

Wrangell Public Safety Building Assessment

Final Report

23 February 2021



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Executive Summary

Assessment Survey Scope and Team

Assessment services and estimate of probable construction costs is based upon AMC's Engineer's 25 August 2020 proposal. Services for the Public Safety Building included building architectural, structural, mechanical, electrical, hazardous materials survey assessment, and estimate of probable construction cost for building repairs. Services for the existing Wrangell Medical Center critical access hospital included an estimate of probable construction cost to demolish the Wrangell Medical Center hospital and construct a new Public Safety Building in the old hospital's location on Bennett Street. The new Public Safety Building would be based upon a replacement of the existing building's size, configuration, and use.

Site assessment of the Wrangell Public Safety Building and hazardous materials survey of the Wrangell Medical Center occurred during the week of 14 September 2020. Survey team consisted of:

1. Northwind for architectural services.
2. PND for structural services.
3. AMC Engineers for mechanical and electrical services.
4. EHS – Alaska Inc. for hazardous materials and mold services.
5. Estimations Inc. for estimation of probable construction costs.

Public Safety Building

The Wrangell Public Safety Building is a two-story wood framed building constructed over a concrete and steel framed basement level, totaling 34,500 gross square feet in area constructed in the mid-1980's. A flat roofed mechanical mezzanine over the second floor is at the apex of two broad sloping roof areas and contains all facility ventilation equipment. Heating plant, generator, and electrical equipment are in the basement. The three levels are served by an elevator and multiple stairways. The building is constructed on a hillside, and the basement area is open grade level covered parking, situated directly below the fire station equipment bay.

There are 7 primary program elements:

1. Fire/Emergency Services Station (Floors 1 and 2).
2. Police Station and Jail (Floor 1).
3. Dispatch Center (Floor 1).
4. Courthouse and Public records (Floor 2).
5. Department of Motor Vehicles (Floor 2).
6. Customs Office (Floor 2).
7. Indoor firing range (basement)

This report provides individual discipline assessment reports and a cost estimate of repairs and also for demolition and construction of a new building at the site excluding cost for temporary relocation of the tenants.

- The estimate of probable construction cost for repairs to the public safety building in 2022 is \$9,264,100 with a total project cost estimate of \$11,487,500.
- The estimate of probable construction cost for demolition of the public safety building and to provide a replacement public safety building at the site in 2022 is \$24,291,800 with a total project cost estimate of \$30,121,800.

During the site assessment survey, it was determined that immediate structural repairs were needed. The structural engineer and architect work directly with the Wrangell City and Borough to develop plans and documents for these repairs independent of this assessment report.

If the option of making phased repairs to the public safety building is chosen, consideration of the following items is recommended.

1. Developing a programming document for each building area and tenant for their unique needs with operating and environmental criteria. This document would identify materials and equipment which would be owner furnished and contractor installed, as well as tenant space and access requirements. Confirm funding source(s) for special tenant requirements and equipment.
2. After programming guide is completed development of a concept floor plan to confirm with owner and tenants their requirements will be satisfied within the available floor space and project funds. Producing room data sheets along with the concept floor plan with tenant sign-off is recommended.
3. Tenant and construction phasing plan based upon concept floor plan and project construction schedule. Phasing plan would consider logistics, and seasonal tourist and available construction trades impacts.
4. Identify temporary off-site relocations with operational and space requirements for tenants during phased construction.
5. Concept estimates of probable construction costs and total project costs including, professional services, tenant relocations, and phasing that would be applicable to the Wrangell City and Borough.
6. Determine the method of project contract: design-bid-build, design-build, contractor design assist, construction manager / general contractor (CM/GC), or other methods acceptable to WCB.
7. Reduce risk and unknowns from the project when possible with smaller and cost effective contracts. Example would be removal of the underground fuel oil storage tank. This allows reduction of risk for finding contaminated soils during construction and impacting funds and schedule.
8. Confirm funding sources for project total costs.

9. Develop an Owner's Performance Requirements (OPR) and Request for Proposal (RFP) documents based upon the type of project contract desired and programming guide.

Wrangell Medical Center

The Wrangell Medical Center hospital was originally constructed in many different phases with many different renovations through the years totaling approximately 29,630 gross square feet. The original portion was built in 1967 and includes much of the medical service functions of the building. The original portion had a dirt floored crawl space with concrete foundation walls that were supported on what appeared to be driven steel piles. The original building was mainly of wood framed construction, with a pitched, built-up roofing that contained asbestos.

The 1974 era consists of the current long-term care wing, with a lower level that mainly had storage, laundry, mortuary, and other service functions. The lower level had a slab-on grade foundation with truss joist framing supporting a slightly sloped built-up roofing that contained asbestos.

A large addition and renovation were constructed in 1988 that was mostly of a modular construction that wrapped around the original core of the building and included renovations to areas of the original construction and 1974 wing. The 1988 addition had a dirt floored crawl space with concrete perimeter foundation walls and glue-laminated beams, supported by creosote piles, in a similar fashion to the original construction.

A maintenance and storage addition that was constructed sometime between 1992 and 1995. The addition was a pre-engineered metal building supported on concrete pads supported by piers, with a metal skirting around the perimeter of the building.

There were a couple of "infill" or "addition" rooms that were installed at an unknown date.

The Building is built on a site that slopes down to the south, and is reported to be built on "muskeg" which has resulted in soil settling in several locations, most notable at the perimeter of the original construction and at the 1992 addition, and underneath the concrete piling caps in the building crawl spaces.

This report provides hazardous materials survey report and a cost estimate of repairs. The estimate of probable construction cost for demolition of the medical center and to provide a replacement public safety building at the site in 2022 is \$24,624,000 with a total project cost estimate of \$30,533,800.

Architectural Condition Summary:

The Wrangell Public Safety Facility is a two-story wood framed building constructed over a concrete and steel framed basement level, totaling 34,500 gross square feet in area. A flat roofed mechanical mezzanine over the second floor is at the apex of two broad sloping roof areas and contains all facility ventilation equipment. Heating plant, generator and electrical equipment are in the basement. The three levels are served by an elevator and multiple stairways. The building is constructed on a hillside, and the basement area is open grade level covered parking, situated directly below the fire station equipment bay.

The primary program elements are:

- Fire/Emergency Services Station (Floors 1 and 2).
- Police Station and Jail (Floor 1).
- Dispatch Center (Floor 1).
- Courthouse and Public records (Floor 2).
- Department of Motor Vehicles (Floor 2).
- Customs Office (Floor 2).
- Indoor firing range (basement)

The facility was constructed in the mid-1980's (date on the As-builts drawing set is 11/3/1987), and designed under provisions of the prevailing codes of the day:

- 1982 Uniform Building code,
- 1980 ANSI 117.1 Specifications for Accessibility,
- 1976 NFPA101 Life Safety Code
- 1984 National Electrical Code
- 1982 Uniform Mechanical code.

The building is construction Type V-1 hour, requiring all interior and exterior walls, partitions, shafts, floor, and roof assemblies to be 1-hour fire protected assemblies.

Building occupancy types include A1 (court room), B1 (police vehicle sallyport) B2 (offices, fire station, police station, firing range), B3 (vehicular parking), I3 (detention/jail). Required fire separations between these occupancies appear to have been provided for and maintained to date.

- A3 to B2 = Fire separation not required.
- B2 to B3 = 1 hr w/ 45min doors
- B2 to I3 = 2 hr w/ 90 min doors
- B1 to I3 = 4-hour w/ 120 min doors

The building envelope is comprised of sloped metal roofing areas with 12" fiberglass batt (R-38) insulation in rafter cavities, Flat Protected Membrane Roof (PMR) with approximately 6" of rigid insulation (R-40) above the roof deck, and cedar siding installed directly over tarpaper, gypsum board and structural sheathing with 6" fiberglass batt insulation in stud cavities (R-19). The original foundation was designed to receive 2" rigid insulation (R-13). Sheetmetal wall panels were installed at the south wall as a part of 2008 repairs. Painted water-resistant gypsum board soffits occur at the basement garage, over them main entry on the east side, and over the outdoor recreation area on the east side of the building. These are provided with 10" batt insulation (R-30). Typically wall and sloped roof assemblies are provided with a 6mil plastic vapor retarder.

Interior finishes are commercial quality and like those seen in similar 35-year-old public buildings in Alaska. These include painted and vinyl-covered gypsum wall board, 2'x2' Acoustic Ceiling Tile (ACT) and grid, low-pile glue-down commercial carpet flooring at offices, hallways and assembly spaces, Vinyl Composition Tile (VCT) flooring at institutional spaces, and sheet vinyl flooring at bathrooms. Unique in this facility:

- 6x6 quarry tile floors and stairs in the first-floor lobby area and main stair to second floor.
- Wood slat ceiling system at both first and second floor lobby.
- Wall carpeting in the courthouse spaces.
- Painted acoustical metal pan deck ceilings, filled, and painted Concrete Masonry Unit walls, and sealed concrete floors at the Jail.
- 8' tall painted plywood wainscot and painted concrete floors at the Fire Station equipment bay.

More recent renovations have updated partition configurations, painted wall finishes, and bathrooms as these spaces aged and specific uses changed in approximately 7% of the floor plan.

Exterior windows are typically vinyl clad wood thermal units, both fixed and operable. A small number of exterior windows have been replaced with all-vinyl units. Exterior doors are typically insulated hollow metal, except for the front door which is a commercial aluminum glazed pair. Interior doors are typically labeled (fire rated) solid core wood in hollow metal frames. Interior relights are likewise typically labeled hollow metal with wire glass. Door hardware is typically good quality, UL labeled for use in rated openings, and configured to meet accessibility requirements. Almost all doors have mortise locksets, 5-knuckle ball bearing hinges, protection plating and door closers.

