CLASS D ESTIMATE

Program layout option 3.2:

New Admin/Quarters and
Renovation/Upgrade to existing
Apparatus Bay

METCHOSIN FIRE HALL NEW CONSTRUCTION / RENOVATION METCHOSIN, BRITISH COLUMBIA

Prepared for:
Johnson Davidson Architecture

August 08, 2025



Ref # VAN3699

Johnson Davidson Architecture Suite 301 - 877 East Hastings Street Vancouver, British Columbia V6A 3Y1

T: (604) 684-3338 E: ed@jdarch.ca

Attn: Edward Craig

Re: Metchosin Fire Hall, New Construction / Renovation, Metchosin, British

Columbia

Dear Edward Craig:

Please find attached our Class D Estimate for the Metchosin Fire Hall, New Construction / Renovation in Metchosin, British Columbia.

This Class D Estimate is intended to provide a realistic allocation of direct construction costs and is a determination of fair market value. Pricing shown reflects probable construction costs obtainable in the Metchosin, British Columbia area on the effective date of this report and is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the work.

Hanscomb has prepared this estimate(s) in accordance with generally accepted principles and practices. Our general assumptions are included in Section 3 of this report and any exclusions are identified in Section 1.6. For quality assurance, this estimate has been reviewed by the designated Team Lead, as signed below. Hanscomb staff are available and pleased to discuss the contents of this report with any interested party.

Requests for modifications of any apparent errors or omissions to this document must be made to Hanscomb within ten (10) days of receipt of this estimate. Otherwise, it will be understood that the contents have been concurred with and accepted.

We trust our estimate is complete and comprehensive and provides the necessary information to allow for informed capital decisions for moving this project forward. Please do not hesitate to contact us if you have any questions or require additional information.

Yours truly,

Hanscomb Limited

Team Lead

Albert Allan O. Antolin

BSc.CE, PQS Technical Manager **Hanscomb Limited**

Principal / Estimate Reviewer

Indu Elapatha PQS(F), MRICS Manager

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EXECUTIVE SUMMARY

This Class D Estimate is intended to provide a realistic allocation of direct construction costs for the Metchosin Fire Hall, New Construction / Renovation, located in Metchosin, British Columbia. Hanscomb recommends that the Owner and design team carefully review this document, including line-item descriptions, unit prices, exclusions, inclusions, assumptions, contingencies, escalation, and mark-ups. If the project is over budget or has unresolved budgeting issues, alternatives should be evaluated before proceeding to the next design phase.

The following are the highlights of this Class D Estimate:

Project Cost Highlights:

Total Construction Cost	\$17,739,000
Demolition of Admin/Quarters	\$424,800
Temporary Facility	\$4,021,900
Site Work	\$1,284,000
Reno Apparatus Bay	\$3,260,700
New Admin/ Quarters	\$8,747,600



Allowances included in the estimate:

- 15.0% design & pricing contingency
- 10.0% escalation from August 2025 to the approaching construction start in 2027
- 5.0% construction contingency (excluded in the above construction cost and provided separately as an Owner's contingency on the summary page)



The Degree of Accuracy expected for this Class D Estimate is +/-20-30%. In other words, bid results might vary by this amount if the construction budget were set at this milestone estimate. In today's market, projects are trending to the higher end of the plus range.

Base Assumptions:

All costs are estimated on the basis of **competitive bids** (a minimum of at least 3 general contractor bids and at least 3 subcontractor bids for each trade) being received in Metchosin, British Columbia in **August 2025** based on a **stipulated sum** form of contract. If these conditions are not met, bids received could be expected to exceed this estimate.

Exclusions

- Geotechnical consideration (soil improvement, piling, dewatering, rock excavation, etc)
- Back-up Generator equipment
- PV solar panel system requirements
- Equipment beyond that identified in this estimate
- Decanting / Relocation of temporary relocation of occupants, operations, or equipment from an existing facility to an alternate location.
- Overtime premiums for work done outside normal working hours
- Escalation contingency beyond that identified in this estimate
- Financing costs
- Loose furniture, furnishings and equipment
- · Third party commissioning costs
- Winter Construction (Concrete foundation and masonry heating & hoarding)
- Value-added tax (e.g. Goods and Services Tax, or other)
- Soft Costs (e.g. professional fees, building permit, development charges, owner's staff and management, relocation costs, etc.)
- Unexpected labour unavailability and productivity disruptions leading to delays and added costs
- Supply chain disruptions leading to delays and added costs
- Any premiums resulting from Canadian or Foreign government-imposed tariffs

The details of this estimate are provided in the subsequent pages of this report for your review, comment and acceptance.



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- A Elemental Cost Summary
- B Basis and Assumptions for Class D Estimate

Documents and Drawings:

- AA Documents and Drawings List
- AB Representative Drawings



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1. INTRODUCTION

1.1 PURPOSE

This Class D Estimate is intended to provide a realistic allocation of direct construction costs for the Metchosin Fire Hall, New Construction / Renovation, located in Metchosin, British Columbia, with the exception of the items listed in 1.6 Exclusions.

1.2 DESCRIPTION

The Metchosin Fire Hall, New Construction / Renovation located in Metchosin, British Columbia is comprised of the following key elements:

This project involves the new construction of a two-storey Fire Hall Admin/Quarter and renovation/upgrade to the existing Apparatus Bay with a total gross floor area of 1,278 m². The facility will be built using conventional wood framing on a slab-on-grade foundation supported by standard pad and strip footings. The primary structural system will feature glulam (glued-laminated timber) columns and beams, supporting a metal deck roof structure.

The building envelopes, interior finishes, and mechanical and electrical systems will align with standard fire hall design and performance specifications, ensuring functionality, durability, and compliance with applicable codes.

Sitework includes site clearing, cutting and removal of existing trees, rough grading, hardscaping/landscaping and site furnishings including associated mechanical and electrical site services.

The required estimate for new construction also includes separate pricing as follows:

- Temporary Fire Hall facility
- Demolition of existing Fire Hall office building/quarter

1.3 METHODOLOGY

Hanscomb has prepared this estimate(s) in accordance with generally accepted principles and practices. Hanscomb staff are available to discuss its contents with any interested party.

From the documentation and information provided, quantities of all major elements were assessed or measured where possible and priced at rates considered competitive for a project of this type under a stipulated sum form of contract in Metchosin, British Columbia.

Pricing shown reflects probable construction costs obtainable in the Metchosin, British Columbia area on the effective date of this report. This estimate is a determination of fair market value for the construction of this project. It is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the work.

1.4 SPECIFICATIONS

For building components and systems where specifications and design details are not available, quality standards have been established based on discussions with the design team.



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1. INTRODUCTION

1.5 ESTIMATE CLASSIFICATION AND COST PREDICTABILITY

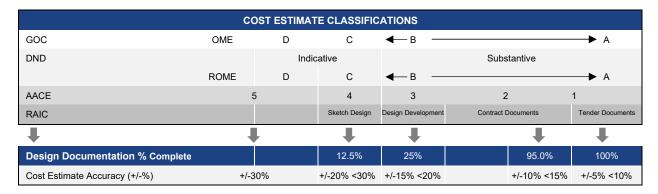
Estimates are defined and classified based on the stage of a project's development and the level of information available at the time of the milestone estimate.

This Class D Estimate is considered to have an expected degree of accuracy of +1-20-30%. In other words, bid results might vary by this amount if the construction budget were set at this milestone estimate. Under stable market conditions, fierce competition and scope reduction might result in costs coming in under the milestone estimate. However, in today's market, projects are trending to the higher end of the plus range.

At the initial stages of a contemplated project, the cost accuracy of the estimate is low as there may be little or no information available to inform a first high-level concept estimate or order of magnitude estimate. As a project nears design completion and is ready to be released to market for tender, the level of accuracy of the estimate is high as the detail is generally extensive and typically represents the information on which contractors will bid.

Milestone cost estimates or "checks" are recommended as the project design develops to keep track of scope and budget. Early detection of potential budget overruns will allow for remedial action before design and scope are locked in. The number of milestone estimates will depend on a project's size and schedule and cost predictability will improve as the design advances.

According to the Canadian Joint Federal Government/Industry Cost Predictability Taskforce, industry standards for estimate classification and cost estimate accuracy may be summarized as follows:



Legend

GOC Government of Canada

DND Department of National Defence

AACE Association for the Advancement of Cost Engineering

RAIC Royal Architectural Institute of Canada

OME Order of Magnitude Estimate

ROME Rough Order of Magnitude Estimate

While the classification categories differ from one authority to the next, the overarching principle for cost predictability remains the same – as the level of detail and design development increases, so does the level of accuracy of the estimate.



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1. INTRODUCTION

1.6 EXCLUSIONS

This Class D Estimate does not provide for the following, if required:

- Geotechnical consideration (soil improvement, piling, dewatering, rock excavation, etc)
- Back-up Generator equipment
- PV solar panel system requirements
- Equipment beyond that identified in this estimate
- Decanting / Relocation of temporary relocation of occupants, operations, or equipment from an existing facility to an alternate location.
- Overtime premiums for work done outside normal working hours
- Escalation contingency beyond that identified in this estimate
- Financing costs
- Loose furniture, furnishings and equipment
- · Third party commissioning costs
- Winter Construction (Concrete foundation and masonry heating & hoarding)
- Value-added tax (e.g. Goods and Services Tax, or other)
- Soft Costs
 - Building permit
 - Development charges
 - Easement costs
 - Fund raising costs
 - Land acquisition costs and impost charges
 - Legal fees and expenses
 - Owner's staff and associated management
 - Preventative maintenance contracts
 - Professional fees and expenses
 - Relocation of existing facilities, including furniture and equipment
 - Right of way charges
 - Value-added tax (e.g. Harmonized Sales Tax, Goods and Services Tax, or other)
- Unexpected labour unavailability and productivity disruptions leading to delays and added costs
- Supply chain disruptions leading to delays and added costs
- Any premiums resulting from Canadian or Foreign government-imposed tariffs



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2. DOCUMENTATION

This Class D Estimate has been prepared from the documentation included in Appendix AA of this report.

