

Invitation to Tender

TARRY'S FIRE HALL WINDOW REPLACEMENT PROJECT PRJ24054

ADDENDUM NO. 1

Issued: May 15, 2025

Closing Date: 2:00 pm Local Time, May 28, 2025

This Addendum shall be read in conjunction with and considered as an integral part of the Contract Documents; revisions supersede the information contained in the original specifications or previously issued Addendum. Price submitted shall include all items of this Addendum.

By this **Addendum No. 1**, dated May 15, 2025, the Invitation to Tender documents for the PRJ24054 shall be amended as specified below.

CLARIFICATIONS:

- 1: Schedule A - Architectural Drawings prepared by Stand Architecture are attached.
- 2: Hazardous Materials Survey Report prepared by Western Canada Safety Services Ltd is attached.

Except as modified by Addendum No. 1 issued May 15, 2025, the Invitation to Tender documents for PRJ24054 shall remain unchanged.

Carolyn Hogan
Project Manager

Attachments: Architectural Drawings
Hazardous Materials Survey Report

- END OF DOCUMENT -

24017-TARRYS FIRE HALL

ISSUED FOR BUILDING PERMIT
2025-04-21

STAND
ARCHITECTURE

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250.219.1879

3457 Bedford Road
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V1L6K7

PROJECT NAME

24017-TARRYS FIRE HALL

ADDRESS

2103 HIGHWAY 3A
TARRYS BC
V1N 4N1

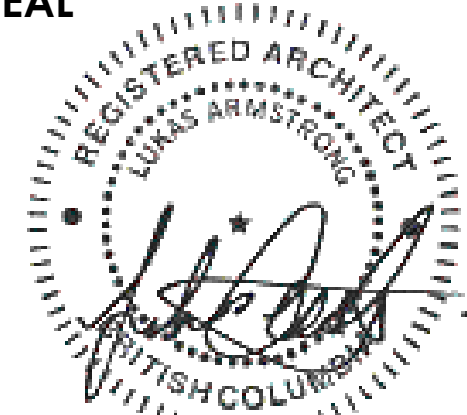
CLIENT

OWNER

DRAWING NOTES

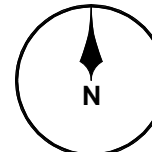
IMAGES ON THIS DRAWING ARE INCLUDED
FOR CONCEPTUAL UNDERSTANDING ONLY
AND ARE NOT TO BE USED FOR
CONSTRUCTION REFERENCES.

SEAL

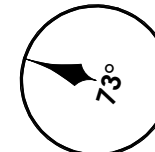


2025-04-22

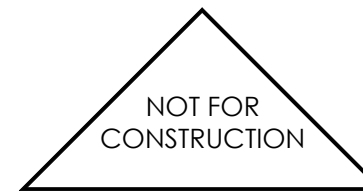
SITE



PLANS



USE



REVISIONS/HISTORY

DATE	NUMBER	DESCRIPTION
2025-04-21	0	ISSUED FOR BUILDING PERMIT

SHEET NAME

COVER

SHEET NO.

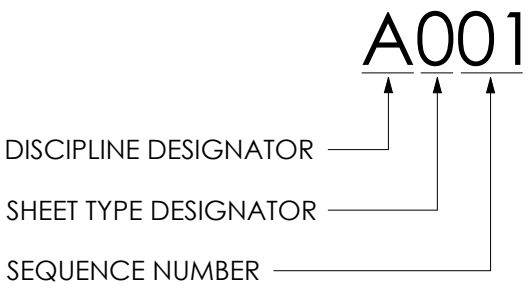
A000

REV. NO.

DRAWING INDEX

A000	COVER
A001	GENERAL
A100	SITE
A101	PLANS
A200	ELEVATIONS
A602	TAGS

SHEET IDENTIFICATION



DISCIPLINE DESIGNATORS

G	GENERAL
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECICAL
R	RESOURCE INFORMATION

SHEET TYPE DESIGNATORS

0	GENERAL
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	LARGE SCALE VIEWS
5	DETAILS
6	SCHEDULES AND DIAGRAMS
7	TYPICAL DETAILS
8	RESERVED
9	PERSPECTIVES AND PHOTOS

GENERAL NOTES

- THE "WORK" INCLUDES AND IS NOT LIMITED TO THESE DRAWINGS, SUBCONSULTANT OUTPUT, REPORTS, TESTING, PROCUREMENT, PRODUCT DATA, PERMITTING, EXISTING CONDITIONS, MOBILIZATION, DEMOLITION, CONSTRUCTION, CLEAN UP, DISPOSAL, AND COMMISSIONING.
- THESE DRAWINGS ARE NOT ACCOMMODATED BY MASTER FORMAT SPECIFICATIONS. A QUALIFIED, CAPABLE, AND REGISTERED RED SEAL CONTRACTOR IS TO CARRY OUT THE WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, STANDARDS, LAWS, AND REGULATIONS.
- THESE DRAWINGS ARE INTENDED TO BE PRINTED IN COLOUR.
- THESE DRAWINGS ARE NOT INTENDED TO BE SCALED.
- WRITTEN TEXT TAKES PRECEDENCE OVER DRAWINGS.
- ALL EXTERIOR DIMENSIONS ARE REFERENCED FROM THE OUTSIDE FACE OF SHEATHING OR OUTSIDE FACE OF CONCRETE, TYPICALLY IDENTIFIED BY GRIDS.
- ALL INTERIOR DIMENSIONS ARE REFERENCED FROM THE WALL STRUCTURE CENTRELINE.
- DEPICTION OF NATURAL ELEMENTS, INCLUDING GRADE AND EXISTING CONDITIONS ARE APPROXIMATE. THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO ACHIEVE INTENDED DESIGN.
- CONTRACTOR TO COORDINATE WITH THE DESIGNER ANY MISSING ELEMENTS, DEFICIENCIES, AND DISCREPANCIES WITHIN THESE DRAWINGS AND IN RELATION TO THE REMAINDER OF THE ITEMS DEFINED UNDER THE WORK PRIOR TO CARRYING OUT THE WORK.
- ALL PERMITS ARE TO BE ISSUED PRIOR TO CARRYING OUT THE WORK.
- ALL DRAWINGS AND SUBCONSULTANT OUTPUT TO STATE ISSUED FOR CONSTRUCTION" PRIOR TO CARRYING OUT THE WORK.
- COORDINATE HAZARDOUS MATERIALS ASSESSMENTS PRIOR TO CARRYING OUT THE WORK.
- SUB-GRADE CONDITIONS AND SERVICES TO BE LOCATED PRIOR TO EXCAVATION. PROCEED WITH INSTRUCTION FROM THEIR PERTAINING DISCIPLINES.
- THE WORK IS TO BE CONFINED TO THE SITE ADDRESS INDICATED ON THESE DRAWINGS, BE PROTECTED FROM THE PUBLIC, AND NOT IMPACT ADJACENT SITES.
- THE WORK IS TO NOT DISRUPT ANY WATERCOURSES OR OTHER RIPARIAN AREAS ON THE SITE OR ADJACENT PROPERTIES WITHOUT CONSENT FROM A QUALIFIED ENVIRONMENTAL PROFESSIONAL.
- BUILDING TO BE LOCATED BY A QUALIFIED SURVEYOR REGISTERED UNDER THE SAME PROVINCE AS THE BUILDING. COORDINATE LOCATION WITH CONSULTANT TO ENSURE BY-LAW CONFORMITY.
- UNANTICIPATED CONCEALED CONDITIONS ARE TO BE REVIEWED BY CONSULTANT PRIOR TO PROCEEDING.
- PROGRESS OF THE WORK TO BE REGULARLY REVIEWED AND PRIOR TO CONCEALING BY CONSULTANTS AND AUTHORITY HAVING JURISDICTION.
- ANY ALTERATIONS OR DEMOLITION TO EXISTING CONDITIONS TO BE RESTORED TO THEIR ORIGINAL CONDITION AND APPEARANCE.
- GEOTECHNICAL ENGINEER TO REVIEW AND REPORT SOIL LOAD BEARING CAPACITY.
- STRUCTURAL ENGINEER TO VERIFY ADEQUACY OF EXISTING STRUCTURAL ELEMENTS AND PROVIDE INSTRUCTION ON THEIR ALTERATION OR TEMPORARY SUPPORT.
- STRUCTURAL ENGINEER TO DESIGN RETAINING WALLS GREATER THAN OR EQUAL TO 4'0" (1,200.0 MM).
- NEW BUILDINGS TO CONFORM TO ENERGY PERFORMANCE REQUIREMENTS PRODUCED BY ENERGY MODELLER.
- MECHANICAL AND ELECTRICAL ITEMS ARE INCLUDED FOR GENERAL LOCATION PURPOSES ONLY. THEY ARE TO BE DESIGNED AND INSTALLED TO BY THEIR RESPECTIVE QUALIFIED DISCIPLINES.
- ALL PENETRATIONS TO BE DESIGNED AND INSTALLED AS GUIDED BY FIRESTOPPING SHEET INCLUDED IN THIS SET IF APPLICABLE.
- ALL PRODUCTS PROCURED ARE TO CONFORM TO SUPPLIER/MANUFACTURER'S SPECIFICATION. SHOULD THEIR SPECIFICATION ALTER THE DESIGN, COORDINATE WITH CONSULTANT.
- SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO FRAMING, OPENINGS, AND FIRESTOPPING ARE TO BE ISSUED TO THE CONSULTANT FOR REVIEW PRIOR TO CARRYING OUT THE WORK. THE CONSULTANT'S REVIEW DOES NOT ALLEVIATE THE CONTRACTOR FROM ENSURING THEY CONFORM WITH THE DESIGN.
- CONTRACTOR TO PROVIDE ALL NECESSARY BRACKING, BACKING, AND FRAMING TO ACCOMMODATE PRODUCTS.
- PRODUCTS CONTAINING A SURFACE FLAME SPREAD RATING HIGHER THAN 150 ARE TO BE REVIEWED BY CONSULTANT PRIOR TO ORDERING AND INSTALLING.
- ALL WET LOCATIONS TO HAVE MOISTURE-RESISTIVE FINISHES AND PRODUCTS.
- COORDINATE WITH CONSULTANTS SHOULD ANY ITEMS ABOVE IMPACT THE DESIGN OR REQUIRE FURTHER INSTRUCTION PRIOR TO CARRYING OUT THE WORK.
- ANY CHANGES TO THE DESIGN ARE TO BE PROVIDED IN WRITING. VERBAL INSTRUCTION IS TO BE FORMATTED IN WRITING AND APPROVED BY THE AHJ (IF APPLICABLE) PRIOR TO EXECUTION.

ABBREVIATIONS

A.B.	AIR BARRIER	F.P.	FIREPLACE	PROJ.	PROJECTION
A.C.P.	ACOUSTIC CEILING PANELS	F.R.R.	FIRE RESISTANCE RATING	R.C.P.	REFLECTED CEILING PLAN
A.G.	ABOVE GRADE	FDN.	FOUNDATION	R.D.	ROOF DRAIN
A.H.J.	AUTHORITY HAVING JURISDICTION	G.L.	GRID LINE	R.O.	ROUGH OPENING
A.V.M.	AIR, VAPOUR, & MOISTURE BARRIER	G.W.B.	GYPSUM WALL BOARD	R.W.L.	RAIN WATER LEADER
ADJ.	ADJACENT	GA.	GAUGE	RAD.	RADIUS
ALT.	ALTERNATE	GLAM.	GLUE-LAMINATED	REIN.	REINFORCED
ALUM.	ALUMINUM	H.S.S.	HOLLOW STRUCTURAL SECTION	REQ.	REQUIRED
APP.	APPLANCE	H.W.	HOT WATER TANK	REV.	REVISION
APPROX.	APPROXIMATE	HORIZ.	HORIZONTAL	RM.	ROOM
B.G.	BELOW GRADE	HR.	HOUR.	S.B.	SETBACK
B.U.	BUILT UP	I.F.	INSIDE FACE	S.F.D.	SINGLE FAMILY DWELLING
B&B	BOARD AND BATTEN	I.H.	INTERIOR HEALTH	S.H.G.C.	SOLAR HEAT GAIN COEFFICIENT
BLDG.	BUILDING	I.P.	IRON PIN	S.O.G.	SUB-ON-GRADE
BOT.	BOTTOM	INS.	INSULATION	S.P.F.	SPRUCE-PINE-FIR
C.B.	CATCH BASIN	INT.	INTERIOR	S.S.	SECONDARY SUITE
C.G.	CORNER GUARD	L.D.	LIMITING DISTANCE	S.T.C.	SOUND TRANSMISSION CLASS
C.I.	CONTRACTOR INSTALLATION	L.V.L.	LAMINATED VENEER LUMBER	SAN.	SANITARY
C.I.P.	CAST-IN-PLACE	LAV.	LAVATORY	SF	SQUARE FEET
C.L.	CENTER LINE	M	METER	SIM.	SIMILAR
C.M.U.	CONCRETE MASONRY UNIT	M.D.F.	MEDIUM DENSITY FIBREBOARD	SPEC.	SPECIFICATION
C.W.	COMPLETE WITH	M.F.D.	MULTIPLE FAMILY DWELLING	SQ.	SQUARE
CIRC.	CIRCULATION	M.H.	MANHOLE	STD.	STANDARD
COL.	COLUMN	MAX.	MAXIMUM	STOR.	STORAGE
CONC.	CONCRETE	MECH.	MECHANICAL	STRUC.	STRUCTURAL
CONT.	CONTINUOUS	MEZZ.	MEZZANINE	T.B.D.	TO BE DETERMINED
CORR.	CORRIDOR	MIL.	1/1000 IN.	T.D.	TRAVEL DISTANCE
D.	DRYER (CLOTHES)	MIN.	MINIMUM	T.J.I.	TRUS I-JOIST
D.S.	DOWNSPOUT	MIN.	MINUTE	T.O.	TOP OF
D.W.	DISH WASHER	MISC.	MISCELLANEOUS	T.V.	TELEVISION
DIA.	DIAMETER	MM	MILLIMETERS	T&G	TONGUE AND GROOVE
DN.	DOWN	N.A.	NOT APPLICABLE	TEMP.	TEMPORARY
N.I.C.	NOT IN CONTRACT	N.I.C.	NOT IN CONTRACT	TYP.	TYPICAL
N.T.S.	NOT TO SCALE	N.T.S.	NOT TO SCALE	U.G.	UNDERGROUND
E.B.F.	EXPOSING BUILDING FACE	NO.	(#)NUMBER	O.I.	OWNER INSTALLATION
E.W.	EACH WAY	O.A.E.	OR APPROVED EQUIVALENT	U.N.O.	UNLESS NOTED OTHERWISE
EA.	EACH	O.C.	ON CENTER	U.O.	UNPROTECTED OPENING
EL.	ELEVATOR	O.F.	OUTSIDE FACE	U.S.	UNDERSIDE
ELEC.	ELECTRICAL	O.S.	OWNER SUPPLY	V.B.	VAPOR BARRIER
ELEV.	ELEVATION	O.S.B.	ORIENTED STRAND BOARD	V.I.	VENDOR INSTALL
ENG.	ENGINEERED	O.W.S.J.	OPEN WEB STEEL JOIST	VERT.	VERTICAL
EQ.	EQUAL	P.L.	PROPERTY LINE	VEST.	VESTIBULE
EQUIP.	EQUIPMENT	P.P.	POWER POLE	VOL.	VOLUME
EXIST.	EXISTING	P.S.L.	PARALLEL STRAND LUMBER	W.	WASHER (CLOTHES)
EXT.	EXTERIOR	P.T.	PRESSURE TREATED	W.C.	WATER CLOSET
F.	FURNACE	P.V.C.	POLYVINYL CHLORIDE	W.C.B.	WORKERS' COMPENSATION BOARD
F.D.	FLOOR DRAIN	PLAM.	PLASTIC LAMINATE	W.D.	WASHER AND DRYER (CLOTHES)
F.F.	FINISHED FLOOR	PLY.	PLYWOOD	W.H.	WATER HEATER
		POLY.	POLYETHYLENE	W.P.	WALL PROTECTION

NAVIGATION LEGEND

	VIEW NAME VIEW SCALE	REFERENCED DRAWING
	EXTERIOR/INTERIOR ELEVATION REFERENCE	
	SECTION REFERENCE	
	DETAIL REFERENCE	
	PLAN REFERENCE	
	GRIDS	
	REVISION EXTENT/ REVISION NUMBER	
	TRUE NORTH	
	PROJECT NORTH	

LINE LEGEND

	NEW
	EXISTING
	DEMOLISH
	PROPERTY LINE
	SETBACK
	CONTOUR
	WATER
	MEMBRANE-VAPOUR
	MEMBRANE-WATER
	GRADE
	STRUCTURE
	ABOVE
	BELOW
	TEXTURE HATCH
	GRID
	FIRE RATING-15MIN
	FIRE SEPARATION-15MIN
	FIRE RATING-30MIN
	FIRE SEPARATION-30MIN
	FIRE RATING-45MIN
	FIRE SEPARATION-45MIN
	FIRE RATING-1HR
	FIRE SEPARATION-1HR
	FIRE RATING-1.5HR
	FIRE SEPARATION-1.5HR
	FIRE RATING-2HR
	FIRE SEPARATION-2HR

MATERIAL LEGEND

	BOARD AND BATTEN
	BOARD-VERTICAL
	BOARD-HORIZONTAL
	BRICK-HERRINGBONE
	BRICK-RUNNING
	CARPET
	CEILING TILE
	CMU
	CONCRETE
	EARTH
	GLASS
	GRASS
	GRATE
	GRAVEL
	GYPSUM WALL BOARD
	INSULATION BATT/BLOWN
	INSULATION-RIGID
	INSULATION-SEMI-RIGID

TAG LEGEND

	ROOM TAG
	KEYNOTE TAG
	FOUNDATION WALL TAG
	EXTERIOR WALL TAG
	PARTITION WALL TAG
	CLADDING WALL TAG
	FLOOR TAG
	CEILING TAG
	ROOF TAG
	WINDOW TAG
	DOOR TAG
	PLUMBING TAG
	EQUIPMENT TAG
	FURNITURE TAG
	BEAM TAG
	COLUMN TAG
	FOOTING TAG

LIFE SAFETY-OCCUPANCIES

	A1-ASSEMBLY-PERFORMING ARTS
	A2-ASSEMBLY-STANDARD
	A3-ASSEMBLY-ARENA
	A4-ASSEMBLY-OPEN AIR
	B1-DETENTION
	B2-TREATMENT
	B3-CARE
	C-RESIDENTIAL
	D-BUSINESS AND PERSONAL SERVICES
	E-MERCANTILE
	F1-INDUSTRIAL-HIGH HAZARD
	F2-INDUSTRIAL-MEDIUM HAZARD
	F3-INDUSTRIAL-LOW HAZARD
	SHARED
	UNOCCUPIED

LIFE SAFETY-USES

	GARAGE-REPAIR
	GARAGE-STORAGE
	JANITOR-UNSPRINKLERED
	CORRIDOR-PUBLIC
	EXIT
	LAUNDRY-UNSPRINKLERED
	SERVICE-CONSTITUTING FIRE HAZARD
	SHAFT-DUMBWAITER
	SHAFT-ELEVATOR
	SHAFT-SERVICE
	STORAGE-DANGEROUS GOODS
	STORAGE-MULTIPLE TENANT

LIFE SAFETY-ELEMENTS

	RATED DOOR (CLOSURE)
	SHUTTER (CLOSURE)
	LONGEST PATH OF TRAVEL
	SMOKE ALARM
	EMERGENCY LIGHTING
	MANUAL STATION
	SIGNAGE-EGRESS
	SIGNAGE-EXIT
	SIGNAGE-NO PARKING
	SIGNAGE-OCCUPANT LOAD

STAND
ARCHITECTURE

Lukas Armstrong, Architect ABC
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250.219.1878

3457 Bedford Road
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V1A6V7

PROJECT NAME
24017-TARRYS FIRE HALL

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TARRYS BC
V1N 4N1

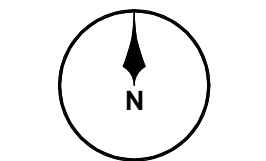
CLIENT
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DRAWING NOTES

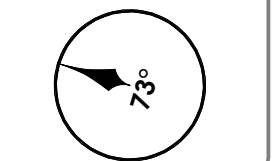
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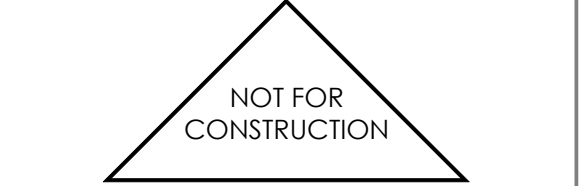
SITE



PLANS



USE



REVISIONS/HISTORY

DATE	NUMBER	DESCRIPTION
2025-04-21	0	ISSUED FOR BUILDING PERMIT

SHEET NAME
GENERAL

SHEET NO.

A001

REV. NO.