The Jail is appropriately equipped with secure wall and ceiling enclosure, and with detention hollow metal doors, frames, access panels with detention grade hardware. Detention glazing is typically glass-clad polycarbonate. Plumbing fixtures are penal combination stainless steel sink/toilet units, and there is a common stainless-steel detention shower unit with anti-ligature features. Detention furnishings are penal grade wall and floor mounted welded steel. Cells are equipped with call buttons and key areas of the jail are under video surveillance. Electrified door hardware was not apparent, which may present issues with compliance with current ACA Core Jail standards.

Architectural Observations

Observations of architectural conditions and deficiencies are carefully detailed, with areas, quantities, and recommendations in the following Exhibits:

- | | |
|-----------|---|
| Exhibit A | Condition Assessment Building Summary and Exterior – 12 pages |
| Exhibit B | Condition Assessment Interior Rooms – 52 Pages |
| Exhibit C | Condition Assessment Openings, Hardware, Specialties – 12 pages |
| Exhibit D | Wrangle Public Safety Building Reference Plans with Notes - 5 11x17 pages |

Architectural Recommendations

Key Architectural recommendations include but are not limited to:

- A) Flat roof, parapet and coping and flashing assemblies have surpassed serviceable life and should be replaced. Failure of the coping installation assembly has caused significant water infiltration and resulted in extensive rot and insect infestation of building structure, and severe deterioration of parapets and siding. Insulating values are below current standards for energy conservation. The roof has no provisions for fall prevention. Remove existing PMR assembly and drain assemblies. Complete all necessary structural repairs in accordance with the structural engineers' recommendations. Install new parapet to a height meeting OSHA compliance for maintenance worker safety so regular maintenance at the roof level can occur. Install new vapor retarder, tapered rigid insulation assembly meeting current thermal standards for energy conservation, cover board, single-ply membrane roofing assembly that will extend full height and over top parapets. Install new roof drains, overflow drains, upper roof access ladder that meets OSHA requirements, and sheet metal copings and flashing.
- B) Sloped roof, flashing and gutters present several problems that are detrimental to building longevity. Original (north elevation) and replacement (south elevation) gutters have failed, resulting in leakage into the wall assembly at the south wall, and precarious attachment of the eave assembly at the north wall. The metal roofing panels are nearing the end of their serviceable life, with corrosion starting to form at bends in the metal. Remove all metal roofing and associated flashings and gutters. Repair eave projections. Install new underlayment. Install new marine-coated sheet metal roofing flashing, metal headwall siding panels, gutters, and downspouts. Provide anchor points for fall protection equipment.
- C) The stained cedar tongue and groove siding has suffered severe deterioration through prolonged water infiltration on all building elevations. This has resulted in compromised substrate material including thermal protection panels and structural sheathing and framing at approximately 20% of the building exterior. This includes the south building elevation that was re clad with sheet metal panels in 2008. Remove all siding and underlayment for the full extent of exterior walls at the first and second floors, and at the mechanical penthouse level. Coordinate with structural engineer's report and complete all structural repairs. Install new thermal barrier where removed. Install robust weather barrier, properly sealed, and flashed at openings and transitions. Install 1.5 inches of new extruded polystyrene insulation to improve envelope thermal values to current standards. Install new marine-coated commercial sheet metal siding panels in vented rainscreen configuration, properly flashed and sealed into openings and transitions. Provide bug and bird screening at all rainscreen vent openings. As a part of the work, repair all soffit areas and install sheet metal soffit panels at soffit above Jail recreation yard and front entry. Repair, seal, and paint gypsum board ceiling in basement parking area.
- D) Exterior windows and personnel doors at this facility are aging beyond their functional use and do not meet thermal performance criteria for new construction. Remove all exterior windows and doors and replace with commercial quality high performance fiberglass units. Provide new daylight control roller blinds at 50% of openings. Install an egress window at each of the two-bedroom units provided for the fire station.



- E) Exterior recreation yard for the jail is required to meet current ACA Core Jail standards. Provide new security closure for recreation yard, with protections at exterior windows and a secure gate.
- F) Interior finishes are near or beyond serviceable life. Carpet (except for the newer carpet tile installed in the Courts spaces), sheet vinyl VCT and LVT finishes to be replaced. All vinyl wall coverings to be replaced. 80% of the painted gypsum board interior walls and soffits display extensive "Alligatoring" (see photo on reference line 74 in "*Attachment B Condition Assessment Interior Rooms*"), and must be carefully stripped, repaired, and repainted. Strip and paint floor in Fire Station equipment bay.
- G) Life-Safety Renovations:
- a. Repair all compromised fire rated wall and floor-ceiling assemblies.
 - b. Repair automatic fire shutters at elevator doors, all three levels.
 - c. Install egress windows at the two fire station apartment bedrooms.
 - d. Provide magnetic holders coordinated with fire alarm system at doors in fire rated separation walls, six locations.
 - e. Provide Seismic bracing at all acoustic ceiling tile grid assemblies.
 - f. Replace broken anti-ligature robe hook at detention shower.
 - g. Replace device covers in the five secure cells with covers meeting anti-ligature standards (5 total).
- H) Accessibility Renovations:
- a. Renovate a total of four public access bathrooms, (two on each level 1 and 2, stacked) to meet accessibility clearance requirements for entry.
 - b. Renovate one of the two bathrooms provided in the Jury room to meet accessibility requirements.
 - c. Renovate the Courtroom entry (two sets paired doors) to meet accessibility requirements.
 - d. Provide motor operator at exterior door of main entry vestibule and interior door to main lobby.
 - e. Renovate elevator cab and call controls to meet accessibility standards.
 - f. Renovate detention shower to meet accessibility standards.
 - g. Relace drinking fountain at basement and first floor with accessibility compliant unit.
 - h. Renovate Courtroom configuration to provide wheelchair accessible seating at the jury box, the judge's bench and in the gallery.
 - i. Provide accessibility compliant motor operators and controls at doors that do not meet clearance requirements for access/egress on the second floor. Three conditions.
 - j. Modify casework to comply with accessibility requirements in 5 locations. This will affect approximately 25 lineal feet of plastic laminate counter and casework.


Architectural Life Expectancy


The life expectancy numbers in this report are based industry standard guidelines such as Building Owners and Managers Association (BOMA) International and the Architects experience with these materials and systems. In general, the lifespan of a commercial or institutional building is approximately 50-60 years between substantial renovations if regularly maintained in a moderate environment. A building in a small coastal community located in Southeast Alaska is subjected to more severe weather conditions and greater logistical challenges related to assessing and performing required maintenance and replacing critical components or systems with shorter lifespans. This results in a shorter building lifespan. The component or system life expectancies noted below are nominal numbers, and with proper care and maintenance, all components can be expected to function as expected beyond its normal life expectancy. If each is replaced and upgraded within its median life span, a building will typically exceed its expected lifespan.

Maintenance Finish or System	Median Years
Single Ply Membrane roof (protected EPDM)	20 to 30
Metal Roofing (coated steel, marine environment)	25 to 35
T&G Cedar Siding	30
Paint or stain on Cedar Siding	7 to 10
Metal cladding (steel, marine environment)	30
Clad wood windows	30
Aluminum Entrance doors	20
Insulated Hollow Metal doors and frames	20
Insulated Overhead Doors and Operating Hardware	20
Interior solid core wood doors	25
Door hardware	7 to 10
Gypsum Board Assemblies	30-40
Interior finish: Paint	5 to 10
Interior finish: Vinyl Wall Covering	10
Interior finish: Floor Carpet (traffic and grade variable)	5 to 15
Interior finish: Vinyl Composition Tile (VCT)	15 to 20
Interior finish: Luxury Vinyl Tile (LVT) Plank	10 to 15
Interior finish: Concrete floors (uncoated)	50
Interior finish: Acoustic Ceiling Tile (ACT)	25
Elevator Lift Equipment and Doors	20 to 30
Elevator Cab and controls	10 to 15
Detention/Secure Hardware	25
Plastic Laminate faced architectural casework	20
Residential Appliances	6 to 8
Structure (concrete, wood steel)	Life of Building