All of the above documentation was received from Johnston Davidson Architecture and was supplemented with information gathered in meeting(s) and telephone conversations with the design team, as applicable.

Design changes and/or additions made subsequent to this issuance of the documentation noted above have not been incorporated in this report.



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3. COST CONSIDERATIONS

3.1 COST BASE

All costs are estimated on the basis of competitive bids (a minimum of at least 3 general contractor bids and at least 3 subcontractor bids for each trade) being received in August 2025 from general contractors and all major subcontractors and suppliers based on a stipulated sum form of contract. If these conditions are not met, bids received could be expected to exceed this estimate.

3.2 UNIT RATES

The unit rates in the preparation of this Class D Estimate include labour and material, equipment, subcontractor's overheads and profit. Union contractors are assumed to perform the work with the fair wage policy in effect.

3.3 GENERAL REQUIREMENTS AND FEE

General Requirements and Fee cover the General Contractor's indirect costs, which may include but not be limited to supervision, site set up, temporary utilities, equipment, utilities, clean up, etc., as covered in Division 1 General Conditions of the Contract Documents. It also includes the contractor's fees and should not be confused with Design or Consultant fees, which are excluded from the Construction Costs and carried separately in the Owner's Total Project Costs.

3.4 DESIGN AND PRICING ALLOWANCE

An allowance of 15.0% has been included to cover design and pricing unknowns. This allowance is not intended to cover any program space modifications but rather to provide some flexibility for the designers and cost planners during the remaining contract document stages.

It is expected that this allowance amount will be absorbed into the base construction costs as the design advances. The amount with which this allowance is reduced corresponds to an increase in accuracy and detailed design information. Hanscomb recommends that careful consideration be made at each milestone estimate to maintain adequate contingency for this allowance.

As a project nears completion of design, Hanscomb recommends retaining some contingency for this allowance for the final coordination of documents.

3.5 ESCALATION ALLOWANCE

All costs are based on August 2025 dollars with 10.0% construction cost escalation included to cover increases that may occur between August 2025 and the approaching construction start for the project in 2027.

The budgeted amount will typically decline as the time to award nears. If escalation is taken to the start of construction, escalation during construction is included in the unit rates. If escalation is taken to the midpoint of construction, it is because the market is volatile or the project is considerably large with a construction duration of more than 2-3 years, making it difficult to secure firm pricing at tender.

Forecasting escalation requires careful assessment of a continually changing construction market, which, at best, is difficult to predict. The escalation rate should be monitored.



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3. COST CONSIDERATIONS

3.6 CONSTRUCTION ALLOWANCE

An allowance of 5.0% has been made to cover construction (post contract) unknowns. This allowance, also known as the Post Contract Contingency (PCC), is intended to cover costs for change orders during construction that are not foreseeable. It is not intended to cover scope changes to the contract. The amount carried in the budget for this allowance is typically set at the initial planning stage and should be based on the complexity of the project and the probability of unknowns and retained risks.

3.7 CASH ALLOWANCE

Cash allowances are intended to allow the contractor to include in the bid price the cost for work that is difficult to fully scope at the time of tendering based on factors that are beyond the Owner and Prime Consultant's control. Cash allowances attempt to reduce the risks by dedicating a set amount for use against a certain cost that cannot yet be detailed. The Contractor is obligated to work as best as possible within the limitations of the Cash Allowance.

Examples of Cash Allowances include hardware, inspection and testing, site conditions, replacement of existing elements during demolition for renovation, hazardous materials abatement, signage, etc.

Any Cash Allowances, if applicable, are included either in the details of this estimate under the appropriate discipline or at the summary level.

3.8 TAXES

No provision has been made for the Goods and Services Tax. It is recommended that the owner make separate provision for GST in the project budget.

3.9 SCHEDULE

Pricing assumes a standard work schedule appropriate to the size and scope of this project. Premiums for off-hour work, working in an operational facility, accelerated schedule, etc., if applicable, are identified separately in the body of the estimate.

3.10 CARBON QUANTIFICATION AND PRICING

The significance and understanding of carbon costs in construction is growing. These costs arise from two main sources: the 'embodied' carbon present in the materials and emitted during the construction activities, and the 'operational' carbon emissions resulting from the asset's use over time. The unit rates in this estimate are inclusive of carbon taxes during construction where applicable. Evaluation of embodied carbon, operational carbon, and its costs is an additional service that can be provided on request.

3.11 STATEMENT OF PROBABLE COSTS

Hanscomb has no control over the cost of labour and materials, the contractor's method of determining prices, or competitive bidding and market conditions. This opinion of probable cost of construction is made on the basis of experience, qualifications and best judgment of the professional consultant familiar with the construction industry. Hanscomb cannot and does not guarantee that proposals, bids or actual construction costs will not vary from this or subsequent cost estimates.



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3. COST CONSIDERATIONS

3.12 ONGOING COST CONTROL

Hanscomb recommends that the Owner and design team carefully review this document, including line item description, unit prices, clarifications, exclusions, inclusions and assumptions, contingencies, escalation, and mark-ups. If the project is over budget, or if there are unresolved budgeting issues, alternative systems/schemes should be evaluated before proceeding into the next design phase.

It is recommended that a final updated estimate at the end of the design stage be produced by Hanscomb using Bid Documents to determine overall cost changes which may have occurred since the preparation of this estimate. The final updated estimate will address changes and additions to the documents, as well as addenda issued during the bidding process. Hanscomb cannot reconcile bid results to any estimate not produced from bid documents, including all addenda.

This estimate does not constitute an offer to undertake the work, nor is any guarantee given that an offer to undertake the work at the estimate(s) price will subsequently be submitted by a construction contractor. Unless explicitly stated otherwise, it is assumed that competitive bids will be sought when tender documents have been completed. Any significant deviation between bids received and a pre-tender estimate prepared by Hanscomb from the same tender documents should be evaluated to establish the possible cause(s).

3.13 CURRENT RISKS TO CONSTRUCTION ESCALATION:

The construction market is relatively heated across the country. Because of the significant volume of activity, Hanscomb has observed that the normal number of general contractors and sub-trades bidding on projects has been reduced. Less competition during tendering often results in elevated project pricing. We expect this trend to continue for the following reasons:

- The volume of work exceeds the capacity of available resources
- An aging workforce contributes to pressure through the ever-increasing retirement of trade workers
- All members within the construction community are actively looking for new personnel and are having trouble finding qualified candidates
- Contractors are generally competing for the same tradespeople, offering higher than normal salaries and benefits, translating into higher costs
- Global conflicts affecting the global commodity pricing and supply chain

The above risks may be amplified under the following conditions:

- Any premiums resulting from Canadian or Foreign government-imposed tariffs.
- Global events, including pandemics such as COVID-19, adverse weather events, etc.
- Remote or less densely populated areas where materials and labour cannot be sourced locally and transportation, accommodation and incentives impact schedule and cost

Where any of the above may be a factor, Hanscomb highly recommends conducting appropriate risk analyses, including market sounding. Hanscomb can assist; however, this level of risk assessment is outside the scope of this estimate.



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4. GROSS FLOOR AND SITE DEVELOPED AREAS

The following areas have been measured in accordance with the Canadian Institute of Quantity Surveyors' Measurement of Buildings by Area and Volume.

4.1 GROSS FLOOR AREA (GFA)

Description	GFA
New Construction	
Admin / Quarters	870 m2
Hose Tower	36 m2
Total GFA	906 m2
Renovation	
Apparatus Bay/Spline	372 m2
Total GFA	372 m2
Temporary Facility	
Office / Quarters	134 m2
Apparatus Bay	540 m2
Decon Washroom / Storage	150 m2
Total GFA	824 m2
Building Demolition	
Office / Quarters	530 m2
Total GFA	530 m2

4.2 SITE DEVELOPED AREA

Description	SDA
Site Area	3,850 m2
Building footprint	-829 m2
Total Site Developed Area	3,021 m2

Site Developed Area is the area of the site, less the foot-print area of the building.



