	
	r Names n/a	1989 relocated.	each sheet and has not been split by building.	В		\$ 8	,000		\$ 8,0	00		
Des	cription		Numbers affected by these "duplicate" costs are in red.	С					\$ -	A PARTIES		S YOU !
	framed building. Wood		Programs have not been included in OPC Summary.	D					\$ -	Maria V	*	S Frankly
door and windows. L Creek.	_eaning towards Deep		Refer to Program Summary page at beginning of the	E					\$ -	Viganti - 1		V 12 20/
oreek.			report.	F					\$ -			
				G					\$ -	The same of the sa		
				Total	\$ -	\$ 8	,000		\$ 8,0	00		
Level 1	Level 2	Level 3			Assessment Comments					Duiovitu		
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition					Recommended Action	Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1010 Standard Foundations	Concrete foundation wall with vapour barrier and crawlspace.	Fair	Vapour barrier extends 4' above grade.				No Recommendation.	N/A	N/A	
		A1030 Slab on Grade	Concrete slab foundation.	Fair		No comment on condition.				No Recommendation.	N/A	N/A
		B1010 Floor Construction	Wood frame.	Fair		No access to inte	rior.			No Recommendation.	N/A	N/A
	B10 Superstructure	B1020 Roof Construction	Wood frame.	Poor	Leaninç	g North-East toward	s Deep	Creek.	See B101	Structural Assessment. at building 11, B1020 at building 4A.	4C	\$ 8,000
B Shell	DOO Fatarian Faultanna	B2010 Exterior Walls	2x6 studs at 24" o/c. 1x9 drop siding, mostly horizontal and some vertical with wood corner caps.	Fair	Some broken sid	ing boards and miss corners.	sing sid	ding cap at some		Repair cladding.	3D	See Program.
	B20 Exterior Enclosure	B2020 Exterior Windows	Wood framed windows with plexiglass panels.	Fair		Sills deteriorated at	edges.			Repair trims.	1E	See Program.
		B2030 Exterior Doors	Wood door and frame.	Fair		Stained at base				Patch repair door.	1E	See Program.
	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia.	Poor	Some missing s	shingles and organio missing.	c grow	th. Some fascia		Roof replacement.	3C	See Program.
D Services	D50 Electrical	D5010 Electrical Service & Distribution	Circuit fed from house.	Fair		No comment on cor	ndition.			No Recommendation.	N/A	N/A
	G20 Site	G2040 Site Development	2-rail wood fence	Good		No comment on cor	ndition.			No Recommendation.	N/A	N/A
G Sitework	Improvements	G2050 Landscaping	Vegetation on three sides and garden bed at front.	Fair		Vegetation touches	grade.			No Recommendation.	N/A	N/A

Spallumcheen Pioneer Power Club Clubhouse

	Building In	to	Notes		Opini	ion of Probab	le Cost Si	ummary			Overview Photo		Location
Building No.	36	History	Where projects have scope occurring at multiple	Level 1 Group	High Priority	Moderate	Priority	Low Price	ority	Total		7	
Othe	r Names	1981 constructed.	buildings the full project cost has been included in	A					\$	-			
Maintena	nce Building		each sheet and has not been split by building. Numbers affected by these "duplicate" costs are in	В					\$	-			
Des	cription		red.	С					\$	-			S YOUR
Single-storey wood f	~		Programs have not been included in OPC Summary.	D		\$	29,600	\$	500 \$	30,100			
portion is Spallumch			Refer to Program Summary page at beginning of the	E					\$	-	THE RESERVE TO SERVE		Vanille et /
Ranch maintenance.	East portion is used by		report. Where scopes have been summarized into one	F					\$	-		+	
Nation maintenance.			project in the report OPC, numbers are reported in	G		\$	6,000		\$	6,000			
			green.	Total	\$ -	\$	35,600	\$	500 \$	36,100			
Level 1	Level 2	Level 3					Ass	sessment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comme	ents			Re	commended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1030 Slab on Grade	Standard slab on grade.	Fair	Cracking in	n concrete floc	or in SPPC	bathroom.		Continu	e monitoring for changes.	N/A	N/A
	P10 Superstructure	B1010 Floor Construction	See A1030.	Fair		See A10	030.				See A1030.	N/A	See A1030.
	B10 Superstructure	B1020 Roof Construction	Wood frame.			No comment o	n condition	١.		N	o Recommendation.	N/A	N/A
		B2010 Exterior Walls	Wood frame. Board and batten cladding.	Fair	Some batten	ns missing and	water stair	ning at base	1	Re	place missing battens.	3E	See Cladding Program.
		B2020 Exterior Windows	Wood frame and metal slider windows.	Good	N	No comment o	n condition	١.		N	o Recommendation.	N/A	N/A
B Shell	B20 Exterior Enclosure	B2030 Exterior Doors	5 garage doors (two with electric openers). Mix of wood and fiberglass doors, all wood frame.	Fair	Some garage do weathere	oors not fully seed. Minor dama			ping	N	o Recommendation.	N/A	N/A
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof with wood fascia.	Fair	From various er	ras, previous p Vegetation o		aintenance s	ide.	٨	o Recommendation.	N/A	N/A
	C10 Interior	C1010 Partitions	Wood frame.	Good	N	No comment o	n condition	۱.		N	o Recommendation.	N/A	N/A
	Construction	C1020 Interior Doors	Wood door and frame.	Fair	N	No comment o	n condition	١.		N	o Recommendation.	N/A	N/A
C Interiors		C3010 Wall Finishes	Mix of painted plywood and drywall.	Fair	N	No comment o	n condition	١.		N	o Recommendation.	N/A	N/A
	C30 Interior Finishes	C3030 Ceiling Finishes	Drywall.	Good	Fail	ling at joints in	SPPC gara	age.		Retape joir	its and repaint (maintenance).	N/A	N/A
		D2010 Plumbing Fixtures	Lavatories and water closets.	Fair	Lavatories and was serviceable. The ex		should pro			N	o Recommendation.	N/A	N/A
		D2020 Domestic Water	Original piping systems are copper.	Fair	The insulation i locations. The do		piping shou	uld provide (020.1 The opera	tors should look for pinhole leaks from time to time.	3C	\$ 100
D Services	D20 Plumbing	Distribution	original piping officino dro coppor							the existi	ation should be made for upgrades to ng insulation to save energy.	1E	\$ 500
		D2030 Sanitary Waste	Sanitary waste systems are not visible.	Fair	Based on the ag should prov	e of the buildir vide good servi			ping R	should be inspe epairs if needed	age where blockages could occur, so cted and cleaned from time to time. could be completed for the location at need for wholesale piping upgrades in the near future.	3D	\$ 300

panamono	cii i ioiicci i	ower Club Clubilous	5G					
					The Domestic hot water heater is nearing the end of its service life and is need of replacement. This gas fired appliances has not been installed in a room that is fire rated. The Water heater has not been provided with a drain pan.	D2090.1 The domestic water heater should be replaced soon.	4C	\$ 5,500
	D20 Plumbing	D2090 Other Plumbing Systems	Domestic Water Heater	Poor		D2090.2 Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.	4C	\$ 500
						D2090.3 Consideration should be made to build a fire rated room that would house the domestic water heater.	2В	\$ 10,000
		D3010 Energy Supply	The facility has a natural gas connection and pressure regulation station.	Fair	Gas piping does not appear to have the appropriate protective coatings.	The owner will want to engage a technician to ensure the systems are configured to code.	2C	\$ 500
D Services	D30 HVAC	D3020 Heat Generating Systems	Furnace	Poor	The furnace is at the end of its service life. This gas fired appliances have not been installed in a room that is fire rated.	D3020.1 The system should be upgraded soon.	5D	\$ 12,500
						D3020.2 Consideration should be made to build a fire rated room that would house the furnaces and domestic water heater.	2В	See D2090.3.
		D3040 Distribution Systems	Supply duct system.	Fair	The supply duct systems are in good shape considering the age of the system.	At most, an internal inspection of the duct and a duct cleaning every 5 years or so.	3E	\$ 500
	D40 Fire Protection	D4030 Fire Protection Specialties	Fire extinguisher.	Fair	No comment on condition.	No Recommendation.	N/A	N/A
		D5010 Electrical Service & Distribution	200A single phase panel fed from overhead BC Hydro service.	Fair	Service is adequate.	Maintain circuit breakers (maintenance).	2D	N/A
	D50 Electrical	D5020 Lighting and Branch Wiring	Exterior and interior lighting.	Fair	Lighting mix of fluorescent and incandescent lamp.	Utilize LED lamps and replace fixtures as they fail (maintenance).	2D	N/A
		D5090 Other Electrical Systems	Emergency lighting.	Fair	Minimal emergency lighting installed.	Test emergency lighting regularly.	2D	N/A
G Sitework	G20 Site Improvements	G2040 Site Development	Lean-tos around building of post and beam and pole barn construction with buried post footings and sheet metal roofs. Front shelter of pressure treated post and beam construction with engineered trusses at 4' o/c. Posts tied to main building.	Fair	One rotted pole at lean-tos. North lean-to roof failed at south corner.	Support and provide new pedestal at rotted poles. Patch roof. See A1010 at buildings 28 & 29, B1020 at buildings 27 & 30.	4D	\$ 6,000
		G2050 Landscaping	Vegetation on 3 sides and garden bed at front.	Fair	No comment on condition.	Landscape to provide clearance between cladding and vegetation.	N/A	See Program.