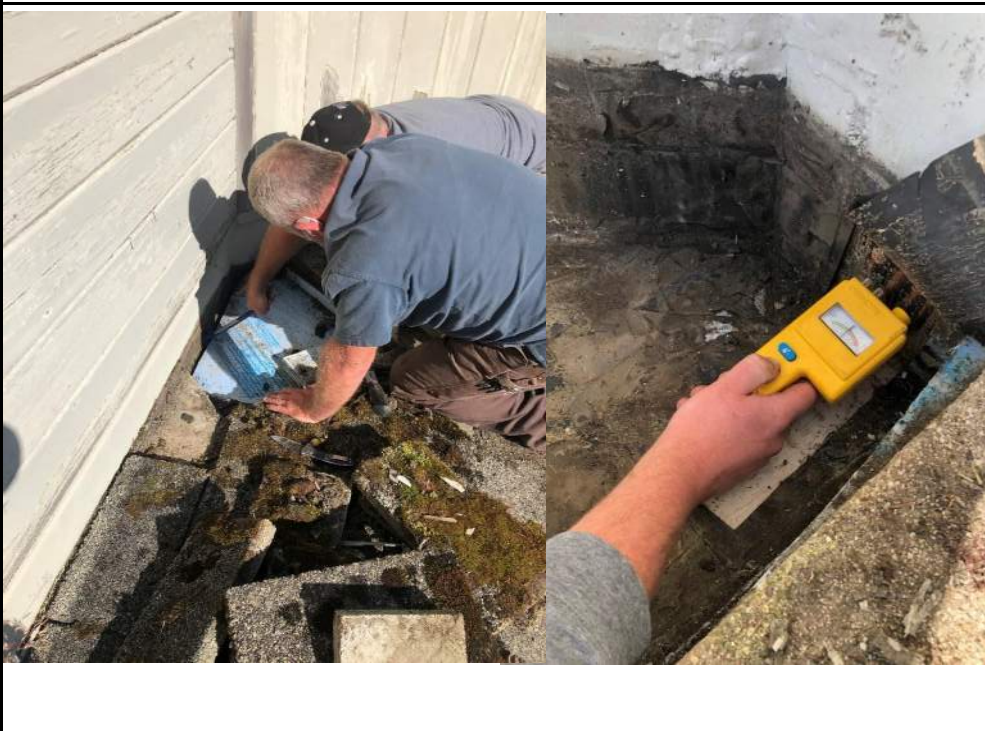

General Overview	Construction period 1985-87	34,844 gsf	Type VA (1-hour fire protected structure; bearing walls, floor, roof assemblies), mixed use occupancy.
	Structural systems (see structural engineers report for	Basement	Concrete foundations, walls. Slab on grade. No evidence of wall or slab insulation other than at more recent renovation of south wall.
		Fl 1	Floor: Metal pan deck on steel beams, spray-applied fireproofing. 15% slab on grade. Walls: CMU, fully grouted, at jail. Dimensional lumber framing, elsewhere. Steel columns an beams and glulam beams a where required.
		FL 2	Floor: Metal-cord wood open web joists with plywood decking. Walls: Dimensional lumber framing, typical. Steel columns an beams and glulam beams a where required. Steel bar grating deck at exterior mezzanine and stair on west elevation.
		Mechanical loft	Floor: Metal-chorded wood open web and engineered lumber joists with plywood decking. Walls: Dimensional lumber framing, typical. Steel columns an beams and glulam beams a where required. Steel bar grating deck at exterior mezzanine and stair on west elevation.
		Roof	Sloped: Metal-chorded wood open web joists with plywood decking. Flat: Engineered lumber joists with plywood decking.
	Fire Protection of structure, equipment:	Roof, Bearing and non-bearing walls	All structure is 1-hour fire protected, either by spray applied fireproofing as seen at floor assembly of Fire and Ambulance Equipment Bay, solidly grouted concrete masonry units as seen at the Jail, or built up Type X gypsum wall board assemblies. The facility is fully sprinklered and quipped with fire/smoke detection and fire alarm system.


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
1	North Elev.	Cupped and peeling 1x6 T&G cedar siding, solid body stain. substrate appears good at areas of selected demolition.	3307 SF	Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier.	
2	North Elev.	Failing gutter/soffit assembly. Structurally unstable and temporary support straps are breaking away. Soffit assembly 4' tall x 2'-6" deep, gutter integrated into top of it.	75 LF	Remove gutter and soffit assembly (wood framed, 4' tall, 2'-6" deep), reconstruct new soffit and outside gutter.	

Ref.	Orientation	Observations	Quantity	Recommendations	Photos
3	North Elev.	Woodpecker holes through into stud cavities, grid C, between 6 and 8. mechanical mezzanine level. Suspecting they are after an insect infestation in the wall framing.	three noted	Investigate framing, sheathing and gypsum board overlay as part of siding replacement.	


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
4	East Elev.	Cupped and peeling 1x6 T&G cedar siding with solid body stain, noted areas of severe rot at substrate and siding between bay doors and above front entry.	4980 SF	Replace all siding and underlayment with new metal siding including 1.5" rigid outside insulation and weather barrier. Investigate framing, sheathing and gypsum board overlay as part of siding replacement. Repair rotten framing and sheathing where required (anticipate 15% of wall area). Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier.	

Ref.	Orientation	Observations	Quantity	Recommendations	Photos
5	South Elev.	Grid H: Sheetmetal siding in fair condition but not installed to promote ventilation of substrate.	2073 SF	Sheetmetal was installed with no ventilation. Remove and replace all with new as part of overall building cladding. Anticipate framing and sheathing repairs due to rot at 15% of wall area. Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier.	


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
6	South Elev.	Grid C: Cupped and peeling 1x6 T&G cedar siding with solid body stain, severely deteriorated with areas of rotten siding material.	1014 SF	Replace all siding and underlayment with new metal siding, including 1.5" rigid outside insulation and weather barrier. Investigate framing, sheathing and gypsum board overlay as part of siding replacement. Repair rotten framing and sheathing where required (anticipate 25% of wall area). investigations looked at wall and roof assembly with high moisture readings in sheathing. Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier.	
7	South Elev.	Insect infestation and severe deterioration at base of wall, police parking garage.	anticipate 60 LF damage	Will require full removal of metal siding to ascertain extent. 20 lf of lower wall identified in visit. Likely more, as well is an unvented sealed assembly with significant roof leak above. Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier.	


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
8	South Elev.	Gutter system added in 2008 is falling apart and membrane flashing associated with that work is delaminating.	85 LF	Remove gutter and reconstruct new gutter and roof edge assembly with metal roofing panels to ensure weatherproof assembly.	


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
9	West Elev.	Cupped and peeling painted cedar siding, noted areas of severe rot at structure substrate and siding at top floor projecting construction (Court Clerk area) and at wall of mechanical penthouse.		Temporary shoring to be installed between grids C and F, 1 and 2. Severe deterioration found at second level floor structure and flat roof structure. Coordinate with structural report. Repair structure and replace ALL siding with new Kynar coated metal panels configured as vented rainscreen over 1.5" rigid insulation and robust weather barrier. Note high wall above flat roof area, this elevation: 80% of the wall area has been weather sealed with silver tarp to address leakage through that wall assembly. The tarp has weathered through in some places. In conjunction with the Structural report, this area to undergo substantial structure and envelope repairs and replacement.	


Ref.	Orientation	Observations	Quantity	Recommendations	Photos
	Flat Roof		3,300 SF	ON TWO LEVELS	
10		<p>Protected Membrane Roof assembly (PMR): 1.5" polyisocyanurate backed concrete paver and 4" XPS insulation, self ballasting, over 027 18AAHF Carlisle reinforced EPDM membrane. Slope to drain is impeded by soil and plant growth filling voids in the insulation and paver assembly. Membrane extends up but not over top of parapet under sheetmetal coping, typical. Where coping removed for inspection, parapet framing is severely deteriorated. Drainage overflow is accommodated via scuppers, which appear to leak. North side roof overflow at a failed scupper assembly is likely the primary cause of deterioration of wall, roof and floor structure below, on grid 1, between grids E and C.</p>		<p>Roof to be replaced. Remove all ballast, and insulation. remove existing roofing where required to make structural decking repairs. Patch remaining existing EPDM to serve as vapor retarder. Install R50 average tapered rigid insulation assembly, cover board and new 80-mils reinforced EPDM roof. Install new cast iron drains and install overflow drain system. Reconstruct 180 lf of parapet to 32" taller elevation (42"for OSHA). anticipate 10% roof sheathing replacement. note increase of siding area in siding quantity calculations. Lap roofing up and fully over top of parapet, sealing to weather barrier. provide new sheetmetal coping caps.</p>	 <p>The photos show a flat roof with significant damage. The top-left photo shows a wide view of the roof with a scupper assembly. The top-right photo is a close-up of a damaged parapet edge where the membrane and coping have failed. The bottom photo shows a worker in a hard hat and safety vest working on the roof edge, surrounded by debris and tools.</p>


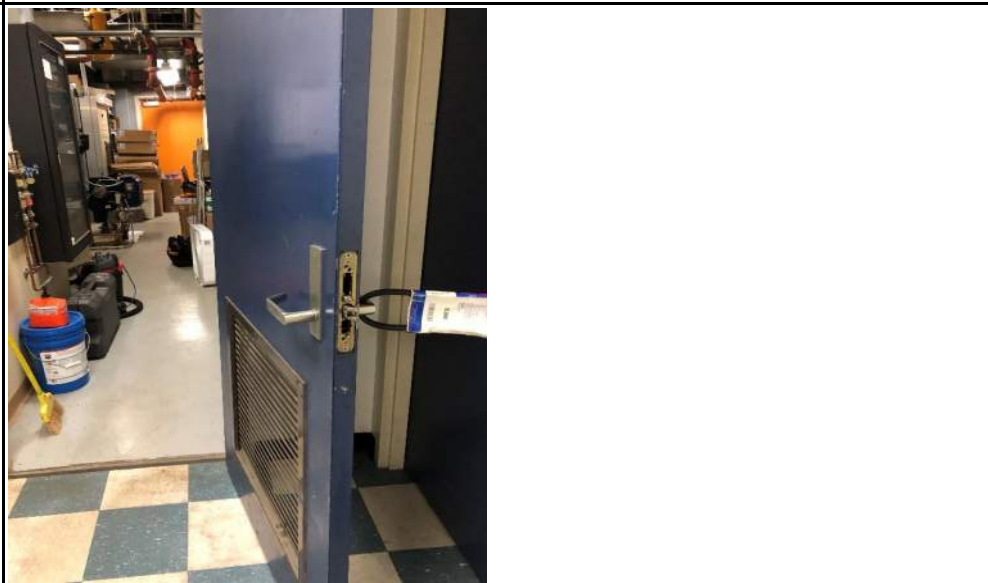
Ref.	Orientation	Observations	Quantity	Recommendations	Photos
	Sloped Roof		13,010 SF	3:12 SLOPE, 2 AREAS	
11		<p>Steel "clip-lock" profile or similar. Paint coating is aging and starting to corrode through at break profiles. Failed fascia profile is leaking in to wall assembly at one location, northeast corner of building. Gutter systems have failed at north (original) and south (repaired 2008) elevations. Deflection noted center span, north sloping roof plane. a split in the rake flashing on the northeast corner of the building (apparently from original construction, covered with old sealant) allows water leakage into the siding assembly at that corner of the building.</p>		<p>Approximately 4-6 years life remain in the metal roof panels, however, multiple installation issues must be resolved to maintain waterproof integrity. As a part of a larger renovation it should be anticipated all roofing, flashings, gutters, and underlayment be replaced with a new metal or membrane roof assembly. Ridge assembly is vented and appears to be performing as designed. eave assembly is failing at both north and south elevations (see comments on building elevations), with no sign of roof cavity venting provisions. A 6' long breach in the rake flashing at the northeast corner of the equipment bay has resulted in long term wetting of exterior wall below to foundation.</p>	