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5. CONSTRUCTION COST ESTIMATE SUMMARY

New A	New Admin/Quarter Reno Apparatus		New Admin/Quarter Reno Apparatus Site Wo		Site Work	ork Tota	
GFA	906 m2	372 m2	2,667 m2	1,278 m2			
	\$4,732,300	\$2,006,200		\$6,738,500			
	\$649,700			\$649,700			
			\$790,000	\$790,000			
	\$5,382,000	\$2,006,200	\$790,000	\$8,178,200			
\$/m2	\$5,940.40	\$5,393.01	\$296.21	\$6,399.22			
8.0%	\$430,600	\$160,500	\$63,200	\$654,300			
3.0%	\$174,400	\$65,000	\$25,600	\$265,000			
Fees)	\$5,987,000	\$2,231,700	\$878,800	\$9,097,500			
\$/m2	\$6,608.17	\$5,999.19	\$329.51	\$7,118.54			
10.0%	\$598,700	\$223,200	\$87,900	\$909,800			
15.0%	\$987,900	\$368,200	\$145,000	\$1,501,100			
10.0%	\$757,400	\$282,300	\$111,200	\$1,150,900			
5.0%	\$416,600	\$155,300	\$61,100	\$633,000			
	\$2,760,600	\$1,029,000	\$405,200	\$4,194,800			
\$/m2	\$3,047.02	\$2,766.13	\$151.93	\$3,282.32			
Excluded	\$0	\$0	\$0	\$0			
	\$8,747,600	\$3,260,700	\$1,284,000	\$13,292,300			
\$/m2	\$9,655.19	\$8,765.32	\$481.44	\$10,400.86			
	\$/m2 8.0% 3.0% Fees) \$/m2 10.0% 15.0% 10.0% 5.0% \$/m2 Excluded	\$4,732,300 \$649,700 \$5,382,000 \$5,940.40 \$5,940.40 \$8.0% \$174,400 \$174,400 \$5,987,000 \$5,987,000 \$5,6608.17 \$10.0% \$598,700 \$15.0% \$987,900 \$10.0% \$757,400 \$10.0% \$2,760,600 \$2,760,600 \$2,760,600 \$2,760,600 \$2,760,600	\$4,732,300 \$2,006,200 \$649,700 \$5,382,000 \$2,006,200 \$5,382,000 \$2,006,200 \$5,393.01 \$2,006,200 \$5,393.01 \$5,393.01 \$5,393.01 \$5,393.01 \$160,500 \$3.0% \$174,400 \$65,000 \$65,000 \$65,000 \$5,987,000 \$2,231,700 \$5,999.19 \$10.0% \$598,700 \$223,200 \$368,200 \$15.0% \$987,900 \$368,200 \$10.0% \$757,400 \$282,300 \$1.00% \$757,400 \$282,300 \$5.0% \$416,600 \$155,300 \$2,760,600 \$1,029,000 \$5,772 \$3,047.02 \$2,766.13 \$2,766.13 \$2,766.13 \$2,766.13 \$2,760,700 \$33,260,700	GFA 906 m2 372 m2 2,667 m2 \$4,732,300 \$2,006,200 \$790,000 \$649,700 \$790,000 \$790,000 \$5,382,000 \$2,006,200 \$790,000 \$/m2 \$5,940.40 \$5,393.01 \$296.21 8.0% \$430,600 \$160,500 \$63,200 3.0% \$174,400 \$65,000 \$25,600 Fees) \$5,987,000 \$2,231,700 \$878,800 \$/m2 \$6,608.17 \$5,999.19 \$329.51 10.0% \$598,700 \$223,200 \$87,900 15.0% \$987,900 \$368,200 \$145,000 10.0% \$757,400 \$282,300 \$111,200 5.0% \$416,600 \$155,300 \$61,100 \$2,760,600 \$1,029,000 \$405,200 \$/m2 \$3,047.02 \$2,766.13 \$151.93 Excluded \$0 \$0 \$0 \$8,747,600 \$3,260,700 \$1,284,000			

D - Temporary Facility (refer to page 12 for the cost summary)

\$4,021,900

E - Demolition of existing Admin/Quarters Building (refet to page 12 for the cost summary)

\$424,800

Total Construction Cost (B + C + D +E)

\$17,739,000

Note:

- 1. The mark-up for General Requirements is calculated by multiplying the net construction cost by the applicable percentage (8%). While, the Contractor's Overhead and Fee is calculated by applying the fee percentage (3%) to the compounded amount (example for New Admin/Quarters: compounded \$5,382,000 + \$430,600 = \$5,812,600 x 3% = \$174,378, rounded to \$174,400)
- 2. The mark-up for Contingency is also calculated based on compounded total amount multiply by the applicable percent.
- Location Factor: 10% of the Construction cost (including G/R & Fee)
- Design & Pricing Allowance: 15% of the compounded total amount (Construction Cost + Location Factor)
- Escalation Allowance: 10% of the compunded total amount (Construction Cost + Location Factor + Design & Pricing)
- Construction allowance: 5% of the compounded total amount (Construction Cost + Location Factor + Design & Pricing + Escalation)



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5. CONSTRUCTION COST ESTIMATE SUMMARY

5		Temporary Facility	Demo. Admin/Quarters
Description	GFA	824 m2	530 m2
Temporary Building (Tent/Trailers)		\$2,410,300	\$225,300
Site Work		\$300,000	\$61,000
A - Net Construction Cost		\$2,710,300	\$286,300
	\$/m2	\$3,289.20	\$540.19
General Requirements	8.0%	\$216,800	\$22,900
Contractor's Overhead & Fee	3.0%	\$87,800	\$9,300
B - Construction Cost (including G/R & F	ees)	\$3,014,900	\$318,500
	\$/m2	\$3,658.86	\$600.94
Location Factor	5.0%	\$150,700	\$15,900
Design & Pricing Allowance	10.0%	\$316,600	\$33,400
Escalation Allowance	10.0%	\$348,200	\$36,800
Construction Allowance	5.0%	\$191,500	\$20,200
C - Total Contingency		\$1,007,000	\$106,300
	\$/m2	\$1,222.09	\$200.57
Tax (GST)	Excluded	\$0	\$0
Total Construction Cost (B + C)		\$4,021,900	\$424,800
	\$/m2	\$4,880.95	\$801.51

Note:

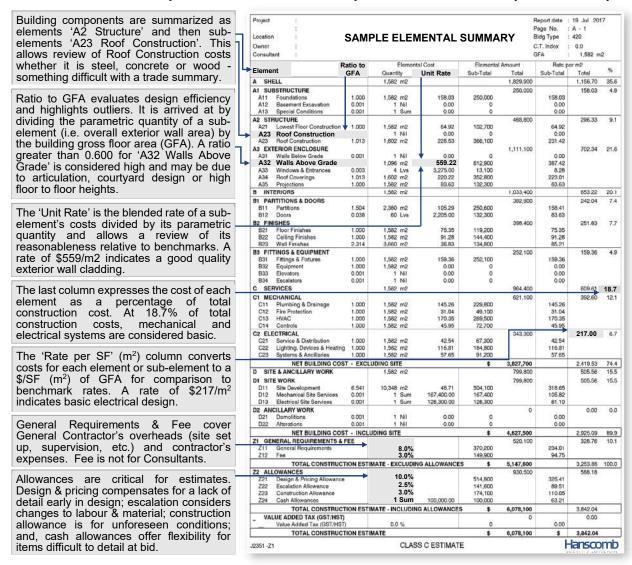
- 1. The mark-up for General Requirements is calculated by multiplying the net construction cost by the applicable percentage (8%). While, the Contractor's Overhead and Fee is calculated by applying the fee percentage (3%) to the compounded total amount (example for Temp. Facility: compounded \$2,710,300 + \$216,800 = \$2,927,100 x 3% = \$87,813, rounded to \$87,800)
- 2. The mark-up for Contingency is also calculated based on compounded total amount multiply by the applicable percent.
 - Location Factor: 5% of the Construction cost (including G/R & Fee)
- Design & Pricing Allowance: 10% of the compounded total amount (Construction Cost + Location Factor)
- Escalation Allowance: 10% of the compunded total amount (Construction Cost + Location Factor + Design & Pricing)
- Construction allowance: 5% of the compounded total amount (Construction Cost + Location Factor + Design & Pricing + Escalation)



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6. UNDERSTANDING THE ELEMENTAL COST SUMMARY

Cost information prepared and presented by Quantity Surveyors is often organized in a form referred to as the 'Elemental Cost Summary'. In this format, the more 'intuitive' building elements (e.g. foundations, exterior cladding, plumbing, etc.) are evaluated rather than materials or trades. Quantity Surveyors track this information consistently from project to project to benchmark not just the overall building unit rate but also rates and ratios for key elements. Below are some key features of the Elementary Cost Summary.



By using this format consistently across all projects, Quantity Surveyors can compare projects and better understand why the 'roof covering' element may be more on this project if it's fulfilling the same function as a similar project.

Note: The above sample is based on the CIQS Elemental format. The fundamental principles of reading the information are the same for summaries reported based on UNIFORMAT.