Storage Building

Building Info			Notes	Opinion of Probable Cost Summary				Overview Photo		Location	
Building No.	37	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		(0.000)	
Other Names		Construction date unknown.	Refer to Program Summary page at beginning of the	Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι Ι		\$ -					
n/a			report.	В	\$ -		The second second				
Description				С				\$ -			
Wood framed building with concrete slab on				D				\$ -		1	
grade foundation and cedar shake roof.				E				\$ -			V 100 12:50
Board and batten siding and wood doors.				F				\$ -			
				G				\$ -			
				Total	\$ -	\$ -	\$ -				
Level 1	Level 2	Level 3	Assessment								
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition	Comments		Recommended Action		Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1030 Slab on Grade	Standard slab on grade.	Fair	No comment on condition.		No Recommendation.		N/A	N/A	
B Shell	B10 Superstructure	B1010 Floor Construction	Wood frame with plywood front covered deck.	Fair	No comment on condition.		No Recommendation.		N/A	N/A	
		B1020 Roof Construction	Engineered trusses at 4' o/c.	Fair	No comment on condition.		No Recommendation.		N/A	N/A	
	B20 Exterior Enclosure	B2010 Exterior Walls	Board and batten cladding and OSB sheathing.	Fair	Siding is wet and touches grade. Sheathing is exposed on South		Landscape to provide 4" clearance between vegetation and cladding.		5E	See Landscaping Program.	
		B2030 Exterior Doors	Wood door and trim.	Fair	No comment on condition.		No Recommendation.		N/A	N/A	
	B30 Roofing	B3010 Roof Coverings	Sheet metal roof.	Fair	No comment on condition.		No Recommendation.		N/A	N/A	
G Sitework	G20 Site Improvements	G2050 Landscaping	Vegetation surrounding.	Fair	Vegetation touches cladding.			See B2010.	N/A	See B2010.	

Storage Shed

Build	ling Info	History	Notes		Opinion of Probable Cost Summary					Overview Photo		Location	
Building No.	37	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	ty	Total		· · · · · · · · · · · · · · · · · · ·		
Othe	r Names	Construction date unknown.	Refer to Program Summary page at beginning of the	Α				\$	-				
	n/a		report.	В				\$	-				
	lotes			С				\$	\$ -				
Pole barn style shed	used as storage.			D				\$	-	4	1	() () ()	
				E				\$	•			Y College	
				F				\$	-		-		
				G				\$	-				
				Total	-	-		-			Format Maria	Alabara Santa and Alabara	
Level 1	Level 2	Level 3			Assessment								
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			R	ecommended Action	Priority Ranking	Probable Cost	
A Substructure	A10 Foundation	A1010 Standard Foundations	Buried posts.	Fair		No comment on condi	tion.			No Recommendation.	N/A	N/A	
		B1010 Floor Construction	Soil.			No comment on condi	tion.			No Recommendation.	N/A	N/A	
	B10 Superstructure	B1020 Roof Construction	Pole barn with notched poles in bearing for beams and engineered trusses at 2' o/c.	Fair	Cond	lition commensurate c	f its age.			No Recommendation.	N/A	N/A	
B Shell	B30 Roofing	B3010 Roof Coverings	Cedar shake shingle roof with wood fascia. Plywood sheathing on gable ends.	Poor	Staining underside of soffit. Sheathing missing on South elevation. Shingles missing loose and curled. Fascia missing in some locations.			Roof replacement.		5D	See Roof Replacement and Maintenance Programs.		
C Interiors	C10 Interior Construction	C1030 Fittings	Wood racks for storage.	Fair	No comment on condition.				No recommendation.		N/A	N/A	
G Sitework	G20 Site Improvements	G2050 Landscaping	Vegetation surrounding.	Fair		No comment on condi	tion.			No Recommendation.	N/A	N/A	

Foot Bridge

	Building lı	nfo .	Notes		Opini	on of Probable Cost S	ummary		Overview Photo		Location
Building No.	А	History	n/a	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	er Names	Unknown		Α				\$ -			
	n/a			В				\$ -			
	scription			С				\$ -	The state of the s		S MORE
	rder bridge with a wood			D				\$ -			Property of the
deck supported on of abutments	concrete lock block			E				\$ -			Value /
abutinents				F				\$ -			
				G				\$ -			
				Total	\$ -	\$ -	\$ -		NO SECULIAR	and the second	
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		1	Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1020 Special Foundations	Concrete lock block abutments.	Good	١	No comment on condition	n.		No Recommendation.	N/A	N/A
B Shell	B10 Superstructure	B1010 Floor Construction	Wood Deck.	Good	No comment on condition.			No Recommendation.	N/A	N/A	
F Special Construction & Demolition	F10 Special Construction	F1010 Special Structures	Steel girders.	Good	1	No comment on condition	n.		No Recommendation.	N/A	N/A

Decommissioned Vehicle Bridge

	Building Ir	Building Info Notes Opinion of Probable Cost Summary						Overview Photo		Location	
Building No.	В	History	n/a	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	r Names	Unknown		Α				\$ -	STATE OF THE PARTY		
	n/a			В	\$ 125,000			\$ 125,000			
	cription			С				\$ -			- YOU'S
Single span timber b				D				\$ -		1	Property of
bear on log sills and	gabion abutments.			E				\$ -			
				F				\$ -	A Comment of the Comm		
				G				\$ -			
				Total	\$ 125,000		\$ -				(CALLES AND LOCAL STATE OF THE
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Stone Gabion abutments.	Fair	N	lo comment on condition	1.		No Recommendation.	N/A	N/A
B Shell	B10 Superstructure	B1010 Floor Construction	Log stringers. And wood deck.	Poor	Deflected a	t midspan. Rotted beams	s and deck.	Decomn	nission and dispose of bridge.	4B	\$ 125,000
F Special Construction & Demolition	F10 Special Construction	F1010 Special Structures	Guard logs	Poor	Poor Signs of impact damage and not marked. See B1010.				See B1010.		See B1010.

Log Foot Bridge

	Building Ir	nfo	Notes		Opini	ion of Probable Cost S	ummary		Overview Photo		Location
Building No.	F	History	n/a	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7	
Othe	r Names	Uknown		Α				\$ -			The Control of
	n/a			В				\$ -			
Desc	cription			С				\$ -			
Single span timber b				D				\$ -		1	() Company of the co
bear on log sills and	no visible abutments.			E				\$ -			V 12 20/
				F				\$ -		7	
				G				\$ -			
				Total	\$ -	-	\$ -				
Level 1	Level 2	Level 3				As	sessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments			Recommended Action	Priority Ranking	Probable Cost
A Substructure	A10 Foundation	A1010 Standard Foundations	Log Sills	Fair	1	No comment on condition	1.		No Recommendation.	N/A	N/A
B Shell	B10 Superstructure	B1010 Floor Construction	Log stringers. And wood deck.	Poor	Deflected a	at midspan. Rotted beam	s and deck.	Decommission Bridge		N/A	N/A
F Special Constrution & Demolition	F10 Special Construction	F1010 Special Structures	Guard logs	Poor	Signs of	f impact damage and not	marked.	Decommission Bridge		N/A	N/A

Small Buildings

	Building Ir	nfo	Notes		Opini	ion of Probable Cost S	Summary		Overview Photo		Location		
Building No.	n/a	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		7			
Othe	r Names	Unknown	Refer to Program Summary page at beginning of the	Α				\$ -					
Animal Fe	eed Buildings		report.	В				\$ -					
	cription			С				\$ -			S CARL S		
Small Buildings cons	•			D				\$ -		1	() Carlotte		
wood storage wayfin small shed coverings				E				\$ -			Y To leave.		
Small Shou Coverings	·			F				\$ -		*			
				G				\$ -					
				Total	\$ -	-	\$ -						
Level 1	Level 2	Level 3				A:	ssessment						
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		F	Recommended Action	Priority Ranking	Probable Cost		
A Substructure	A10 Foundation	A1010 Standard Foundations	Wood foundations	Good	Foundation types	Foundation types vary by building but are in generally good condition.			d repair foundations as required.	3E	See Cladding Program.		
B Shell	B30 Roofing	B3010 Roof Coverings	Varied Roofs	Good	Roof types vary by building but are in generally good condition.			Monito	r and repair roofs as required.	3E	See Roof Maintenance Program.		
G Sitework	G20 Site Improvements	G2050 Landscaping	Some buildings surrounded by vegetation.	Fair				provide 4" clearance between wood nembers and vegetation.	N/A	See Landscaping Program.			