Ref.	Orientation	Observations	Quantity	Recommendations	Photos
12	Basement, Foundation	Basement is comprised of full height concrete walls surrounding firing range, bathrooms and mechanical/electrical space. Parking area is backed by full height concrete walls on two edges and with concrete structural piers.		No evidence of foundation settling or interior slabs, but damage to flooring in basement bathrooms suggests moisture under the slab may be an ongoing issue. Insulation was provided at exterior of foundation as a part of the 2008 south wall reconstruction, but there is no evidence of insulation at basement walls elsewhere. rnovations shall extend 2" rigid insulation to elevation of 4' below grade at building perimeter with flashing and cprotectino board. Anticipate 186 LF, with removal and replacement of site concrete slabs for 164 LF.	


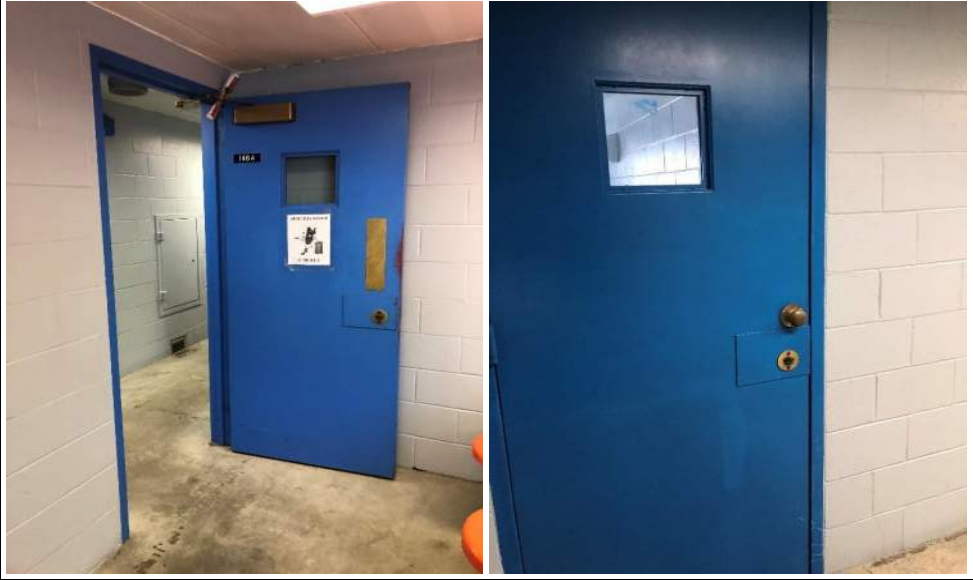
Ref.	Orientation	Observations	Quantity	Recommendations	Photos
13	Secure Recreation Yard	10' tall chainlink fence with coiled barbed wire at top, serving jail patrons. No longer in use due to minimal security confinement, however the need for this space may be mandated by law if people are being detained for extended periods of time.		Reovation to replace fencing with detention grade chain link enclosure panels full height of volumn, and enclosing access stair. Anticipate 45 LF of enclosure 24 feet tall, with one manual high security gate to exterior.	

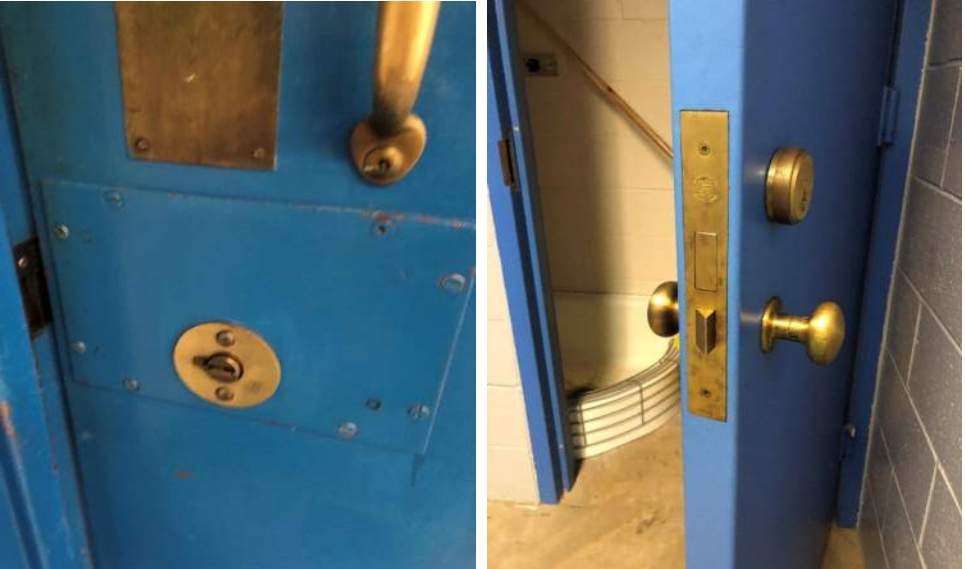

Ref.	Item	Observations	Quantity	Recommendations	Photos
1	Exterior Doors	Commercial Hollow metal, hinged	8	Hollow metal, typ. Fair to poor condition. Replace	
2	Exterior Doors	Aluminum entrance	1(pair)	Good condition, push button pulls may not meet ADA.	

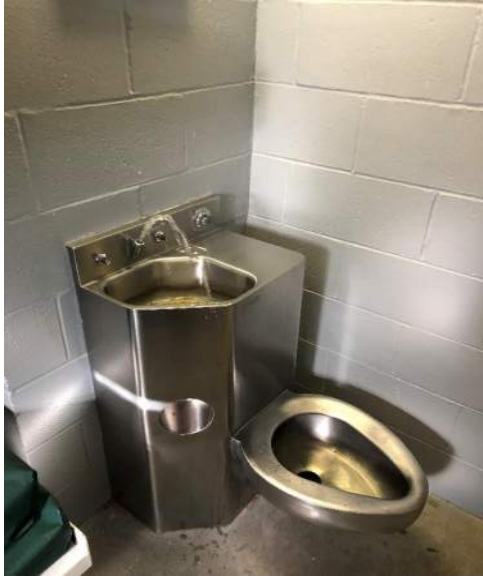
Ref.	Item	Observations	Quantity	Recommendations	Photos
3	Exterior Doors	Overhead doors - insulated section doors with motor-opperators.	6	Insulated sectional, fair condition, some dents and peeling paint, but all fully functional with electric motor operators. Replace dented panels, refinish exterior.	
4	Exterior Doors	Residential doors - storage at parking area	3	Insulated residential metal, good condition	

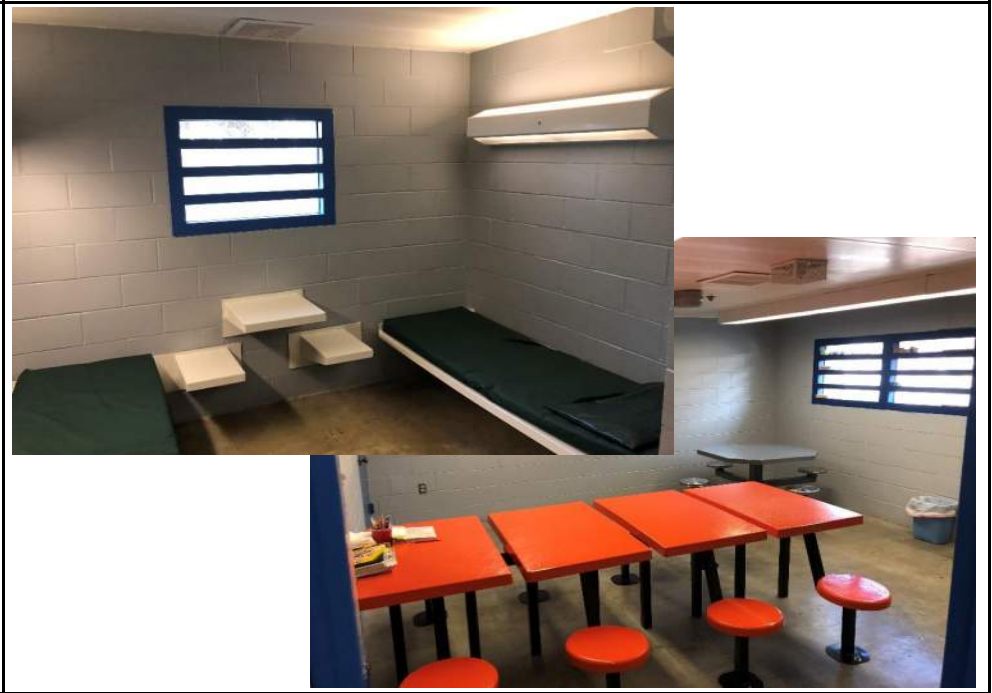
Ref.	Item	Observations	Quantity	Recommendations	Photos
5	Interior Doors	Solid Core Wood in commercial hollow metal frames	82	Good condition, typ. Repaint frames. Painted wood doors in basement, clear finish typical elsewhere. 1-1/2hr fire ratings typ.	
6	Interior Doors	Commercial hollow metal	4	Good condition, at mechanical/electrical rooms, typ. Fire rated to 1-1/2Hr	


Ref.	Item	Observations	Quantity	Recommendations	Photos
7	Interior Doors	Overhead coiling counter	2	Aluminum at Jail laundry securement. Good condition.	
8	Interior Doors	Overhead coiling fire shutter	3	At elevators Automatic device not functioning, will close manually. Repair for automatic closure or replace	
9	Interior Doors	Overhead coiling fire shutter	1	At police Department: Good Condition with fused link. Manual operation.	