Appendix
A - Elemental Cost Summary

New Construction - Fire Hall Admin/Quarters



Project : Metchosin Fire Hall

: New Construction - Admin & Hose Tower

Report date : 8 Aug 2025 Page No. : 1

Location : Metchosin, BC
Owner : District of Metchosin

ELEMENTAL COST SUMMARYBldg Type : 380
C.T. Index : 0.0

Consultant : Johnston Davidson Architecture

GFA : 906 m2

		Ratio		Element	tal Cost	Elementa	l Amount	Rate p	er m2	6/
Element		to GFA	Quant	ity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SHE	ELL		906	m2			2,257,200		2,491.39	37.7
A1 SUE	BSTRUCTURE						245,800		271.30	4.1
A11	Foundations	0.480	435	m2	450.00	195,800		216.11		
A12	Basement Excavation					0		0.00		
A13	Special Conditions	0.000	1	Sum	50,000.00	50,000		55.19		
	RUCTURE						820,700		905.85	13.7
A21	Lowest Floor Construction	0.480	435		186.00	81,100		89.51		
A22	Upper Floor Construction	0.480	435		600.00	261,000		288.08		
A23	Roof Construction	0.480	435	m2	1,100.00	478,600		528.26		
	ERIOR ENCLOSURE						1,190,700		1,314.24	19.9
A31	Walls Below Grade	0.720	CE O		1 006 00	0 662,200		0.00		
A32 A33	Walls Above Grade Windows & Entrances	0.730 0.070	658	m2	1,006.00 2,758.00	171,000		730.91 188.74		
A34	Roof Coverings	0.480	435		475.00	206,700		228.15		
A35	Projections	0.000		Sum	150,800.00	150,800		166.45		
	ERIORS	0.000	906		100,000.00	100,000	1,169,300	100.40	1,290.62	19.5
			300	1112			1		579.14	
	RTITIONS & DOORS	0.060	070		246.00	201.000	524,700	220 45	5/9.14	8.8
B11 B12	Partitions Doors	0.960 0.960	870 870		346.00 257.00	301,200 223,500		332.45 246.69		
B2 FIN		0.500	0/0	1114	201.00	حدی,۵۵۵	379,100	240.03	418.43	6.3
B2 FIN	Floor Finishes	0.960	870	m2	147.00	128,000	379,100	141.28	410.43	0.3
B22	Ceiling Finishes	0.960	870 870		150.00	130,500		141.26		
B23	Wall Finishes	0.960	870		139.00	120,600		133.11		
	TINGS & EQUIPMENT	01000	0,0		100.00	120,000	265,500	100111	293.05	4.4
B31	Fittings & Fixtures	0.960	870	m2	205.00	178,000	200,000	196.47	290.00	7.7
B32	Equipment	0.960	870		101.00	87,500		96.58		
	RVICES		906			,	1,305,800		1,441.28	21.8
	CHANICAL			1116			735,300		811.59	12.3
CI WIE	Plumbing & Drainage	0.960	870	m2	204.00	177,500	733,300	195.92	011.09	12.3
C12	Fire Protection	0.960	870		64.00	55,300		61.04		
C13	HVAC	0.960	870		497.00	432,500		477.37		
C14	Controls	0.960	870		80.00	70,000		77.26		
	CTRICAL						570,500		629,69	9.5
C21	Service & Distribution	0.960	870	m2	155.00	135,000		149.01		
C22	Lighting, Devices & Heating		870		305.00	265,700		293.27		
C23	Systems & Ancillaries	0.960	870	m2	195.00	169,800		187.42		
	NET BUILDING COST	Γ - EXCLU	DING SIT	Έ		\$	4,732,300		5,223.29	79.0
D SIT	E & ANCILLARY WORK		906	m2			649,700		717.11	10.9
D1 SITI	E WORK						0		0.00	0.0
D11	Site Development					0		0.00		
D12	Mechanical Site Services					0		0.00		
D13	Electrical Site Services					0		0.00		
D2 ANG	CILLARY WORK						649,700		717.11	10.9
D20	Hose Tower	0.040	36	m2	18,047.00	649,700		717.11		
D21	Demolitions					0		0.00		
D22	Alterations					0		0.00		
	NET BUILDING COST	T - INCLU	DING SIT	E		\$	5,382,000		5,940.40	89.9
Z1 GEI	NERAL REQUIREMENTS & F	EE					605,000		667.77	10.1
Z11	General Requirements		8.0			430,600		475.28		
Z12	Fee		3.0	%		174,400		192.49		
	TOTAL CONSTRUCT	ION ESTIN	IATE - EX	CLUDIN	NG ALLOWANCI	ES \$	5,987,000		6,608.17	100.0
Z2 ALL	OWANCES						2,760,600		3,047.02	
Z20	Location Factor		10.0			598,700		660.82		
Z21	Design & Pricing Allowance		15.0			987,900		1,090.40		
Z22	Escalation Allowance, 2 Yrs		10.0			757,400		835.98		
Z23	Construction Allowance		5.0			416,600		459.82		
	TOTAL CONSTRUCT	ION ESTIM	MATE - INC	CLUDIN	IG ALLOWANCE	S \$	8,747,600		9,655.19	
 	UE ADDED TAX (GST/HST)						0		0.00	-
_ VAL										
VAL	Value Added Tax (GST/HST)		0.0	%		0		0.00		

Appendix
A - Elemental Cost Summary

Renovation to Existing Apparatus Bay



Project : Metchosin Fire Hall Apparatus Bay

: Renovation : Metchosin, BC

Location

Consultant

ELEMENTAL COST SUMMARY

Report date : 8 Aug 2025

Page No. : 1 Bldg Type : 380

Owner : District of Metchosin : Johnston Davidson Architecture C.T. Index : 0.0 GFA : 372 m2

Elemen		Ratio	Element	al Cost	Elementa	Amount	Rate p	er m2	%
Lioilloil	IT.	to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SH	IELL		372 m2			1,388,200		3,731.72	62.2
A1 SU	BSTRUCTURE					509,600		1,369.89	22.8
A11	Foundations	0.960	358 m2	572.00	204,600		550.00		
A12	Basement Excavation				0		0.00		
A13	Special Conditions	0.000	1 Sum	305,000.00	305,000		819.89		
A2 ST	RUCTURE					344,300		925.54	15.4
A21	Lowest Floor Construction	0.000	1 Sum	24,900.00	24,900		66.94		
A22	Upper Floor Construction	0.000	1 Sum	64,000.00	64,000		172.04		
A23	Roof Construction	0.960	358 m2	713.00	255,400		686.56		
АЗ ЕХ	TERIOR ENCLOSURE					534,300		1,436.29	23.9
A31	Walls Below Grade				0		0.00		
A32	Walls Above Grade	1.010	374 m2	725.00	271,200		729.03		
A33	Windows & Entrances	0.000	1 sum	84,000.00	84,000		225.81		
A34	Roof Coverings	0.960	358 m2	500.00	179,100		481.45		
A35	Projections				Ó		0.00		
B IN1	TERIORS		372 m2			0		0.00	0.0
	RTITIONS & DOORS		V.L IIL			0		0.00	0.0
B11	Partitions				0	U	0.00	0.00	0.0
B12	Doors				0		0.00		
					U		0.00	0.00	
	NISHES					0		0.00	0.0
B21	Floor Finishes				0		0.00		
B22	Ceiling Finishes				0		0.00		
B23	Wall Finishes				0		0.00		
	TTINGS & EQUIPMENT					0		0.00	0.0
B31	Fittings & Fixtures				0		0.00		
B32	Equipment				0		0.00		
C SE	RVICES		372 m2			562,200		1,511.29	25.2
C1 ME	ECHANICAL					348,300		936.29	15.6
C11	Plumbing & Drainage	1.000	372 m2	108.00	40,000	0.10,000	107.53	000,20	.0.0
C12	Fire Protection	1.000	372 m2	204.00	75,800		203.76		
C13	HVAC	1.000	372 m2	538.00	200,000		537.63		
C14	Controls	1.000	372 m2	87.00	32,500		87.37		
	ECTRICAL				,	213,900		575.00	9.6
C21	Service & Distribution	1.000	372 m2	94.00	35,000	210,500	94.09	070.00	5.0
C22	Lighting, Devices & Heating	1.000	372 m2	336.00	125,000		336.02		
C23	Systems & Ancillaries	1.000	372 m2	145.00	53,900		144.89		
020	•			140.00	· · · · · · · · · · · · · · · · · · ·	4 050 400	177.00	E 0 4 0 0 4	07.4
	NET BUILDING COS	I - EXC	· · · · · · · · · · · · · · · · · · ·		\$	1,950,400		5,243.01	87.4
D SIT	TE & ANCILLARY WORK		372 m2			55,800		150.00	2.5
D1 S17	TE WORK					0		0.00	0.0
D11	Site Development				0		0.00		
	Mechanical Site Services				0		0.00		
D12					^		0.00		
D12 D13	Electrical Site Services				0				
D13					U	55,800		150.00	2.5
D13	Electrical Site Services				0	55,800	0.00	150.00	2.5
D13 D2 AN	Electrical Site Services ICILLARY WORK	1.000	372 m2	150.00		55,800	0.00 150.00	150.00	2.5
D13 D2 AN D21	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh			150.00	0 55,800				
D13 D2 AN D21 D22	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS	T - INCL		150.00	0	2,006,200		5,393.01	89.9
D13 D2 AN D21 D22 Z1 GE	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F	T - INCL	UDING SITE	150.00	0 55,800 \$		150.00		89.9
D13 D2 AN D21 D22 Z1 GE Z11	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements	T - INCL	UDING SITE 8.0 %	150.00	0 55,800 \$	2,006,200	150.00 431.45	5,393.01	89.9 10.1
D13 D2 AN D21 D22 Z1 GE	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee	Γ - INCL EE	8.0 % 3.0 %		0 55,800 \$ 160,500 65,000	2,006,200 225,500	150.00	5,393.01 606.18	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT	Γ - INCL EE	8.0 % 3.0 %		0 55,800 \$ 160,500 65,000	2,006,200 225,500 2,231,700	150.00 431.45	5,393.01 606.18 5,999.19	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES	Γ - INCL EE	8.0 % 3.0 % IMATE - EXCLUDIN		0 55,800 \$ 160,500 65,000	2,006,200 225,500	150.00 431.45 174.73	5,393.01 606.18	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor	Γ - INCL EE	8.0 % 3.0 % IMATE - EXCLUDIN		0 55,800 \$ 160,500 65,000 :s \$	2,006,200 225,500 2,231,700	150.00 431.45 174.73 600.00	5,393.01 606.18 5,999.19	89.9 10.7
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance	Γ - INCL EE	8.0 % 3.0 % IMATE - EXCLUDIN 10.0 % 15.0 %		0 55,800 \$ 160,500 65,000 :s \$ 223,200 368,200	2,006,200 225,500 2,231,700	150.00 431.45 174.73 600.00 989.78	5,393.01 606.18 5,999.19	89.9 10.
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21 Z22	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance Escalation Allowance, 2 Yrs	Γ - INCL EE	8.0 % 3.0 % IMATE - EXCLUDIN 10.0 % 15.0 % 10.0 %		0 55,800 \$ 160,500 65,000 8\$ \$ 223,200 368,200 282,300	2,006,200 225,500 2,231,700	150.00 431.45 174.73 600.00 989.78 758.87	5,393.01 606.18 5,999.19	89.9 10.7
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance	Γ - INCL EE	8.0 % 3.0 % IMATE - EXCLUDIN 10.0 % 15.0 %		0 55,800 \$ 160,500 65,000 :s \$ 223,200 368,200	2,006,200 225,500 2,231,700	150.00 431.45 174.73 600.00 989.78	5,393.01 606.18 5,999.19	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21 Z22	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance Escalation Allowance, 2 Yrs	F - INCL	8.0 % 3.0 % TIMATE - EXCLUDIN 10.0 % 15.0 % 10.0 % 5.0 %	IG ALLOWANCE	0 55,800 \$ 160,500 65,000 8\$ \$ 223,200 368,200 282,300 155,300	2,006,200 225,500 2,231,700	150.00 431.45 174.73 600.00 989.78 758.87	5,393.01 606.18 5,999.19	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21 Z22 Z23	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance Escalation Allowance, 2 Yrs Construction Allowance	F - INCL	8.0 % 3.0 % TIMATE - EXCLUDIN 10.0 % 15.0 % 10.0 % 5.0 %	IG ALLOWANCE	0 55,800 \$ 160,500 65,000 8\$ \$ 223,200 368,200 282,300 155,300	2,006,200 225,500 2,231,700 1,029,000	150.00 431.45 174.73 600.00 989.78 758.87	5,393.01 606.18 5,999.19 2,766.13	89.9 10.1
D13 D2 AN D21 D22 Z1 GE Z11 Z12 Z2 AL Z20 Z21 Z22 Z23	Electrical Site Services ICILLARY WORK Demolitions Interior Refresh NET BUILDING COS ENERAL REQUIREMENTS & F General Requirements Fee TOTAL CONSTRUCT LOWANCES Location Factor Design & Pricing Allowance Escalation Allowance Construction Allowance	T - INCL EE ION EST	8.0 % 3.0 % TIMATE - EXCLUDIN 10.0 % 15.0 % 10.0 % 5.0 %	IG ALLOWANCE	0 55,800 \$ 160,500 65,000 8\$ \$ 223,200 368,200 282,300 155,300	2,006,200 225,500 2,231,700 1,029,000 3,260,700	150.00 431.45 174.73 600.00 989.78 758.87	5,393.01 606.18 5,999.19 2,766.13	89.9