Parking Lot and Roads

	Building Ir	ıfo	Notes		Opinio	on of Probable Cost	Summary		Overview Photo		Location	
Building No.	n/a	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total				
Othe	r Names	Unknown	Refer to Program Summary page at beginning of the	Α				\$ -				
	n/a		report.	В				\$ -				
Des	cription			С				\$ -	The state of the s			
Asphalt parking lot in				D				\$ -	440			
	Mansion. Dirt Roads are			E				\$ -			V 1000 2000	
found through out th	ne site.			F				\$ -				
				G				\$ -				
				Total	\$ -	\$ -	\$ -					
Level 1	Level 2	Level 3				A	ssessment					
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		R	ecommended Action	Priority Ranking	Probable Cost	
		G2010 Roads	Dirt Roads	Good	N	o comment on condition	on.		No Recommendation.	N/A	N/A	
G Sitework	G20 Site Improvements	G2020 Parking Lots	Asphalt Parking Lot in front of the Visitor Center	Fair		tor cracking found thro g. Parking line paint ha		Repair potho	les and slope surface to drainage.		See Road Maintenance Program.	

Leure2											
	Building I	nfo	Notes		Opinio	n of Probable Cost S	Summary		Overview Photo		Location
Building No.	n/a	History	Programs have not been included in OPC Summary.	Level 1 Group	High Priority	Moderate Priority	Low Priority	Total		(00000000000000000000000000000000000000	////
Othe	er Names	Unknown	Refer to Program Summary page at beginning of the	Α				\$ -			
	n/a		report.	В				\$ -	No. of the last of		
Des	scription			С				\$ -			S C YOUR
Wood rail, barbed w				D				\$ -	and the second	10	A PROPERTY OF
hicken wire, picket and metal rail fences an be found through out the complex.				E				\$ -			
can be found throug	in out the complex.							\$ -			
				G				\$ -			
				Total	\$ -	\$ -	\$ -		and the second		
Level 1	Level 2	Level 3				A	ssessment				
Major Group Elements	Group Elements	Individual Elements	Building Component	Condition		Comments		F	Recommended Action	Priority Ranking	Probable Cost
G Sitework	G20 Site Improvements	G2040 Site Development	Fencing	Fair		an a functioning state enance program to cor		Fer	nce Maintenance Program	5D	See Fence Maintenance Program.



Appendix D

Overview, Structure, and Building Envelope Photos

PHOTOS	
Comment	Photograph
1: Visitor Center: General view of South (front) elevation.	Photo 1
1: Visitor Center: Restaurant patio.	Photo 2

1: Visitor Center:

Porch post not connected to the ground.



Photo 3

1: Visitor Center:

Typical water staining on cladding near garden beds.



Photo 4

2: Greenhow Museum: General view of East elevation.



Photo 5





Photo 6

2: Greenhow Museum:

Decommissioned back emergency exit stair.



Photo 7

2: Greenhow Museum:

Water staining and efflorescence on interior of stone foundation wall.



Photo 8

2: Greenhow Museum: Stairs to basement.



Photo 9

2: Greenhow Museum: Water staining on vapour barrier in basement.



Photo 10

3: Stagecoach Depot: General View of the East elevation.



Photo 11

3: Stagecoach Depot: General view of the North elevation.



Photo 12

3: Stagecoach Depot:

Typical roof condition from South view.



Photo 13

3: Stagecoach Depot:

Typical water-stained cladding at base of wall.



Photo 14

4A: O'Keefe House: General view from South-West corner.



Photo 15

4A: O'Keefe House: Cracked plaster and lathe in the sewing room.



4A: O'Keefe House: Water damage in the attic above the bathroom.



Photo 17

4A: O'Keefe House: Rotting edges of front porch.

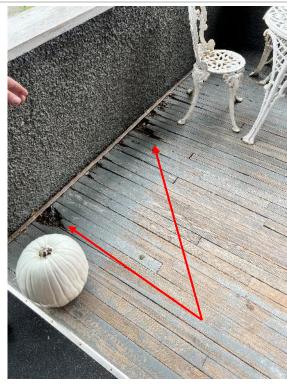


Photo 18

4A: O'Keefe House:

Typical brick foundation column spalling.



Photo 19

4A: O'Keefe House:

Typical condition of windows and shutters.



Photo 20

4B: Caretaker's House: General view of North-East corner.



Photo 21

4B: Caretaker's House: General view of East elevation.



Photo 22

4B: Caretaker's House: Wood retaining wall at driveway.



Photo 23



Photo 24

4B: Caretaker's House:

Wood retaining wall and steps at back porch.

5: Pavilion: General view of South elevation.



Photo 25





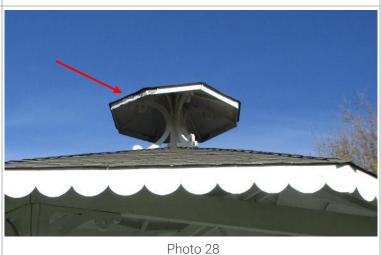
Photo 26

6: Gazebo: Checked post.



Photo 27

6: Gazebo: Deteriorated fascia at cupola.



7: Pioneer Cabin: General view of South elevation.

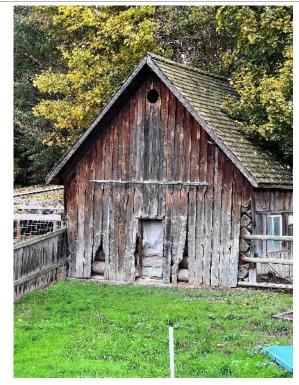


Photo 29

8: Cowboy Bunkhouse: General view of East elevation.



Photo 30

8: Cowboy Bunkhouse: General view of North and West elevations.



Photo 31

8: Cowboy Bunkhouse: Spalled foundation at South elevation.



Photo 32

8: Cowboy Bunkhouse: Mesh cladding patch.

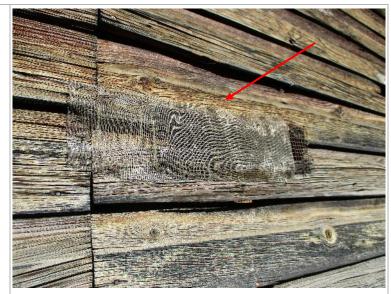


Photo 33





Photo 34

10: Windmill #1: General view.



Photo 35

11: Log Barn: General View of South corner.



Photo 36

11: Log Barn:

Stained roof sheathing.



Photo 37

11: Log Barn:

Heaved out wood retaining wall.



Photo 38

11: Log Barn:

Concrete slab at East lean-to.



Photo 39

12: Hay Shed:

General view of South elevation.



Photo 40

12: Hay Shed: Eroded concrete and exposed rebar.



Photo 41



Photo 42

13: Ye Ol' Feed Shed: General view of South corner. 14: Meat & Dairy: General view of West elevation.



Photo 43





Photo 44

14: Meat & Dairy: General view of East elevation.



Photo 45

14: Meat & Dairy:
Organic growth and ponding on flat roof.



Photo 46

14: Meat & Dairy: Corroded cladding and rotten structure at North elevation.



Photo 47

15: Chinese Cook's House: General view of South elevation.



Photo 48

15: Chinese Cook's House: General view of Noth-West corner.



Photo 49

15: Chinese Cook's House: Stair is nailed to cladding at top.



16: Log House: General view of South-East corner.



Photo 51

16: Log House: General View of Norh elevation and roofs.



Photo 52

16: Log House:

Low edge of sheet metal lean-to roof.



Photo 53

17: General Store: General view of South elevation.



Photo 54

17: General Store: General view of North-East corner.



Photo 55

17: General Store: Interior exposed structure.



Photo 56

17: General Store: Water-stained soffit.



Photo 57





Photo 58

18: Blacksmith Shop: General view of North elevation and roof.



Photo 59

18: Blacksmith Shop: Woodpecker hole and previous metal patches.