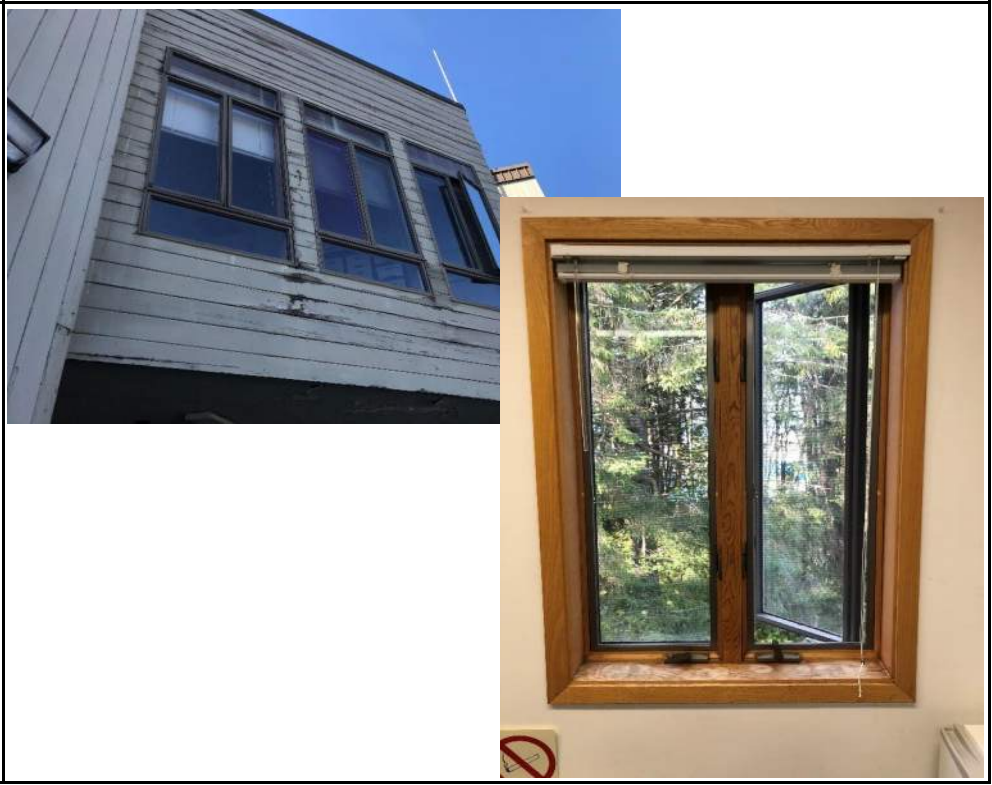
Ref.	Item	Observations	Quantity	Recommendations	Photos
10	Interior Doors	Detention hollow metal slide	3	Detention HM, sliding assemblies with hardware fair to good condition	
11	Interior Doors	Detention Hollow metal hinged	8	Detention HM, doors and solid grouted frames hardware, fair to good condition.	
12	Interior Doors	Detention access panels	3	Detention HM, hardware, fair to good condition.	


Ref.	Item	Observations	Quantity	Recommendations	Photos
13	Detention door hardware	Mechanical paracentric typical at main cell and traffic doors and access panels, one high security lock set at janitors closet. Detention pulls, push plates, strikes and receiver.		Folger Adams mortice locksets (in doors) - good condition. Bronze material and finish. Noted these doors are not electronically controlled or monitored, and therefore do not meet ACA Core Jail standards. Correct this in a renovation.	
14	Commercial Door Hardware	Mortice locksets, ball bearing hinges, closers typical.	91 sets	Schlage mortise locksets with ADA levers and Stanly 5-knuckle ball bearing hinges in stainless steel, typical throughout. KABA mechanical code locksets at three exterior doors and two interior doors into equipment bay and at one interior door into second floor training room. Panic hardware is provided at all primary egress points from the Courtroom and Training room to grade (9 locations, three of which are in pairs, total of 12 Precision panic hardware sets). LCN closers at 87 locations.	


Ref.	Item	Observations	Quantity	Recommendations	Photos
15	Detention Fixtures: Combination toilet/sink units , SS	Noted all of these need valve replacement for sink units.	5	Detention toilet valves function. Sink valves do not all work.	
16	Detention Fixtures: Detention shower	Not ADA/accessible	1	Has approximately 8" step up into shower. Anti-ligature robe hook by shower broken. No lock on access panel for temperature controls. Repair robe hook, install lockset on panel. In a new desing this space would be accessible, but that is not possible in this configuration.	

Ref.	Item	Observations	Quantity	Recommendations	Photos
17	Detention furnishings	Each Cell is equipped with welded steel bunks and shelves mounted to walls and vinyl mattresses. Day room is equipped with detention table stool sets permanently affixed to floor.			



<i>Ref.</i>	<i>Item</i>	<i>Observations</i>	<i>Quantity</i>	<i>Recommendations</i>	<i>Photos</i>
18	Detention M&E	Light fixtures are detention grade and ligature resistant.		Mechanical grills are secure but have larger openings than expected. Must verify for ligature resistance.	

Ref.	Item	Observations	Quantity	Recommendations	Photos
19	Exterior Windows	Andersen, typ.	61	Vinyl clad wood. Mix of functional and non-functional operators. Older assemblies, poor thermal performance. One in particular at south stair well is in very poor condition.	

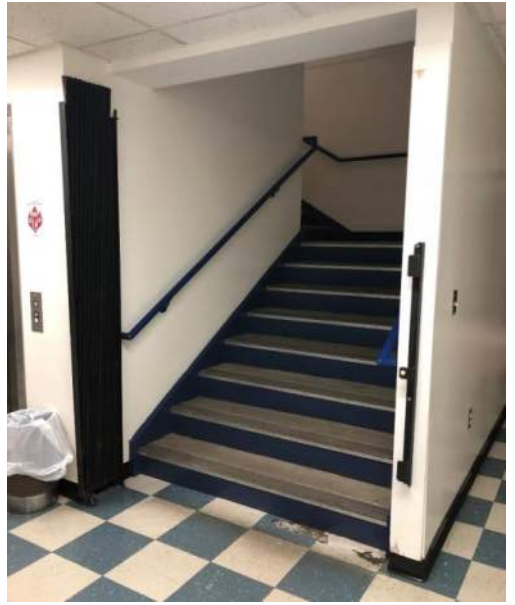
Ref.	Item	Observations	Quantity	Recommendations	Photos
20	Exterior Windows	Vinyl window replacements.	3	New insert at Equipment Bay, older insert at Police Dispatch area.	
21	Exterior Windows	Hollow metal with wire glass	4	At what was once windows to catwalk over rec yard. Enhanced security requirement no longer required. Fair condition, poor thermal performance.	

<i>Ref.</i>	<i>Item</i>	<i>Observations</i>	<i>Quantity</i>	<i>Recommendations</i>	<i>Photos</i>
22	Exterior Windows	Detention hollow metal exterior windows.	6	Fully grouted detention hollow metal frames in CMU construction, secure jail area. Overlain on outside with polycarbonate sheet for enhanced thermal. Frames and detention glazing in good conditions. Plastic exterior overlay material in fair to poor condition.	



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
	Basemen			10534					
1	B000	Parking	Does not meet 40% open area required for natural ventilation (calculates at 34% open area). No ventilation system present. Gypsum board soffit and insulation below equipment bays has been damaged by water leakage.		4589	1) Remove 20 lf of non-structural wood framed wall on grid 3, between girds A and A.1. this brings open area up from 34% to 44%. This opening increase mitigates ventilation requirements. 2) Restore gypsum board soffit assembly where damaged or missing (approximately 250sf) include 12" batt insulation, vapor retarder and WR gwb, painted.		Strip and repaint whole ceiling after completing repairs.	
2	B000.1	Storage	No fire rated enclosure or door. Not conditioned space, not load bearing walls and sprinklered as garage.		523	Apply Type X GWB to exposed framing and plywood paneling, fire tape and ensure sprinkler coverage is sufficient.			
3	B000.2	Storage	No fire rated enclosure or door. Not conditioned space, not load bearing walls and sprinklered as garage.		234	Apply Type X GWB to exposed framing and plywood paneling, fire tape and ensure sprinkler coverage is sufficient.			
4	B000.3	Storage	No fire rated enclosure or door. Not conditioned space, not load bearing walls and sprinklered as garage.		302	Apply Type X GWB to exposed framing and plywood paneling, fire tape and ensure sprinkler coverage is sufficient.			