PROPERTY SUMMARY

ITEM	DESCRIPTION
CIVIC ADDRESS	2103 HIGHWAY 3A, TARRY'S BC, V1N 4N1
LEGAL ADDRESS	LOT 2, PLAN NEP87562, DISTRICT LOT 1239, KOOTENAY LAND DISTRICT
P.I.D.	027-660-761
A.H.J.	RDCK

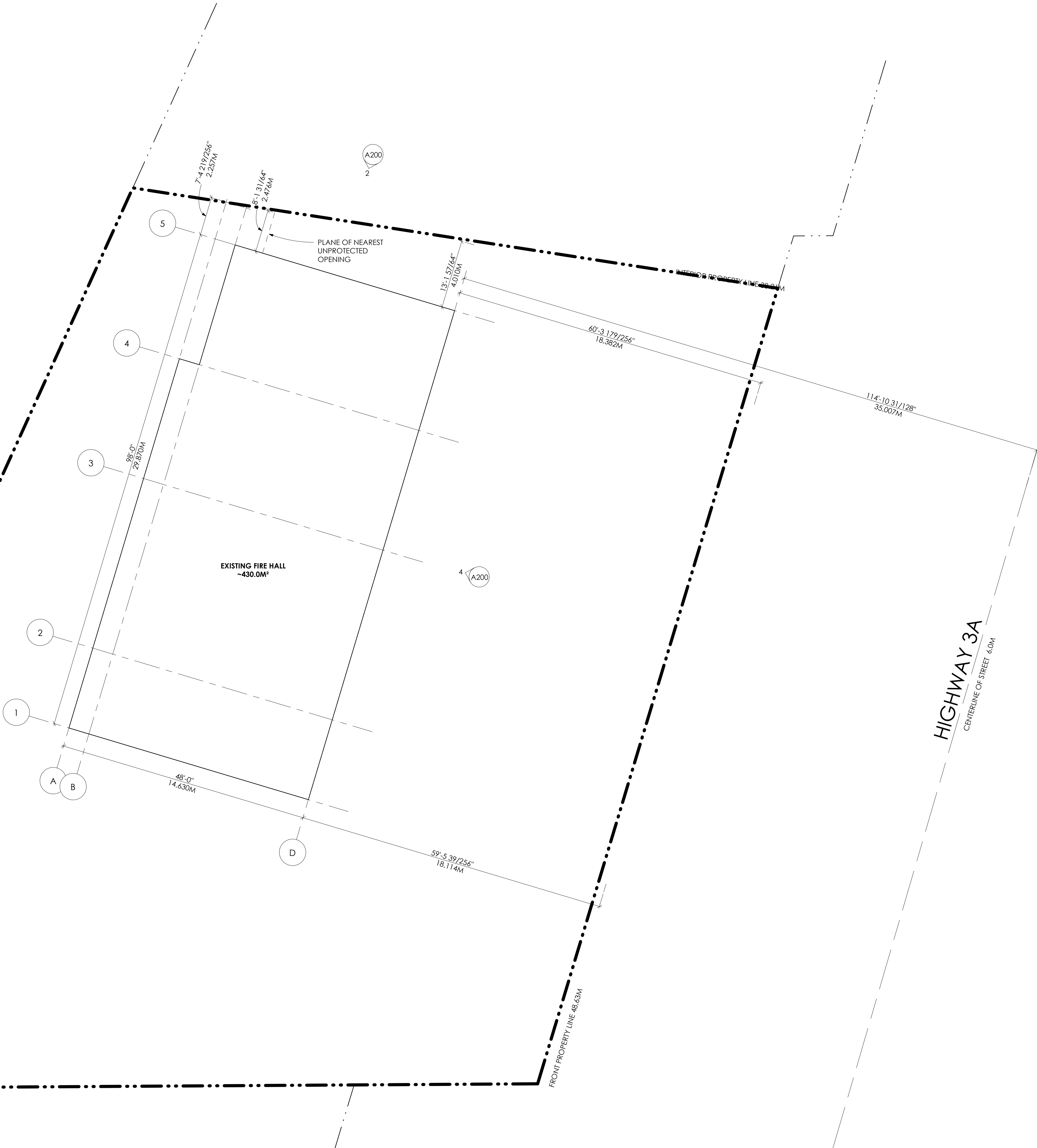
CODE SUMMARY

REFERENCE	ITEM	DESCRIPTION
1. A-1.1.1.1.	1. TYPE	1. REPLACEMENT OF MATERIALS
2. 9.10.2.1..3.	2. MAJOR OCCUPANCY	2. D (OFFICES), F3 (STORAGE GARAGES)
3. 9.10.2.5.	3. MINOR OCCUPANCY	3. N.A.
4. A-1.4.1.2.	4. AREA	4. ~430.0M²
5. A-1.4.1.2.	5. STOREYS	5. 2
6. A-1.3.3.3.	6. PART	6. 9
7. 3.2.2.10.	7. STREETS	7. 1
8. 9.10.	8. SPRINKLERED	8. NO

EXPOSING BUILDING FACES

SPRINKLERED	NO
FIRE DEPARTMENT RESPONSE TIME <10 MINUTES	NO
LIMITING DISTANCE/2 APPLICABLE	YES

ITEM	NORTH	EAST
1. AREA (M²)	1. 86.0	1. 174.5
2. DISTANCE TO PROPERTY LINE (M)	2. 2.476	2. N.A.
3. DISTANCE TO C.L. STREET (M)	3. N.A.	3. 35.0
4. DISTANCE BETWEEN BUILDINGS (M)	4. N.A.	4. N.A.
5. IMAGINARY LINE USED (M)	5. N.A.	5. N.A.
6. LIMITING DISTANCE (M)	6. 2.476	6. 35.0
7. LIMITING DISTANCE/2 (M)	7. 1.238	7. 17.5
8. UNPROTECTED OPENINGS PERMITTED (%)	8. 7.1	8. 55.0
9. UNPROTECTED OPENINGS PERMITTED (M²)	9. 6.1	9. 96.0
10. UNPROTECTED OPENINGS PROPOSED (M²)	10. 6.1	10. 53.2
11. MAXIMUM OPENING AREA (M²)	11. N.A.	11. N.A.
12. HORIZONTAL DISTANCE BETWEEN OPENINGS (M)	12. N.A.	12. N.A.
13. VERTICAL DISTANCE BETWEEN OPENINGS (M)	13. N.A.	13. N.A.



STAND
ARCHITECTURE

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3457 Bedford Road
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PROJECT NAME

24017-TARRY'S FIRE HALL

ADDRESS

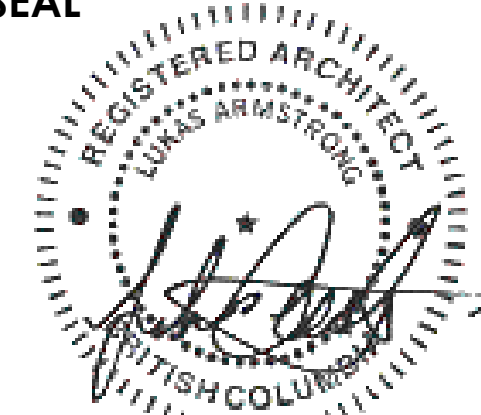
2103 HIGHWAY 3A
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CLIENT

OWNER

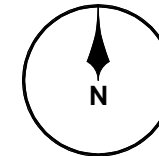
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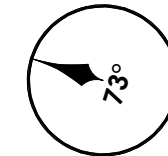


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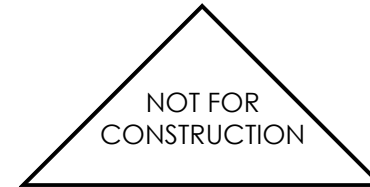
SITE



PLANS



USE



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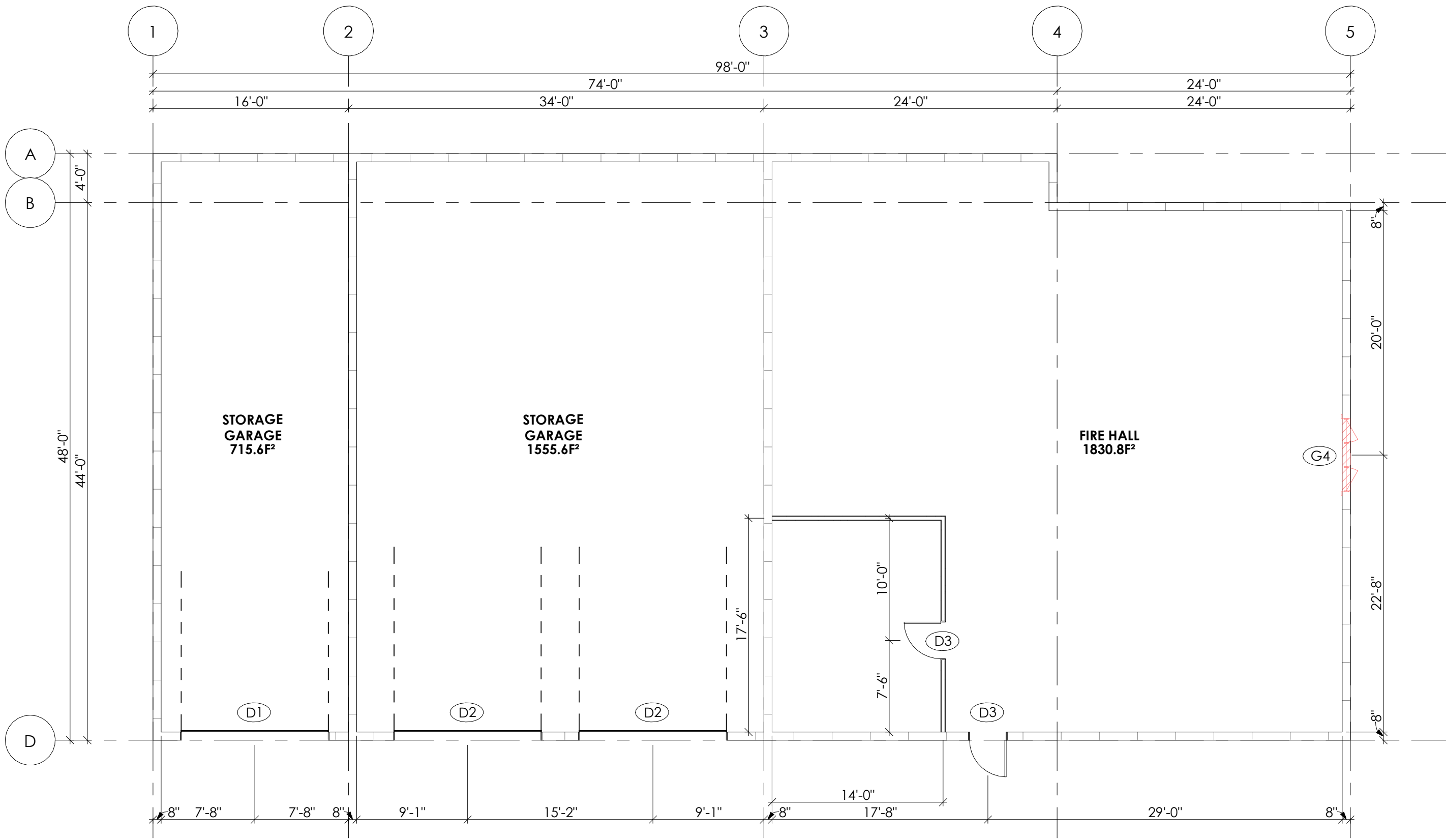
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SITE

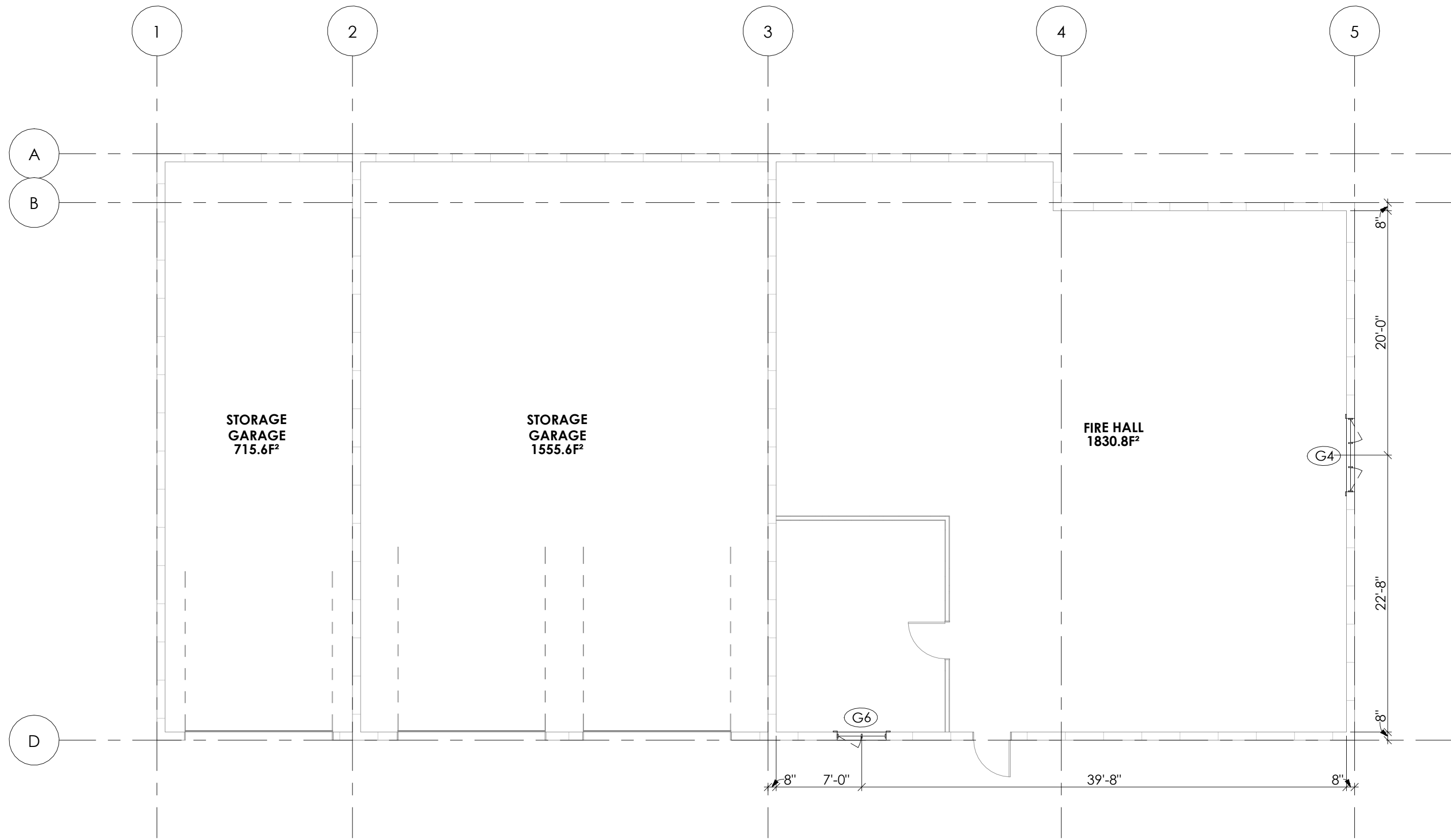
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A100

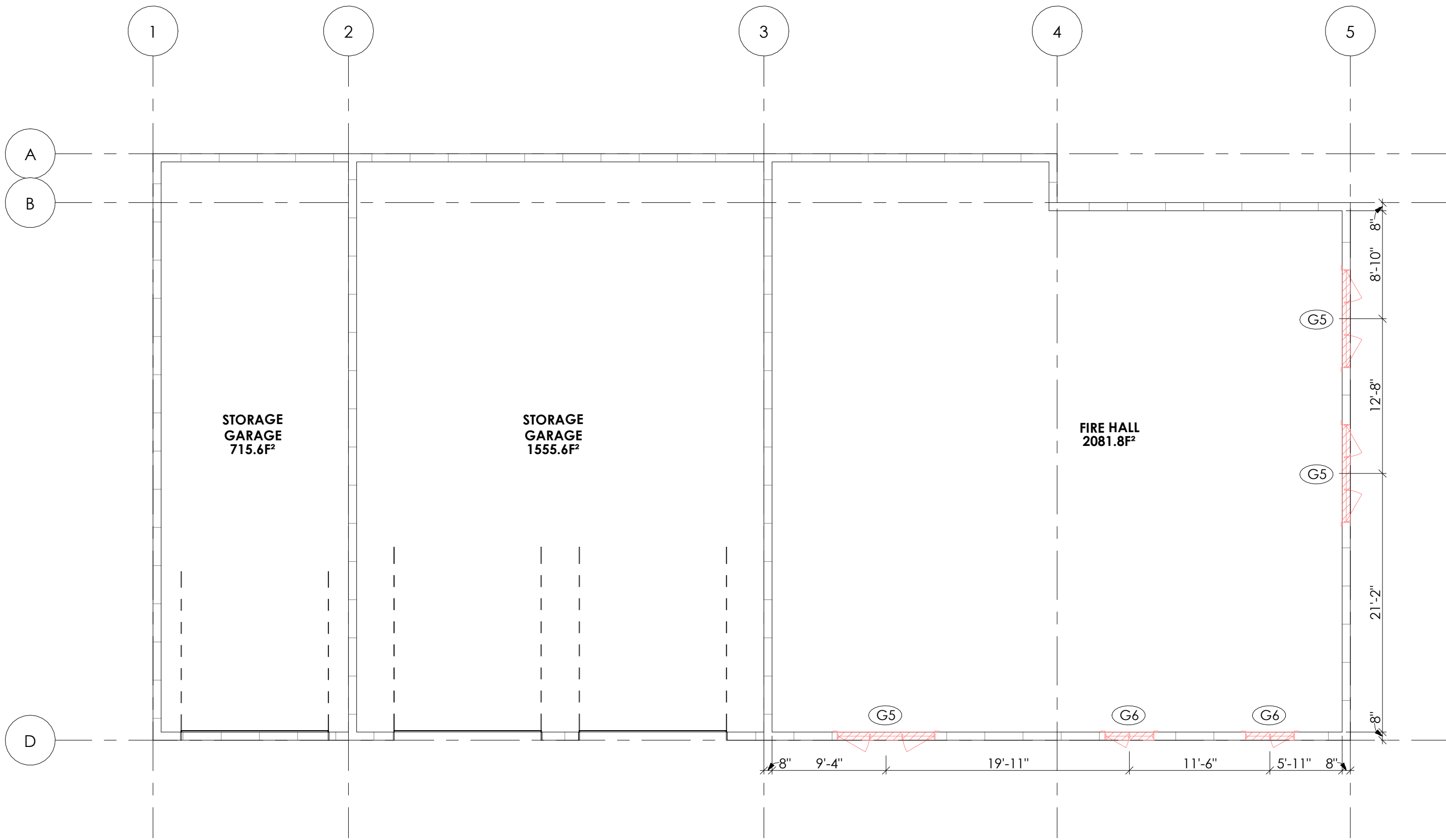
REV. NO.



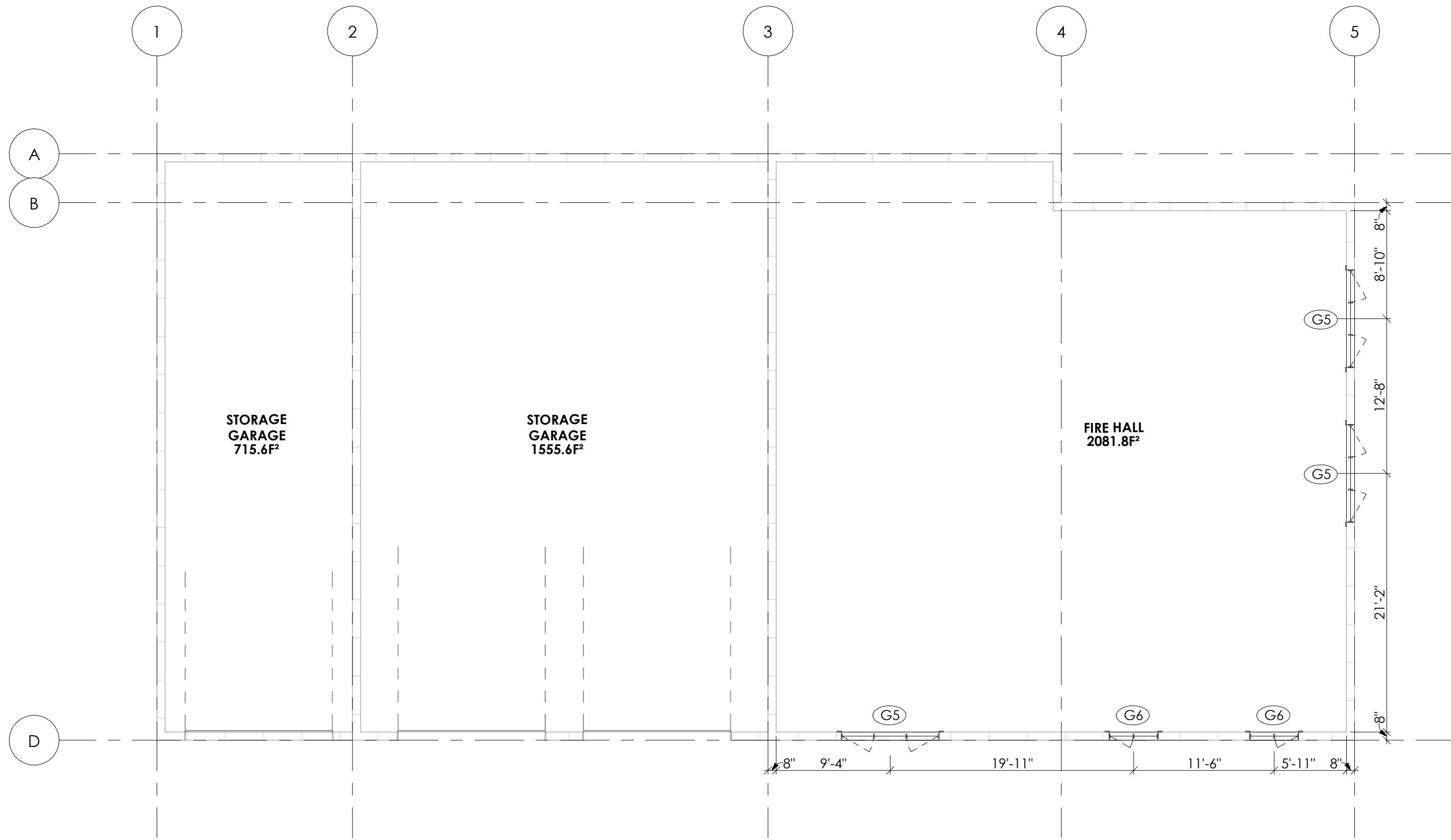
1 LEVEL 1-EXIST./DEMO.
1/8" = 1'-0"