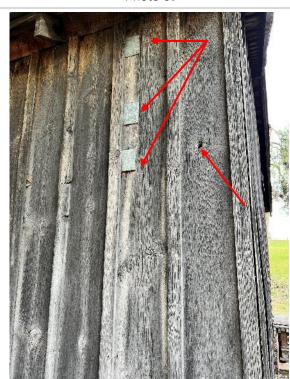


Photo 60

19: Red Shed: General view of North elevation.



Photo 61



Photo 62

19: Red Shed:

Foundation bowed out at South elevation.

19: Red Shed: Deflected ceiling in East room.



Photo 63

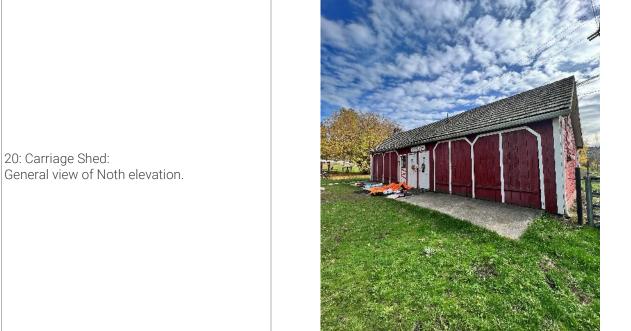


Photo 64

20: Carriage Shed: Undermined foundation at South elevation.



Photo 65

21: St. Anne's Church: General view of South and East elevations.



Photo 66

21: St. Anne's Church: General view of North and West elevations.



Photo 67

21: St. Anne's Church: Typical condition of windows.



Photo 68

22: Smoke House: General view of South elevation.



Photo 69





Photo 70

23: Pump House: General view of South elevation.



Photo 71





Photo 72

23: Pump House: Interior water staining.



Photo 73





Photo 74

25: Water Cisterns: General view of East uncovered cistern.



Photo 75

25: Water Cisterns: Spalled parging at East uncovered cistern.



Photo 76

25: Water Cisterns:
General view of West covered cistern South elevation of cover.



Photo 77

25: Water Cisterns: Water staining on underside of West cover roof sheathing.



Photo 78

26: Spallumcheen Pioneer Power Club Display #1:

General view from South-East corner.



Photo 79

27: Spallumcheen Pioneer Power Club Display #2:

General view from South elevation.



Photo 80

27: Spallumcheen Pioneer Power Club Display #2:

Toe-nailed steel tie.



28: Implement Shed #1: General view of South elevation.



Photo 82

28: Implement Shed #1: General view of North elevation.



Photo 83

29: Implement Shed #2: General view of South and East elevations.



Photo 84

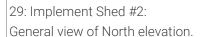




Photo 85

29: Implement Shed #2: General view of roof.

Photo 86

30: Tack Shed: General view of East elevation.



Photo 87

30: Tack Shed:

General view of North elevation.



Photo 88

31: Corral: General view from North.



32: Glamping: Typical glamping site.



Photo 90

33: Balmoral School House: General view from South-East corner.



Photo 91

33: Balmoral School House: Rotted logs at South elevation.



Photo 92

33: Balmoral School House: Previous patch repair at south elevation.



Photo 93

34: Schubert House:

General view of South and West elevations.



Photo 94

34: Schubert House:

Typical condition of windows.

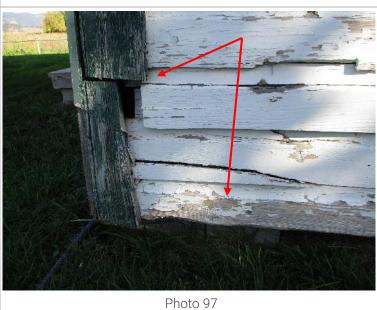


34: Schubert House:
Missing plaster and lathe in kitchen and typical cracking.



Photo 96

34: Schubert House: Deteriorated cladding.



34: Schubert House: Foundation wall

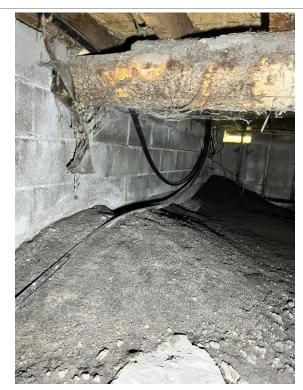


Photo 98

35: Schubert Barn: General view of South and East elevations.



Photo 99

35: Schubert Barn:

Deteriorated cladding and vapour barrier at North-West corner.

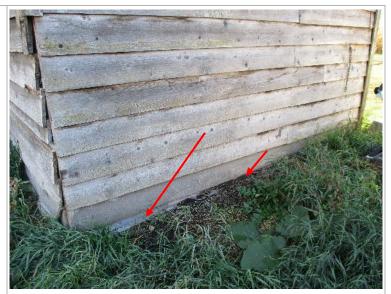


Photo 100

36: Spallumcheen Pioneer Power Club Clubhouse:
General view of the South elevation.



Photo 101

36: Spallumcheen Pioneer Power Club Clubhouse:

Rotted buried post at North lean-to.



Photo 102

36: Spallumcheen Pioneer Power Club Clubhouse:

Typical condition of cladding and windows.



Photo 103

37: Storage Building: General view of East elevation.



Photo 104

38: Storage Shed: General view of South elevation.



Photo 105

38: Storage Shed:

Missing shingles and sheeting at South end of roof.



Photo 106

A: Foot Bridge: General view from North

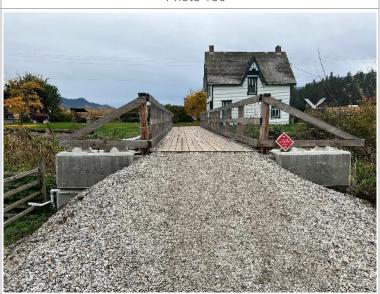


Photo 107

A: Foot Bridge: Supporting beam and structure.



Photo 108

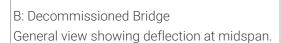




Photo 109



Appendix E

Mechanical Report



210-1715 Dickson Avenue, Kelowna, BC V1Y 9G6 250 762 9993 www.falcon.ca

O'Keefe Ranch

Near Vernon, B.C

City of Vernon
Building Condition Assessment Report
Mechanical

Revision 1
8 January 2024
PERMIT TO PRACTICE NO. 1001295

1.0 Executive Summary

Overall, the HVAC equipment at the O'Keefe Ranch has been well maintained and kept up to date where possible. Some of the plumbing fixtures and piping systems have been upgraded over the years where the piping is accessible.

Some of the inaccessible piping systems are getting close to the end of their service lives and could become increasingly unreliable. Consideration should be made to internally clean and inspect some of these systems from time to time as they still may have utility left in them despite their age.

A few installations do not comply with current standards regarding fire rated enclosures around gas fired appliances. Those instances are mentioned in the text of the report.

The Log House, General Store, Red Shed, Schubert House, Balmoral School, Cowboy Bunkhouse, Chinese Cooks House, Carriage Shed, St., Annes Church (accompanied with a furnace) have wood fired stoves in them. For many of these buildings, the wood fired appliances are the only source of heating. It may be that these buildings are not heated in the winter, rendering the appliance as authentic decoration. However, if the wood fired appliance is intended to be used for heating, then we recommend that a fully trained technician annually inspect the system and set up a program for regularly cleaning the flue. Unattended fireplaces are known sources of building fires and excessive soot in a flue can be the source of chimney fires. The buildings that these systems are in, are built with old and dry wood in them and would likely be very quick to burn in the event of an inadvertent fire.



2.0 Discussion of Mechanical Systems

1 Visitor Centre and Washroom Hut



D2010 - Plumbing Fixtures



Observations:

- Lavatories and water closets are in good condition and seem to have been recently upgraded.
- The lavatory is only served with cold water. Hot water has not been provided.

Recommendations:

- The existing fixtures should provide good service for the near future. Risk Rank 2E.
- Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. Risk Rank 3D.



Observations:

 Kitchen equipment is in good shape but has been abandoned in place, as the restaurant is no longer in use.

Recommendations:

No Recommendations.



D2020 - Domestic Water Distribution



Observations:

- Original piping systems are copper systems. Recent upgrades have used approved plastic piping systems.
- The insulation is in poor condition or missing in certain locations.
- Some elbows witnessed look suspiciously to be made with asbestos.

Recommendations:

- The domestic water piping should provide good service for the near future. Nonetheless, the operators should look for pinhole leaks from time to time. Risk Rank 3C.
- Consideration should be made for upgrades to the existing insulation to save energy. Risk Rank 1E.
- The piping system should be assessed by a hazardous materials professional to determine if there is asbestos on these systems. Risk Rank 3B

D2030 - Sanitary Waste



Observations:

 Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.