Appendix
A - Elemental Cost Summary

New Construction – Site Work



Project : Metchosin Fire Hall

: New Construction - Site Work.1

Report date : 8 Aug 2025

Page No. : 1 Bldg Type : 380

Location Owner : District of Metchosin **ELEMENTAL COST SUMMARY**

C.T. Index : 0.0

: Johnston Davidson Architecture Consultant

: Metchosin, BC

GFA : 3,021 m2

	Ratio	Eleme	ntal Cost	Elemental	Amount	Rate p	er m2	
Element	to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SHELL		3,021 m2			0		0.00	0.0
A1 SUBSTRUCTURE					0		0.00	0.0
A11 Foundations				0		0.00		
A12 Basement Excavation				0		0.00		
A13 Special Conditions				0		0.00		
A2 STRUCTURE					0		0.00	0.0
A21 Lowest Floor Construction				0		0.00		
A22 Upper Floor Construction				0		0.00		
A23 Roof Construction				0	_	0.00		
A3 EXTERIOR ENCLOSURE				0	0	0.00	0.00	0.0
A31 Walls Below Grade A32 Walls Above Grade				0		0.00 0.00		
A33 Windows & Entrances				0		0.00		
A34 Roof Coverings				0		0.00		
A35 Projections				0		0.00		
B INTERIORS		3,021 m2		Ü	0	0.00	0.00	0.0
B1 PARTITIONS & DOORS		0,021 112			0		0.00	0.0
B11 Partitions				0		0.00	0.00	0.0
B11 Paπitions B12 Doors				0		0.00		
B2 FINISHES				J	0	0.00	0.00	0.0
B21 Floor Finishes				0	U	0.00	0.00	0.0
B22 Ceiling Finishes				0		0.00		
B23 Wall Finishes				o o		0.00		
B3 FITTINGS & EQUIPMENT					0		0.00	0.0
B31 Fittings & Fixtures	1.000	3,021 m2	0.00	0	Ŭ	0.00	0,00	0.0
B32 Equipment	1.000	3,021 m2	0.00	0		0.00		
B33 Elevators		•		0		0.00		
C SERVICES		3,021 m2			0		0.00	0.0
C1 MECHANICAL					0		0.00	0.0
C11 Plumbing & Drainage	1.000	3,021 m2	0.00	0		0.00		
C12 Fire Protection	1.000	3,021 m2	0.00	0		0.00		
C13 HVAC	1.000	3,021 m2	0.00	0		0.00		
C14 Controls	1.000	3,021 m2	0.00	0		0.00		
C2 ELECTRICAL					0		0.00	0.0
C21 Service & Distribution	1.000	3,021 m2	0.00	0		0.00		
C22 Lighting, Devices & Heati	-	3,021 m2	0.00	0		0.00		
C23 Systems & Ancillaries	1.000	3,021 m2	0.00	0		0.00		
NET BUILDING CO	OST - EXCL	UDING SITE		\$	0		0.00	0.0
D SITE & ANCILLARY WORK		3,021 m2			790,000		261.50	89.9
D1 SITE WORK					790,000		261.50	89.9
D11 Site Development	1.000	3,021 m2	157.00	473,900		156.87		
D12 Mechanical Site Services	0.000	1 Sum	191,100.00	191,100		63.26		
D13 Electrical Site Services	0.000	1 Sum	125,000.00	125,000	_	41.38		
D2 ANCILLARY WORK					0		0.00	0.0
D21 Demolitions				0		0.00		
D22 Alterations				0		0.00		
NET BUILDING CO		UDING SITE		\$	790,000		261.50	89.9
Z1_GENERAL REQUIREMENTS	& FEE				88,800		29.39	10.1
Z11 General Requirements		8.0 %		63,200		20.92		
Z12 Fee		3.0 %		25,600		8.47		
TOTAL CONSTRU	CTION EST	MATE - EXCLUD	ING ALLOWANCE	ES \$	878,800		290.90	100.0
Z2 ALLOWANCES		40			405,200		134.13	
Z20 Location Factor		10.0 %		87,900		29.10		
Z21 Design & Pricing Allowand		15.0 %		145,000		48.00		
Z22 Escalation Allowance, 2 Y	rs	10.0 %		111,200		36.81		
Z23 Construction Allowance	0 .	5.0 %	No 411 63375 575	61,100	4 00	20.23	46- 66	
TOTAL CONSTRUC		MATE - INCLUDI	NG ALLOWANCE	S \$	1,284,000		425.02	
VALUE ADDED TAX (GST/HS				_	0		0.00	
Value Added Tax (GST/HS		0.0 %		0		0.00		
TOTAL CONSTRU	CTION EST	MATE		\$	1,284,000	\$	425.02	

Appendix
A - Elemental Cost Summary

Temporary Facility – Fire Hall



Project : Metchosin Fire Hall Report date : 8 Aug 2025

: New Construction - Temporary Facility
Page No. : 1

Location: Metchosin, BCELEMENTAL COST SUMMARYBldg Type: 380Owner: District of MetchosinC.T. Index: 0.0

Consultant : Johnston Davidson Architecture GFA : 824 m2

		Ratio	Elemen	tal Cost	Elemental Amount		Rate pe	erm2	
Elemen	t	to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SH	ELL		824 m2			0		0.00	0.0
B INT	TERIORS		824 m2			0		0.00	0.0
C SE	RVICES		824 m2			0		0.00	0.0
	NET BUILDING COST	F EXCLU	JDING SITE		\$	0		0.00	0.0
D SIT	E & ANCILLARY WORK		824 m2			2,710,300		3,289.20	89.9
D1 SIT	E WORK					300,000		364.08	10.0
D11	Site Development	1.210	1,000 m2	150.00	150,000		182.04		
D12	Mechanical Site Services	1.210	1,000 m2	75.00	75,000		91.02		
D13	Electrical Site Services	1.210	1,000 m2	75.00	75,000		91.02		
D2 AN	CILLARY WORK					2,410,300		2,925.12	80.0
D23	Quarters, 1 - 24' x 60'	0.160	134 m2	3,110.00	416,800		505.83		
D24	Apparatus Bay, 1 - 49' x 118'	0.660	540 m2	3,289.00	1,776,000		2,155.34		
D25	Decon Washroom Trailer, 12	x04050	45 m2	2,222.00	100,000		121.36		
D26	Gear Storage Trailer	0.050	45 m2	1,889.00	85,000		103.16		
D27	Steel Storage Container 4-20	0.070	60 m2	542.00	32,500		39.44		
	NET BUILDING COST	r - INCLU	DING SITE		\$	2,710,300		3,289.20	89.9
Z1 GE	NERAL REQUIREMENTS & F	EE				304,600		369.66	10.1
Z11	General Requirements		8.0 %		216,800		263.11		
Z12	Fee		3.0 %		87,800		106.55		
	TOTAL CONSTRUCT	ION ESTIM	MATE - EXCLUDI	NG ALLOWANCE	S \$	3,014,900		3,658.86	100.0
Z2 AL	LOWANCES					1,007,000		1,222.09	
Z20	Location Factor		5.0 %		150,700		182.89		
Z21	Design & Pricing Allowance		10.0 %		316,600		384.22		
Z22	Escalation Allowance, 2 Yrs		10.0 %		348,200		422.57		
Z23	Construction Allowance		5.0 %		191,500		232.40		
	TOTAL CONSTRUCT	ION ESTIM	MATE - INCLUDII	NG ALLOWANCE	s \$	4,021,900		4,880.95	
	TOTAL CONSTRUCT	ION ECTIN	AATE		\$	4,021,900	s	4.880.95	