2 LEVEL 1-NEW
1/8" = 1'-0"



3 LEVEL 2-EXIST./DEMO.
1/8" = 1'-0"



4 LEVEL 2-NEW
1/8" = 1'-0"

STAND

ARCHITECTURE

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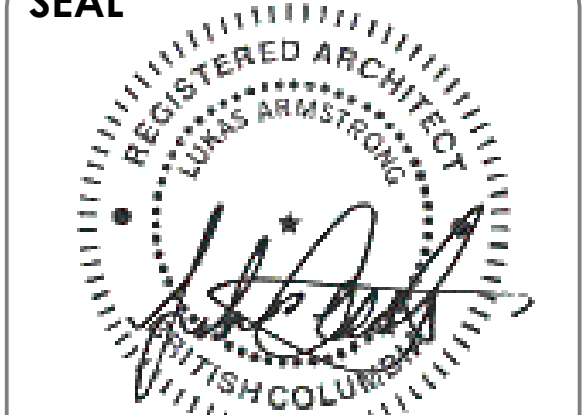
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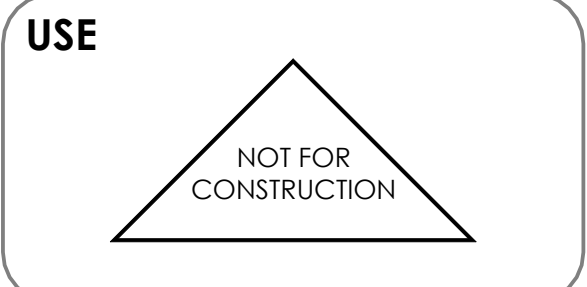
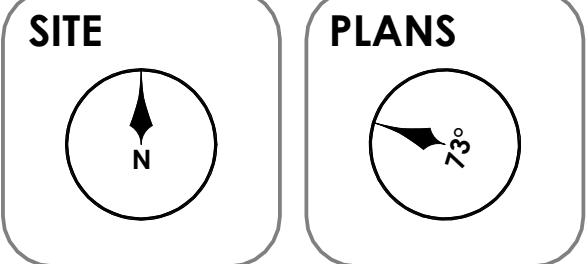
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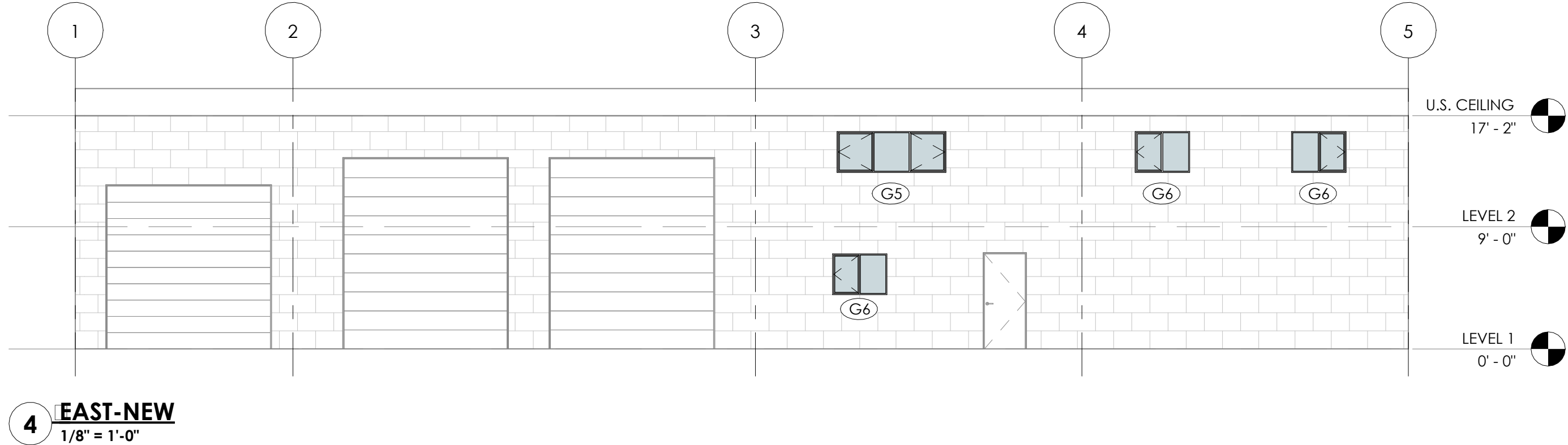
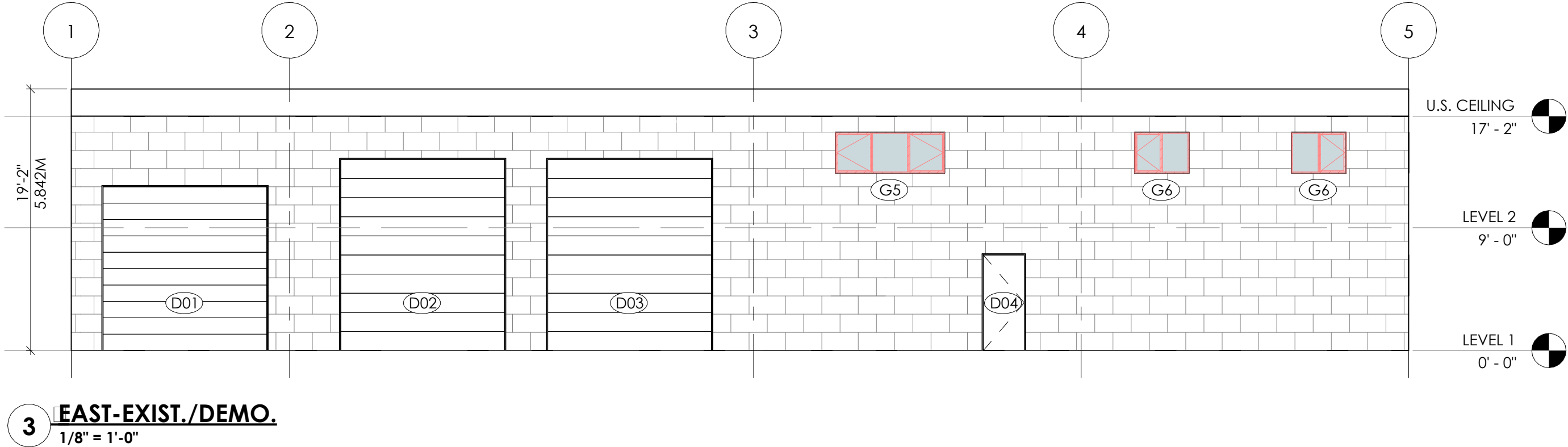
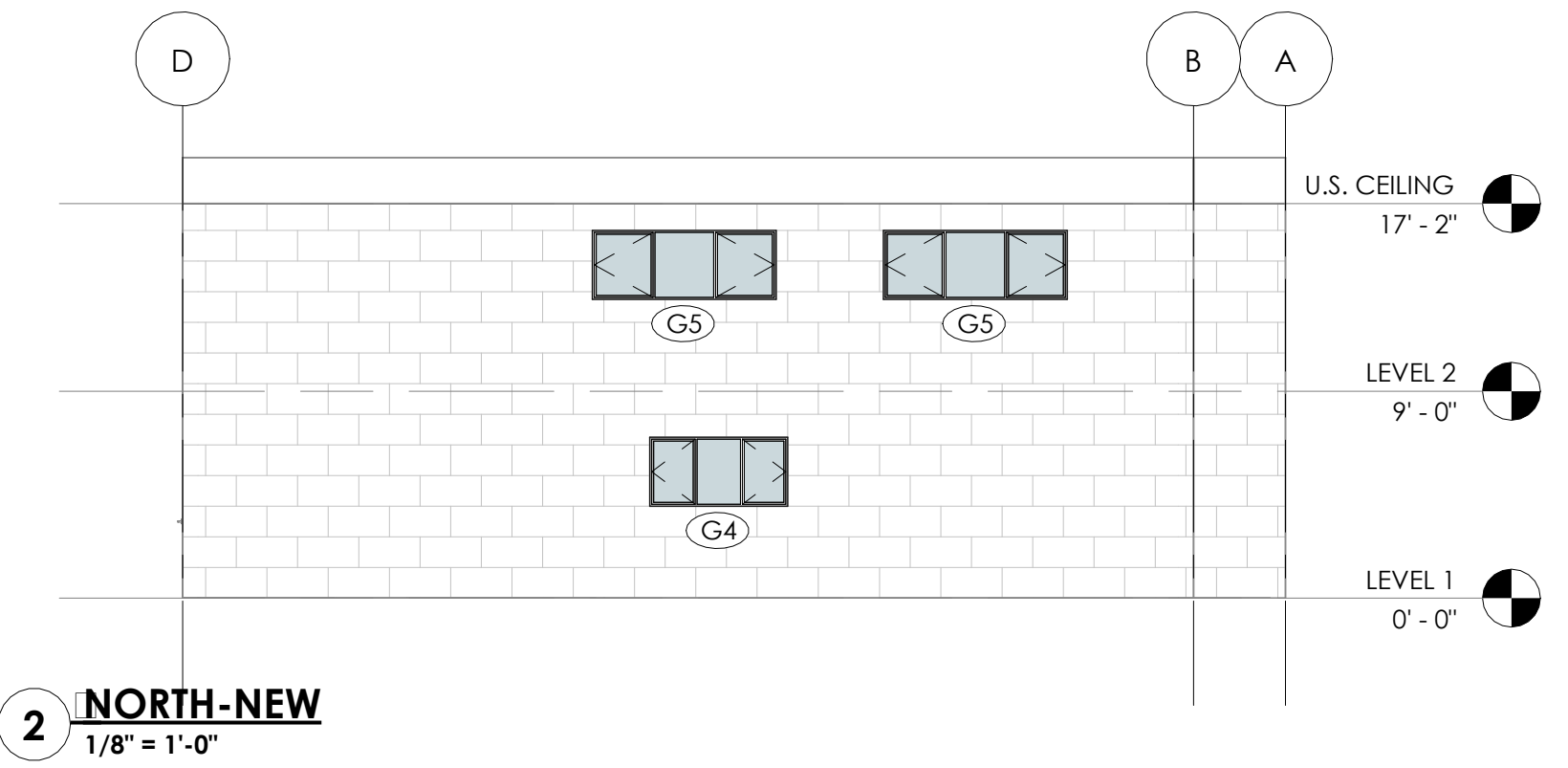
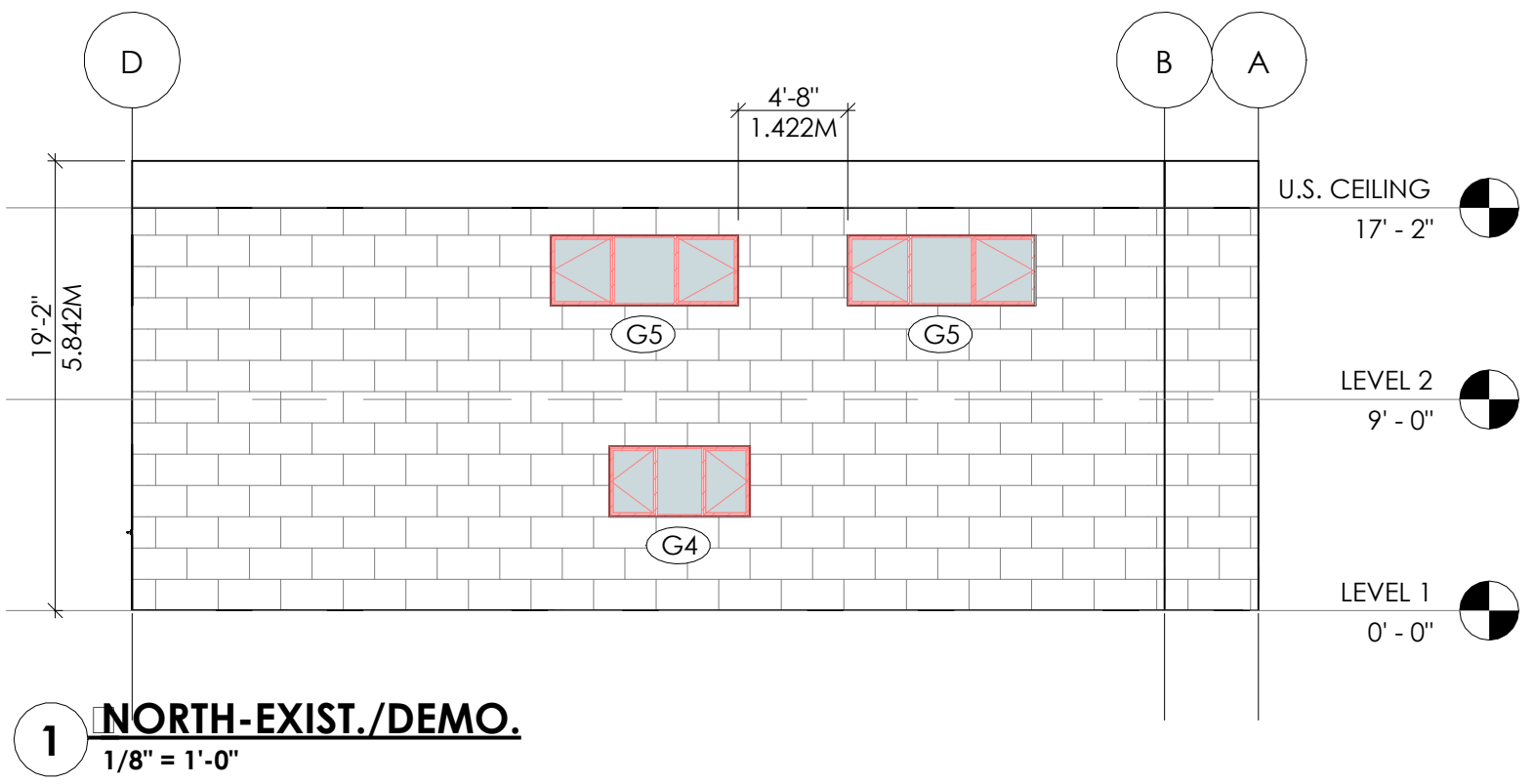


REVISIONS/HISTORY		
DATE	NUMBER	DESCRIPTION
2025-04-21	0	ISSUED FOR BUILDING PERMIT

SHEET NAME
PLANS

SHEET NO.
A101

REV. NO.



STAND

ARCHITECTURE

Lukas Armstrong, Architect AIBC
lukas@standarchitecture.com
250.219.1839

3457 Bedford Road
Nelson BC
V1L6K7

PROJECT NAME
24017-TARRYS FIRE HALL

ADDRESS
2103 HIGHWAY 3A
TARRYS BC
V1N 4N1

CLIENT
OWNER

DRAWING NOTES

SEAL

2025-04-22

SITE

PLANS

USE

REVISIONS/HISTORY		
DATE	NUMBER	DESCRIPTION
2025-04-21	0	ISSUED FOR BUILDING PERMIT

SHEET NAME
ELEVATIONS

SHEET NO.
A200

REV. NO.

#		KEYNOTES-ALL
NO.		NOTE TEXT

D##		DOORS-EXIST./DEMO					
TAG	NAME	COUNT	WIDTH	HEIGHT	FRR	COMMENTS	
D1	OVERHEAD	1	12'-0"	12'-0"			
D2	OVERHEAD	2	12'-0"	14'-0"			
D3	FLUSH-SINGLE	2	3'-0"	7'-0"			

D##		DOORS-NEW					
TAG	NAME	COUNT	WIDTH	HEIGHT	FRR	COMMENTS	

G##		WINDOWS-EXIST./DEMO					
TAG	NAME	COUNT	WIDTH (FT)	HEIGHT (FT)	SILL HEIGHT (FT)	COMMENTS	
G4	CASEMENT-DOUBLE-FIXED-SINGLE	1	6'-0"	3'-0"	4'-0"		
G5	CASEMENT-DOUBLE-FIXED-SINGLE	3	8'-0"	3'-0"	4'-0"		
G6	CASEMENT-SINGLE-FIXED-SINGLE	2	4'-0"	3'-0"	4'-0"		

*GC TO SUBMIT SHOP DRAWINGS WITH TYPICAL INSTALLATION DETAIL. ALL WINDOWS TO MEET NAFS AND LOCAL PERFORMANCE REQUIREMENTS.

G##		WINDOWS-NEW					
TAG	NAME	COUNT	WIDTH (FT)	HEIGHT (FT)	SILL HEIGHT (FT)	COMMENTS	
G4	CASEMENT-DOUBLE-FIXED-SINGLE	1	6'-0"	3'-0"	4'-0"	FLANGELESS	
G5	CASEMENT-DOUBLE-FIXED-SINGLE	3	8'-0"	3'-0"	4'-0"	FLANGELESS	
G6	CASEMENT-SINGLE-FIXED-SINGLE	3	4'-0"	3'-0"	4'-0"	FLANGELESS	

STAND

ARCHITECTURE

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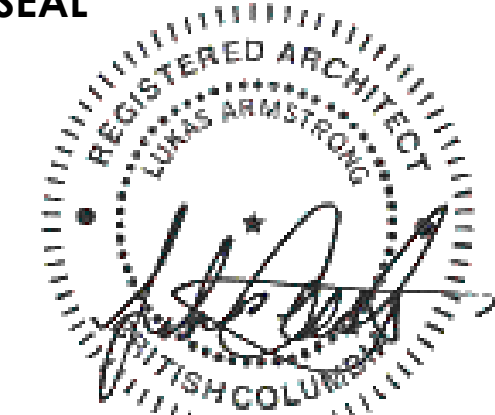
PROJECT NAME
24017-TARRYS FIRE HALL

ADDRESS
2103 HIGHWAY 3A
TARRYS BC
V1N 4N1

CLIENT
OWNER

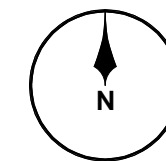
DRAWING NOTES

SEAL

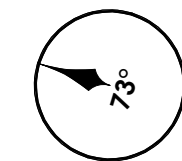


2025-04-22

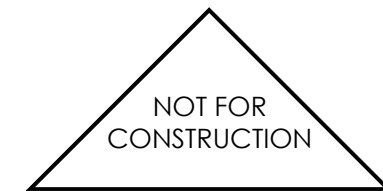
SITE



PLANS



USE



REVISIONS/HISTORY

DATE	NUMBER	DESCRIPTION
2025-04-21	0	ISSUED FOR BUILDING PERMIT

SHEET NAME
TAGS

SHEET NO.

A602

REV. NO.

ASSESSMENT OF SIX FIREHALLS:

North Shore,
Crescent Valley,
Passmore,
Winlaw,
Pass Creek, and
Tarry's

FOR

ASBESTOS, LEAD AND OTHER IDENTIFIED HAZARDS

Submitted to:

Stephen Melendy

Safety Coordinator

Regional District of Central Kootenay

Submitted by:
Richard Forget MSc(A), CIH, CRSP
Director,
Western Canada Safety Services Ltd.

EXECUTIVE SUMMARY

Stephen Melendy, safety coordinator for the Regional District of Central Kootenay retained Western Canada Safety Services Ltd. for the purpose of conducting a hazardous material survey of six fire hall's; North Shore, Crescent Valley, Passmore, Winlaw, Pass Creek and Tarry's for asbestos, lead content and any other identified concerns. The purpose of the asbestos and lead assessment was to identify asbestos-containing materials (ACMs), both friable and non-friable, within accessible areas of the building, identify lead concentrations in existing paints used in the buildings along with other hazardous materials and to prepare a record of ACM locations.

The information obtained from this assessment should be incorporated into any future renovation or deconstruction activity for regulatory compliance with Worksafebc OHS Regulation, Part 6- Substance Specific Requirements. Knowledge of the concentration of lead in paints is also important to ensure that proper control measures are implemented whenever such lead containing paints are disturbed. Both asbestos and lead are ALARA (as low as reasonably achievable) substances which requires the employer to minimize exposures from these products.

Richard Forget, Senior Industrial Hygienist performed a preliminary assessment and obtained bulk samples for asbestos and lead analysis from the period December 12nd, 14th and 16th, 2016. The purpose was to determine the type of construction materials being used, the concentration of asbestos and lead in the samples obtained if any, the location of the materials and to ascertain the potential for exposure along with any other observed hazardous materials.

Based on the inspection, representative bulk samples were collected from the following suspect materials for asbestos identification:

- Dry wall joint compound,
- Sheet vinyl flooring,
- Vinyl floor tile,
- Texture ceiling coat,
- Roofing shingle and felt,
- Construction paper, and
- Vermiculite

Analytical results indicated that asbestos was detected in the following materials:

- Vinyl floor tile at **1 % chrysotile asbestos** (North Shore fire department, 2nd floor, men's washroom storage room, 1'x1' tile)
- Sheet vinyl flooring at **40% chrysotile asbestos** (North Shore fire department, 2nd floor men's washroom)
- Vermiculite insulation at **trace actinolite asbestos** (Pass Creek fire department exterior block walls; Tarry's fire department exterior block walls)

Since ACM was identified, the owner is obliged, by regulation, to make this information available to potential contractors and staff at these locations so they are appraised of any hazardous products that reside in this building. If any activity is considered an asbestos management program incorporating an exposure control plan should be implemented.

An effective asbestos management program consists of several elements. Employers, building owners, or property managers must do the following:

- Keep an up-to-date inventory of all asbestos-containing materials in the workplace, including the condition of those materials.
- Ensure that all asbestos-containing materials are clearly identified.
- Conduct a risk assessment of the potential for exposure to any of the asbestos-containing materials. This should be conducted only by a qualified person.
- Develop safe work procedures, including the correct use of PPE, for workers who may work near asbestos-containing materials. This should be done only by a qualified person.
- Instruct all workers who could be exposed to asbestos in all aspects of the asbestos management program.
- Make manufacturers' manuals and instructions available to workers.
- Prepare written work procedures specific to each worksite and make them available to all workers required to follow the procedures.
- Ensure that work is carried out under the supervision of experienced and qualified supervisors.
- Develop and implement an exposure control plan if workers will be exposed to asbestos fibres.

The elements of the plan include:

- o (a) a statement of purpose and responsibilities;
- o (b) risk identification, assessment and control;
- o (c) education and training;
- o (d) written work procedures, when required;
- o (e) hygiene facilities and decontamination procedures, when required;
- o (f) health monitoring, when required;
- o (g) documentation, when required.
- Keep accurate and complete records regarding asbestos management.

In addition to implementing an asbestos management program, employers or building owners must ensure that all friable asbestos-containing materials are either removed from the workplace, encapsulated, enclosed using appropriate control methods or managed. Asbestos containing materials that are hidden from view but still accessible (such as materials above a T-bar ceiling) are not considered to be enclosed.

The primary concern with asbestos is with the release of respirable fibres into the air where they may be inhaled by workers. Friable asbestos materials are more of a concern since they can release fibres more easily than non-friable when disturbed. Friable is defined by regulation as dry material that can be crumbled, pulverized or powdered by mere hand pressure and includes material that is already crumbled, pulverized or powdered.

According to the regulation, asbestos is defined as any of the following six mineral fibrous silicates: actinolite; amosite; anthophyllite; chrysotile; crocidolite; and tremolite. The regulation classifies an asbestos product as one that contains asbestos in the amount of 0.5% or greater by dry weight. The exception to this ruling is vermiculite insulation where any concentration of asbestos in the material is considered asbestos containing.

Representative samples of suspect asbestos-containing building materials were collected and analyzed by Total Safety. A total of 88 samples were collected and analyzed for the presence of asbestos fibres, including drywall joint compound, ceiling texture coat, vinyl floor tile, sheet vinyl flooring, construction paper, zonolite insulation, and roofing shingle and felt.

Thirty six bulk paint samples were taken and analyzed by Maxxam analytical for lead content.

Analytical method

Suspect asbestos samples were analyzed by Total Safety Services Inc. in Burnaby, BC in accordance with the NIOSH 9002 PLM Bulk Sampling Analytical Method using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as < 1%. A copy of the asbestos bulk sample results are attached for your information and records. Total Safety Services Inc. is an AIHA accredited lab (AIHA BAPAT Lab # 185672) for bulk asbestos identification. The lab will retain the samples for a period of one month. Since WorksafeBC regulations state that any material containing >0.5% asbestos in the bulk sample shall be considered as asbestos containing material, any samples identified as containing <1% asbestos would be reassessed using an alternate point count method. The exception to this is with vermiculite insulation that is contaminated with trace actinolite or tremolite asbestos. Any amount in the insulation is classified as asbestos containing.

Suspect lead in paint samples were sent to Maxxam Analytical and analyzed by ICP-AES (inductively coupled plasma- atomic emission spectroscopy) using the Environmental protection Agency (EPA) method 6010cR3m. A copy of the lead in paint sample results is attached for your information and records. Maxxam Analytical is an AIHA accredited lab. The lab will retain the samples for a period of one month. WorksafeBC regulations state that any material that is an ALARA (as low as reasonably achievable) substance, the employer must attempt to keep airborne exposures as low as reasonably achievable.

Hazardous materials survey results

Asbestos containing:

Eighty eight bulk samples taken for asbestos identification were collected on suspect materials.

Five of the 88 samples were positive for asbestos (vinyl floor tile, sheet vinyl flooring and vermiculite insulation).

Lead containing:

Thirty six bulk lead in paint samples were taken throughout the interior and exterior of these buildings to quantitatively assess the concentration. Results indicate that 3 paint samples exceeded the 1000 ppm level. Of the 3 samples that were measured above 1000 ppm, they ranged from 2510 to 9280 ppm. It is also possible that solder used on copper water lines may contain lead, therefore caution is required if dismantling takes place.

The survey identified the following:

Hazardous Material	Type and Location
Asbestos	• Vinyl floor tile (North Shore fire hall men's washroom, storage room) at 1% chrysotile asbestos (1 of 3 samples), • Sheet vinyl flooring (North Shore fire hall men's washroom) at 45% chrysotile asbestos (1 of 5 samples), • Vermiculite insulation (Pass Creek and Tarry's exterior cinder block walls) at trace actinolite asbestos (3 of 3 samples collected; multiple holes drilled most filled with insulation)
Lead	• Positive for 3 of 36 samples on interior and exterior paints exceeding 1000 ppm • Crescent Valley fire department men's washroom, grey floor paint (2510 ppm), • Crescent Valley fire department main bay NW corner, red floor paint (5480 ppm), and • Passmore fire department main bay NW corner red window trim paint (9280 ppm).

Building

The 6 fire hall buildings are a mixture of construction styles consisting of cinder block wall and/or wood frame construction with block wall or siding (vinyl and Hardy board) on the exterior; drywall and plywood interior walls and ceilings, ceiling tile, texture coat and drywall on the ceilings, tar and grave flat roof or gable roof with metal cladding and concrete main floors and foundations. The age is approximated to be 1982 to 1986 with subsequent additions which were post 1990 construction.