Recommendations:

 The sanitary drainage piping should provide good service for the near future. However, the system is at an age where blockages could occur, so should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at hand. There is no need for wholesale piping upgrades in the near future. Risk Rank 3D.



D2090 - Domestic Water Heater



Observations:

 Domestic hot water has been recently upgraded with a 3 kW electric domestic water heater.

Recommendations:

- The domestic water heater should provide good service for the near future.
- Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.
 Risk Rank 2C.

D3010 - Energy Supply



Observations:

- The bulk of the facilities that are heated are served through the natural gas meter and pressure regulation systems. These systems are owned and operated by the utility supplier. The only building that is heated but not connected to natural gas is the St. Annes Church, that has a dedicated propane tank.
- Gas piping where visible appears to be in good condition.

Recommendations:

 No upgrades to the system are anticipated unless significant upgrades to the existing systems is initiated.

D3020 – Heat Generation Systems



Observations:

- Three furnaces have been recently upgraded with sealed combustion energy efficient units.
- These gas fired appliances have been installed in a room that is not fire rated.

Recommendations:

- No upgrades to the system are anticipated in the near future. Risk Rank 1D.
- Consideration should be made to fire rate the room that the furnaces are installed. Risk Rank 2B.
- If the outdoor cooling unit is replaced, the indoor cooling coil will need to be replaced to match the outdoor unit. Risk Rank 5D



D3030 – Cooling Generation Systems



Observations:

- Cooling is provided by a single Lennox ten-ton cooling capacity condensing unit.
- The unit was manufactured in 1999.

Recommendations:

 The unit is nearing the end of its service life and should be replaced in the near future. Due to the change in refrigerants, the cooling coil on the furnaces will need to be replaced as well. Risk Rank 5D

D3030 - Walk in Freezer Cooling System



Observations:

 The cooling equipment is near the end of its service life, but has effectively been abandoned in place, as the restaurant is no longer in use.

Recommendations:

• No recommendation.

D3040 - Air Distribution Systems



Observations:

The supply duct systems are in good shape considering the age of the system.

Recommendations:

• At most, an internal inspection of the duct and a duct cleaning every 5 years or so. Risk Rank 3E.



2 Greenhow Museum



D2010 - Plumbing Fixtures



Observations:

Sink is in good condition.

Recommendations:

- The existing fixtures should provide good service for the near future. Risk Rank 2E.
- Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. Risk Rank 3D.



D2020 - Domestic Water Distribution and Sanitary Waste



Observations:

- Original piping systems are copper systems. Recent upgrades have used approved plastic piping systems.
- The insulation is in poor condition or missing in certain locations.
- Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.

Recommendations:

- The domestic water piping should provide good service for the near future. Nonetheless, the operators should look for pinhole leaks from time to time. Risk Rank 3C.
- Consideration should be made for upgrades to the existing insulation to save energy. Risk Rank 1E.
- The sanitary drainage piping should provide good service for the near future. However, the system is at an age where blockages could occur, so should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at hand. There is no need for wholesale piping upgrades in the near future. Risk Rank 3D.

D2090 - Domestic Water Heater



Observations:

- The domestic hot water heater is old (approx. 40 years since manufactured) and is in need of replacement.
- The water heater has not been provided with a drain pan.

Recommendations:

- The domestic water heater should be replaced soon.
 Risk Rank 4C.
- Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.
 Risk Rank 4C.



D3010 - Energy Supply



Observations:

- The facility has a natural gas connection and pressure regulation station.
- Gas piping does not appear to have the appropriate protective coatings.

Recommendations:

• The Owner will want to engage a technician to ensure the systems are configured to Code. Risk Rank 2C.

D3020 – Heat Generation Systems



Observations:

- The furnace was upgraded with sealed combustion energy efficient unit about 12 years ago.
- The gas fired appliances have not been installed in a room that is fire rated.

- No upgrades to the system are anticipated in the near future. Risk Rank 2D.
- Consideration should be made to build a fire rated room that would house the furnaces and domestic water heater. Risk Rank 2B.



D3030 – Cooling Generation Systems



Observations:

 Cooling is provided by a single window mounted air conditioning unit.

Recommendations:

 If the unit fails, replacement units are readily available and relatively inexpensive. Risk Rank 3E

D3040 - Air Distribution Systems



Observations:

 The supply duct systems are in good shape considering the age of the system.

Recommendations:

• At most, an internal inspection of the duct and a duct cleaning every 5 years or so. Risk Rank 3E.







D2010 - Plumbing Fixtures



Observations:

Lavatories, urinal, shower and water closets are new and well appointed.

- The existing fixtures should provide good service for the near future. Risk Rank 2E.
- Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. Risk Rank 3D.



D2020 - Domestic Water Distribution and Sanitary Waste



Observations:

- Original piping systems are copper systems. Recent upgrades have used approved plastic piping systems.
- The insulation is in poor condition or missing in certain locations.
- Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.

Recommendations:

- The domestic water piping should provide good service for the near future. Nonetheless, the operators should look for pinhole leaks from time to time. Risk Rank 3C.
- Consideration should be made for upgrades to the existing insulation to save energy. Risk Rank 1E.
- The sanitary drainage piping should provide good service for the near future. However, the system is at an age where blockages could occur, so should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at hand. There is no need for wholesale piping upgrades in the near future. Risk Rank 3D.

D2090 - Domestic Water Heater



Observations:

- The domestic hot water heater was manufactured in 2006. The hot water tank is approximately ¾ through the service life.
- The gas fired appliances have not been installed in a room that is fire rated.

- The domestic water heater should be replaced relatively soon. Risk Rank 4C.
- Consideration should be made to build a fire rated room that would house the domestic water heater. Risk Rank 2B.



D3010 - Energy Supply



Observations:

 The facility has a natural gas connection and pressure regulation station.

Recommendations:

 The system should provide good service for the near future. Risk Rank 1D.

D3020 – Heat Generation Systems



Observations:

- Most areas are unheated.
- Occupied areas use baseboard electric heaters.

Recommendations:

• No recommendations

D3030 – Cooling Generation Systems



Observations:

 Cooling is provided by a single window mounted air conditioning unit.

Recommendations:

• If the unit fails, replacement units are readily available and relatively inexpensive. Risk Rank 3E



4 O'Keefe House



D2010 - Plumbing Fixtures



Observations:

- Lavatories, urinal, shower and water closets for the residence appear to be recently installed.
- The plumbing fixtures for the historic part of the mansion are of course old.

Recommendations:

• The existing fixtures should provide good service for the near future. Risk Rank 2E.



D2020 - Domestic Water Distribution and Sanitary Waste



Observations:

- The residence appears to have relatively recent upgrades that have used approved plastic piping systems.
- Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.
- The piping systems in the historic part of the mansion are not in use.

Recommendations:

- The domestic water piping should provide good service for the near future. Nonetheless, the operators should look for pinhole leaks from time to time. Risk Rank 3C.
- Consideration should be made for upgrades to the existing insulation to save energy. Risk Rank 1E.
- The sanitary drainage piping should provide good service for the near future.

D2090 - Domestic Water Heater



Observations:

- The domestic hot water heater was installed in 2008. The hot water tank is approximately ¾ through the service life.
- This gas fired appliances has not been installed in a room that is fire rated.
- The water heater has not been provided with a drain pan.

- The domestic water heater should be replaced relatively soon. Risk Rank 4C.
- Consideration should be made to build a fire rated room that would house the domestic water heater. Risk Rank 2B.
- Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.
 Risk Rank 4C.



D3010 - Energy Supply



Observations:

 The facility has a natural gas connection and pressure regulation station.

Recommendations:

 The system should provide good service for the near future. Risk Rank 1D.

D3020 – Heat Generation Systems



Observations:

- The hot water heating systems for the historical portion of the building is served by a modern sealed combustion condensing boiler manufactured in 2013.
 The boiler is approximately ½ through its service life.
- This gas fired appliances have not been installed in a room that is fire rated.

Recommendations:

- No upgrades to the system are anticipated in the near future. Risk Rank 2D.
- Consideration should be made to build a fire rated room that would house the boiler. Risk Rank 2B.

D3030 – Cooling Generation Systems



Observations:

- Cooling is provided by a single Rheem five-ton cooling capacity condensing unit.
- The unit was manufactured in 2016.

Recommendations:

 The unit is 1/3 through its service life and should provide good service for the near future. Risk Rank 2D



D3040 – Cooling Distribution Systems



Observations:

- The fan and cooling coil are in fair shape considering the age of the system.
- The condensate is intentionally plugged and is showing signs of degradation and rust.