Appendix
A - Elemental Cost Summary

Demolition of Existing Fire Hall Admin/Quarters Building



Project : Metchosin Fire Hall

: Metchosin, BC

Location

: Building Demolition - Admin/Quarter

Report date : 8 Aug 2025 Page No. : 1

ELEMENTAL COST SUMMARY Bldg Type : 380

Owner: District of MetchosinC.T. Index: 0.0Consultant: Johnston Davidson ArchitectureGFA: 530 m2

=:		Ratio	Elemen	ital Cost	Elementa	Elemental Amount		r m2	9/
Elemen	l	to GFA	Quantity	Unit rate	Sub-Total	Total	Sub-Total	Total	%
A SH	ELL		530 m2			0		0.00	0.0
A1 SU	BSTRUCTURE					0		0.00	0.0
A11	Foundations				0		0.00		
A12	Basement Excavation				0		0.00		
A13	Special Conditions				0	_	0.00		
	RUCTURE					0		0.00	0.0
A21	Lowest Floor Construction				0		0.00		
A22 A23	Upper Floor Construction Roof Construction				0		0.00 0.00		
	TERIOR ENCLOSURE				· ·	0	0.00	0.00	0.0
A3 LX	Walls Below Grade				0		0.00	0,00	0.0
A32	Walls Above Grade				ŏ		0.00		
A33	Windows & Entrances				Ō		0.00		
A34	Roof Coverings				0		0.00		
A35	Projections				0		0.00		
B INT	ERIORS		530 m2			0		0.00	0.0
B1 PA	RTITIONS & DOORS					0		0.00	0.0
B11	Partitions				0		0.00		
B12	Doors				0		0.00		
B2 FIN	IISHES					0		0.00	0.0
B21	Floor Finishes				0		0.00		
B22	Ceiling Finishes				0		0.00		
B23	Wall Finishes				0		0.00		
	TINGS & EQUIPMENT					0		0.00	0.0
B31	Fittings & Fixtures	1.000	530 m2	0.00	0		0.00		
B32	Equipment	1.000	530 m2	0.00	0	_	0.00		
	RVICES		530 m2			0		0.00	0.0
	CHANICAL				_	0		0.00	0.0
C11	Plumbing & Drainage	1.000	530 m2	0.00	0		0.00		
C12	Fire Protection	1.000	530 m2	0.00	0		0.00		
C13 C14	HVAC Controls	1.000	530 m2 530 m2	0.00	0		0.00 0.00		
	ECTRICAL	1.000	330 HZ	0.00	U	0	0.00	0.00	0.0
CZ ELI	Service & Distribution	1.000	530 m2	0.00	0	U	0.00	0.00	0.0
C21	Lighting, Devices & Heating		530 m2	0.00	0		0.00		
C23	Systems & Ancillaries	1.000	530 m2	0.00	0		0.00		
	NET BUILDING COST			0.00	\$	0		0.00	0.0
D SIT	E & ANCILLARY WORK	LAU	530 m2		Ψ	286,300		540.19	89.9
	E WORK		000 HE			200,000		0.00	0.0
ווכ וע D11	Site Development				0	U	0.00	0.00	0.0
D11	Mechanical Site Services				0		0.00		
D13	Electrical Site Services				o		0.00		
D2 AN	CILLARY WORK					286,300		540.19	89.9
D21	Demolitions/HAZMAT	1.000	530 m2	425.00	225,300		425.09		
D22	Building Footprint Restoration	n 1.000	530 m2	115.00	61,000		115.09		
	NET BUILDING COST	Γ - INCL	UDING SITE		\$	286,300		540.19	89.9
Z1 GE	NERAL REQUIREMENTS & F	.,			•	32,200		60.75	10.1
Z11	General Requirements		8.0 %		22,900		43.21		
Z12	Fee .		3.0 %		9,300		17.55		
	TOTAL CONSTRUCT	ION EST	IMATE - EXCLUDI	NG ALLOWANC	ES \$	318,500		600.94	100.0
Z2 AL	LOWANCES					106,300		200.57	
Z20	Location Factor		5.0 %		15,900		30.00		
Z21	Design & Pricing Allowance		10.0 %		33,400		63.02		
Z22	Escalation Allowance, 2 Yrs		10.0 %		36,800		69.43		
Z23	Construction Allowance		5.0 %	1	20,200		38.11		
	TOTAL CONSTRUCT	ION EST	IMATE - INCLUDI	NG ALLOWANCE	S \$	424,800		801.51	
_ VA	LUE ADDED TAX (GST/HST)					0		0.00	
	Value Added Tax (GST/HST)		0.0 %		0		0.00		
	TOTAL CONSTRUCT	ION EST	IMATE		\$	424,800	\$	801.51	



Appendix B – Basis and Assumptions for Class D Estimate



BASIS OF CONSTRUCTION BUDGET

A - SHELL

A1 - SUB STRUCTURE

A11 – Foundation

- Conventional strip and pad footings design and meet post disaster standards
- Waterproofing membrane, drainage mat and cement parging to the exterior face of the perimeter foundation wall
- Perimeter weeping tile, precast sump pit and connection to existing sewer system
- Foundation upgrade to existing Apparatus Bay by adding seven new reinforced concrete buttresses around the exterior

A13 - Special Conditions

- Allowed dewatering during construction and ESC
- Soil anchors to new foundation to existing Apparatus Bay
- Geotechnical consideration (excluded)

A2 - STRUCTURE

- GLULAM post and beam c/w metal rood decking meet post disaster standards a 1.5 importance factor which primarily applies to the structure (R1 asembly)
- Conventional wood stud framing to partition and exterior envelope
- Wood frame construction to 2nd floor and mezzanine (F2A floor assembly)
- Structural upgrade to existing Apparatus Bay based on Herold Engineering design recommendation.

A3 - Exterior Enclosure

- Metal cladding exterior walls, WT-1B assembly wood stud exterior wall, with cavity-filled batt insulation & vapour barrier, structural sheathing, vapour permeable barrier, strapping/air space
- Standing seam metal roof cladding c/w back-up roof system, R1 assembly
- Aluminum framed curtain walls at the main entrance, aluminum frame windows and entrances.
- Allowed automatic door operator to main entrances
- Insulated hollow metal doors to entrances and apparatus bay overhead doors
- Perimeter roof parapet and roof overhang/canopy to main entrances
- Upgrade exterior wall and roof envelope of existing Apparatus Bay

B-INTERIORS

B1 – Partition and Doors

- Interior partitions are anticipated to be convectional 2x6 wood framed walls, with acoustic batt in cavities where required.
- All drywall to be 5/8" type 'x' grade
- All interior doors to be hollow metal doors/solid core doors with standard door frame and hardware
- Allowed automatic door operator to vestibule entrance
- All partitions and doors to the existing Apparatus bay to remain.



B2 - Finishes

- Standard floor finishes similar Fire Hall Station. Allowed ceramic floor tiles to washrooms and wet areas.
- Standard ceiling finishes similar Fire Hall Station. Paint to underside of structure to Apparatus Bay and service rooms.
- Refresh floor, ceiling and wall finishes for the existing Apparatus Bay

B3 – Fittings and Equipment

- Millwork to Admin, Operation and Quarters
- Washroom / Shower / Janitor accessories
- Specialties (gear lockers, storage lockers, entrance floor grille, etc)
- Interior / Building exterior signage
- Furnishing (window & CW blinds)
- Miscellaneous metals (millwork supports, guard rails, ladder, etc.)
- Kitchen and Laundry appliances
- Exercise/Gym equipment
- Existing decontamination equipment (gear washer/dryer, portable decontamination system, hazmat decon shower & boots and SCBA decon washer) to the Apparatus Bay to remain
- Other loose furniture, fixture and equipment (FF&E) excluded.

C – BUILDING SERVICES

C1 - Mechanical

- Domestic, sanitary and storm drainage piping c/w plumbing fixtures
- Wet sprinkler system to building
- Pre-action sprinkler system to communication and radio rooms
- HVAC system (heating, cooling and ventilation), HRV and VRF systems and electric heating c/w digital controls
- New Nederman vehicle exhaust extraction system to existing Apparatus Bay
- Upgrade mechanical system compliant to current building code to existing Apparatus bay

C2 - Electrical

Service distribution c/w main breaker, feeder, and grounding.