Construction material is a mix of plywood, block wall and drywall on the walls; ceiling tiles, drywall on the ceilings with texture coat on some of the ceiling, and; floor tile, linoleum flooring, plywood and

concrete as floor coverings. Insulation is fiberglass batt insulation in the ceilings, walls and for cinder block exterior construction, vermiculite insulation.

The buildings are heated with natural propane or natural gas forced air furnaces.

Findings

Eighty eight samples of construction material were taken throughout the building. They include construction paper under the exterior coverings, drywall joint compound at various locations, sheet vinyl flooring on various types, vinyl floor tile at various locations, ceiling texture coat, construction paper, and roofing shingles and felt. Five of the 88 samples were positive for asbestos;

- **sheet vinyl flooring at 40% chrysotile asbestos (North Shore Men's washroom at storage room) (1 of 6 samples),**
- **vinyl floor tile at 1% chrysotile asbestos (North Shore men's washroom, storage room)(1 of 4 vinyl floor tile samples; 1x1'),**
- **vermiculite insulation at trace actinolite asbestos (Pass Creek fire hall north cinder block wall; Tarry's fire hall main bay SW corner & workshop north wall)(3 of 3 sample; multiple holes drilled; assume all original exterior cinder block walls contain vermiculite)**

Numerous materials were visually assessed and the sites that were inspected were found to contain non asbestos materials. These include wall insulation, ceiling insulation, fiberglass ceiling tile, the interior of cinder block walls and exterior siding.

Of all the materials sampled, the material that is friable and has the greatest potential for fibre release is the sheet vinyl flooring in the North Shore fire hall second floor men's washroom and the exterior cinder block walls for Pass Creek and Tarry's fire halls. The flooring is covered with a vinyl substrate so no exposed paper backing was noted. All vermiculite insulation was encased in cinder block walls.

Accessibility, friability and condition are parameters to consider when assessing what actions need to be taken.

Condition: All of the material sample sites were observed to be in good condition.

Friability: The sheet vinyl flooring paper backing is friable but is covered with a vinyl top. The vermiculite insulation is friable but is enclosed in cinder block walls. All other materials are non-friable unless broken or mechanically abraded.

Accessibility: All products may be accessible to fire hall workers, contractors or the public if entry is allowed.

At present, priority should be given to manage this material to minimize the potential for fibre release. If renovations, deconstruction or damage occurs, one should consider other remediation options such as repair, encapsulation, enclosure or removal.

Lead

Of the thirty six samples collected for lead in paint, three had lead content in excess of 1000 ppm:

- Crescent Valley fire department men's washroom **grey floor paint-2510 ppm**;
- Crescent Valley fire department main bay NW corner **red floor paint-5480 ppm**, and;
- Passmore fire department main bay NW corner **red paint on wood window trim 9280 ppm**. All other samples were below 1000 ppm.

Other identified concerns

There were no identified concerns noted during the assessments. There were numerous fluorescent fixtures. Some appeared to be of a vintage where the potential for PCB's may be present in the ballast. One would have to access Health Canada's website;

http://publications.gc.ca/collections/collection_2014/ec/En49-2-2-2-1991-2-eng.pdf

There were numerous mercury vapour fluorescent tubes throughout the site along with compact fluorescent bulbs. These will require proper disposal if they are to be disposed of.

Numerous lead acid batteries used for emergency lights were found throughout the building and if removed will have to be recycled.

There were numerous WHMIS and consumer products throughout the building which will need to be removed if they are not scheduled for use.

The sites contain a few fridges and freezers. If they are not to be used in the site or elsewhere, they will need to be recycled so the ozone depleting chlorofluorocarbons are captured.

Many sites were using mouse traps. There were no signs of mouse droppings inside the halls.

Some of the fire hall bays were not equipped with breakaway local exhaust ventilation units. This is a preferred method for diesel exhaust extraction from the bay interior. Consideration should be made to acquire this type of exhaust control. Monitors for carbon monoxide or nitrogen dioxide would also be appropriate for assessing contaminants exposure with the space.

CONTENT

1.0 INTRODUCTION.....	1
2.0 METHODS AND MATERIALS.....	2
3.0 RESULTS AND DISCUSSION.....	3
4.0 SUMMARY AND RECOMMENDATIONS.....	6
4.1 ACM Identification by analysis.....	6
4.2 Suspect ACM	6
4.3 Abatement repairs	6
4.4 Periodic Inspections	7
4.5 Courses of action for damaged ACM	7
4.6 Findings	7
4.7 Other identified concerns	8
4.8 Lead in paint.....	9
5.0 REVIEW PROCESS	11
6.0 CLOSURE	12
LIST OF TABLES	
Table 1 Results of Bulk Sample Collection for Asbestos Content	13
Table 2 Record of Locations of Observed ACM and Additional Information	18
Table 3 Record of Locations of lead in paint sample results	19
Table 4 PPE and Controls for lead abatement	9
LIST OF APPENDICES	
Appendix A Laboratory Report for asbestos in construction material.....	22
Appendix A1 Laboratory reports for lead in paint	46
List of Figures; floor plans record of sample locations for ACM and lead identification.....	73
Appendix B Site Photographs	80

1.0 INTRODUCTION

The Regional District of Central Kootenay retained Western Canada Safety Services Ltd. (Richard Forget) to conduct an asbestos and lead assessment and a visual review of other hazardous materials. The purpose of the asbestos and lead assessment was to identify asbestos-containing materials (ACMs), both friable and non-friable, within accessible areas of the building and to prepare a record of ACM locations plus to identify the lead in paint content for the paint types used in these buildings.

Friable is defined by regulation as dry material that can be crumbled, pulverized or powdered by mere hand pressure and includes material that is already crumbled, pulverized or powdered. According to the regulation, asbestos is defined as any of the following six mineral fibrous silicates: actinolite; amosite; anthophyllite; chrysotile; crocidolite; and tremolite. The regulation classifies an asbestos product as one that contains asbestos in the amount of 0.5% or greater by dry weight. The exception to this rule is vermiculite asbestos that contains trace amounts of either actinolite or tremolite asbestos.

Lead in paint that exceeds 1000 ppm may pose a risk to workers whose work activities generate excessive dust without considering proper controls.

The information obtained from this assessment can be integrated into an asbestos management program and to ensure adequate hazard information is available for external groups when any renovations or deconstruction activity takes place which would meet regulatory compliance.

Richard Forget, Senior Industrial Hygienist performed the assessment on December 12th, 14th and 16th, 2016.

2.0 METHODS AND MATERIALS

Richard Forget conducted a room by room inspection of the six fire hall buildings. Representative samples of suspect asbestos containing materials were collected to represent the full depth or thickness of the material. The samples were collected in accordance with approved bulk sample techniques in order to minimize potential release of fibres. Where applicable, tuck tape, duct tape, non-asbestos filler compound or an encapsulant was used to seal the sample area. Each sample was placed in a clean baggie, sealed and labelled.

The requisite number of bulk samples to be collected per homogeneous material is discussed in the asbestos guidelines. In most cases, a minimum of three bulk samples per material type should be collected per area. Only one positive result is required to confirm that a material is an asbestos product. The regulation defines an asbestos product as one that contains 0.5% asbestos or greater, by dry weight. Based on experience by the consultant, a single sample of a material from an area may be collected to confirm that the material is or is not an asbestos product.

The samples were submitted to Total Safety Services Inc. Their laboratory is accredited for asbestos bulk sample analysis by the American Industrial Hygiene Association (AIHA). The bulk samples were analyzed by polarized light microscopy (PLM) and dispersion staining techniques in accordance with the National Institute for Occupational Safety and Health (NIOSH), Method 9002- Asbestos Bulk by PLM. This method has been adopted by Worksafebc as an approved test method for bulk sample analysis.

As previously indicated, the regulation defines an asbestos product as one that contains 0.5% asbestos or greater. However, the analytic method has a limit of detection (LOD) of 1%. Therefore, an analytical result reported as less than 1% or trace requires further analysis by point counting or other method, such as transmission electron microscopy (TEM) to determine if the sample is an asbestos product.

Lead in paint samples were collected on the paint types used in the six fire halls. Suspect lead in paint samples were sent to Maxxam Analytical and analyzed by ICP-AES (inductively coupled plasma- atomic emission spectroscopy) using the Environmental protection Agency (EPA) method 6010cR3m. Maxxam Analytical is an AIHA accredited lab. Worksafebc regulations state that any material that is an ALARA (as low as reasonably achievable) substance, the employer must attempt to keep airborne exposures as low as reasonably achievable.

3.0 RESULTS AND DISCUSSION

Result

Results of the asbestos and lead assessment, conducted on December 12th, 14th and 16th 2016 are discussed below. The sample locations and analytical results are presented in Table 1. The laboratory report is provided in Appendix A. Coloured photographs, illustrate the sample locations of material analyzed for asbestos content and lead in paint, which are presented in Appendix B.

ACM locations observed during the assessment are provided in table format with additional information related to accessibility, friability and condition. The approximate ACM locations are also presented in the floor plans. Both the table and floor plan will serve as the Record of Location.

The buildings were estimated to be constructed between 1982 and 1986 with additions post 1990. Based on the year of construction, asbestos materials may have been used. Lead paint concentrations can vary based on the year it was applied, with higher concentrations found pre 1970's.

ASBESTOS

Representative bulk samples were collected from the following suspect materials:

- Dry wall joint compound,
- Cinder block wall insulation
- Sheet vinyl flooring,
- Vinyl floor tile,
- Roofing shingle and felt,
- Texture ceiling coat, and
- Construction paper.

Visual checks were conducted on wall insulation, ceiling insulation, exterior siding and electric baseboard backing. All samples observed were fiberglass insulation, vinyl, wood or concrete board or metal backing.

Analytical results indicated that asbestos was detected in the following materials:

- **sheet vinyl flooring at 40% chrysotile asbestos (North Shore fire hall 2nd floor men's washroom at storage room) (1 of 6 samples),**
- **vinyl floor tile at 1% chrysotile asbestos (North Shore fire hall, 2nd floor men's washroom storage room at door)(1 of 4 vinyl floor tile samples; 1'x1'), and**
- **vermiculite insulation at trace actinolite asbestos (Pass Creek fire hall North wall; Tarry's fire hall, main bay SW corner and workshop north wall)**

This assessment did not identify asbestos in the following materials:

- Drywall joint compound in the six fire halls (**North Shore:** 2nd floor training room SW and NE corner; 2nd floor west hallway, NE & SW corner; 2nd floor west exit SW corner; 2nd floor, men's washroom SW corner; 2nd floor rec room, SE & SW corner; main floor S. wall at compressor; main floor middle corner at tank fill; main floor computer room NW corner); (**Crescent Valley:**

main floor main bay, SE, NE & NW corners; main floor office SE & NW corner; main floor men's washroom NE corner and south wall; 2nd floor exercise room NE & SW corner; 2nd floor kitchen south wall & NE corner); (**Passmore**: Main floor main bay NE, NW & SW corners; main floor SE storage room, SE corner; main floor office, NE & SW corners; main floor men's washroom, NW corner & south wall; main floor hallway by north door; 2nd floor family room, SE & NE corners; 2nd floor kitchen, SE & NW corners); (**Winlaw**: Main floor main bay, SE & NE corners; main floor office, SE & NW corners; main floor men's washroom, NE corner & south wall; main floor workshop SW corner; 2nd floor training room, SW & SE corners; 2nd floor kitchen, SW & NE corners; main floor ambulance bay, NW & NE corners); (**Pass Creek**: Main floor main hall, NE & SE corners; main floor small bay, SE & NE corners; main floor office, NE & SE corners; main floor hallway NW corner); (**Tarry's**: main floor workshop, north wall, middle corner, SE corner; main floor south washroom NE corner; main floor north washroom SE corner; main floor office NW corner; 2nd floor family room, entry corner NW corner; 2nd floor kitchen NW & NE corners; 2nd floor storage room, NW corner & south wall middle);

- Sheet vinyl flooring: (**North Shore** fire hall: 2nd floor training room AV room NE corner); (**Crescent Valley**: 2nd floor kitchen south wall at entry); (**Passmore**: Main floor hallway by north door; 2nd floor kitchen NW corner); (**Winlaw**: main floor office NW corner);
- Vinyl floor tile: (**Winlaw fire hall**: main floor hallway by east entry) (**Tarry's**: 2nd floor family room NW corner; 2nd floor storage room, NW corner)
- Texture ceiling coat: (**North Shore**: 2nd floor training room above south entry door; main floor west side ceiling at fixture)
- Construction paper: (**North Shore**: 2nd floor NW exit exterior above door behind siding); (**Crescent Valley**: main floor exterior at entrance behind siding); (**Passmore**: attic under roof peak); (**Winlaw**: attic roof peak).

LEAD

Thirty six bulk samples for lead in paint assessment were taken. **Three samples were positive for concentrations above 1000 ppm. By location and in ascending order, they were:**

- **Crescent Valley, men's washroom [grey floor paint] @ 2510 ppm,**
- **Crescent Valley, main bay NW corner [red floor paint] @ 5480 ppm**
- **Passmore, main bay SW corner wooden window trim (red paint) @ 9280 ppm**

Note: There were many locations that had multiple layers of different coloured paints beneath the surface coat. Any of these could be the type that was lead containing.

This assessment did not find lead levels of a concern in the following locations and paint types:

- North Shore 2nd floor training room A/V room North wall, light blue (4.4 ppm),
- North Shore 2nd floor training room A/V room north wall baseboard, blue (<3.0 ppm),
- North Shore, 2nd floor west exit west wall white paint (<3 ppm),
- North Shore, 2nd floor, west exit, exit door frame red paint (204 ppm),
- North Shore, 2nd floor, men's washroom toilet east wall, beige paint (11.7 ppm)
- North Shore, main floor east entry south wall above compressor, grey paint(<3 ppm),
- Crescent Valley, main bay by NW corner wall, beige paint (4.1 ppm),
- Crescent Valley, main office NW corner, olive paint (4.9 ppm),
- Crescent Valley, 2nd floor exercise room SW corner wall, grey paint (4.6 ppm),
- Crescent Valley 2nd floor kitchen, North door trim, brown paint (805 ppm),

- Passmore, main bay SW corner grey floor paint (20.8 ppm),
- Passmore, main bay SW corner wall (3.6 ppm),
- Passmore, main floor office, SW corner, olive paint (7.8 ppm),
- Passmore, main men's washroom, south wall, light blue (8.9 ppm),
- Passmore, main hallway by east exit door, brown paint (5.6 ppm),
- Passmore, 2nd floor family room, SE corner wall, red paint (6.5 ppm),
- Passmore, 2nd floor kitchen SE corner, off white paint (<3.0 ppm),
- Winlaw, main floor, office NW corner, light blue paint (6.5 ppm),
- Winlaw, main floor, hallway west wall by exit, white paint (3.2 ppm),
- Winlaw, main floor men's washroom, south wall, beige paint (5.5 ppm),
- Winlaw, main floor men's washroom, NE corner brown floor paint (13.4 ppm),
- Winlaw, main floor workshop, SW corner, salmon paint (11.2 ppm),
- Winlaw, 2nd floor, training room, stair handrail post, brown paint (18.5 ppm),
- Winlaw, 2nd floor, kitchen SW corner, light blue paint (4.2 ppm),
- Pass Creek, main bay SW corner grey floor paint (72 ppm),
- Pass Creek, main bay SW corner, red paint on post (14.2 ppm),
- Pass Creek, main office, NE corner, pink paint (7.9 ppm),
- Pass Creek, Main floor, men's washroom, NE corner wall, white paint (7.4 ppm),
- Pass Creek, 2nd floor rec room, SE corner, white paint (<3.0 ppm)
- Tarry's, main floor workshop at middle corner grey floor paint (61.6 ppm),
- Tarry's, main floor, south washroom, North wall middle, light blue paint (13.7 ppm),
- Tarry's, main floor office, door trim dark blue paint (180 ppm),
- Tarry's, 2nd floor storage room, NW corner at door, beige paint (9.6 ppm).

Discussion

The ACM found throughout the building was generally in good condition. There were no breaches of cinder block wall or damaged flooring.

The lead in paint interior locations were in good shape. Any scraping or repair to the sites where lead content exceeds 1000 ppm should be considered with manual scraper tools under low-moderate risk protocols. As the concentration increases one should consider increasing the controls to moderate risk protocols to minimize worker exposures to as low as reasonably achievable (ALARA) levels.

4.0 SUMMARY AND RECOMMENDATIONS

The following materials have been identified as asbestos-containing materials (ACM) by analysis, knowledge of materials, or assumed to contain asbestos.

4.1 ACM Identified by Analysis

The following materials have been identified as containing asbestos via analysis:

- **sheet vinyl flooring at 40% chrysotile asbestos (North Shore fire hall, 2nd floor men's washroom by storage room) (1 of 6 samples),**
- **vinyl floor tile at 1% chrysotile asbestos (North Shore fire hall, 2nd floor men's washroom storage room at door)(1 of 4 vinyl floor tile samples; 1'x1'), and**
- **vermiculite insulation at trace actinolite asbestos (Pass Creek fire hall, north cinder block wall by door; Tarry's fire hall, main bay SW corner cinder block wall; Tarry's fire hall workshop north cinder block wall)**

4.2 Suspect ACM

The following materials may or may not be present in the building, or the materials were present but could not be sampled without causing unnecessary damage. These materials, if present, can be identified and sampled prior to any major renovation or demolition project. Provisions for this eventuality should be incorporated into the asbestos management program. Under normal building operations, these materials, if present, would not present a risk to building occupants.

The following will be treated as suspect ACM.

- Fire doors with composite fireproofing;
- Gaskets and packing's on equipment such as boilers, flanges, pumps and so on;
- Vibration dampers off furnace/duct transition;
- Old electrical wiring; and
- Any materials that are uncovered during demolition, renovation and repair activities and are not identified in this assessment must be treated as suspect materials.

Workers must be instructed to report any discovery of ACM or suspect ACM that is not on the record of locations. They should report their findings to the designated person so that the material can be classified and a course of action taken.

4.3 Abatements and Repairs

Qualified asbestos abatement contractors would be required to handle asbestos removals and repairs. A list of damaged ACM identified during this assessment is presented in the table "Record of ACM Locations".

4.4 Periodic Inspections

The regulation requires periodic inspection of all identified ACM in order to determine its condition. The regulation does not stipulate the interval of inspection. The frequency of inspection has to be made by the owner or owner's representative.

An inspection form should be designed to include the location, the type of material (i.e. pipe insulation), its condition and recommended course of action. The form should be dated, signed and a copy kept on file.

The frequency of inspection will be based on a number of factors such as vibration, expansion and contraction of pipes, water damage, work activities (in-house and contractor) and building use. This frequency can be adjusted as required. If minimal activity is anticipated then biannual inspections should suffice.

It is strongly recommended that all ACM locations where work activities have taken place be inspected upon completion of said work. The objective here is to make sure that the work activities have not caused damage to the ACM. It is prudent to monitor work activities and ensure that ACM is maintained in good condition.

4.5 Courses of Action for Damaged ACM

Based on the results of the inspections, damaged ACM must be addressed. Four acceptable courses of action are available, as follows:

- **Removal:** The advantage here is that the ACM is no longer present in the building and will no longer be subject to inspections. However, the abatement must be conducted by a qualified contractor in accordance with procedures stipulated in the regulation.
- **Enclosure:** The ACM can be enclosed. The regulation defines an enclosure as one that is air tight, impact resistant and not accessible. Therefore, a suspended ceiling with lay-in ceiling tile does not qualify as an enclosure. It should be noted that the ACM is still present and procedures should be in place in the event that the enclosure has to be accessed, since the condition of the ACM will not be known.
- **Repair:** The ACM can be repaired by using non-asbestos plaster or non-asbestos duct tape. This is the easiest repair method especially for minor damage.
- **Encapsulate:** The ACM can be sealed with a sealant suitable for the type of material, that is, the sealant must adhere to and penetrate the material. The abatement contractor will be knowledgeable in this area. A sealant cannot be used on material where the integrity of the material is in question. That is, if the material is severely damaged, application of a sealant will create weight and eventually cause the material to fall down.

4.6 Findings

Eighty eight samples of construction material were taken throughout the interior space and in the exterior envelope of the six fire halls. They include construction paper, drywall joint compound, sheet vinyl flooring, vinyl floor tile, texture ceiling coat, construction paper, mastic, and roofing shingles and felt. Five of the 88 samples were positive for asbestos: Of all the materials sampled, the only materials

that are friable and has the greatest potential for damage is the paper backing on the sheet vinyl flooring in the North Shore men's washroom floor and the vermiculite insulation in the cinder block walls. Both materials are effectively sealed from contact and are in good condition. Moderate risk control methods should be utilized when drilling into cinder block walls. High risk abatement methods would be required for removal of the sheet vinyl flooring. Moderate risk methods would be required for the vinyl floor tile whenever this is under consideration. Any deconstruction of cinder block walls containing vermiculite insulation would require high risk abatement methods.

Accessibility, friability and condition are parameters to incorporate when considering what actions need to be taken.

Condition: All of the material sampled was observed to be in good condition.

Friability: The sheet vinyl flooring paper backing is classified as friable. The vermiculite insulation is also considered to be friable. All other materials are non-friable unless broken or mechanically abraded.

Accessibility: All products are accessible to the firefighters and may be accessible to contractors and to the public if entry is allowed.

Priority should be given to manage this material to minimize the potential for fibre release until such time that removal of said material is undertaken. If renovations or damage occurs, one should consider other options such as repair, encapsulation, enclosure or removal.

4.7 Other identified concerns

There were a few items to consider if renovation or deconstruction is to take place.

- Until properly identified, the older style fluorescent light fixture ballasts should be considered as containing PCB's and as such will require proper removal and disposal. To ascertain whether the ballasts are PCB containing one can source out this information
http://www.facilities.ualberta.ca/en/Planning_Project_Delivery/Hazardous_Materials/~/_media/facilities/Documents/SafetyDocuments/ID-LampBallastsContainingPCBsReport-EPS2CC2Aug1991.pdf
- All fluorescent tubes and compact fluorescent bulbs contain mercury and will require proper disposal at designated recycle centres,
- Caution should be made whenever cutting, drilling, grinding or breaking concrete products that will release respirable silica. One should follow the WorksafeBC guidelines whenever work on concrete products is required. Refer to the references for control measures
[https://www.worksafebc.com/en/forms-resources#q=silica&sort=relevancy&f:topic-facet=\[Health%20%26%20Safety\]&f:language-facet=\[English\]](https://www.worksafebc.com/en/forms-resources#q=silica&sort=relevancy&f:topic-facet=[Health%20%26%20Safety]&f:language-facet=[English])
- Removal of WHMIS and consumer products prior to renovation or deconstruction would prevent inadvertent damage to those products with potential contact to workers.

4.8 Lead in paint

Abatement of lead in paint depends on the method of removal and of the concentration of lead in the paint. For the most part low-moderate risk work activities and occasionally moderate risk activities will be needed for renovations to these areas. In some occasions it may be feasible to remove the material intact [i.e. flange removal for pipe replacement]. This would fall under a low risk work activity. Examples of safe work procedures are listed below in Table 4.

Handling of lead in paint should pose no risk to the workers and to the work area if the procedures indicated below are utilized.