Recommendations:

- Consideration should be made to provide a condensate pump. Risk Rank 3D
- If the outdoor cooling unit is replaced, the indoor cooling coil will need to be replaced to match the outdoor unit. Risk Rank 2D

D3040 – Heat Distribution Systems



Observations:

 Steel uninsulated piping is used for the hydronic heating systems. If the hot water heating system gets above 140°F, the bare pipe can scald bare skin in seconds. It appears that these systems are well barricaded from the public, to avoid an inadvertent incident.

Recommendations:

- The system should provide good service for the near future. Risk Rank 1D.
- Care should continue to be made to keep the public from touching the heating piping and terminal units while the systems are hot.

D3050 - Terminal Heating



Observations:

 The heating systems are original and are still in use. It is hard to determine the life expectancy of these older systems, but they seem to be built to last as there are many facilities that utilize them.

Recommendations:

• Deal with failing systems as they occur. Risk Rank 1C.



18 Blacksmith Shop



D3040 – Forge Venting Systems



Observations:

 Except for one system, the forge venting system will need to be replaced.

Recommendations:

 The systems should be replaced, and appropriate thimbles are needed for the penetrations through the roof. Risk Rank 5C.



20 Carriage Shed



D2010 - Plumbing Fixtures



Observations:

 Lavatories and water closets appear to be relatively new.

- The existing fixtures should provide good service for the near future. Risk Rank 2E.
- Consideration should be made to provide hot water to both public washrooms for improved hand washing hygiene. Risk Rank 3D.



D2020 - Domestic Water Distribution and Sanitary Waste



Observations:

- Original piping systems are not visible. The systems are not likely to be very old as the washrooms seem to be a recent renovation to the building.
- Sanitary waste systems utilize ABS piping systems where visible. Buried piping and piping within the walls were not reviewed.

Recommendations:

- The domestic water piping should provide good service for the near future. Risk Rank 2E.
- The sanitary drainage piping should provide good service for the near future. Risk Rank 2E.

D2090 - Domestic Water Heater



Observations:

 The electric domestic hot water heater is nearing the end of its service life.

Recommendations:

 The domestic water heater should be replaced relatively soon. Risk Rank 3D.



21 St Annes Church



D3010 - Energy Supply



Observations:

- The bulk of the facilities that are heated are served through the natural gas meter and pressure regulation systems. These systems are owned and operated by the utility supplier. The only building that is heated but not connected to natural gas is the St. Annes Church, that has a dedicated propane tank.
- Gas piping where visible appears to be in good condition.

Recommendations:

 No upgrades to the system are anticipated unless significant upgrades to the existing systems is initiated.



D3020 – Heat Generation Systems

Photo not available

Observations:

- We assume there is a propane fired furnace in the ceiling space above the back entry to the church. Our sense is the unit is fairly old as the venting is an older style. Modern furnaces use plastic pipe for combustion air and venting.
- The gas fired appliances have been installed in a room that is not fire rated.

Recommendations:

- Consideration should be made to update the propane furnace to a sealed combustion condensing furnace considering the cost of propane. Risk Rank 2D.
- Consideration should be made to fire rate the room that the furnaces are installed. Risk Rank 2B.



Observations:

 The wood fired pot belly stove is not in use. The chimney for this unit has been reconfigured to serve the furnace mentioned above.

Recommendations:

• Refer to discussion in Executive Summary.

D3040 – Air Distribution Systems



Observations:

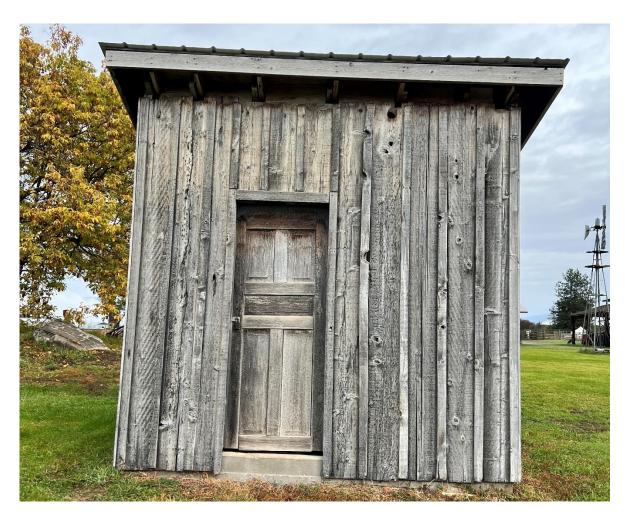
 The supply duct systems are in good shape considering the age of the system.

Recommendations:

 At most, an internal inspection of the duct and a duct cleaning every 5 years or so. Risk Rank 3E.



23 Pump House



D2020 - Domestic Water Distribution



Observations:

- The piping systems use galvanized, copper, and plastic piping. Galvanized piping is no longer approved on domestic water systems.
- The tanks and recent piping system appear to be functional.

Recommendations:

 The next time the system needs work, we recommended replacing the galvanized piping with approved domestic water system piping. Risk Rank 3D.



32 Glamping Washroom Facilities



D2010 - Plumbing Fixtures



Observations:

- The water closets are a purpose-built composting type unit.
- The system appears to be functional. Composting toilets are generally not considered a "high volume" system.

Recommendations:

 As the glamping site becomes more popular, the operator may need to add more toilet systems to keep up with demand.



36 SPPC Clubhouse



D2010 - Plumbing Fixtures



Observations:

 Lavatories and water closets are in fair condition but are still serviceable.

Recommendations:

 The existing fixtures should provide good service for the near future. Risk Rank 2E.



D2020 - Domestic Water Distribution and Sanitary Waste



Observations:

- Original piping systems are copper.
- The insulation is in poor condition or missing in certain locations
- Sanitary waste systems are not visible.

Recommendations:

- The domestic water piping should provide good service for the near future. Non the less, the operators should look for pinhole leaks from time to time. Risk Rank 3C.
- Consideration should be made for upgrades to the existing insulation to save energy. Risk Rank 1E.
- Based on the age of the building, sanitary drainage piping should provide good service for the near future. However, the system is at an age where blockages could occur, so should be inspected and cleaned from time to time. Repairs if needed could be completed for the location at hand. There is no need for wholesale piping upgrades in the near future. Risk Rank 3D.

D2090 - Domestic Water Heater



Observations:

- The domestic hot water heater is nearing the end of its service life and is need of replacement.
- This gas fired appliances has not been installed in a room that is fire rated.
- The water heater has not been provided with a drain pan.

- The domestic water heater should be replaced soon.
 Risk Rank 4C.
- Consideration should be made to provide the water heater with a drain pan to catch and direct the water to a drainage system, in the event of a leak in the tank.
 Risk Rank 4C.
- Consideration should be made to build a fire rated room that would house the domestic water heater. Risk Rank 2B.



D3010 - Energy Supply



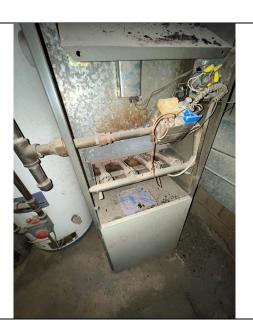
Observations:

- The facility has a natural gas connection and pressure regulation station.
- Gas piping does not appear to have the appropriate protective coatings.

Recommendations:

 The Owner will want to engage a technician to ensure the systems are configured to Code. Risk Rank 2C.

D3020 – Heat Generation Systems



Observations:

- The furnace is at the end of its service life.
- The gas fired appliances have not been installed in a room that is fire rated.

- The system should be upgraded soon. Risk Rank 5D.
- Consideration should be made to build a fire rated room that would house the furnaces and domestic water heater. Risk Rank 2B.



D3040 – Air Distribution Systems



Observations:

 The supply duct systems are in good shape considering the age of the system.

Recommendations:

 At most, an internal inspection of the duct and a duct cleaning every 5 years or so. Risk Rank 3E.



3.0 Considerations for Mechanical System Upgrade

Caveat. This review is intended to provide an external review of the conditions and configuration of the existing mechanical systems where they are apparent. The inside condition of many systems (hydronic, gas heating, or refrigerant systems for example) will affect the longevity of the equipment, and that assessment can only be achieved by qualified technicians performing an invasive inspection of the equipment. If there is reason to consider this sort of review, then those recommendations are listed in the text of the report. The main purpose of the report is to develop budgets for systems that need to be substantially upgraded. Individual equipment that needs to be replaced, under what would be considered a maintenance function, are generally not included in the report.

The budgetary guidance is provided under separate cover and is summarized with other recommendations.

An upgrade to the existing mechanical system will improve the operation, comfort, energy consumption, Code compliance, and maintenance of the facility. The specific recommendations are listed in the text of the report. The recommendations provided are based on successful implementation of similar systems in previous upgrades.