- Allowed back-up power system (Battery or Generator)
- LED lighting, exit emergency lighting, power outlets, direct electrical and mechanical motor connections.
- Fire alarm system, I/T communication system and security CCTV system
- Fire station alerting system c/w tower antenna, fibre optic cabling, paging system, network infrastructure, etc assumed existing to remain
- Upgrade mechanical system compliant to current building code to existing Apparatus bay
- PV solar system (excluded)



D - SITE WORK

D11 – Site Development

- Site preparation (clearing, grubbing and stripping)
- Asphalt pavement to driveway and parking area.
- Concrete pavement to entrance/rear approach to Apparatus Bay
- Service genset equipment pad
- Minor landscaping / Irrigation system
- Site furnishing, fencing, safety bollards, garbage enclosure, etc.

D12 - Mechanical Site Services

- Incoming water service connection
- Sanitary service connection
- Site storm drainage services and connection to existing

D13 - Electrical Site Services

- Incoming power and communication service connections.
- Site lighting and power outlets
- Electric vehicle EV charging station, allowed 2 no.
- Electrical infrastructure for Genset and connections.
- Genset Equipment (Excluded)

D2 – ANCILLARY BUILDING

D20 - Hose Tower

- 5 level of concrete frame hose tower
- Design as per Salt Spring Island Firehall No. 1 Hose Tower design

SEPARATE PRICING

- 1. Temporary Facility (refer to project requirements as specified in the reference documents)
- 2. Demolition of existing Fire Hall Admin/Quarters building including hazmat abatement and required restoration of building footprint to receive new development.



Appendix AA - Documents and Drawings List



DOCUMENTS AND DRAWING LIST

DOCUMENTS AND DRAWINGS

Title	Dated	Received
Building requirements / specific (via email message)	June 27, 2025	June 27, 2025
MFH preferred options	Mar 19, 2025	July 4, 2025
Architectural Assemblies	July 2025	July 7, 2025
Architectural Hose Tower	July 2025	July 7, 2025
Metchosin Fire Hall – Program R	July 2025	July 7, 2025
MFH existing drawings (Apparatus Bay)	Feb 06, 2025	July 7, 2025
MFH existing facility & gap study	Jan 23, 2025	July 7, 2025
MFH existing Fire Hall	July 22, 2025	July 7, 2025
Metchosin Temp. Facility Requirements	July 10, 2025	July 10, 2025
Additional documents related to Option – renovation/upgrade existing Apparatus Bay to remain - Project scope requirement, email - Program layout option 3.2 - Structural Report by Herold Engineering	July 22, 2025 July 25, 2025 July 8, 2025	July 28, 2025



Appendix AB - Representative Drawings



PROGRAM LAYOUT - OPTION 3.2





reuse of existing app bay with new additions





feasibility study

District of Metchosin Metchosin Firehall

program layout option 3.2

SPACE PROGRAMS

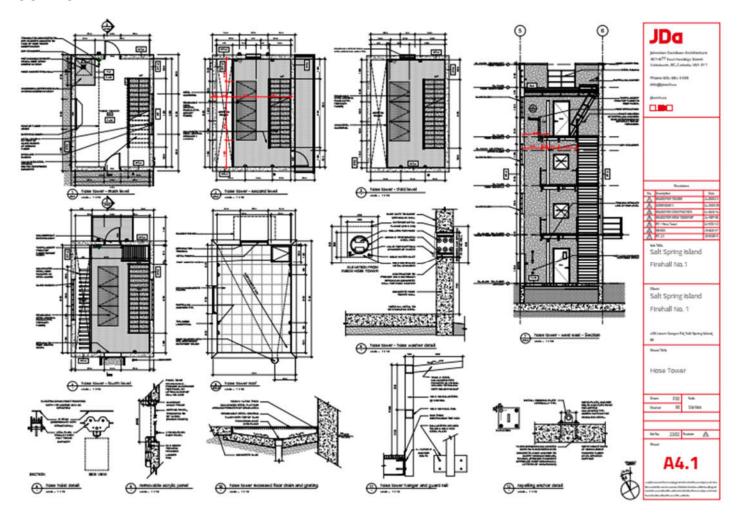
me	metchosin firehall										
Spac	e Program			Existing Firehall	Existing Firehall	Proposed Program	Proposed Program				
		OFF		AREA	NET AREA	NET AREA					
HER	Areas		wse	9	SM	9	SM	Spatial Comments	Functional Comments		
	PUBLIC AREAS							Not much of defined entry currently - location has			
	Frant entry			0.00	0.00	215.20	20.00	inherent conflicts with fire department vehicle response.			
P-2	Weather Vestitule Public Accessible Washroom			0.00	0.00	215.20 107.60	10.00	Accessible weeknoom	Berfisse for energy efficiency.		
	Community meeting room			0.00	0.00	322.80	30.00	Accessed directly from the entry and possibly in front of the secure point.	16 pumple		
									To pade		
	Sub Total	0	0	0.00	0.00	688.64	54,90				
E-1	Radio Room / Office			0.00		107.60					
E-1	ESS Director Office Radio Room Equip/Storage			0.00	0.00 0.00	107.60	10.00				
	Sub Total	0	0	0.00	0.00	322.80	30.00				
	FH - ADMIN							1			
A-2	Fire Chief Office Officer's Office			274.38 109.75	25.50 10.20		18.00	Desk space plus meeting table.			
	Utrary			138.80	12.90	0.00	0.00		Deputy Chief, FPO, Training Officer, Captain/Shift		
A-G	Mac, Office Administrator Assist, Front Deal.			0.00	0.00	161,40 294,44	15.00		Officer		
A-7	Washrooms			27.96	2,60	32.28	3.00	Washrooms a single occupant without showers. NEW: as rolled above.	Gender reutral weekrooms. Numbers are estimated but will need to be reviewed with BCSC review.		
A-8	Wwwhroom	Н		0.00	0.00	32.28	3.00		"Computer Room" se noted on Firehall needs review.		
A-0	General Admin Office Space			0.00	0.00	150.64	14.00	4 Workstellone for crew - 38ef per person. (6 x 6 stellon)	Ounsil purpose with admin assistant/front desk - could have counter to lobby.		
A-10 A-11	General Admin Office Space Office Supplies / Copy Room File Storage Room			0.00	0.00	64.56 86.00	6.00 8.00		Could combine with Office Supplies / Copy		
	Sub Total		0	550.91	51.20	1,054.48	98.00				
			Ė	230.21			74.10				
	FH - OPERATIONAL AREAS		\vdash	-	-						
0-1	Apparatus Bays			3,077.36	286.00	6.00	5.00	NEW: Inakte dimensions shown. Narrower bays are to designate inside bays. Based on overall stre of 21.5m. wide X 27.5m long inside dear.			
0-2	2 tarsiem drive Prough bays @ 5.6 (18.4) W x 25m(85.3) L = 313.6am			0.00	0.00	3,133.31	291,20				
0-3	(18.4) W x 26m(85.3) L = 313.6am 1 tarstem drive through bays (§ 5.2 (17.1) w x 26m (85.3) L = 291.3am			0.00	0.00	1,454.75	135.20				
	SCBA Room			0.00	0.00	161.40	15.00	NEW: this apace is allocated to SCSA repair and filling only - Filling Station to be accommoduled. Washbown and Drying is accounted for in the spaces as noted before.			
			- 1	0.00				Compressor Room to be separate from SCBA Room to manage the noise.	This room should be within reasonable access to the enterior for outside air and close to the SCSA Room.		
0-6	Compressor Room			0.00	9.00	197,80	10.00		The room can accommodate geer washer, geer dryer, washdown counter, and SCSA Ultrasoric dearing		
04	Decorit/ ashdown	_		0.00	0.00	215,20	20.00	Common weakdown area for cleaning of SCBA equipment, galar and uniforms when contaminated.	washitown counter, and SCSA Ultrasprác deaning equipment. Discuss location and purpose of the rip and run room to limit travel time and proper flow. Alternately is there		
0-7	Rip and Run Area			0.00	0.00	107.60	10.00		to limit travel time and proper flow. Alternately is there depatch at this location?		
	General Storage Gener Storage Room (40 units)			0.00	0.00	107,60	10.00	48 gear lockers + 5, 34" a 30", Locker apacing counted 1.5 am per locker to accommodate chroatelon, (1.2em per 25" wide locker)	In it required to allow for enough room for Turnouts plus the Wildfundshoecus biggs as well? - Note that Ready Rock has max, 24" width and Gear Grid has max 35" width.		
0.12	Decon Washroom			0.00	0.00	322.80	70.00	Washroom with shower on the dirty side of the half 4			
	Utility / Janitor's Room (drly)			0.00	0.00	80.70	20.00	Separate workshop so we do not mix deen and dirty	Mop stroage and drip drain. If additional space is needed the open mezzanine may		
	Workshop Flat Aid Storage	_		602.56	56.00	215.20	30.00	with SCBA.	te available		
						51.80		Separate dedicated storage room/closer.	racks (Ex3' - 3 total) to be stored at hase of hose		
O-17	Hose Tower (footprint) Secure Strage			120.51	11,30	355.08 107.60	33.00 10.00	Hose Drying + Training Tower. Restricted access	Daw.		
0-28	Maczanina Storage			0.00	0.00	161,40	15.00	To Se Celemined.			
0-22	Gear DryfWash Room			0.00	0.00	269.00	25.00	Gear Dryer(s) Gear Washer			
0-24	Hacklot Gear			0.00	0.00	215.20	20.00	FD confirmed that space is required.	yes for storage of Hacmat equipment and training suites Storad in Turnout gear room as long as enough space.		
0-25	Second Set of Gear + Wildland / Rope Rescue Stonege			0.00	0.00	0.00	940	24"x 32" gear storage tockers. Each tocker stores 5 bags for second set of gear x 2 for circ = 7am	service in Largos ger room as any as enough species in each individual locker. Or separate room adjacent to for feet access - Wildland geer accommoduled with 30' geer locker.		
04	Mose Storage			0.00	6.00	0.00	0.00	Main Pitor storage (example for discussion) 12 lengths 1.75*(5000) 10 lengths 2.5* (1000 II) 13 lengths of 4* (1000 II) Estimate of racts only at this stage. MFD to confirm number of racts only at this stage. MFD to confirm	dient preffers for hose storage racks to be located stifn tose of hose toser - otherwise require 10cm.		
				3,800.43	353.20	7,283.44	676.90		The state of the s		
				2,000,43	332.20	-,262.55	276.30				