Table 4: Personal Protective Equipment and Control Measures for Working with Lead

LOW RISK WORK ACTIVITY

- Applying lead-containing paint with a brush or roller
- Installing or removing sheet metal that contains lead
- Operating an excavator (within the cab) during building demolition

CONTROL MEASURES

- Transporting sealed containers of lead waste
- Washing facilities must be provided, including wash basins, tempered (warm) water, soap, and disposable towels.
- Workers should not eat, drink, chew gum, smoke, or bite fingernails while in the work area.
- Workers should wash their hands before eating, drinking, smoking, or leaving the work area.
- Coffee and lunch breaks should be taken in a clean area separate from the work area.
- Disposable drop sheets should be used below all lead operations.
- Dust and waste should be cleaned up and placed in marked lead-waste containers that are dust-tight.
- The work area should be kept clean, and compressed air or dry sweeping should not be used to remove dust.
- Workers should remove all work clothes and shoes at the end of the work day and leave them at work or use disposable coveralls.

RECOMMENDED RESPIRATORY PROTECTION

- Respirators should not be required if safe work procedures and proper housekeeping protocols are followed.
- Periodic air sampling should be conducted to ensure that the levels of lead in air are less than 0.05 mg/m³.

LOW-MODERATE RISK WORK ACTIVITIES

- Removing lead materials using a power tool with a dust collection system and HEPA filter
- Scraping or sanding of lead-containing coatings using non-powered hand tools
- Welding, burning, or cutting of surfaces from which lead-containing coatings have been removed

CONTROL MEASURES

The following should be adopted in addition to the low-risk procedures listed above:

- Barriers should be erected to prevent access to the work area by unprotected workers.

- Signs should be posted at every entrance to the work area; signs should include warnings of lead contamination and the requirement for respiratory protection.
- Workers should wear disposable coveralls and other personal protective equipment (e.g., eye and hearing protection) that might be required at the jobsite.
- The work area should be kept clean, and workers should use cleaning methods that minimize the generation of dust, such as wet dusting, wet sweeping, or vacuuming using a vacuum with a HEPA filter on the exhaust.

RECOMMENDED RESPIRATORY PROTECTION

- NIOSH-approved single-use N95, N99, or P100 respirator, or
- Half-face elastomeric respirator equipped with P100 HEPA cartridges
- Periodic air sampling should be conducted to ensure that the levels of lead in air are within the protection factor of the respirator selected.

MODERATE RISK WORK ACTIVITIES

- Removing lead-containing coatings with a chemical gel or paste by hand
- Removing lead-containing coatings with a heat gun
- Scraping or sanding lead-containing materials using non-powered hand tools
- Manually demolishing lead-painted plaster walls or building components using a sledgehammer or similar tool
- Cleaning up and removing lead-containing dust and debris

CONTROL MEASURES

The following should be adopted in addition to the low–moderate risk procedures listed above:

- Partial or full enclosures should be constructed around work areas where significant scraping, sanding, or demolition will take place.
- Where full enclosures are required, they should be equipped with HEPA-filtered mechanical ventilation.
- Separate changing areas and a shower (with warm water) should be provided.

RECOMMENDED RESPIRATORY PROTECTION

- Half-face or full-face elastomeric respirator equipped with P100 HEPA cartridges, or
- Powered air-purifying respirator (PAPR) equipped with P100 HEPA cartridges
- The type of respirator chosen will depend on the amount of material removed and the duration of the work.
- Periodic air sampling should be conducted to ensure that the levels of lead in air are within the protection factor of the respirator selected.

5.0 REVIEW PROCESS

After the hazardous materials survey is reviewed, it is recommended that a Risk Assessment and Exposure Control Plan (RA ECP) be prepared when renovation work or deconstruction activities take place. This is a requirement under regulation 6.3 for asbestos and regulation 6.60 for lead. Integration of the hazardous materials survey would be incorporated into the RA ECP. With known asbestos containing materials present, these sites should be included into the inventory for the asbestos management program.

6.0 CLOSURE

The information and opinions rendered in this report are exclusively for use by the Regional District of Central Kootenay (Client). Client will not distribute or publish this report without Western Canada Safety Services Ltd.'s consent except as required by law or court order. Western Canada Safety Services Ltd. will not distribute or publish this report without client's consent except as required by law or court order.

The information and opinions expressed in this report are given in response to a limited assignment and should only be evaluated and implemented in connection with that assignment. Western Canada Safety Services Ltd. accepts responsibility for the competent performance of its duties in executing the assignment and preparing this report in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

All of which is Respectfully Submitted:

Western Canada Safety Services Ltd.

Signature on file

Richard Forget MSc(A), CIH, CRSP
Senior Industrial Hygienist

TABLE 1:
Bulk Sample Collection for
Asbestos Identification at
North Shore Fire Hall; Crescent Valley Fire Hall; Passmore Fire Hall;
Winlaw Fire Hall; Pass Creek Fire Hall; and Tarry's Fire Hall
Assessment Dates: December 12th, 14th and 16th Project No. 2016-353
Bold highlight denotes positive ACM

Sample Number	Sample Location	Material Type	Asbestos Type and %	Friable	Condition
NORTH SHORE FIRE HALL					
1 (56515-001)	2 nd floor, training room, A/V room NE corner	Sheet vinyl flooring (SVF)	Non asbestos	--	--
2 (56515-002)	2 nd floor training room, SW corner	Drywall joint compound (DJC)	Non asbestos	--	--
3 (56515-003)	2 nd floor training room, NE corner	DJC	Non asbestos	--	--
4 (56515-004)	2 nd floor training room, above south entry door	Texture ceiling (TC)	Non asbestos	--	--
5 (56515-005)	2 nd floor, west hallway, NW corner	DJC	Non asbestos	--	--
6 (56515-006)	2 nd floor, west hallway SW corner	DJC	Non asbestos	--	--
7 (56515-007)	2 nd floor west exit, SW corner at floor area	DJC	Non asbestos	--	--
8 (56515-008)	2 nd floor NW exit, exterior above door behind siding	Construction paper (CP)	Non asbestos	--	--
9 (56515-009)	2nd floor, men's washroom storage room, west side	Vinyl floor tile (VFT)	1% chrysotile asbestos	Non friable	Good
10 (56515-010)	2 nd floor, men's washroom, SW corner	DJC	Non asbestos	--	--
11 (56515-011)	2nd floor, men's washroom at storage room door	SVF	40% chrysotile asbestos	Friable	Good
Sample	Sample Location	Material	Asbestos	Friable	Condition

Number		Type	Type and %		
12 (56515-012)	2 nd floor, recreation room, SE corner	DJC	Non asbestos	--	--
13 (56515-013)	2 nd floor, recreation room, SW corner	DJC	Non asbestos	--	--
14 (56515-014)	Main floor south wall corner at compressor	DJC	Non asbestos	--	--
15 (56515-0015)	Main floor, middle corner at tank fill	DJC	Non asbestos	--	--
16 (56515-0106)	Main floor, west side ceiling at west light fixture	TC	Non asbestos	--	--
17 (56515-017)	Main floor, computer room, NW corner	DJC	Non asbestos	--	--
CRESCENT VALLEY FIRE HALL					
1 (56524-001)	Main floor main bay, SE corner	DJC	Non asbestos	--	--
2 (56524-002)	Main floor main bay NE corner	DJC	Non asbestos	--	--
3 (56524-003)	Main floor main bay, NW corner	DJC	Non asbestos	--	--
4 (56524-004)	Main floor office, SE corner	DJC	Non asbestos	--	--
5 (56524-005)	Main floor office, NW corner	DJC	Non asbestos	--	--
6 (56524-006)	Main floor, men's washroom, NE corner	DJC	Non asbestos	--	--
7 (56524-007)	Main floor, men's washroom south wall above closet	DJC	Non asbestos	--	--
8 (56524-008)	2 nd floor, exercise room, NE corner	DJC	Non asbestos	--	--
9 (56524-009)	2 nd floor, exercise room, SW corner	DJC	Non asbestos	--	--
10 (56524-010)	2 nd floor kitchen, south wall at entry	SVF	Non asbestos	--	--
11 (56524-011)	2 nd floor, kitchen, NE corner	DJC	Non asbestos	--	--
Sample Number	Sample Location	Material Type	Asbestos Type and %	Friable	Condition

12 (56524-012)	Main floor, exterior at entry door behind vinyl siding	CP	Non asbestos	--	--
PASSMORE FIRE HALL					
1 (56514-001)	Main floor, main bay NE corner	DJC	Non asbestos	--	--
2 (56514-002)	Main floor, main bay, NW corner	DJC	Non asbestos	--	--
3 (56514-003)	Main floor, main bay, SW corner	DJC	Non asbestos	--	--
4 (56514-004)	Main floor, SE storage room, SE corner	DJC	Non asbestos	--	--
5 (56514-005)	Main floor, office, NE corner	DJC	Non asbestos	--	--
6 (56514-006)	Main floor, office, SW corner	DJC	Non asbestos	--	--
7 (56514-007)	Main floor, men's washroom, NW corner	DJC	Non asbestos	--	--
8 (56514-008)	Main floor, men's washroom, south wall	DJC	Non asbestos	--	--
9 (56514-009)	Main floor, hallway by north door	DJC	Non asbestos	--	--
10 (56514-010)	2 nd floor family room, SE corner	DJC	Non asbestos	--	--
11 (56514-011)	2 nd floor family room, NE corner	DJC	Non asbestos	--	--
12 (56514-012)	2 nd floor kitchen, SE corner	DJC	Non asbestos	--	--
13 (56514-013)	2 nd floor kitchen, NW corner	SVF	Non asbestos	--	--
14 (56514-014)	Attic at gable peak	CP	Non asbestos	--	--
WINLAW FIRE HALL					
1 (56511-001)	Main floor, main bay, SE corner	DJC	Non asbestos	--	--
2 (56511-002)	Main floor, main bay, NE corner	DJC	Non asbestos	--	--
3 (56511-003)	Main floor office, SE corner	DJC	Non asbestos	--	--
Sample Number	Sample Location	Material Type	Asbestos Type and %	Friable	Condition
4 (56511-004)	Main floor office,	DJC	Non asbestos	--	--

	NW corner				
5 (56511-005)	Main floor office, NW corner	SVF	Non asbestos	--	--
6 (56511-006)	Main floor hallway by east entry	VFT	Non asbestos	--	--
7 (56511-007)	Main floor, men's washroom, NE corner	DJC	Non asbestos	--	--
8 (56511-008)	Main floor, men's washroom, south wall	DJC	Non asbestos	--	--
9 (56511-009)	Main floor workshop, SW corner	DJC	Non asbestos	--	--
10 (56511-010)	2 nd floor training room, SW corner	DJC	Non asbestos	--	--
11 (56511-011)	2 nd floor training room SE corner	DJC	Non asbestos	--	--
12 (56511-012)	2 nd floor kitchen NE corner	DJC	Non asbestos	--	--
13 (56511-013)	2 nd floor kitchen, SW corner	DJC	Non asbestos	--	--
14 (56511-014)	Main floor ambulance bay, NW corner	DJC	Non asbestos	--	--
15 (56511-015)	Main floor ambulance bay, E corner	DJC	Non asbestos	--	--
16 (56511-016)	Attic gable peak	CP	Non asbestos	--	--
PASS CREEK FIRE HALL					
1 (56522-001)	Main floor, main bay, NE corner	DJC	Non asbestos	--	--
2 (56522-002)	Main floor, main bay SE corner	mastic	Non asbestos	--	--
3 (56522-003)	Main floor, small bay SE corner	DJC	Non asbestos	--	--
4 (56522-004)	Main floor, small bay NE corner	DJC	Non asbestos	--	--
5 (56522-005)	Main floor, office, NE corner	DJC	Non asbestos	--	--
6 (56522-006)	Main floor office, SE corner	DJC	Non asbestos	--	--
Sample Number	Sample Location	Material Type	Asbestos Type and %	Friable	Condition
7 (56522-007)	Main floor,	DJC	Non asbestos	--	--

	hallway, NW corner				
8 (56522-008)	Main floor, men's washroom, NE corner	DJC	Non asbestos	--	--
9 (56522-009)	Main floor men's washroom, SE corner	DJC	Non asbestos	--	--
10 (56522-010)	2 nd floor, recreation room, NE corner	DJC	Non asbestos	--	--
11 (56522-011)	2 nd floor, recreation room, SE corner	DJC	Non asbestos	--	--
12 (56522-012)	2 nd floor, kitchen, SE corner	DJC	Non asbestos	--	--
13 (56522-013)	2 nd floor, exercise room, NW corner	DJC	Non asbestos	--	--
14 (56522-014)	2 nd floor, exercise room, SE corner	DJC	Non asbestos	--	--
15 (56522-015)	Exterior north wall by sliding doors	Vermiculite insulation (V)	Trace actinolite asbestos	Friable	Good
TARRY'S FIRE HALL					
1 (56523-001)	Main floor, main bay, SW corner	V	Trace actinolite asbestos	Friable	Good
2 (56523-002)	Main floor, workshop north wall	V	Trace actinolite asbestos	Friable	Good
3 (56523-003)	Main floor workshop, middle corner	DJC	Non asbestos	--	--
4 (56523-004)	Main floor workshop, SE corner	DJC	Non asbestos	--	--
5 (56523-005)	Main floor, south washroom, NE corner	DJC	Non asbestos	--	--
6 (56523-006)	Main floor, north washroom, SE corner	DJC	Non asbestos	--	--
7 (56523-007)	Main floor office, NW corner	DJC	Non asbestos	--	--
Sample Number	Sample Location	Material Type	Asbestos Type and %	Friable	Condition
8 (56523-008)	2 nd floor, family	DJC	Non asbestos	--	--

	room, entry corner				
9 (56523-009)	2 nd floor, family room, NW corner	VFT	Non asbestos	--	--
10 (56523-010)	2 nd floor, kitchen, NW corner	DJC	Non asbestos	--	--
11 (56523-011)	2 nd floor kitchen, NE corner	DJC	Non asbestos	--	--
12 (56523-012)	2 nd floor, storage room, NW corner	VFT	Non asbestos	--	--
13 (56523-013)	2 nd floor, storage room, NW corner	DJC	Non asbestos	--	--
14 (56523-014)	2 nd floor, storage room south wall middle	DJC	Non asbestos	--	--

ACM: Asbestos-containing material

ND: Not detected

<: Less than

--: Not applicable

NOTE: In this table, friability and condition is provided only for material identified as an ACM.

Table 2
RECORD OF ACM LOCATION
North Shore fire hall; Pass Creek fire hall; Tarry's fire hall

Sample #	Location	ACM %	Type	Friable	Est. Amount	Condition	Comments
NORTH SHORE FIRE HALL							
9 (56515-009)	2nd floor, men's washroom, storage room	1	VFT chrysotile	No	~16 square feet	good	-
11 (56515-011)	2nd floor, men's washroom	40	SVF chrysotile	Yes	~80 square feet	Good	-
Sample #	Location	ACM %	Type	Friable	Est. Amount	Condition	Comments

PASS CREEK FIRE HALL							
15 (56522-015)	Exterior north cinder block wall, west of doors	Trace	V actinolite	Yes	All original exterior walls	Good	Assume all cinder block walls contain vermiculite unless new construction post 1990
TARRY'S FIRE HALL							
1 (56523-001)	Main floor, main bay, SW corner in cinder block wall	Trace	V actinolite	Yes	All original exterior walls	Good	Assume all cinder block walls contain vermiculite unless new construction post 1990
2 (56198-002)	Main floor workshop, north cinder block wall	Trace	V actinolite	Yes	All original exterior walls	Good	Assume all cinder block walls contain vermiculite unless new construction post 1990

Table 3: LEAD IN PAINT SAMPLE RESULTS
NORTH SHORE FIRE HALL; CRESCENT VALLEY FIRE HALL; PASSMORE FIRE HALL;
WINLAW FIRE HALL; PASS CREEK FIRE HALL; TARRY'S FIRE HALL
(Concentrations >1000 ppm are highlighted)

Sample #	Location	Lead concentration (ppm)	Comments
North Shore			
A (QH4359)	2 nd floor training room, A/V room N. wall	4.4	Light blue paint on drywall
B (QH4360)	2 nd floor training room, A/V room N. wall	<3.0	blue paint on wood baseboards
C (QH4361)	2 nd floor west exit west wall	<3.0	White paint on drywall
D (QH4362)	2 nd floor west exit door frame	204	Red paint on frame
E (QH4363)	2 nd floor, men's washroom toilet east wall	11.7	Beige paint on drywall
Sample #	Location	Lead concentration (ppm)	Comments

North Shore (cont'd)			
F (QH4364)	Main floor, east entry, south wall above compressor	<3.0	Grey paint on drywall
Crescent Valley			
A (QH4550)	Main floor, main bay NW corner wall	4.1	Beige wall paint
B (QH4551)	Main floor, main bay NW corner floor	5480	Red floor paint
C (QH4552)	Main floor, office, NW corner wall	4.9	Olive wall paint
D (QH4553)	Main floor, men's washroom, NE corner floor	2510	Grey floor paint
E (QH4554)	2 nd floor, exercise room, SW corner wall	4.6	Brown door trim paint
F (QH4555)	2 nd floor, kitchen north door trim	805	Orange paint
Passmore			
A (QH4386)	Main floor, main bay, SW corner, floor	20.8	Grey floor paint
B (QH4387)	Main floor, main bay, SW corner wall	3.6	White wall paint
C (QH4388)	Main floor, main bay, SW corner window trim	9280	Red wood trim paint
D (QH4389)	Main floor, office, SW corner	7.8	Olive wall paint
E (QH4390)	Main floor, washroom, S. wall	8.9	Light blue wall paint
F (QH4391)	Main floor, hallway by east exit door	5.6	Brown wall paint
G (QH4392)	2 nd floor family room SE corner wall	6.5	Red wall paint
H (QH4393)	2 nd floor kitchen, SE corner wall	<3.0	Off white wall paint
Winlaw			
A (QH4351)	Main floor, office, NW corner wall	6.5	Light blue wall paint
B (QH4352)	Main floor, hallway, west wall by exit	3.2	White wall paint
C (QH4353)	Main floor men's washroom, NE corner floor	5.5	Beige wall paint
D (QH4354)	Main floor, men's washroom, NE corner floor	13.4	Brown floor paint
E (QH4355)	Main floor, workshop, SW corner, wall	11.2	Salmon wall paint
Sample #	Location	Lead concentration (ppm)	Comments

Winlaw (cont'd)			
F (QH4356)	2 nd floor, training room, stair handrail post	185	Brown trim paint
G (QH4357)	2 nd floor, kitchen SW corner wall	4.2	Light blue wall paint
Pass Creek			
A (QH4376)	Main floor, main bay, SW corner floor	72	Grey floor paint
B (QH4377)	Main floor, main bay, SW corner, post	14.2	Red paint on post
C (QH4378)	Main floor, office NE corner, wall	7.9	Pink wall paint
D (QH4379)	Main floor, men's washroom, NE corner, wall	7.4	White wall paint
E (QH4380)	2 nd floor, recreation room, SE corner, wall	<3.0	White wall paint
Tarry's			
A (QH4341)	Main floor, workshop at middle corner, floor	61.6	Grey floor paint
B (QH4342)	Main floor south washroom north wall middle, wall	13.7	Light blue wall paint
C (QH4343)	Main floor, office door trim	180	Dark blue trim paint
D (QH4344)	2 nd floor, storage room, NW at door, wall	9.6	Beige wall paint

Appendix A
Laboratory Report
Asbestos Identification

NORTH SHORE FIRE DEPARTMENT

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56515	Reference: North Shore Fire Department
Client: Western Canada Safety Services	Report Date: 22-Dec-16
Address: 2703 Greenwood Road Nelson BC	Contact: Richard Forget

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56515

Address: 2703 Greenwood Road, Nelson

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 12-Dec-16

Reference: North Shore Fire Department

Date Analyzed: 21-Dec-16

Analyst: EC

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56515-001	Sheet Vinyl Flooring 2nd floor / Training room - AV room Northeast corner	Green vinyl sheet 70% White fibrous layer 30%	Not Detected Not Detected	Non-Fibrous 100% Cellulose 50%, Non-Fibrous 45%, Fibreglass 5%
13860-56515-002	Drywall Joint Compound 2nd floor / Training room Southwest corner	Paint 20% White chalky mix 20% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100%
13860-56515-003	Drywall Joint Compound 2nd floor / Training room Northeast corner	Paint 20% White chalky mix 50% Paper 10% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%
13860-56515-004	Textured Ceiling 2nd floor / Training room Above south entry door	Paint 20% White chalky mix 80%	Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 99%, Cellulose 1%
13860-56515-005	Drywall Joint Compound 2nd floor / West hallway Northwest corner	Paint 20% White fibrous layer 40% Paper 20% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100%
13860-56515-006	Drywall Joint Compound 2nd floor / West hallway Southwest corner	Paint 20% White chalky mix 40% Paper 20% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100%
13860-56515-007	Drywall Joint Compound 2nd floor / West exit Southwest corner	Paint 20% White chalky mix 30% Paper 20% Gypsum 30%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56515

Address: 2703 Greenwood Road, Nelson

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 12-Dec-16

Reference: North Shore Fire Department

Date Analyzed: 21-Dec-16

Analyst: EC

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56515-008	Construction Paper No. 7A 2nd floor / Northwest exit Exterior above door behind siding	Black paper 100%	Not Detected	Cellulose 60%, Non-Fibrous 40%
13860-56515-009	Vinyl Floor Tile No. 8 2nd floor / Mens washroom - HWT room West side	Hard beige vinyl 98% Yellow adhesive 2%	YES - Chrysotile 1% Not Detected	Non-Fibrous 99% Non-Fibrous 100%
13860-56515-010	Drywall Joint Compound No. 9 2nd floor / Mens washroom Southwest corner	Paint 20% White chalky mix 40% Paper 20% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100%
13860-56515-011	Sheet Vinyl Flooring No. 10 2nd floor / Mens washroom - HWT room At door	White vinyl 60% White fibrous layer 35% Orange adhesive 5%	Not Detected YES - Chrysotile 40% Not Detected	Non-Fibrous 100% Non-Fibrous 60% Non-Fibrous 100%
13860-56515-012	Drywall Joint Compound No. 11 2nd floor / Recreation room Southeast corner	Paint 20% White chalky mix 40% Paper 15% Orange adhesive 5% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 100% Non-Fibrous 100%
13860-56515-013	Drywall Joint Compound No. 12 2nd floor / Recreation room Southwest corner	Paint 20% White chalky mix 40% Paper 20% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%
13860-56515-014	Drywall Joint Compound No. 13 Main floor- South wall corner at compressor	Paint 20% White chalky mix 60% Paper 20%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56515

Address: 2703 Greenwood Road, Nelson

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 12-Dec-16

Reference: North Shore Fire Department

Date Analyzed: 21-Dec-16

Analyst: EC

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56515-015	Drywall Joint Compound No. 14 Main floor- Middle corner at tank fill	Paint 20% White chalky mix 80%	Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100%
13860-56515-016	Textured Ceiling No. 15 Main floor / West side ceiling At west light fixture	Paint 20% White chalky mix 80%	Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100%
13860-56515-017	Drywall Joint Compound No. 16 Main floor / Computer room Northwest corner	Paint 20% White chalky mix 60% Paper 20%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Total Number of Samples: 17

Report Reviewed By: Emily McGloin



Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 4 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

CRESCENT VALLEY FIRE DEPARTMENT**TSS PACIFIC - RECORD OF ANALYSIS****Report Number:** 13860-56524**Reference:** Crescent Valley Fire Dept**Client:** Western Canada Safety Services**Report Date:** 22-Dec-16**Address:** 1365 Highway 6 Crescent Valley
BC**Contact:** Richard Forget