Don Poole P. Eng.





Appendix F

Electrical Report



210-1715 Dickson Avenue, Kelowna, BC V1Y 9G6 250 762 9993 www.falcon.ca

O'Keefe Ranch

Near Vernon, B.C

City of Vernon
Building Condition Assessment Report
ELECTRICAL

Revision 1 8 January 2024 PERMIT TO PRACTICE NO. 1001295



1.0 Introduction

O'Keefe Ranch receives power from a three phase BC Hydro power line that enters the property at the northwest corner. Three phase and single phase overhead BC Hydro owned and maintained power lines run through the property with pole mounted transformers (also BC Hydro owned and maintained) delivering secondary voltage (120/240V single phase and 120/208V three phase) services to several buildings, with other buildings sub-fed from those services.



Observations:

 BC Hydro overhead power line and 3 phase transformer bank with secondary DIP feeding the visitor's centre.

Recommendations:

• N/A. Equipment owned and maintained by BC Hydro.



Observations:

 BC Hydro overhead power line near where it enters the site by the Schubert Barn. Three phase line continues on to the Visitor's Centre and single phase tap continues on to the rest of the site. Single phase overhead secondary service to Schubert House.

Recommendations:

• N/A. Equipment owned and maintained by BC Hydro.



Interior lighting throughout the facility consists of a mixture of screw base incandescent style lampholders (mostly with LED lamps), older fluorescent fixtures, and residential style incandescent fixtures. As lamps and light fixtures fail it is recommended they be replaced with integral LED fixtures or at least with LED lamps.

Exterior lighting consists of some incandescent wall sconces on buildings, some older high intensity discharge (HID) davit lights mounted on wood poles, incandescent post top coach lights, and some in ground up lights at the church. This lighting is generally of poor quality, provides poor illumination levels, and is inefficient. It is recommended that all lighting be upgraded to LED fixtures as budgets permit.



Observations:

• Examples of exterior lighting.

Recommendations:

• Upgrade lighting to LED fixtures as budgets permit.







Generally speaking, electrical equipment installed is of residential quality and is quite old. Because the equipment is lightly loaded there are no major issues with the quality and age of the equipment, but in some cases replacement parts like circuit breakers may be difficult to obtain.

General maintenance of distribution equipment should include periodic testing of circuit breakers to ensure proper operation and checking wire connections to circuit breakers for loose connections. Most electrical equipment that is lightly loaded and not subject to vibration or weather should continue to operate without major issues.



2.0 Discussion of Electrical Systems

1 Visitor Centre and Washroom Hut



D5010 - Electrical Service



Observations:

 400A-120/208V three phase secondary underground DIP BC Hydro service

Recommendations:

n/a



Observations:

 Main switch and sub-switches feeding several panel in the building.

Recommendations:

Maintain switches



D5020 – Lighting and Branch Circuit Wiring



Observations:

Emergency lighting is minimal but has been maintained.
 Lighting is generally fluorescent in fair condition.

Recommendations:

 Continue annual checks of EM lighting. Upgrade general lighting to LED as fixtures fail or when funding is available.

D5030 – Communications and Security



Observations:

Building has a fire alarm system with minimal fire detectors.

- Continue annual verification and testing of fire alarm system.
- Adding fire alarm devices could improve early detection of fires but not required by code.



2 Greenhow Museum



D5010 – Electrical Service and Distribution



Observations:

• 100A-120/240V BC Hydro service is adequate.

Recommendations:

• Maintain circuit breakers



D5020 – Lighting and Branch Wiring



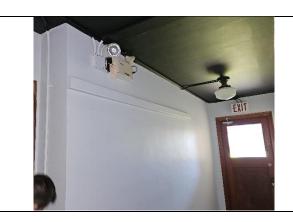
Observations:

- Mixture of fluorescent and screw base track lighting
- .

Recommendations:

 Upgrade general lighting to LED as fixtures fail or funding becomes available

D5030 – Communications and Security



Observations:

• Minimal but acceptable level of emergency lighting and exit signage. No fire alarm system.

Recommendations:

· Continue annual checks of EM lighting.



3 Stagecoach Depot



D5010 – Electrical Service and Distribution



Observations:

Newer 200A-120/240V single phase BC Hydro service and panel

Recommendations:

• Continue to maintain.





Observations:

- Old decommissioned meter base on west side of building.
- Recommendations:

Remove.

D5020 - Lighting and Branch Wiring



Observations:

 Newer LED lighting in washrooms, fluorescent and screw base track in other areas.

Recommendations:

 Upgrade general lighting to LED as fixtures fail or funding becomes available.



4 O'Keefe House



D5010 – Electrical Service and Distribution



Observations:

- 200A single phase BC Hydro service is adequate. 60A sub panel adjacent.
- Recommendations:
- N/A



D5020 - Lighting and Branch Wiring



Observations:

 Communications wiring and branch circuit wiring in basement is very messy.

Recommendations:

• Clean up and support wiring in basement.

5 Pavilion





D5010 – Electrical Service and Distribution



Observations:

 100A-120/240V single phase service is sub-fed from the adjacent building. Special event receptacles installed adjacent.

Recommendations:

Maintain devices as required.

D5020 – Lighting and Branch Wiring



Observations:

 Screw base residential fixtures and string light suitable for location as long as no water spraying is done

- Ensure LED lamps are utilized. Weatherproof outdoor rated lights could be considered as an upgrade.
- Continue to maintain emergency lighting battery packs.



6 Gazebo



DD5010 Electrical Service & Distribution



Observations:

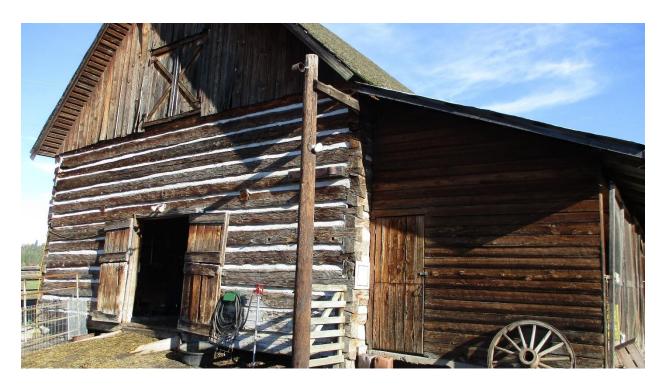
• Single lighting circuit fed from Pavilion

Recommendations:

N/A



11 Log Barn



D5010 – Electrical Service and Distribution



Observations:

 60A-120/240V single phase panel sub-fed from another building is adequate

Recommendations:

 The systems should be replaced, and appropriate thimbles are needed for the penetrations through the roof. Risk Rank 5C.



14 Meat and Dairy



D5010 – Electrical Service and Distribution



Observations:

 Circuit fed overhead from mansion. Disconnect is very old and may fail when operated.

Recommendations:

• Replace disconnect switch.



16 Log House



D5010 – Electrical Service and Distribution



Observations:

 100A-120/240V single phase BC Hydro service is adequate.

Recommendations:

• N/A



17 General Store



D5010 – Electrical Service and Distribution



Observations:

30A-120/240V single phase load centre located under the counter is sub-fed from the Log House service and is adequate for the useage.

Recommendations:

N/A



18 Blacksmith Shop



D5010 – Electrical Service and Distribution



Observations:

 Panel is sub-fed from the Log House at 60A-120/240V single phase and appears adequate for the useage.

Recommendations:

N/A



19 Red Shed



D5010 – Electrical Service and Distribution



Observations:

 120/240V load centre panel is fed from the Carriage Shed service.

Recommendations:

• N/A



20 Carriage Shed



D5010 – Electrical Service and Distribution



Observations:

- 120/240V load centre panel is fed from a BC Hydro pole on the highway.
- •

Recommendations:

• N/A



21 St Annes Church



D5010 – Electrical Service and Distribution



Observations:

• Two circuits for interior and exterior lighting and a receptacle are sub-fed from the Blacksmith Shop panel.

Recommendations:

N/A



D5020 – Lighting and Branch Wiring



Observations:

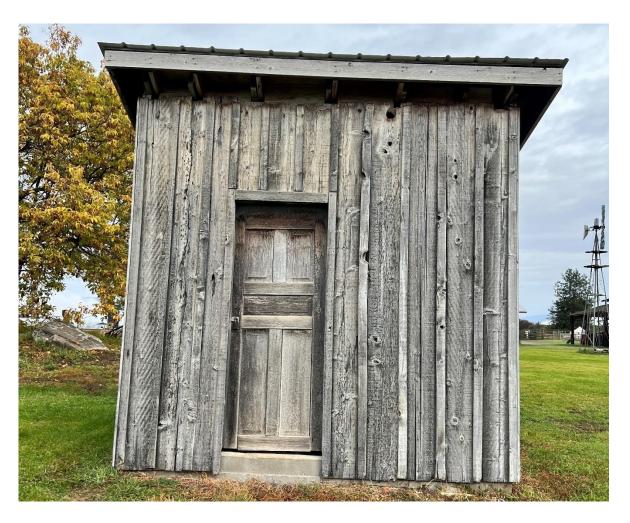
Exterior in ground lights are proud of the ground.