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
5	B100	Stair	Noted manual gate at bottom of stair for after hours security separation from upstairs. Concrete fill metal pans, abrasive insert nosing. 7":11" rise:run, good condition. 1.75" diameter pipe handrails both sides, painted.		87		No handrail extensions at bottom of stairs. Wal mounted handrails are installed at 33" above nosing rather than the 34" minimum required. Reinstall at correct elevation, and correct extension deficiency.		
6	B101	Elev. Equipment	No Observations		75				



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
7	B102	Mechanical	No Observations - see M/E/P		772	Missing portions of door latching hardware in UL rated door assembly. Repair mortice lockset.			
8	B103	Elevator	3-stop Dover hydraulic elevator. Cab in good condition. Elevator operation is very slow, maintenance should be verified. Inspection certificate dated 06/2019, expires 06/2021. 52" x 69" clear cab dimensions, meets ADA		44	Automatic overhead fire shutter at cab portal is not functioning, jammed open with wood wedges. Repair.	Elevator controls, signals and numerical signage are not accessibility compliant. No braille, no visible on hall side. Update controls and signals.		



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
9	B104	Lobby	ACT Ceiling: fair. Paint at walls: good. 12x12 vct flooring: poor - failing in multiple locations. Rubber base: fair. Metal lockers: good.		380		Drinking fountain does not meet accessibility requirements; height, operator. Replace with new.	Strip and repaint walls, replace flooring and rubber base. Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
10	B105	Janitor			30			Strip and repaint walls.	

Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
11	B106	Women	Painted gypsum board walls and ceiling: poor. Tile wainscot: good. 12x12 vct flooring: poor. Rubber base: good. Plastic laminate faces partitions: good. Fixtures: serviceable. Accessibility issues would necessitate renovation of bathroom.		83		Accessible clearance at door into bathroom is constricted; 54" clear for egress approach required, 42" provided. Reconfiguration requires relocation of plumbing wall serving lavatory. Accessible clearances in stall constricted: Reconfigure to gain additional 9" of clearance, will require new partitions. Lavatories do not have scald guard: install. Missing vertical grab bar at toilet: install. relocate toilet such it meets accessibility requirements (too far from wall with grab bar.)	Strip and repaint walls and ceiling. Remove existing flooring, seal slab, install new flooring. Replace damaged solid core hood door. Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
12	B107	Men	Painted gypsum board walls and ceiling: Alligatored surfaces - poor. Tile wainscot: good. 12x12 vct flooring: poor, failing apparently due to moisture under slab in vicinity of underground waste piping that may be compromised. Plastic laminate faces partitions: good. Fixtures: serviceable. Accessibility issues would necessitate renovation of bathroom.		126		Accessible clearance at door into bathroom is constricted; 54" clear for egress approach required, 42" provided. Reconfiguration requires relocation of plumbing wall serving lavatory. Accessible clearances in stall constricted: Reconfigure to gain additional 9" of clearance, will require new partitions. Lavatories do not have scald guard: install. Missing vertical grab bar at toilet: install.	Strip and repaint walls and ceiling. Remove existing flooring, investigate water source, seal slab, install new flooring. Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
13	B108	Shooting Range	Equipment is aging but in serviceable condition.		1434			Clean range and lead collection area.	
14	B109	Observation	Older carpet and rubber base, ACT, painted finishes.		259			Provide new carpet and rubber base. Paint walls, doors and hollow metal frames.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
15	B110	Corridor	Concrete floor and rubber base, gypsum board ceiling and concrete walls, painted finishes.		156			Paint walls and ceilings.	
16	B111	Stair	Concrete floor and rubber base, gypsum board ceiling and concrete walls, painted finishes.		111			Paint walls and ceilings.	


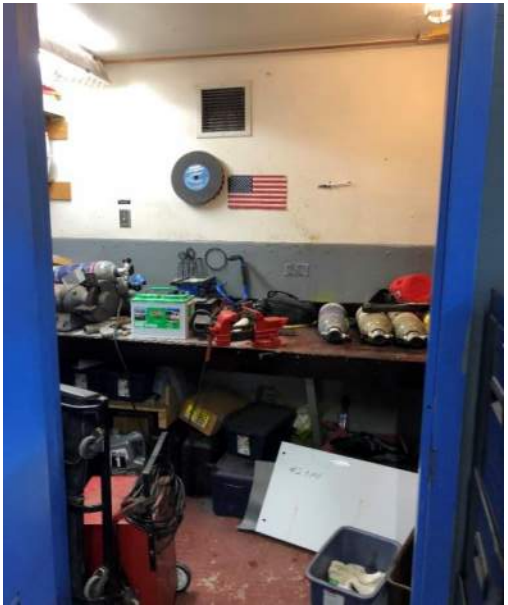
Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
17	B112	Generator	No Architectural Observations - see M/E/P. Generator: CAT 3408DT, approximately 375 hours.		258				
18	B113	Firing area	Older carpet and rubber base, ACT, painted finishes.		188			Provide new carpet and rubber base. Paint walls, doors and hollow metal frames.	
	<i>Subtotal</i>			10534	9651				


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
	Floor 1			11780					
20	100	Apparatus Bay	Alligatored paint at all painted gypsum board walls and ceilings. 8' painted plywood wainscot, all walls: good condition. Floor is painted concrete in worn condition. Overhead doors maintained in good operational condition. Noted water infiltration at northeast corner, likely corresponding to broken rake flashing at roof above this area. Painted wood doors in hollow metal frames from equipment bay into Public Safety facility (x3) fire rated 1.5hr, good condition.		4977			Remove all alligatored paint, fill and sand surface, patch damaged areas of wallboard (north wall), prime and paint all surfaces above 8' AFF. Prep and repaint all floors areas.	

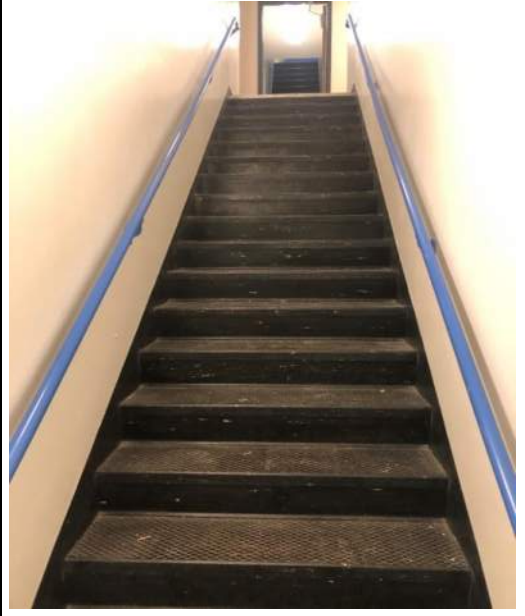
Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
21	101	Hose Tower	Alligatored paint at all painted gypsum board walls and ceilings. Painted wood door in hollow metal frame, fair condition.		72			Remove all alligatored paint, fill and sand surface, prime and paint.	
22	102	Extinguisher Refill	Alligatored paint at all painted gypsum board walls and ceilings. Wainscot and workbench in serviceable condition. Painted wood door (pair) in hollow metal frame, fair condition.		55			Remove all alligatored paint, fill and sand surface, prime and paint. Paint workbench and wainscot.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
23	103	Air Comp	Alligatored paint at all painted gypsum board walls and ceilings. Painted wood door in hollow metal frame, fair condition.		57			Remove all alligatored paint, fill and sand surface, prime and paint.	
24	104	Toilet	Alligatored paint at all painted gypsum board walls above enameled hardboard wainscot (good condition), and ceilings. Sheet vinyl flooring with integral cove base: good conditions. Painted wood door in hollow metal frame, fair condition; missing silencers.		28		Not Accessible by IBC or ADA. As a part of the active fire station area it may be expected all personnel be physically fit and not need accessible bathroom.	Remove all alligatored paint, fill and sand surface, prime and paint.	



Condition Assessment Exhibit B
 Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
25	105	Stair	Alligatored paint at all painted gypsum board walls and ceilings. 7:11 rise run, rubber treads and nosing in good condition. Steel pipe handrails set below 34" minimum height for Accessibility.		80		Remove and reinstall pipe handrails to elevation 34" .	Remove all alligatored paint, fill and sand surface, prime and paint.	




Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
26	106	Office	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished. Clear finished wood door in hollow metal frame, good condition. Louver blinds at exterior windows: fair condition.		116	Noted wire glass in hollow metal frame originally in exterior window was replaced with a vinyl operable unit.			
27	107	Tech Room	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished. Clear finished wood door in hollow metal frame, good condition.		63				
28	108	License	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished. Clear finished wood door in hollow metal frame, good condition.		72				
	109	Not used							


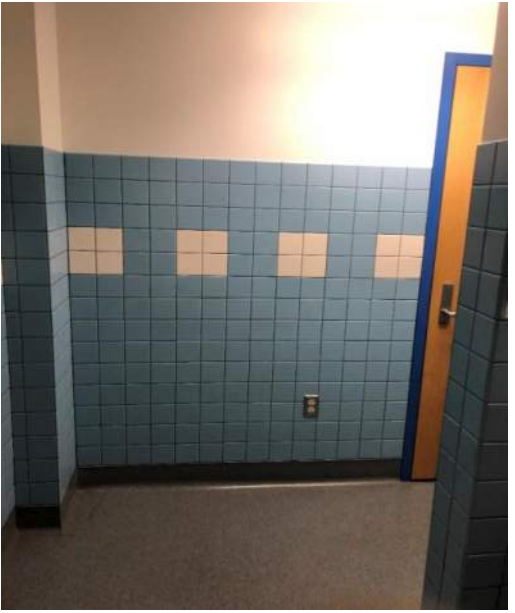
Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
29	110	Stairs	6x6 terracotta tile flooring in lobby and at main stairway up is in good condition. Vinyl wall covering at main stairway delaminating from substrate. Wood slat ceiling in good condition. Handrails only have extensions as required by code on one side. 7" step rise and 11" tread run meets code.					Replace vinyl wall covering at stairs and adjacent display wall. Repaint stair railings.	
30	111	Elevator	See notes in B103		40	Automatic overhead fire shutter at cab portal is not functioning, jammed open with wood wedges. Repair.	Elevator controls, signals and numerical signage are not accessibility compliant. No braille, no visible on hall side. Update controls and signals.		



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
31	112	Lobby	6x6 terracotta tile flooring in lobby is in good condition. Wood slat ceiling in good condition. Horizontal louver blinds in fair condition. Interior doors are clear finished wood with painted hollow metal frames, fair condition.		452		Drinking fountain does not meet Accessibility requirements - replace.	Replace vinyl wall covering at stairs and adjacent display wall. Repaint door frames.	
32	113	Vestibule	Walk off carpet older but in fair condition. Doors and hardware in good condition. Painted gypsum board walls in good condition. Wood slat ceiling in good condition.		155		Entry doors not equipped with motor operator for accessibility. Services counter at police station not at accessible height.		 


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
33	114	Men	Sheet vinyl flooring with rubber base in good condition. Ceramic tile wainscot to 60" in good condition. Gypsum board walls and ceilings in good condition. Plastic laminate partitions in good condition. Plastic laminate lavatory in fair condition. Estimated renovation in early 2000's.		138		42" clearance on pull side of door with closer does not meet accessibility requirements and will require significant bathroom renovation to accomplish. Missing vertical grab bar at toilet - install.		
34	115	Women	Sheet vinyl flooring with rubber base in good condition. Ceramic tile wainscot to 60" in good condition. Gypsum board walls and ceilings in good condition. Plastic laminate partitions in good condition. Plastic laminate lavatory in fair condition. Estimated renovation in early 2000's.		148		42" clearance on pull side of door with closer does not meet accessibility requirements and will require significant bathroom renovation to accomplish. Missing vertical grab bar at toilet - install.		



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
	116	Bathroom	Alligatored paint at all painted gypsum board walls above enameled hardboard wainscot (poor condition, some damage), and ceilings. Sheet vinyl flooring with integral cove base: poor condition. Painted wood door in hollow metal frame, fair condition.		46		Bathroom is large enough to meet spatial requirements under ADA, but does not have grab bars and other compliant fixtures.	Remove all alligatored paint, fill and sand surface, prime and paint. Remove and replace wainscot. Remove and replace sheet vinyl flooring with suitable finish. Replace all fixtures hardware with items compliant with ADA and IBC Chapter 11.	
35	118	Dispatch	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished. Clear finished wood door in hollow metal frame, good condition. Louver blinds at exterior windows: fair condition.		250				



Condition Assessment Exhibit B
Interior Rooms

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36	119	Office	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished. Clear finished wood door in hollow metal frame, good condition. Louver blinds at exterior windows: fair condition.		140				
37	120	Property Storage	Gypsum board walls and ceiling in fair condition. 12x12 vct flooring in fair condition.		140			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
38	121	Office	Not inspected		121				



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
39	122	Corridor	Relatively new 18"x18" commercial carpet tile and carpet base. ACT ceiling: fair condition. Walls more recently refinished.		250				
40	123	Storage	Gypsum board walls and ceiling in fair condition. 12x12 vct flooring in fair condition. Plastic Laminate lockers, fair condition.		63			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
41	124	Armory	Gypsum board walls and ceiling in fair condition. 12x12 vct flooring in fair condition.		38			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
42	125	Evidence Storage/Server	Gypsum board walls and ceiling in fair condition. 12x12 vct flooring in fair condition.		115			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
43	126	Corridor	Renovations removed this corridor and made it part of combined Office and Squad Room.		54				
44	127	Office	Renovations combined Office and Squad Room. Commercial carpet tile and rubber base in worn condition. Built-in partial height walls with wall carpet finishes and wood caps in fair condition. ACT ceiling in fair condition. Reception service window configured as single height, not meeting ADA compliance. Plastic laminate casework in fair condition. Louver blinds at exterior windows are in fair condition.		107	Install automatic fire rated shutter assembly at service window. The existing is not automatic and serves as a nigh security shutter.	Renovate service counter window to meet Accessibility requirements for height and depth. This will require relocation of cabinet unit heater in lobby/vestibule.	Refinish wood caps at partial height walls. Refinish wood entry door from vestibule, repaint associated metal frames. Replace commercial carpet tile.	
45	128	Squad room	Renovations combined office and squad room. Commercial carpet tile and rubber base in worn condition. Built-in partial height walls with wall carpet finishes and wood caps in fair condition. ACT ceiling in fair condition. Plastic laminate casework in fair condition. Louver blinds at exterior windows are in fair condition.		211			Refinish wood caps at partial height walls. Replace commercial carpet tile. Noted this area houses two workstations and is very cluttered. Consider alternative consolidated file storage in another portion of building.	

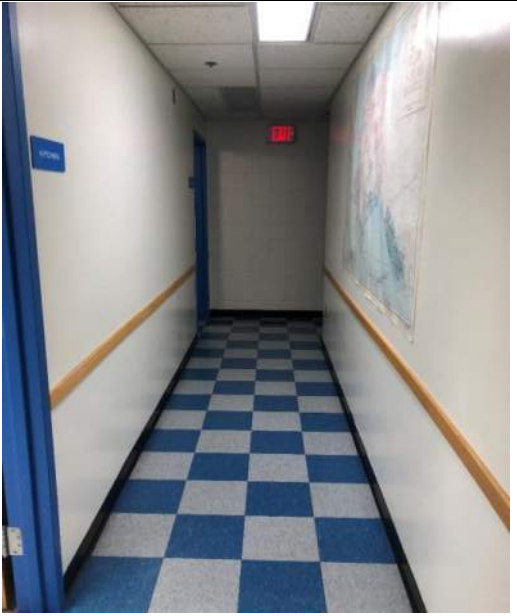

Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
46	129	Booking	Gypsum board walls and ACT ceiling in fair condition. 12x12 vct flooring in fair condition. Plastic laminate casework in fair condition.		122		Laminate countertop extends in to required clear area on pull-side of door. Evaluate accessibility requirements for staff working this area of the facility, as casework is deficient in terms of height and knee-space.	Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
47	130	Sallyport	Gypsum board walls and ceiling in fair condition. 12x12 vct flooring and rubber base in fair condition.		144	Noted doors propped open with wedges. Magnetic holders should be installed in two locations so in the event of a fire the fire rated separations can be maintained.		Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
48	131	storage	Used for linen storage. Gypsum board walls and ceiling in fair condition. 12x12 vct flooring and rubber base in fair condition.		28			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM. Commercial mortice lockset damaged - replace.	
49	132	Jan	Painted gypsum board walls alligatored, above enameled hardboard wainscot (poor condition, some damage), and ceilings. Sheet vinyl flooring with rubber base: poor condition. Clear finished wood door in hollow metal frame, fair condition.		31	Noted food products (snacks foods) stored in same space as janitorial cleaning products. This may be considered a health concern.		Replace wainscot, flooring and wall base. Strip and repaint gypsum board surfaces.	



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
50	133	Corridor	Gypsum board walls and ACT ceiling in fair condition. 12x12 vct flooring and rubber base in fair condition.		258			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
51	134	Kitchen	Recently renovated absorbing adjacent Darkroom in original plan. Painted gypsum walls and ceiling in good condition. Sheet vinyl flooring in good condition. Residential grade cabinets and plastic laminate countertops in good condition. Commercial cookstove (Vulcan 6-burner electric with single oven) in good condition. Commercial Dishwasher (Hobart) in good condition. Commercial refrigerator (Frigidaire) in good condition.		141	Range hood over commercial range is residential type, not type I as required in a commercial application. There is no type 2 hood installed over the commercial dishwasher.	This kitchen is not accessible.	There is no type 2 hood installed over the commercial dishwasher. The flooring transition between hallway VCT and kitchen sheet vinyl is missing. The sheet vinyl is damaged at this threshold. Install flooring transition between sheet vinyl flooring and VCT.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
52	135	Shower	The shower is off the main Circulation space in the secured area. Walls are painted CMU and ceiling is painted metal decking. The door is conventional painted hollow metal with commercial hardware. The shower unit is a detention-type, stainless steel with 6" raised curb. Floor is concrete with an anti-slip coating. All finishes in fair condition.		22		This detention area shower is not accessible, and should be replaced with a shower facilitating roll-in use. Floor plan does not meet prescribed dimensional accessibility requirements.	One of the two anti-ligature robe hooks is damaged and should be replaced. The locking access panel over the temperature control valve is damaged and can not be secured.	
	136	not used							