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 3



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56524

Address: 1365 Highway 6 Crescent Valley,

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 16-Dec-16

Reference: Crescent Valley Fire Dept

Date Analyzed: 21-Dec-16

Analyst: SM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56524-001	Drywall Joint Compound Main floor / Main bay Southeast corner	Paint 20% White chalky mix 30% Paper 40% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56524-002	Drywall Joint Compound Main floor / Main bay Northeast corner	Paint 20% White chalky mix 30% Paper 30% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Fibreglass 2%
13860-56524-003	Drywall Joint Compound Main floor / Main bay Northwest corner	Paint 20% White chalky mix 40% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56524-004	Drywall Joint Compound Main floor / Office Southeast corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56524-005	Drywall Joint Compound Main floor / Office Northwest corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56524-006	Drywall Joint Compound Main floor / Men's washroom Northeast corner	Paint 10% White chalky mix 30% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 97%, Fibreglass 3%
13860-56524-007	Drywall Joint Compound Main floor / Men's washroom South wall - above closet	Paint 10% White chalky mix 40% Paper 30% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 97%, Fibreglass 3%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 3



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56524

Address: 1365 Highway 6 Crescent Valley,

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 16-Dec-16

Reference: Crescent Valley Fire Dept

Date Analyzed: 21-Dec-16

Analyst: SM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56524-008	Drywall Joint Compound 2nd Floor / Exercise room Northeast corner	Paint 10% White chalky mix 30% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 97%, Fibreglass 2%, Cellulose 1%
13860-56524-009	Drywall Joint Compound 2nd Floor / Exercise room Southwest corner	Paint 10% White chalky mix 30% Paper 50% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Fibreglass 2%
13860-56524-010	Sheet Vinyl Flooring 2nd Floor / Kitchen South wall at entry	Vinyl sheet 20% Foam core 50% Beige fibrous layer 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 60%, Non-Fibrous 30%, Fibreglass 10%
13860-56524-011	Drywall Joint Compound 2nd Floor / Kitchen Northeast corner	Paint 25% White chalky mix 50% Paper 20% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Fibreglass 2%
13860-56524-012	Construction Paper Main floor / Exterior at entry door Behind vinyl siding	Brown fibrous layer 100%	Not Detected	Cellulose 80%, Non-Fibrous 20%

Total Number of Samples: 12

Report Reviewed By: Emily McGloin

Emily McGloin

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 3



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

PASSMORE FIRE DEPARTMENT**TSS PACIFIC - RECORD OF ANALYSIS****Report Number:** 13860-56514**Reference:****Client:** Western Canada Safety Services**Report Date:** 22-Dec-16**Address:** Passmore Fire Dept.
Winlaw BC**Contact:** Richard Forget

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56514

Address: Passmore Fire Dept., Winlaw

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: SM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56514-001	Drywall Joint Compound 1 Main floor / Main bay Northeast corner	Paint 20% White chalky mix 40% Paper 30% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 95%, Fibreglass 5%
13860-56514-002	Drywall Joint Compound 2 Main floor / Main bay Northwest corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56514-003	Drywall Joint Compound 3 Main floor / Main bay Southwest corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56514-004	Drywall Joint Compound 5 Main floor / Southeast storage room Southeast corner	Paint 10% White chalky mix 30% Paper 30% Gypsum 30%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 97%, Fibreglass 3%
13860-56514-005	Drywall Joint Compound 6 Main floor / Office Northeast corner	Paint 10% White chalky mix 40% Paper 40% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 2%
13860-56514-006	Drywall Joint Compound 7 Main floor / Office Southwest corner	Paint 10% White chalky mix 30% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 2%
13860-56514-007	Drywall Joint Compound 8 Main floor / Men's washroom Northwest corner	Paint 20% White chalky mix 20% Paper 50% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 2%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56514

Address: Passmore Fire Dept., Winlaw

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: SM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56514-008	Drywall Joint Compound 9 Main floor / Men's washroom South wall	Paint 20% White chalky mix 30% Paper 40% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 2%
13860-56514-009	Sheet Vinyl Flooring 10 Main floor / Hallway By north door	Vinyl sheet 20% Foam core 60% Beige fibrous layer 20%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 70%, Non-Fibrous 30%
13860-56514-010	Drywall Joint Compound 11 2nd Floor / Family room Southeast corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56514-011	Drywall Joint Compound 12 2nd Floor / Family room Northeast corner	Paint 20% White chalky mix 50% Paper 30%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56514-012	Drywall Joint Compound 13 2nd Floor / Kitchen Southeast corner	Paint 10% White chalky mix 50% Paper 30% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 2%
13860-56514-013	Sheet Vinyl Flooring 14 2nd Floor / Kitchen Northwest corner	Vinyl sheet 20% Foam core 60% Beige fibrous layer 20%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 70%, Non-Fibrous 30%
13860-56514-014	Construction Paper 15 Attic At the leak	Black fibrous mix 100%	Not Detected	Cellulose 70%, Non-Fibrous 30%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56514

Address: Passmore Fire Dept., Winlaw

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: SM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
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Total Number of Samples: 14

Report Reviewed By: Elizabeth Camacho



Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 4 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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BAPAT Lab #185672

WINLAW FIRE DEPARTMENT**TSS PACIFIC - RECORD OF ANALYSIS****Report Number:** 13860-56511**Reference:****Client:** Western Canada Safety Services**Report Date:** 21-Dec-16**Address:** Winlaw Fire Department**Contact:** Richard Forget

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56511

Address: Winlaw Fire Department,

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56511-001	Drywall Joint Compound Main floor / Main bay Southeast corner	Paint 20% White chalky mix 35% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56511-002	Drywall Joint Compound Main floor / Main bay Northeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56511-003	Drywall Joint Compound Main floor / Office Southeast corner	Paint 20% White chalky mix 35% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56511-004	Drywall Joint Compound Main floor / Office Northwest corner	Paint 20% White chalky mix 30% Paper 50%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56511-005	Sheet Vinyl Flooring Main floor / Office Northwest corner	Firm beige vinyl 80% Beige mesh 20%	Not Detected Not Detected	Non-Fibrous 80%, Cellulose 20% Cellulose 100%
13860-56511-006	Vinyl Floor Tile Main floor / Hallway By east entry	Black mastic 5% Hard grey vinyl 95%	Not Detected Not Detected	Non-Fibrous 99%, Cellulose 1% Non-Fibrous 100%
13860-56511-007	Drywall Joint Compound Main floor / Men's washroom Northeast corner	Paint 20% White chalky mix 30% Paper 50%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 4



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BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56511

Address: Winlaw Fire Department,

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56511-008	Drywall Joint Compound Main floor / Men's washroom South wall	Paint 25% White chalky mix 40% Paper 30% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-009	Drywall Joint Compound Main floor / Work shop Southwest corner	Paint 20% White chalky mix 20% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-010	Drywall Joint Compound 2nd floor / Train room Southwest corner	Paint 20% White chalky mix 35% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-011	Drywall Joint Compound 2nd floor / Train room Southeast corner	Paint 20% White chalky mix 30% Paper 40% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-012	Drywall Joint Compound 2nd floor / Kitchen Northeast corner	Paint 20% White chalky mix 35% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-013	Drywall Joint Compound 2nd floor / Kitchen Southwest corner	Paint 20% White chalky mix 35% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56511-014	Drywall Joint Compound Main floor / Ambulance bay Northwest corner	Paint 20% White chalky mix 40% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56511

Address: Winlaw Fire Department,

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 20-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56511-015	Drywall Joint Compound Main floor / Ambulance bay Northeast corner	Paint 20%	Not Detected	Non-Fibrous 100%
		White chalky mix 20%	Not Detected	Non-Fibrous 100%
		Paper 20%	Not Detected	Cellulose 100%
		Gypsum 40%	Not Detected	Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56511-016	Construction Paper Attic / Peak	Black tar paper 100%	Not Detected	Cellulose 80%, Non-Fibrous 20%

Total Number of Samples: 16

Report Reviewed By: Stephen McIntyre

Stephen McIntyre

Analyzed in accordance with NIOSH METHOD 9002 - ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 4 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
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- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

PASS CREEK FIRE DEPARTMENT**TSS PACIFIC - RECORD OF ANALYSIS****Report Number:** 13860-56522**Reference:****Client:** Western Canada Safety Services**Report Date:** 21-Dec-16**Address:** 1789 Winter Road , Pass Creek Fire Department
Castlegar**Contact:** Richard Forget

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 - ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56522

Address: 1789 Winter Road, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56522-001	Drywall Joint Compound Main floor / Main hall Northeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56522-002	Drywall Joint Compound Main floor / Main hall Southeast corner	Paint 20% White chalky mix 20% Paper 40% Gypsum 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56522-003	Drywall Joint Compound Main floor / Small bay Southeast corner	Paint 20% White chalky mix 30% Paper 50%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56522-004	Drywall Joint Compound Main floor / Small bay Northeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56522-005	Drywall Joint Compound Main floor / Office Northeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56522-006	Drywall Joint Compound Main floor / Office Southeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum with mica 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%
13860-56522-007	Drywall Joint Compound Main floor / Hallway Northwest corner	Paint 20% White chalky mix 30% Paper 40% Gypsum 10%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Cellulose 1%, Fibreglass 1%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56522

Address: 1789 Winter Road, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56522-008	Drywall Joint Compound Main floor / Men's washroom Northeast corner	Paint 20% White chalky mix 30% Paper 30% Gypsum with mica 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%
13860-56522-009	Drywall Joint Compound Main floor / Men's washroom Southeast corner	Paint 15% White chalky mix 30% Paper 30% Gypsum with mica 25%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 98%, Fibreglass 2%
13860-56522-010	Drywall Joint Compound 2nd floor / Recreation room Northeast corner	Paint 20% White chalky mix 25% Paper 30% Gypsum 25%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%, Fibreglass 1%
13860-56522-011	Drywall Joint Compound 2nd floor / Recreation room Southeast corner	Paint 15% White chalky mix 30% Paper 30% Gypsum 25%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56522-012	Drywall Joint Compound 2nd floor / Kitchen Southeast corner	Paint 15% White chalky mix 40% Paper 40% Gypsum 5%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Cellulose 1%
13860-56522-013	Drywall Joint Compound 2nd floor / Exercise room Northwest corner	Paint 10% White chalky mix 50% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56522-014	Drywall Joint Compound 2nd floor / Exercise room Southeast corner	Paint 20% White chalky mix 40% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56522

Address: 1789 Winter Road, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 14-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56522-015	Vermiculite Exterior / North wall West of doors	Vermiculite 100%	TRACE - Actinolite	Non-Fibrous >99%

Total Number of Samples: 15

Report Reviewed By: Stephen McIntyre *Stephen Mc Intyre*

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 4 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TARRY'S FIRE DEPARTMENT**TSS PACIFIC - RECORD OF ANALYSIS****Report Number:** 13860-56523**Reference:****Client:** Western Canada Safety Services**Report Date:** 21-Dec-16**Address:** Tarry's Fire Hall
Castlegar BC**Contact:**

Please find enclosed our laboratory's results for the bulk sample(s) submitted to our office for identification.

Sample examination was conducted in accordance with the NIOSH 9002 analytical method using polarized light microscopy and dispersion staining techniques.

A result of 'Asbestos-Not detected' means no asbestos fibres were detected. When asbestos is detected, the minimum quantitation limit is 1%. Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.

This test report relates only to the items tested and any extrapolation by the client of the results is the responsibility of the client. For samples not collected by TSS Pacific, the accuracy of locations and material(s) is the responsibility of the client. Samples will be disposed of after one month, unless we are instructed otherwise.

If asbestos products are identified in this report they should be remediated safely in accordance with the requirements of Part 6.0 of the Worksafe B.C. Occupational Health and Safety Regulation. In general this will require the completion of a Risk Assessment (Part 6.6.1) completed by a "Qualified Person" as defined in Part 6.1.

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 1 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56523

Address: Tarry's Fire Hall, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 16-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56523-001	Vermiculite 1A Main floor / Main bay Southwest corner	Vermiculite 100%	TRACE - Actinolite	Non-Fibrous >99%
13860-56523-002	Vermiculite 1B Main floor / Workshop North wall	Vermiculite 100%	TRACE - Actinolite	Non-Fibrous >99%
13860-56523-003	Drywall Joint Compound 1 Main floor / Workshop Middle corner	Paint 30% White chalky mix 70%	Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100%
13860-56523-004	Drywall Joint Compound 2 Main floor / Workshop Southeast corner	Paint 20% White chalky mix 30% Paper 30% Gypsum with mica 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%
13860-56523-005	Drywall Joint Compound 3 Main floor / South washroom Northeast corner	Paint 20% White chalky mix 30% Paper 30% Gypsum with mica 20%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%
13860-56523-006	Drywall Joint Compound 4 Main floor / North washroom Southeast corner	Paint 25% White chalky mix 25% Paper 50%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56523-007	Drywall Joint Compound 5 Main floor / Office Northwest corner	Paint 20% White chalky mix 25% Paper 30% Gypsum with mica 25%	Not Detected Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100% Non-Fibrous 99%, Fibreglass 1%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 2 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56523

Address: Tarry's Fire Hall, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 16-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
13860-56523-008	Drywall Joint Compound 6 2nd Floor / Family room Entry corner	Paint 20% White chalky mix 80%	Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100%
13860-56523-009	Vinyl Floor Tile 7 2nd Floor / Family room Northwest corner	Firm white vinyl 95% Black mastic 2% Wood 3%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 99%, Cellulose 1% Cellulose 100%
13860-56523-010	Drywall Joint Compound 8 2nd Floor / Kitchen Northwest corner	Paint 20% White chalky mix 40% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56523-011	Drywall Joint Compound 9 2nd Floor / Kitchen Northeast corner	Paint 30% White chalky mix 35% Paper 35%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56523-012	Vinyl Floor Tile 10 2nd Floor / Storage room Northwest corner	Firm white vinyl 95% Black mastic 2% Wood 3%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 98%, Cellulose 2% Cellulose 100%
13860-56523-013	Drywall Joint Compound 11 2nd Floor / Storage room Northwest corner	Paint 20% White chalky mix 40% Paper 40%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%
13860-56523-014	Drywall Joint Compound 12 2nd Floor / Storage room South wall middle	Paint 20% White chalky mix 45% Paper 35%	Not Detected Not Detected Not Detected	Non-Fibrous 100% Non-Fibrous 100% Cellulose 100%

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 3 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

TSS PACIFIC - RECORD OF ANALYSIS

Report Number: 13860-56523

Address: Tarry's Fire Hall, Castlegar

Sampled By: Western Canada Safety Services

Client Name: Western Canada Safety Services

Date Sampled: 16-Dec-16

Reference:

Date Analyzed: 21-Dec-16

Analyst: EM

NO.	SAMPLE INFORMATION	LAYER	ASBESTOS	OTHER MATERIALS
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Total Number of Samples: 14

Report Reviewed By: Stephen McIntyre

Stephen McIntyre

Analyzed in accordance with NIOSH METHOD 9002 – ASBESTOS (BULK) BY PLM

AIHA BAPAT Lab #185672

Page 4 of 4



- A result of 'Asbestos-Not detected' means no asbestos fibres were detected;
- When asbestos is detected, the minimum quantitation limit is 1%;
- Levels of asbestos present but below 1% based on visual estimation will be described as TRACE.



BAPAT Lab #185672

Appendix A1
Laboratory Report
Lead in Paint Analysis Results

NORTH SHORE FIRE DEPARTMENT



December 23rd, 2016

TSS Ref: 13860-56495

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – 2703 Greenwood Road, Nelson, BC

Please find attached the results for the six paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56495
Your C.O.C. #: 08434196

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/22
Report #: R2321577
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3293****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	6	2016/12/22	2016/12/22	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 1
Page 1 of 6

Maxxam Analytics International Corporation c/o Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



Success Through Science®

Maxxam Job #: B6B3293
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56495

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4359	QH4360	QH4361	QH4362	QH4363		
Sampling Date		2016/12/12	2016/12/12	2016/12/12	2016/12/12	2016/12/12		
COC Number		08434196	08434196	08434196	08434196	08434196		
	UNITS	13860-56495-A	13860-56495-B	13860-56495-C	13860-56495-D	13860-56495-E	RDL	QC Batch
Total Metals by ICP								
Total Lead (Pb)	µg/g	4.4	<3.0	<3.0	204	11.7	3.0	8511288
RDL = Reportable Detection Limit								

Maxxam ID		QH4364		
Sampling Date		2016/12/12		
COC Number		08434196		
	UNITS	13860-56495-F	RDL	QC Batch
Total Metals by ICP				
Total Lead (Pb)	µg/g	<3.0	3.0	8511288
RDL = Reportable Detection Limit				



Maxxam Job #: B6B3293
Report Date: 2016/12/22

QUALITY ASSURANCE REPORT

TSS Total Safety Services Inc.
Client Project #: 13860-56495

Success Through Science®

QC Batch	Parameter	Date	Method Blank		RPD		QC Standard	
			Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8511288	Total Lead (Pb)	2016/12/22	<3.0	ug/g	NC	35	91	80 - 120

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).



Success Through Science®

Maxxam Job #: B6B3293
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56495

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Rob Reinert", is written over a horizontal line.

Rob Reinert, B.Sc., Scientific Spécialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

PACIFIC PROJECT: 13860 - 50795		CONTACT NAME: Richard Forget	
CLIENT: Western Canada Safety Services	PROJECT ADDRESS: 2703 Greenwood Rd Melton		
DATE SAMPLED: Dec 12/16	REPORT RESULTS BY: LEAD		
COLLECTED BY: R Forget	TELEPHONE ☐	Next day	☐
		2 day	☐
	FAX ☐	3 day	☐
Approx. Age of Bldg: 1980	EMAIL ☒	5 day (regular)	☒
wcssl@shaw.ca		SPECIAL INSTRUCTIONS: 1. 1/1	

[illegible]

RELINQUISHED BY: R Forget DATE: Dec 16/16

RECEIVED BY: _____ DATE: _____



CUSTODY SEAL INTACT? YES 1 NO

INITIALS: EC

DATE: 19 Dec 2010

Page 6 of 7

#102 - 4566 Canada Way Burnaby, BC V5G 1J9
(604) 292-4700

PCV13.9

CRESCENT VALLEY FIRE DEPARTMENT



December 23rd, 2016

TSS Ref: 13860-56500

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – Crescent Valley Fire Department – 1365 Highway 6, Crescent Valley

Please find attached the results for the six paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56500
Your C.O.C. #: 08434199

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/22
Report #: R2321576
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3319****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	6	2016/12/22	2016/12/22	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

=====

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total Cover Pages : 1
Page 1 of 6

Maxxam Analytics International Corporation c/o Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



Success Through Science®

Maxxam Job #: B6B3319
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56500

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4550	QH4551	QH4552	QH4553	QH4554		
Sampling Date		2016/12/12	2016/12/12	2016/12/12	2016/12/12	2016/12/12		
COC Number		08434199	08434199	08434199	08434199	08434199		
	UNITS	13860-56500-A	13860-56500-B	13860-56500-C	13860-56500-D	13860-56500-E	RDL	QC Batch
Total Metals by ICP								
Total Lead (Pb)	µg/g	4.1	5480	4.9	2510	4.6	3.0	8511288
RDL = Reportable Detection Limit								

Maxxam ID		QH4555		
Sampling Date		2016/12/12		
COC Number		08434199		
	UNITS	13860-56500-F	RDL	QC Batch
Total Metals by ICP				
Total Lead (Pb)	µg/g	805	3.0	8511288
RDL = Reportable Detection Limit				

Page 56

PASSMORE FIRE DEPARTMENT



December 23rd, 2016

TSS Ref: 13860-56491

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – Passmore Fire Department

Please find attached the results for the eight paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56491
Your C.O.C. #: 08434194

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/23
Report #: R2321910
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3298****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	8	2016/12/23	2016/12/23	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

=====

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Total Cover Pages : 1
Page 1 of 6

Maxxam Analytics International Corporation c/o Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386



Success Through Science®

Maxxam Job #: B6B3298
Report Date: 2016/12/23

TSS Total Safety Services Inc.
Client Project #: 13860-56491

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4386	QH4387	QH4388	QH4389	QH4390		
Sampling Date		2016/12/14	2016/12/14	2016/12/14	2016/12/14	2016/12/14		
COC Number		08434194	08434194	08434194	08434194	08434194		
	UNITS	13860-56491-A	13860-56491-B	13860-56491-C	13860-56491-D	13860-56491-E	RDL	QC Batch
Total Metals by ICP								
Total Lead (Pb)	µg/g	20.8	3.6	9280	7.8	8.9	3.0	8511933
RDL = Reportable Detection Limit								

Maxxam ID		QH4391	QH4392	QH4393		
Sampling Date		2016/12/14	2016/12/14	2016/12/14		
COC Number		08434194	08434194	08434194		
	UNITS	13860-56491-F	13860-56491-G	13860-56491-H	RDL	QC Batch
Total Metals by ICP						
Total Lead (Pb)	µg/g	5.6	6.5	<3.0	3.0	8511933
RDL = Reportable Detection Limit						

TSS PACIFIC CHAIN OF CUSTODY	
PACIFIC PROJECT: 13860 - 56491	CONTACT NAME: Richard Forget
CLIENT: Western Canada Safety Services	PROJECT ADDRESS: Passmore Fire Dept.
DATE SAMPLED: Dec 14	REPORT RESULTS BY: LEAD
COLLECTED BY: R Forget	TELEPHONE ☐ Next day ☐
	2 day ☐
	FAX ☐ 3 day ☐
Approx. Age of Bldg: 1987	EMAIL ☒ 5 day (regular) ☒

[illegible]

RELINQUISHED BY: R Forget DATE: Dec 16/16

RECEIVED BY: _____ DATE: _____

CUSTODY SEAL INTACT? YES / NO INITIALS: EL DATE: 19 Dec 2016



TOTAL SAFETY[®]

Page 1 of 1

PCV13.2

WINLAW FIRE DEPARTMENT



December 23rd, 2016

TSS Ref: 13860-56497

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – Winlaw Fire Department

Please find attached the results for the seven paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56497
Your C.O.C. #: 08434197

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/22
Report #: R2321578
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3292****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	7	2016/12/22	2016/12/22	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

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Total Cover Pages : 1
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Maxxam Job #: B6B3292
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56497

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4351	QH4352	QH4353	QH4354	QH4355		
Sampling Date		2016/12/14	2016/12/14	2016/12/14	2016/12/14	2016/12/14		
COC Number		08434197	08434197	08434197	08434197	08434197		
	UNITS	13860-56497-A	13860-56497-B	13860-56497-C	13860-56497-D	13860-56497-E	RDL	QC Batch
Total Metals by ICP								
Total Lead (Pb)	ug/g	6.5	3.2	5.5	13.4	11.2	3.0	8511288
RDL = Reportable Detection Limit								

Maxxam ID		QH4356	QH4357		
Sampling Date		2016/12/14	2016/12/14		
COC Number		08434197	08434197		
	UNITS	13860-56497-F	13860-56497-G	RDL	QC Batch
Total Metals by ICP					
Total Lead (Pb)	ug/g	185	4.2	3.0	8511288
RDL = Reportable Detection Limit					

TSS PACIFIC CHAIN OF CUSTODY

PACIFIC PROJECT: 13860 - 56997.

CONTACT NAME: Richard Forget

CLIENT: Western Canada Safety Services

PROJECT ADDRESS:

DATE SAMPLED: DEC 14 1966

REPORT RESULTS BY: LEAD

COLLECTED BY: R. Ford

TELEPHONE ☐FAX ☐EMAIL

Approx. Age of Bldg:

SPECIAL INSTRUCTIONS:

All asbestos samples are analysed in accordance with the National Institute for Occupational Safety and Health (NIOSH) Analytical Method 8000, "Asbestos (bulk) by Polarized Light Microscopy."