Recommendations:

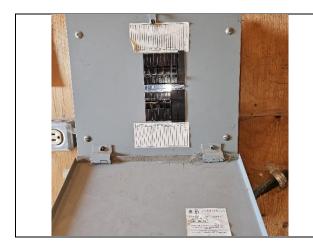
• Check that these lights are properly installed and protected from equipment damage.



23 Pump House



D5010 – Electrical Service and Distribution



Observations:

• Electrical panel is sub-fed from Implement Shed.

Recommendations:

• Older style ITE panel breakers will be difficult to obtain. Panel should be scheduled for replacement.





Observations:

• Pumphouse has a manual transfer switch for connection of a portable generator.

Recommendations:

N/A

23 SPPC#1





D5010 – Electrical Service and Distribution



Observations:

 Circuits fed from panel in SPPC#2. Non-weatherproof disconnect switch is exposed to weather and is rusting.

Recommendations:

• Replace disconnect switch with weatherproof.

27 SPPC#2





D5010 – Electrical Service and Distribution



Observations:

 Newer 100A-120/240V single phase panel is located in weather protective wooden cabinet.

Recommendations:

N/A

28 Implement Sheds



D5010 – Electrical Service and Distribution





Observations:

 Newer 100A-120/240V single phase panel is located in weather protective wooden cabinet.

Recommendations:

• N/A

34 Schubert House





D5010 – Electrical Service and Distribution



Observations:

• 600A-120/240V single phase service BC Hydro overhead service is sufficient for the use

Recommendations:

Provide missing breaker fillers.

D5020 – Lighting and Branch Wiring



Observations:

Wiring appears to be standard NMD-90 cable throughout.

Recommendations:

• Wiring in crawlspace should be cleaned up.



35 Schubert Barn



D5010 – Electrical Service and Distribution



Observations:

Single lighting circuit is fed from the house.

Recommendations:

• N/A



36 SPPC Clubhouse



D5010 – Electrical Service and Distribution



Observations:

 200A 120/240V single phase panel is fed overhead from BC Hydro system.

Recommendations:

Maintain circuit breakers.

D5090 Other Electrical Systems



Observations:

Minimal emergency lighting is installed

Recommendations:

• Continue to test emergency lighting regularly.





Appendix G

Roof Maintenance Guide and Replacement Prioritization

General Roof Maintenance

A basic preventative maintenance program is the simplest method for prolonging the service life of roof assemblies. This program should include visual review of the roof and its associated components to identify minor items which, if neglected, can accelerate the deterioration of the roof assembly. The tables below provides a basic preventative maintenance programs for flat and sloped roof assemblies that could be adopted as required based on the Client's needs. Any items which are identified during these reviews should be addressed in the short term as deferral typically results in the item being dismissed or forgotten.

TABLE G1: GENERAL MAINTENANCE PROGRAM – SLOPED ROOM		
General Care Item	Frequency	
General visual review of roof and associated flashings and drains:		
 Clean debris from gutters Ensure gutters and downspouts Check for loose flashings Check roof penetrations to ensure they are still sealed Check underside of sheathing for staining or organic growth 	Twice per year (Fall and Spring) / After significant weather even	
Repair observable defects as soon as possible to limit potential water ingress into the rocassembly:	f	
 Blisters, loose seams, scouring, etc. Missing shingles, shakes, or tiles; warping; etc. Dented or damaged metal panels, corrosion, etc. 	Once a year / as required	

Component-specific Maintenance items

The maintenance of the roof assembly is not limited to the shingles, shakes, membrane and associated flashings. Roofs typically incorporate various mechanical and electrical assemblies, all of which can have detrimental effects on the roof assembly if neglected. These assemblies include items such as roof vents, drains, HVAC units, and roof penetrations. Table 2 provides a general description of items which should be reviewed, their maintenance requirement, as well as their anticipated frequency.

TABLE G2: COMPONENT SPECIFIC MAINTENANCE SUMMARY		
Component	Maintenance	Frequency
Drains, Gutters, and Downspouts	Clean debris obstructing drainageEnsure drain screens are functional	Twice a year (Spring and Fall)

TABLE G2: COMPONENT SPECIFIC MAINTENANCE SUMMARY			
Component	Maintenance	Frequency	
Ballast	 Re-distribute aggregate to ensure membrane is protected. Typical problem areas: 		
	Roof cornersFoot traffic areasVentilators and mechanical units	Twice a year (Spring and Fall)	
Reglets and Caulking	 Ensure sealant/mortar joint is in good condition 	Every five years	
Flashing	Ensure sealant is in good conditionEnsure flashings are firmly attached	Every five years	
Gum Pans and Pitch Pockets	Ensure item is "crowned" to ensure drainageCheck for cracks in the seal	Every five years	
Plumbing Caps	 Ensure clamp rings and caps are firmly fastened Ensure that seals are in good condition 	Every year	
Mechanical Units	Ensure vents are not damaging membraneEnsure drainage is not damaging membrane	Every year	

Recommendation of Roof Replacement Prioritization

The following list provides context on the relative condition of the roofs at Historic O'Keefe Ranch to guide decision making when planning the recommended Roof Replacement Program. Level 5 roofs should be considered first for replacement, and Level 1 roofs should be considered last for replacement unless conditions change. Level 0 roofs are not recommended for replacement in the next ten years.

Level 5

Stagecoach Depot Chinese Cook's House Storage Shed

Level 4

Cowboy Bunkhouse
Meat and Dairy Low-Slope Roof
General Store
Blacksmith Shop
Implement Shed #2
SPPC Clubhouse Lean-To Roof

Level 3

Pioneer Cabin
Log Barn
Meat and Dairy Sloped Roof
Log House
SPPC Display #2
Implement Shed #1
Schubert House
Schubert Barn

Greenhow Museum

O'Keefe House

Level 2

Caretaker's House Log Barn Lean-Tos Water Cistern Cover

Level 1

Hay Shed Red Shed Carriage Shed Balmoral School House

Visitor Center

Pavilion

Level 0

Gazebo
Bird Pens
Ye Ol' Feed Shed
St. Anne's Church
Smoke House
Pump House
SPPC Display #1
Tack Shed
SPPC Clubhouse
Storage Building



Appendix H

Limits of Liability

Limits of Liability

This report is intended to provide The City of Vernon with a general description of the systems employed in the buildings and to comment on their general condition which was apparent at the time of our review. We did not perform any calculations to confirm the adequacy of the elements. The scope of services did not include an evaluation of the original building design or a detailed engineering investigation. A structural loading or seismic review was not performed.

The review undertaken was of a visual nature only. No testing or dismantling of any coverings was performed. Reviews were made on a random basis with no attempt to review every element or portion of the building(s). Comments are not a guarantee or warranty of the condition of the building or that the building has been built in accordance with the drawings and specifications. Given the limitations of a visual review, defects hidden from view or under-designed components may not have been detected.

Drawings and information relating to the building were used solely to supplement the visual review and to obtain design information on elements hidden from view so that a more accurate building description could be provided.

Opinions of probable cost provided by RJC may be based on incomplete or preliminary information, and may also be based on factors over which RJC has no control. RJC does not guarantee the accuracy of these cost estimates and shall have no liability where cost estimates are exceeded or are less.

RJC prepared this report for the use of The City of Vernon. The material in it reflects RJC's judgement in light of information available to RJC at the time of preparation. Any use that a third party makes of this report, or any reliance or decisions to be based on it, is the responsibility of such third parties. RJC accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The work in this report does not include any assessment or costing of hazardous materials that may be present at the building. Assessment and inventory of hazardous materials should be made by consultants specializing in that field of work. Neither RJC, nor any company with which it is affiliated, nor any of their respective directors, employees, agents, servants or representatives shall in any way be liable for any claim, whether in contract or in tort including negligence, arising of or relating in any way to hazardous materials such as asbestos, lead, mould, mildew or other fungus, including the actual, alleged or threatened existence, effects, ingestion, inhalation, abatement, testing, monitoring, remediation, enclosure, decontamination, repair, or removal of the actual or alleged failure to detect hazardous materials.