met	chosin firehall								R	
				Existing	Existing	Proposed	Proposed			
Space	Program			Firehall	Firehall NET AREA	Program NET AREA	Program NET AREA			
		OFF				000		10 1000		
тем	Areas		WS#	SF	SM	SF	SM	Spatial Comments	Functional Comments	
	FH - QUARTERS									
									Need to be able to accompose all dayshift staff including non-frefighter staff., See list above. To be	
									located on main floor and to accommiste public	
0-1	Kitchen / Diring			309,89	28.80	667,12	en en	Sealing for 10° required, 4 events Accommodate 4 people + equipment, To seet 36 minimum in a classroom layout, Existing Domes	evertalengagements. (incorporates role of existing Great, Rm.	
Q-2	Exercise Room / Health and Wellness			677.88	63.00	645.60	60.00	Accommodate 4 people + equipment.	Includes small closel for storage.	
0-3	Training Room			419.64	39.00	860.80	80.00	To seel 36 minimum in a classroom layout.		
2-4	Extering Sleeping Quarters Correlation (Vulti BedLockers - 4	-	_	500.34	46.50	0.00	0.00	Existing Dorms NEW: 4 Gender Neutral Individual Dorms each Sam		
2-5	doma)	\perp		0.00	0.00	355.08	33.00	which accommodate 6 - 21/2 tockers. (6 shifts of 4)		
0-6	Men and Women's Showers			200.14	18.60	0.00	0.00	Changed to gender neutral washrooms as noted below.		
-		-	-				0.00	NEW; 2 Single use, gender reutral, weakyoons with		
2-7	Washrooms (Gender Neutral)	$ldsymbol{ldsymbol{eta}}$		0.00	0.00	161,40	15.00	showers. Each washroom is at 7.5am.		
	Day Room	\vdash	_	0.00	0.00	215.20		To accommodate single shift of 4.	and death of distance was	
2-9	Training Room Storage	\vdash	-	0.00	0.00	32.26	3.00	Primarily for storage of tables and chairs.	Located directly off of training room. This is needed on the clean side of the hall to help	
								Residential washer and dryer * standing height	maintain tack of cross over of contaminated uniform	
3-10	Utility Rm / Laundry	_	_	173.24	16,10	75.32	7.00	counter with storage, Room also has mop sink.	and badding. To be located on main floor.	
11-6	Great Room	\vdash	_	932.89	86.70	0.00	0.00			
-12	Society	-	-	570.28	53.00	0.00	0.00			
	Sub Total	0		3,784.29	251,70	3,012.80	280.00			
								3		
	CIRCULATION Star #1	\vdash	-	107.00	10.00	900.00	30.00			
	Star #2	\vdash	-	107.60	10.00		30.00			
	Stair #3 - Storage Stair (Apparatus Bay		-				1000			
C-3	Mezzanine) Corridor (Main Floor)	\vdash	-	81.16 131.27	7.54	99.18	5.50	Included in Mark-Up		
	Corridors (Second Floor)	\vdash		0.00	0.00			Included in Mark-Upm (current is included in 500sf)		
	Sub Total		0	320.03	29,74		65.50			
	SERVICE SPACES	-	_							
	Mechanical Room			0.00	0.00	269.00	25.00	currently in main floor junitors room		
94	Electrical Room			0.00	0.00	161,40		currently panels on wall in chief's office		
	Storage Closet (Second Floor)			0.00	0.00	75.32	7.00			
	Jaretor room (Main Floor)			27.98	2.60	53.80	5.00			
_	Jeritor room (Second Floor)	\vdash	-	95.84	9.00	53.80 86.08	5.00			
	Storage Closet (Main Floor) Com Room (Services Demark)	-		0.00	0.00	75.32	7.00			
	Water Entry Room			0.00		75.32	7.00			
								Data Cleart for FH does not include server room		
	IT / Data Closet	_	_	0.00	0.00	21.52	2.00	Andisna.		
	Backup Server Room	\vdash	-	0.00	0.00	0.00	0.00			
_	Sub Total			124.82	11.60	871.56	81.00			
\neg										
=	Building Total (Pre Mark-up) am			8,580.49		13,938.50	1,295.40	<u> </u>		
	Mark-up 25%			1,716.10	159.49	2,787,70	321.98			
-	Mark-up 10% (Apparatus Bays)		_	429.02		0.00	0.00			
	TOTAL FIREHALL			10,725.61	985.53	16,726.28		ii		
	0.000.000.000									
	black text			Functional Program Requirements - Items that are critical to the successful delivery and operation of the new Fire Hell. The Protect will not be successful without these terms						
_	red text		-	Fire Hall, The Project will not be successful without these items. Secondary Requirements - Items not identified in the RFP but are deemed necessary as part of the client.						
_		\vdash	_	discussions or to meet the operational requirements. To Be discussed - items deemed important, but not essential. These items do not have areas noted yet in						
	blue text			scool, but are for discussion .						
_	tilus text			Added comments from FD - herrs deemed important and added or adjusted as needed to meet FD comments.						



HOSE TOWER

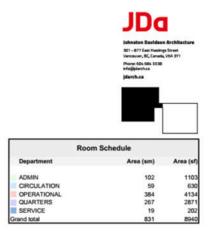


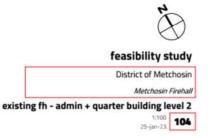


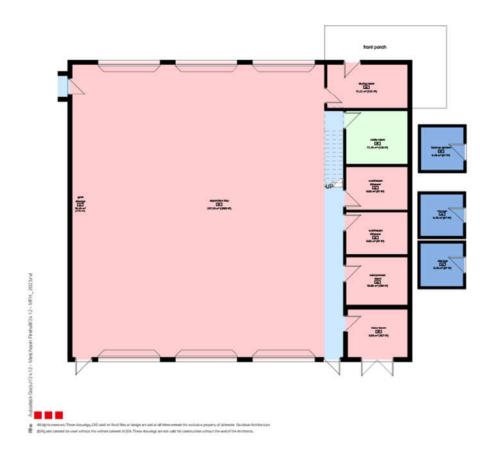
EXISTING BUILDINGS

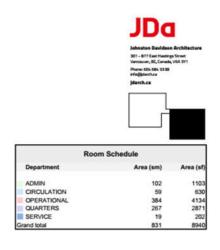












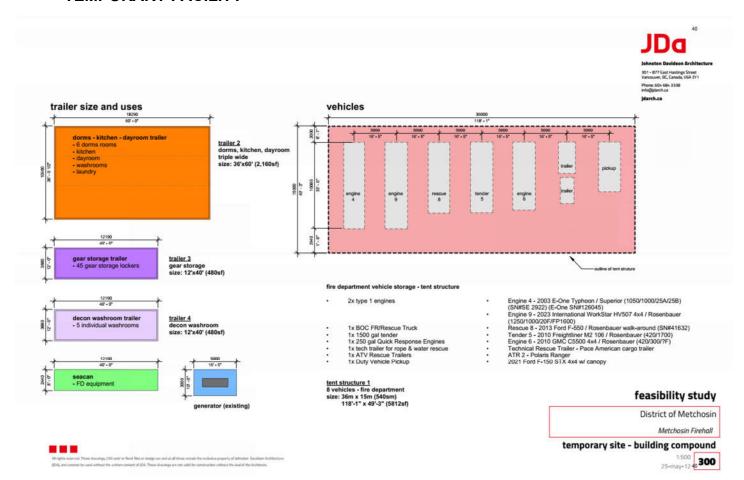


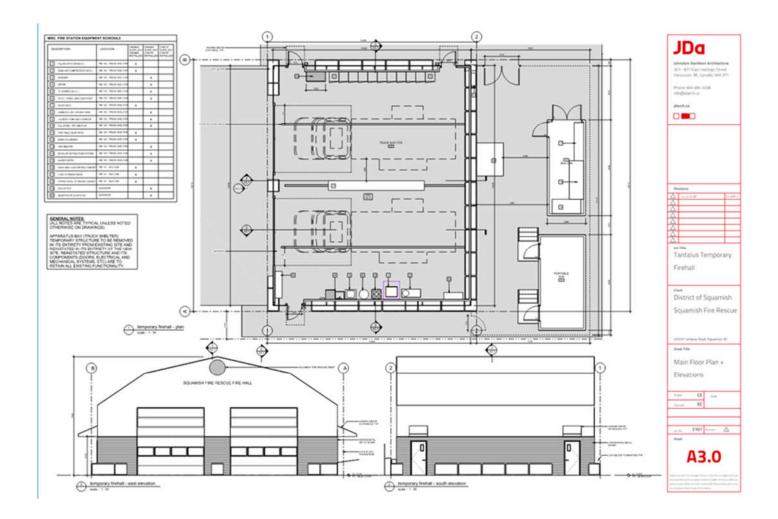
feasibility study

District of Metchosin

existing fh - app bay

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