[illegible]

Drywall Joint Compound (DJC), Plaster (P), Window Putty (WP), Textured Ceiling (TC), Ceiling Tile (CT), Vinyl Floor Tile (VFT), Sheet Vinyl Flooring (SVF), Mastic (M), Pipe Insulation (PI), Pipe Elbow (PE), Suction (S), Cement Board (CB), Tar Shingles (TS), Tar & Gravel (TG), Gasket (G), Cement (C), Grout (Gr), Vermiculite (V), Construction Paper (CP), Dust Tape (DT), etc. Please submit each flooring layer as a separate sample.

RELINQUISHED BY:

DATE:

RECEIVED BY:

DATE:



CUSTODY SEAL INTACT? YES 11 NO

INITIAL

DATE:

Page 1 of 1

#102 - 4565 Canada Way Burnaby, BC V5G 1J9
(604) 292-4700

PCV13.2

PASS CREEK FIRE DEPARTMENT



December 22nd, 2016

TSS Ref: 13860-56494

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – Passmore Fire Department – 1789 Winter Road, Castlegar, BC

Please find attached the results for the five paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56494
Your C.O.C. #: 08434195

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/22
Report #: R2321229
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3296****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	5	2016/12/22	2016/12/22	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

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Maxxam Job #: B6B3296
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56494

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4376	QH4377	QH4378	QH4379	QH4380		
Sampling Date		2016/12/14	2016/12/14	2016/12/14	2016/12/14	2016/12/14		
COC Number		08434195	08434195	08434195	08434195	08434195		
	UNITS	13860-56494-A	13860-56494-B	13860-56494-C	13860-56494-D	13860-56494-E	RDL	QC Batch
Total Metals by ICP								
Total Lead (Pb)	ug/g	72.0	14.2	7.9	7.4	<3.0	3.0	8510503
RDL = Reportable Detection Limit								

PACIFIC PROJECT: 13860		CONTACT NAME: Richard Forget	
CLIENT: Western Canada Safety Services		PROJECT ADDRESS: Passmore RD 1789 Winter Rd	
DATE SAMPLED: Dec 14/10		REPORT RESULTS BY: LEAD	
COLLECTED BY: R Forget		TELEPHONE ☐	Next day ☐
			2 day ☐
		FAX ☐	3 day ☐
Approx. Age of Bldg: 1980's		EMAIL ☒	5 day (regular) ☒

SPECIAL INSTRUCTIONS: JPEG Format.

[illegible]

RELINQUISHED BY: R Forney DATE: Dec 16/16 RECEIVED BY: EC DATE: 19 Dec 16



CUSTODY SEAL INTACT? YES / NO INITIALS: _____ DATE: _____

Page 1 of 1

PCV18.2

TARRY'S FIRE DEPARTMENT



December 22nd, 2016

TSS Ref: 13860-56498

Western Canada Safety Services
3825 Highland Road
Cranbrook, BC
V1C 6X7

Attention: Richard Forget

Reference: Lead in Paint – Tarry's Fire Hall, Castlegar, BC

Please find attached the results for the four paint samples submitted to Total Safety Services on December 19th, 2016 for lead analysis. The samples were submitted to Maxxam Analytics Laboratory for lead analysis using Inductively Coupled Plasma Spectroscopy-Atomic Emission Spectroscopy (ICP-AES).

Interpretation of results was not requested on the chain of custody form.

We thank you for having Total Safety Services conduct this work for you. Should you have any questions, please contact the lab at 604-292-4700.

Yours truly,

TSS Total Safety Services Inc.

Emily McGloin, BSc
Laboratory Analyst



Success Through Science®

Your Project #: 13860-56498
Your C.O.C. #: 08434198

Attention: Emily McGloin

TSS Total Safety Services Inc.
Suite 102
4595 Canada Way
Burnaby, BC
CANADA V5G 1J9

Report Date: 2016/12/22
Report #: R2321233
Version: 1 - Final

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: B6B3290****Received: 2016/12/20, 10:00**

Sample Matrix: PAINT
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICP-AES (acid extr. solid)	4	2016/12/22	2016/12/22	BBY7SOP-00018	EPA 6010c R3 m

Remarks:

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Amandeep Nagra, Account Specialist

Email: ANagra@maxxam.ca

Phone# (604)639-2602

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Maxxam Job #: B6B3290
Report Date: 2016/12/22

TSS Total Safety Services Inc.
Client Project #: 13860-56498

ELEMENTS BY ATOMIC SPECTROSCOPY (PAINT)

Maxxam ID		QH4341	QH4342	QH4343	QH4344		
Sampling Date		2016/12/16	2016/12/16	2016/12/16	2016/12/16		
COC Number		08434198	08434198	08434198	08434198		
	UNITS	13860-56498-A	13860-56498-B	13860-56498-C	13860-56498-D	RDL	QC Batch
Total Metals by ICP							
Total Lead (Pb)	ug/g	61.6	13.7	180	9.6	3.0	8510503
RDL = Reportable Detection Limit							

All asbestos samples are analyzed in accordance with the National Institute for Occupational Safety and Health (NIOSH) Analytical Method #0002, "Asbestos (sub) by Polarized Light Microscopy".

Drywall Joint Compound (DJC), Plaster (P), Window Putty (WP), Textured Ceiling (TC), Ceiling Tile (CT), Vinyl Floor Tile (VFT), Sheet Vinyl Flooring (SVF), Mastic (M), Pipe Insulation (PI), Pipe Elbow (PE), Spackle (S), Cement Board (CB), Tar Shingles (TS), Tar & Gravel (TG), Gasket (G), Cement (C), Grout (Gr), Vermiculite (V), Construction Paper (CP), Duct Tape (DT), etc. Please submit each flooring layer as a separate sample.

RECEIVED BY: _____ DATE: _____

Page 1 of 1

LIST OF FIGURES

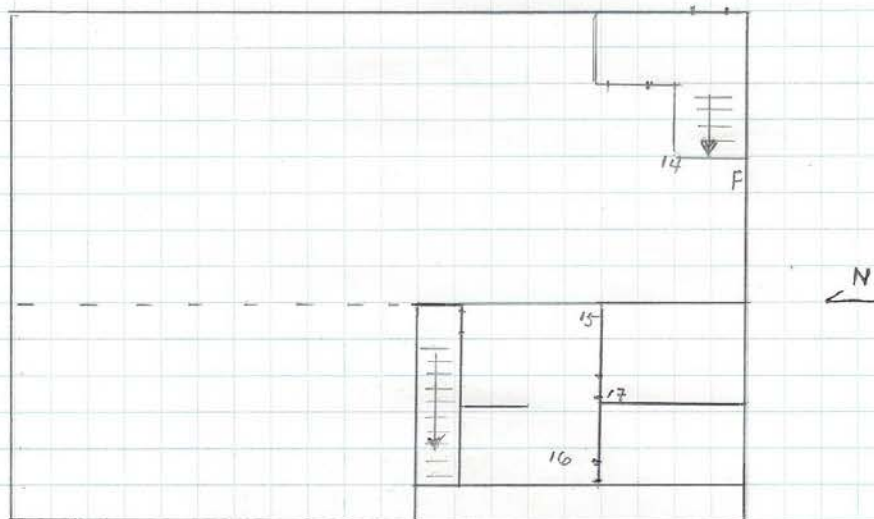
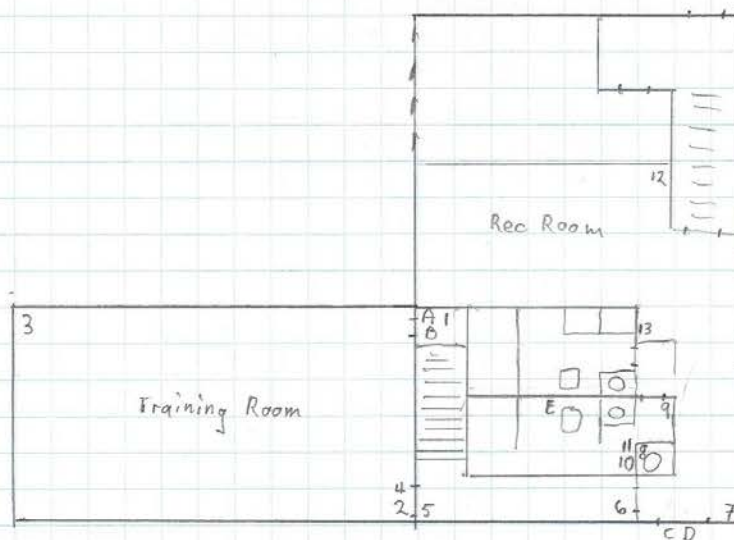
SCHEMATIC FLOOR PLANS

**NORTH SHORE FIRE DEPARTMENT,
CRESCENT VALLEY FIRE DEPARTMENT,
PASSMORE FIRE DEPARTMENT,
WINLAW FIRE DEPARTMENT,
PASS CREEK FIRE DEPARTMENT, AND
TARRY'S FIRE DEPARTMENT**

Sample locations

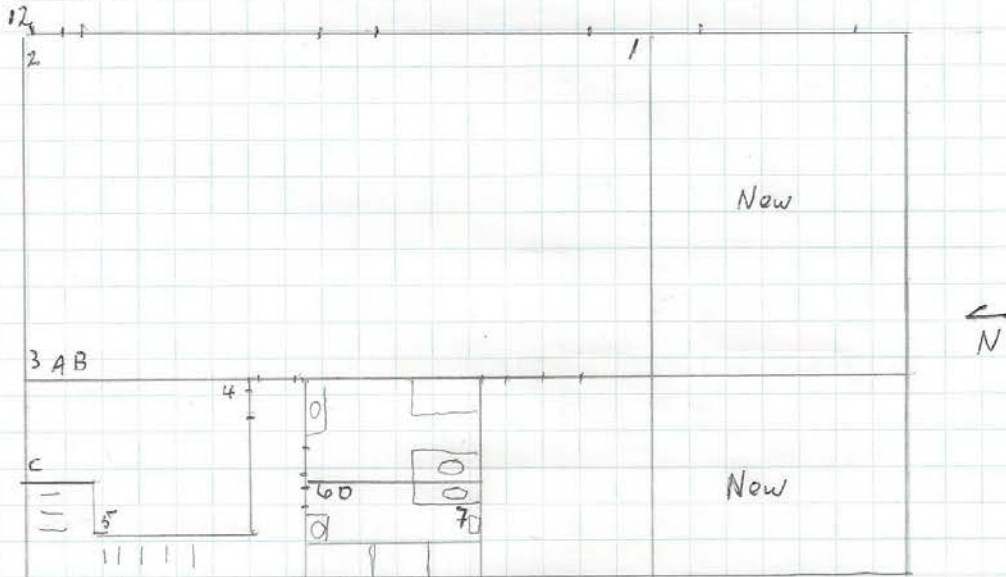
North Shore Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

First FloorSecond Floor

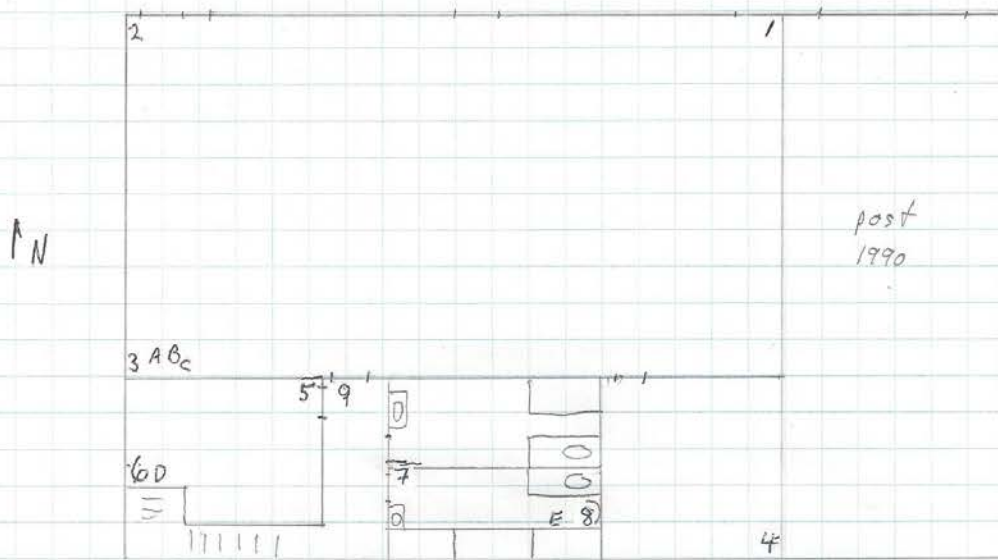
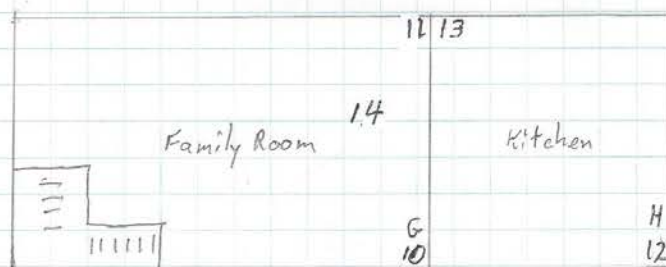
Crescent Valley Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

First FloorSecond Floor

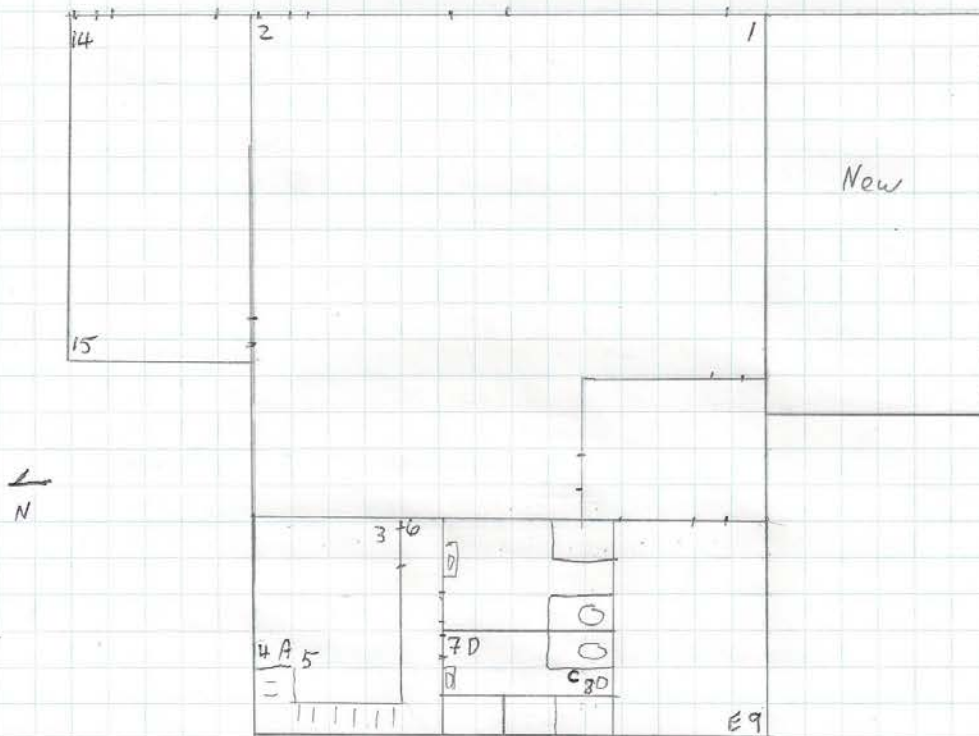
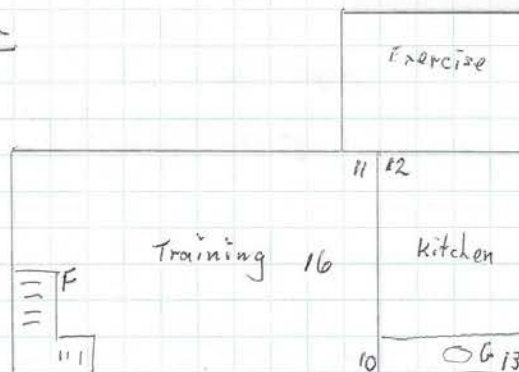
Passmore Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

First FloorSecond Floor

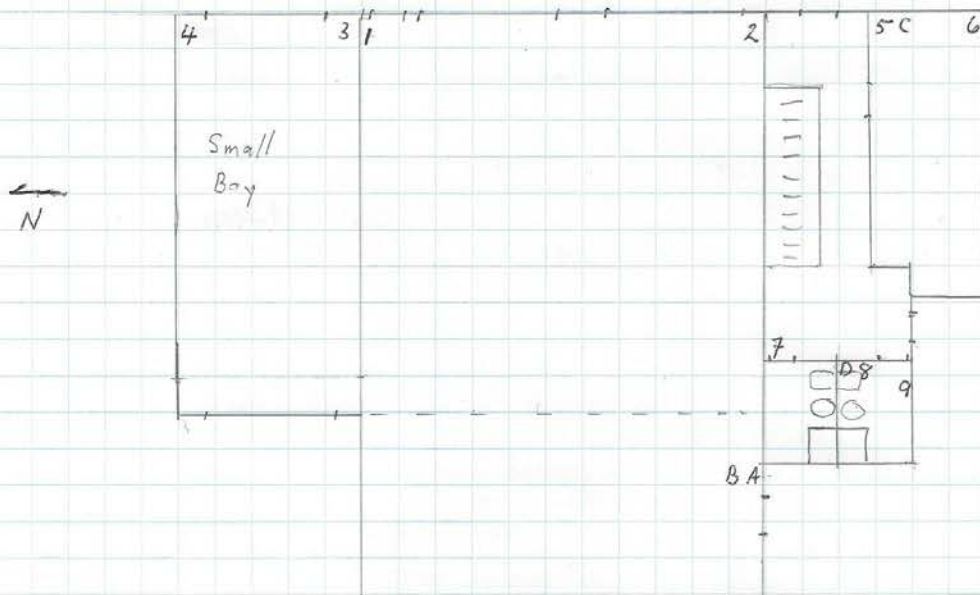
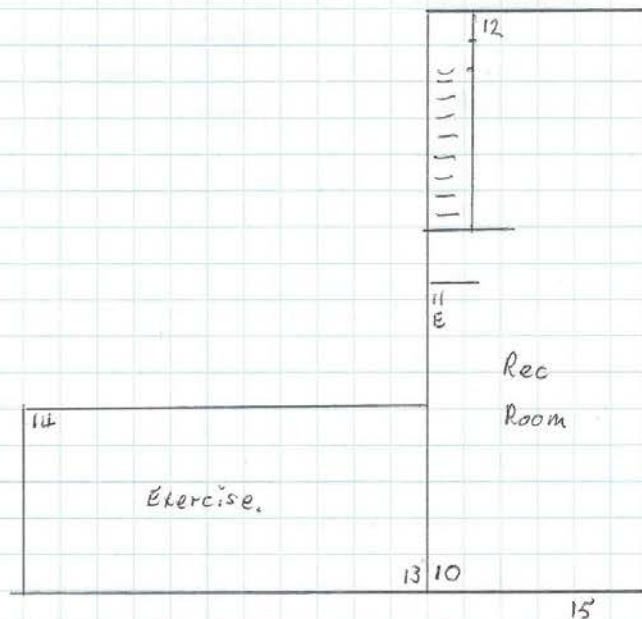
Winlaw Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

First FloorSecond Floor

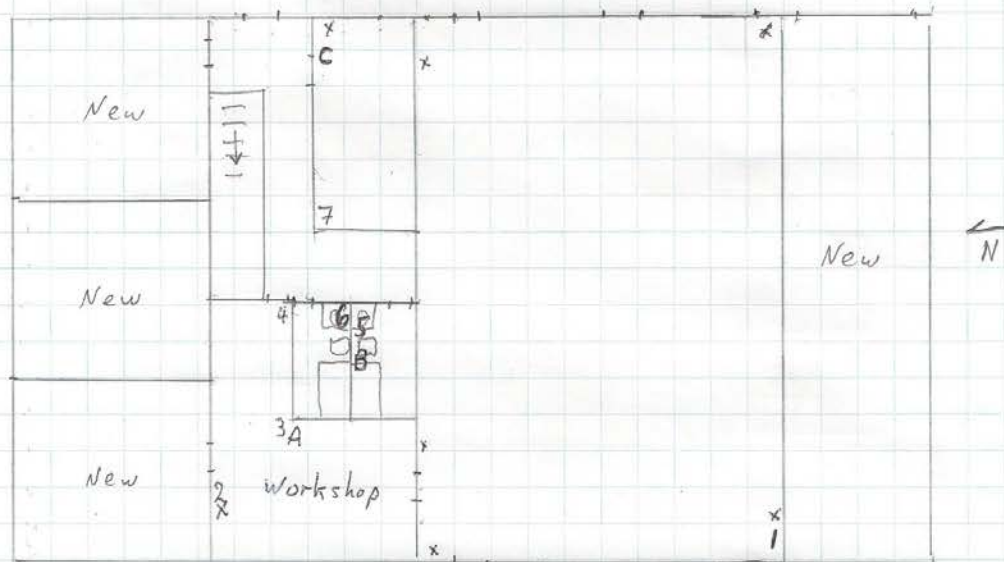
Pass Creek Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

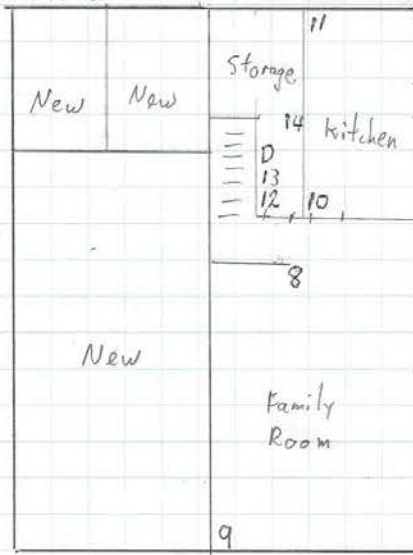
First FloorSecond Floor

Tarry's Fire Hall

Numbers represent sample sites for asbestos identification
Letters represent sample sites for lead identification

First Floor

x - denotes drilled holes in cinder block

Second Floor

APPENDIX B

SITE PHOTOS OF SAMPLE LOCATIONS

Asbestos identification sites start on page 81

Lead identification sites start on page 110

Positive samples for lead and asbestos are highlighted in bold

SAMPLE SITES FOR ASBESTOS IDENTIFICATION**NORTH SHORE FIRE HALL**

Figure 1: Sample 1, sheet vinyl flooring (grey pebble) 2nd floor training room in A/V room NE corner

Sample 2; 2nd floor training room, SW corner drywall joint compound (picture did not record)

Sample 3: 2nd floor training room NE corner, drywall joint compound (picture did not record)



Figure 2: Sample 4; 2nd floor training room above south entry door, texture coat



Figure 3: Sample 5; 2nd floor west hallway NW corner, drywall joint compound



Figure 4: Sample 6; 2nd floor west hallway, SW corner, drywall joint compound

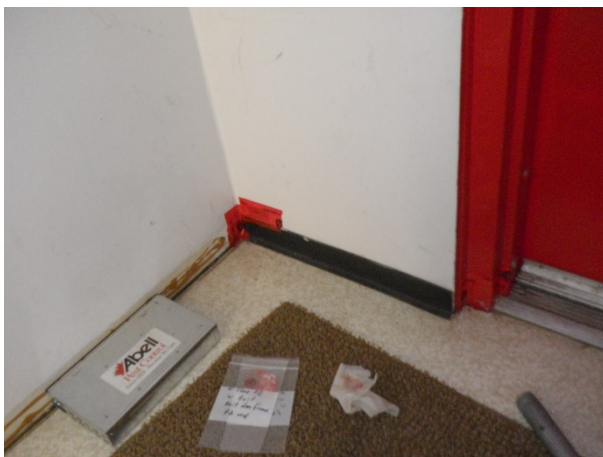


Figure 5: Sample 7, 2nd floor west exit, SW corner, drywall joint compound



Figure 6: Sample 8, 2nd floor, NW exit, exterior above door behind siding, construction paper



Figure 7: Sample 9; second floor men's washroom hot water tank storage room, west side, vinyl floor tile, beige 1'x1' (1% chrysotile asbestos)



Figure 8: Sample 10; 2nd floor men's washroom SW corner, drywall joint compound



Figure 9: Sample 11, 2nd floor men's washroom at storage room by door, sheet vinyl flooring, beige pebble pattern (40% chrysotile asbestos)



Figure 10: Sample 12, 2nd floor recreation room, SE corner, drywall joint compound

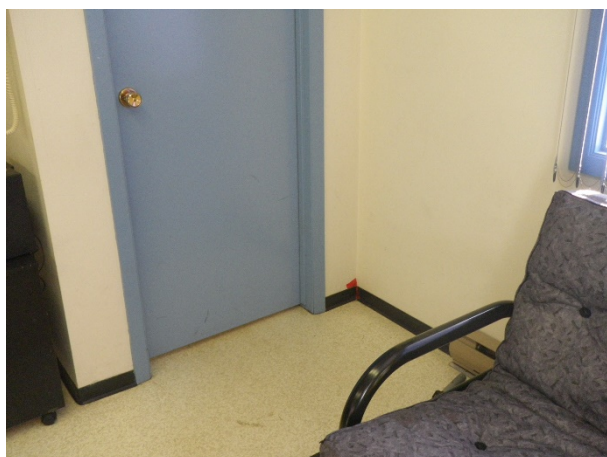


Figure 11: Sample 13, 2nd floor recreation room SW corner, drywall joint compound



Figure 12: Sample 14, main floor south wall corner by compressor, drywall joint compound



Figure 13: Sample 15, main floor, middle corner at tank fill, drywall joint compound



Figure 14: Sample 16, main floor, wet side ceiling at west light fixture, texture coat



Figure 15: Sample 17, main floor computer room NW corner, drywall joint compound

CRESCENT VALLEY FIRE HALL



Figure 16: Sample 1, main floor main bay, SE corner, drywall joint compound



Figure 17: Sample 2, main floor main bay NE corner, drywall joint compound



Figure 18: Sample 3, main floor main bay, NW corner, drywall joint compound

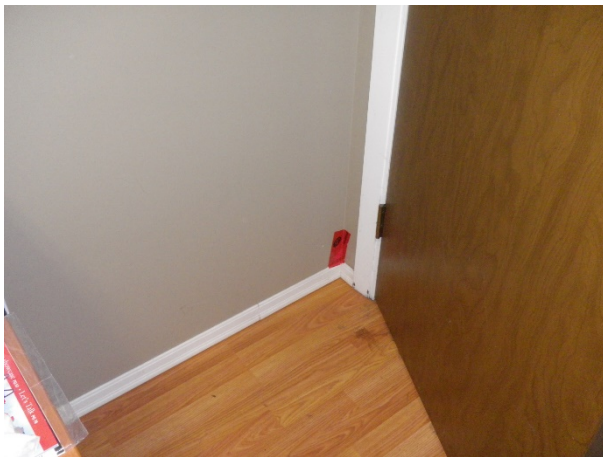


Figure 19: Sample 4, main floor office SE corner, drywall joint compound

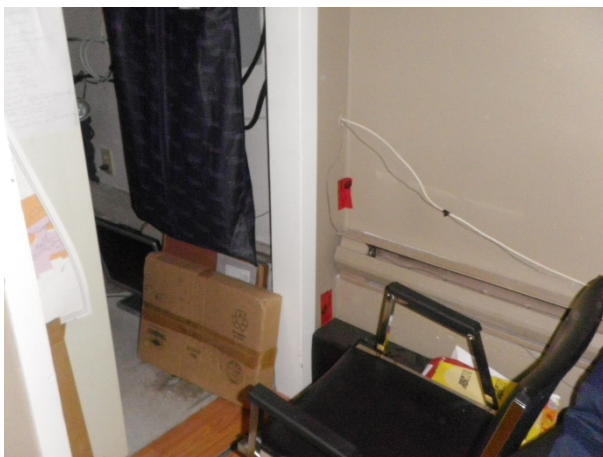


Figure 20: Sample 5, main floor office NW corner, drywall joint compound



Figure 21: Sample 6, main floor men's washroom NE corner, drywall joint compound



Figure 22: Sample 7, main floor men's washroom, south wall, drywall joint compound

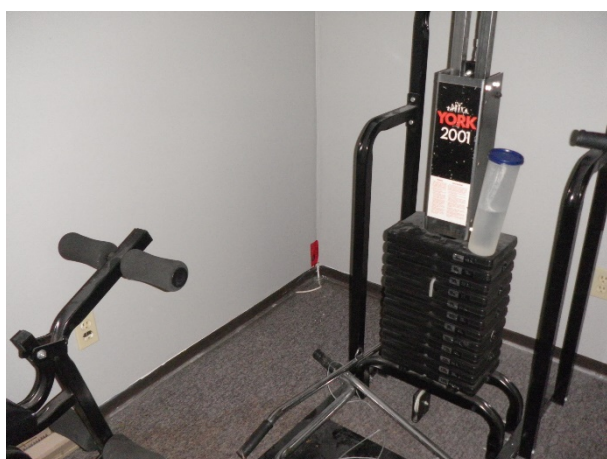


Figure 23: Sample 8, 2nd floor, exercise room NE corner, drywall joint compound

Sample 9, 2nd floor, exercise room SW corner, drywall joint compound (picture did not record)



Figure 24: Sample 10, 2nd floor, kitchen, south wall at entry sheet vinyl flooring



Figure 25: Sample 11, 2nd floor, kitchen NE corner, drywall joint compound

Sample 12, main floor exterior entry door behind vinyl siding, construction paper (picture did not record)

PASSMORE FIRE HALL



Figure 26: Sample 1; main bay NE corner, drywall joint compound



Figure 27: Sample 2 main floor, main bay NW corner, drywall joint compound

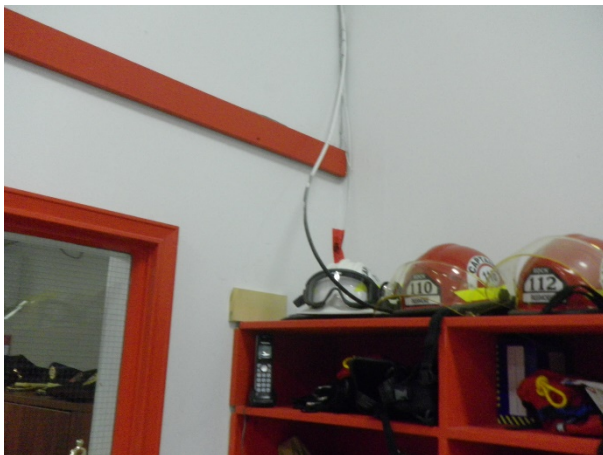


Figure 28: Sample 3, main floor, main bay, SW corner, drywall joint compound



Figure 29: Sample 4, main floor SE storage room, drywall joint compound



Figure 30: Sample 5, main floor office NE corner, drywall joint compound



Figure 31: Sample 6, main floor office SW corner, drywall joint compound



Figure 32: Sample 7, main floor men's washroom, NW corner, drywall joint compound



Figure 33: Sample 8, main floor men's washroom south wall, drywall joint compound



Figure 34: Sample 9, main floor hallway by north door, sheet vinyl flooring



Figure 35: Sample 10, 2nd floor family room SE corner, drywall joint compound



Figure 36: Sample 11, 2nd floor family room, NE corner, drywall joint compound.



Figure 37: Sample 12, 2nd floor kitchen SE corner, drywall joint compound



Figure 38: Sample 13, 2nd floor, kitchen, NW corner, drywall joint compound



Figure 39: Sample 14, attic at gable peak, construction paper

WINLAW FIRE HALL



Figure 40: Sample 1, main bay SE corner, drywall joint compound



Figure 41: Sample 2 main floor main bay NE corner, drywall joint compound



Figure 42: Sample 3, main floor office, SE corner, drywall joint compound



Figure 43: Sample 4, main floor office, NW corner, drywall joint compound



Figure 44: Sample 5, main floor office, NW corner, sheet vinyl flooring



Figure 45: Sample 6, main floor hallway by east entry, vinyl floor tile



Figure 46: Sample 7, main floor, men's washroom, NE corner, drywall joint compound



Figure 47: Sample 8, main floor, men's washroom south wall, drywall joint compound



Figure 48: Sample 9, main floor work shop, SW corner, drywall joint compound



Figure 49: Sample 10, 2nd floor training room, SE corner, drywall joint compound



Figure 50: Sample 11, 2nd floor training room, SE corner, drywall joint compound



Figure 51: Sample 12, 2nd floor kitchen, NE corner, drywall joint compound



Figure 52: Sample 13, 2nd floor kitchen, SW corner, drywall joint compound



Figure 53: Sample 14, ambulance bay, NW corner, drywall joint compound



Figure 54: Sample 15, ambulance bay, NE corner, drywall joint compound



Figure 55: Sample 16, attic at peak, construction paper

PASS CREEK FIRE HALL



Figure 56: Sample 1, main floor main bay, NE corner, drywall joint compound



Figure 57: Sample 2, main floor main bay SE corner, drywall joint compound



Figure 58: Sample 3, main floor small bay, SE corner, drywall joint compound



Figure 59: Sample 4, main floor, small bay NE corner, drywall joint compound



Figure 60: Sample 5, main floor office, NE corner, drywall joint compound

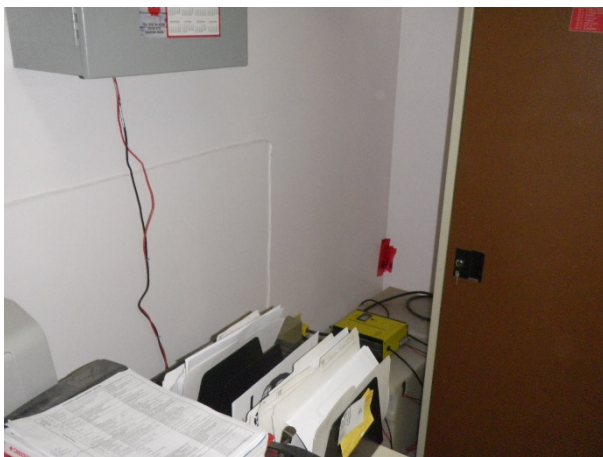


Figure 61: Sample 6, main floor office, SE corner, drywall joint compound



Figure 62: Sample 7, main floor hallway NW corner, drywall joint compound



Figure 63: Sample 8, main floor men's washroom, NE corner, drywall joint compound



Figure 64: Sample 9, main floor men's washroom, SE corner, drywall joint compound



Figure 65: Sample 10, 2nd floor, recreation room, NE corner drywall joint compound



Figure 66: Sample 11, 2nd floor, recreation room, SE corner, drywall joint compound



Figure 67: Sample 12, 2nd floor, kitchen, SE corner, drywall joint compound

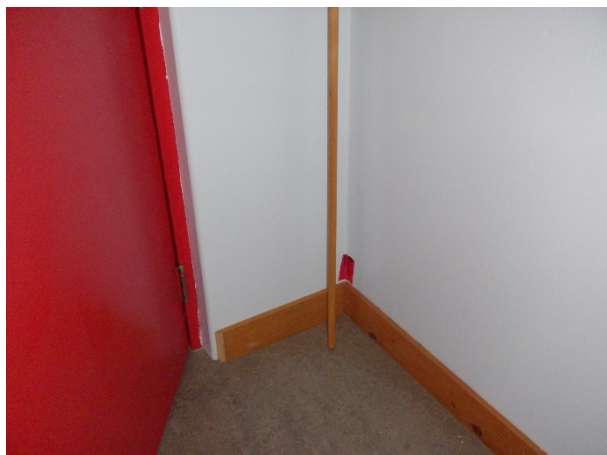


Figure 68: Sample 13, 2nd floor, exercise room, NW corner drywall joint compound



Figure 69: Sample 14, 2nd floor exercise room, SE corner drywall joint compound



Figure 70: Sample 15, 2nd floor, patio off recreation room, exterior cinder block wall vermiculite insulation (trace actinolite asbestos)

TARRY'S FIRE HALL

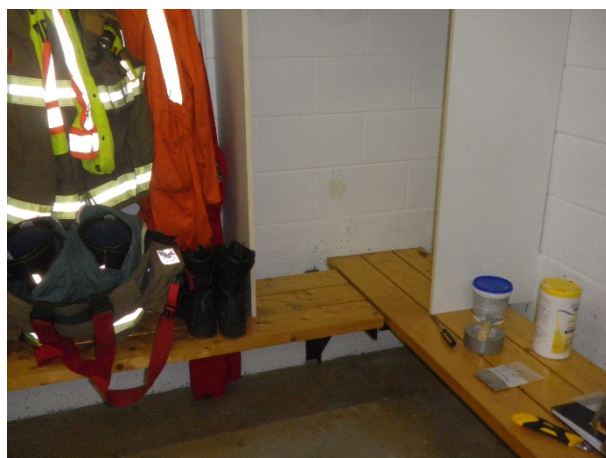


Figure 71: Sample 1, main floor main bay, SW corner, vermiculite insulation (trace actinolite asbestos)



Figure 72: Sample 2, main floor workshop north wall by panel, vermiculite insulation (trace actinolite asbestos)



Figure 73: Sample 3, main floor workshop middle corner, drywall joint compound



Figure 74: Sample 4, main floor workshop, SE corner drywall joint compound

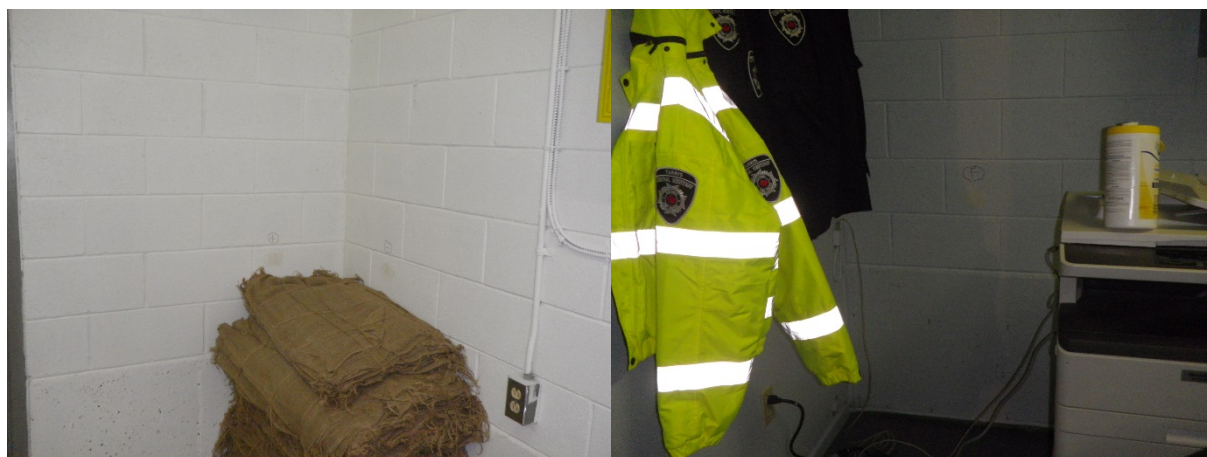


Figure 75: main bay west wall, north wall (+ve) office east wall (+ve)

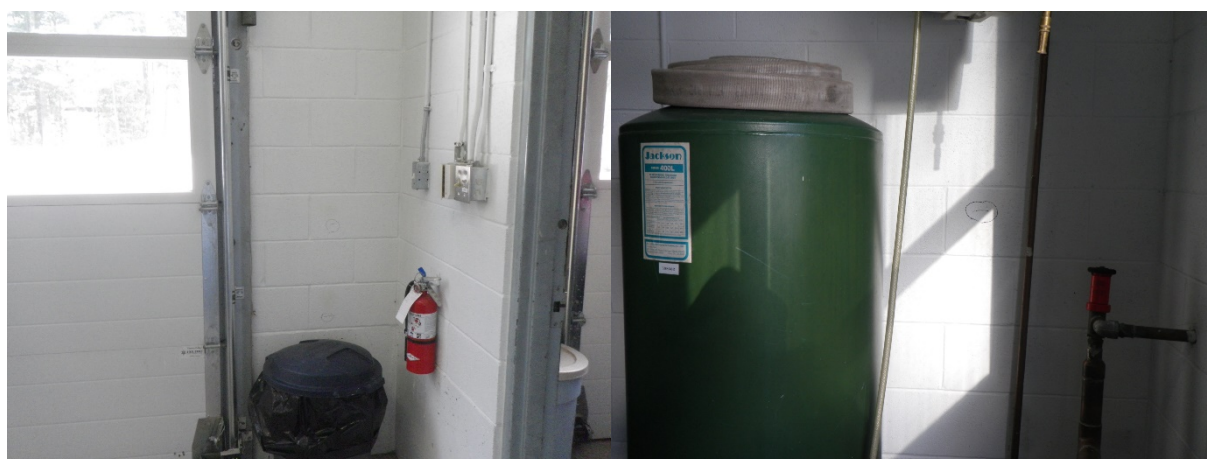


Figure 76: main bay east wall, concrete filled (assume (+ve)). North east main bay wall common with office was empty. Assume (+ve).



Figure 77: Sample 5, main floor south washroom, NE corner drywall joint compound



Figure 78: Sample 6, main floor north washroom SE corner drywall joint compound



Figure 79: Sample 7, main floor office NW corner drywall joint compound



Figure 80: Sample 8, 2nd floor family room entry corner, drywall joint compound



Figure 81: Sample 9, 2nd floor family room, NW corner vinyl floor tile



Figure 82: Sample 10, 2nd floor kitchen, NE corner drywall joint compound



Figure 83: Sample 11, 2nd floor kitchen, NE corner drywall joint compound



Figure 84: Sample 12, 2nd floor storage, NW corner vinyl floor tile



Figure 85: Sample 13, 2nd floor storage room, NW corner at ceiling drywall joint compound



Figure 86: Sample 14, 2nd floor storage room, middle south wall at ceiling, drywall joint compound

SAMPLE SITES FOR LEAD IDENTIFICATION

North Shore Fire Hall



Figure 87: Sample A, 2nd floor training room, A/V room N wall light blue wall paint



Figure 88: Sample B, 2nd floor training room, A/V room north wall blue wood trim paint



Figure 89: Sample C, 2nd floor west exit west wall white wall paint

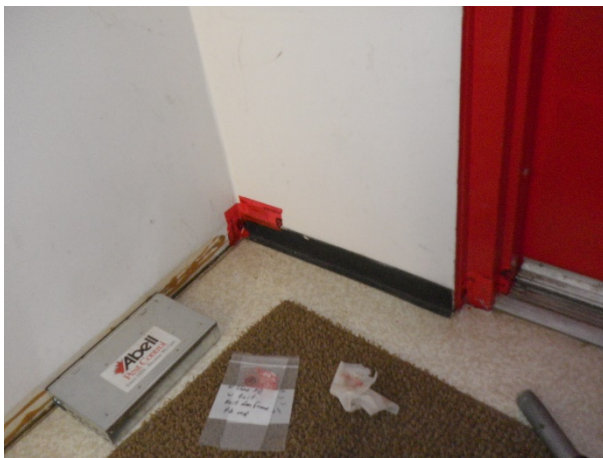


Figure 90: Sample D, 2nd floor west exit door frame, red paint on metal



Figure 91: Sample E, 2nd floor men's washroom behind toilet east wall, beige wall paint



Figure 92: Sample F, main floor, east entry at compressor, grey wall paint

CRESCENT VALLEY FIRE HALL



Figure 93: Sample A, main bay NW corner wall, beige wall paint



Figure 94: Sample B, main bay NW corner, red floor paint on concrete (5480 ppm)

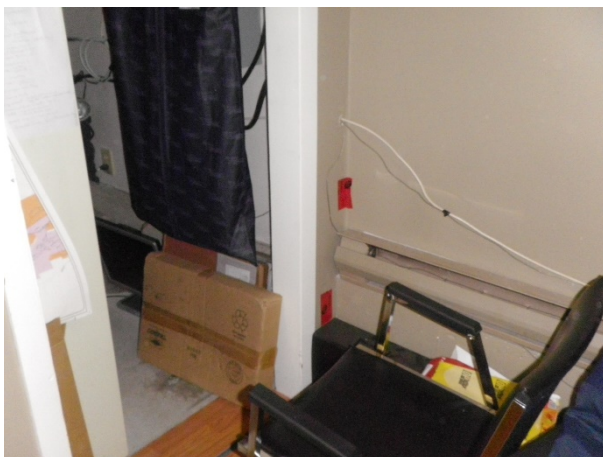


Figure 95: Sample C, main floor office, NW corner olive paint on drywall



Figure 96: Sample D, main floor men's washroom, NE corner floor, grey floor paint on concrete (2510 ppm)



Figure 97: Sample E, 2nd floor exercise room, SW corner wall grey wall paint



Figure 98: Sample F, 2nd floor kitchen, north door trim, brown paint on metal trim (805ppm)

PASSMORE FIRE HALL



Figure 99: Sample A, main floor main bay, SW corner grey floor paint on concrete



Figure 100: Sample B, main floor main bay, SW corner white paint on wall



Figure 101: Sample C, main floor main bay, SW corner, red paint on window trim (9280 ppm)



Figure 102: Sample D, main floor office, SW corner olive paint on wall



Figure 103: Sample E, main floor men's washroom, south wall light blue paint on wall



Figure 104: Sample F, main floor hallway by east exit, brown paint on wall



Figure 105: Sample G, 2nd floor family room, SE corner, red paint on wall



Figure 106: Sample H, 2nd floor kitchen, SE corner off white paint on wall

WINLAW FIRE HALL



Figure 107: Sample A, main floor office, SW corner, light blue paint on wall



Figure 108: Sample B, main floor hallway, west wall by exit white paint on wall



Figure 109: Sample C, main floor men's washroom south wall beige paint on wall



Figure 110: Sample D, main floor men' washroom, NE corner brown floor paint



Figure 111: Sample E, main floor workshop, SW corner, salmon paint on wall



Figure 112: Sample F, 2nd floor stair handrail post, dark brown paint on wood post



Figure 113: Sample G, 2nd floor kitchen, SW corner light blue paint on wall

PASS CREEK FIRE HALL



Figure 114: Sample A, main bay, SW corner grey floor paint on concrete



Figure 115: Sample B, main bay, SW corner red paint on post



Figure 116: Sample C, main floor office, NE corner pink paint on wall



Figure 117: Sample D, main floor men's washroom, NE corner wall, white paint on wall



Figure 118: Sample E, 2nd floor recreation room, SE corner, white paint on wall

TARRY'S FIRE HALL



Figure 119: Sample A, main floor workshop middle corner, grey paint on concrete floor



Figure 120: Sample B, main floor south washroom, north wall middle, light blue paint on wall



Figure 121: Sample C, main floor office door trim, dark blue paint on wood door trim



Figure 122: Sample D, 2nd floor storage room, NW corner at door, beige paint on wall