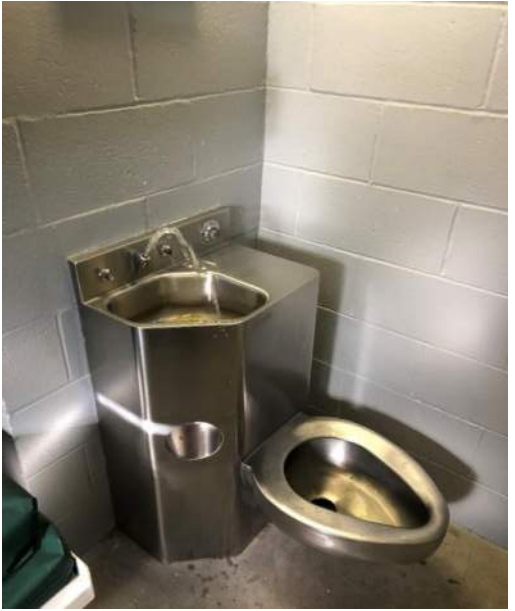
Condition Assessment Exhibit B
Interior Rooms

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53	137	Linen	The linen/laundry area is a niche off the main Circulation space in the secured area, and is securable with an aluminum overhead coiling shutter. Walls are painted CMU and ceiling is painted metal decking. The washer and dryer are conventional residential types in good condition. Plastic laminate countertops and cabinets are in fair condition. Floor is sealed concrete. All finishes in fair condition.		29			Plumbing hook-up box for clothing washer is rusting and should be refinished or replaced.	
54	138	Prisoner Visit	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention metal relight frame needs touchup painting and plastic glazing is in good condition. Door is detention hollow metal and hardware. All finishes in good condition.		27			Repaint detention hollow metal relight frame.	

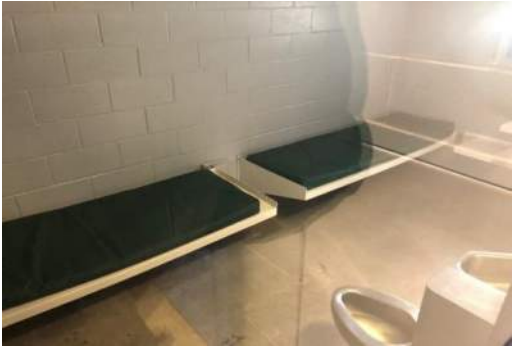

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Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
55	139	Civilian Visit	Walls are painted CMU and ceiling is painted gypsum board. Floor is ACT. Door is painted wood in hollow metal frame. All finishes in good condition.		28			Note the original finish schedule referred to the VCT flooring as "Vinyl asbestos". Test to determine if it is ACM.	
56	140	Cell	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (beds, benched, desks) are welded steel, wall-mounted. Door is a sliding detention hollow metal unit, all hardware functional. All finishes in good condition. Detention stainless steel combi (toilet/lavatory) unit in fair condition. Cell area meets ACA's Core Jail standards. This cell supervised via security camera.		81	There are no electronic door controls or monitoring devices, or means of triggering immediate release in emergency situations, per ACA Core Jail standards. Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.			



Condition Assessment Exhibit B
Interior Rooms

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57	141	Cell	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (beds, benched, desks) are welded steel, wall-mounted. Door is a sliding detention hollow metal unit, all hardware functional. All finishes in good condition. Detention stainless steel combi (toilet/lavatory) unit in fair condition. Cell area meets ACA's Core Jail standards.		85	There are no electronic door controls or monitoring devices, or means of triggering immediate release in emergency situations, per ACA Core Jail standards. Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.		Replace water valves at combi unit lavatory - minimal flow.	
58	142	Cell	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (beds, benched, desks) are welded steel, wall-mounted. Door is a sliding detention hollow metal unit, all hardware functional. All finishes in good condition. Detention stainless steel combi (toilet/lavatory) unit in fair condition. Cell area meets ACA's Core Jail standards.		85	There are no electronic door controls or monitoring devices, or means of triggering immediate release in emergency situations, per ACA Core Jail standards. Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.		Inspect plumbing at combi unit - brown water comes out of tap when first running. Water pressure is high - adjust such it does not overshoot basin.	




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Interior Rooms

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59	143	Cell	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (beds, benched, desks) are welded steel, wall-mounted. Door is a hinged detention hollow metal unit, all hardware functional. All finishes in good condition. Detention stainless steel combi (toilet/lavatory) unit in fair condition. Cell area meets ACA's Core Jail standards.		118	There are no electronic door controls or monitoring devices, or means of triggering immediate release in emergency situations, per ACA Core Jail standards. Cover at ceiling mounted Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.		Replace water valves at combi unit lavatory - no flow.	
60	144	Secure Corridor	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Plumbing chase access panels are hinged detention metal unit, all security hardware functional. Finishes in fair condition.		124			Touchup paint detention metal frame and doors	


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Interior Rooms

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61	145	Secure Circulation	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Some patching at concrete floor is necessary. Finishes in fair condition. Supervised via security cameras.		222			Clean and patch/fill joint at concrete floor with epoxy grout.	
62	146	Day Room	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (tables and stools) are welded steel, floor-mounted. Doors are hinged detention hollow metal units, all hardware functional. All finishes in fair condition. Supervised via security cameras.		259	There are no electronic door controls or monitoring devices, or means of triggering immediate release in emergency situations, per ACA Core Jail standards. Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.			


Condition Assessment Exhibit B
Interior Rooms

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63	147	Stair	No entry from stairs to the detention area on this level. Alligatored paint on all gypsum board walls. Exterior window trim partially removed and shows evidence of water damage.		103			Strip and repaint all gypsum board surfaces. Repair window trim.	
64	148	Holding	Walls are painted CMU and ceiling is painted metal decking. Floor is sealed concrete. Detention furnishings (beds, benches, desks) are welded steel, wall-mounted. Door is a hinged detention hollow metal unit, all hardware functional. All finishes in fair condition. Detention stainless steel combi (toilet/lavatory) unit in fair condition. Holding area meets ACA's Core Jail standards in terms of sf per occupant. Supervised via security cameras.		190	Call button is missing. Cover at ceiling mounted equipment has holes greater than that recommended for ligature prevention, per ACA.			 



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65	149	Garage	Two-car vehicular garage currently being utilized as storage area. This is a semi-secure police vehicle sallyport with direct access to police station. Water damage at the south wall is evident, with interior gypsum board panels removed exposing extensive rot and insect damage at wall framing, base of wall. Ceiling has multiple holes in the gypsum board panels, temporarily covered with plastic sheeting.		677	The ceiling is part of a fire rated assembly. Holes in the ceiling must be repaired as soon as possible to maintain separation between floors and between garage and offices above.		Rotten 2x6 wall framing to be removed and replaced with new from elevation 6' aff to and including the sill plate for a length of wall approximately 20' . This is a bearing wall on grid H	
	Subtotal			11780	10762				


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
	Floor 2			10362					
66	200	Training	Large room with two exists and Modern Fold "accordion" type acoustic partition to divide into two separate spaces. Provided with kitchenette, large screen TV and three 4'x8' white boards (good condition). Commercial carpet and rubber base in worn condition. VCT flooring around kitchenette in fair condition. plastic laminate cabinets at kitchenette in poor condition. Vinyl wall covering in poor condition. Commercial style refrigerator in good condition.		1200		Kitchenette sink is not accessible - upgrade with replacement.	Replace flooring, replace plastic laminate kitchenette. Replace vinyl wall covering. Note the original finish schedule referred to the VCT flooring in kitchenette as "Vinyl asbestos". Test to determine if it is ACM.	
67	201	Unknown	Space not reviewed		162				
68	202	Fire Chief Office	Office-sized space Carpet and base in fair condition.		166			Replace carpet, paint all walls.	



Condition Assessment Exhibit B
Interior Rooms

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69	203	Records Work	Office-sized space with lower and upper cabinets full length of room. Carpet and base in fair condition. Cabinets in functional condition.		143			Space appears underutilized. Reassess function in renovation and anticipate removing all plastic laminate cabinets and refinishing all walls, with replacement of carpet.	
70	204	Kitchen	Aging finishes, casework but in fair condition. LVT Flooring.		68		Space is not large enough to meet accessibility requirements.	Upgrade countertops and appliances; Range, Hood, Refrigerator (provide counter-depth unit), dishwasher. Repaint all walls and ceilings.	





Condition Assessment Exhibit B
 Interior Rooms

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71	205	Bathroom	Aging finishes, casework but in fair condition.		39		Space is not large enough to meet accessibility requirements.	Upgrade countertop at vanity and repaint all walls and ceilings.	


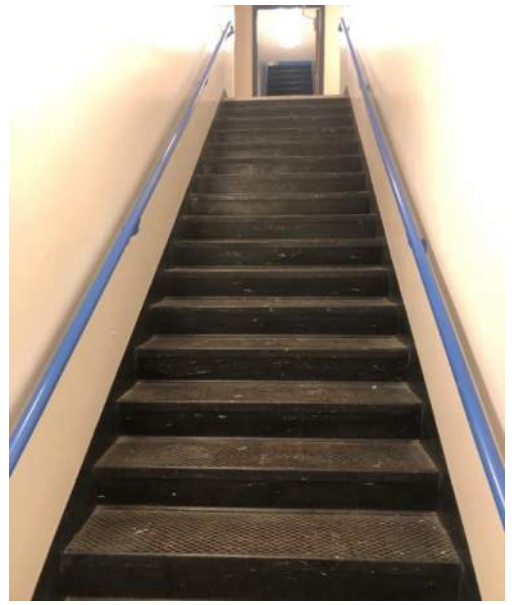
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Interior Rooms

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72	206	Toilet	Bathroom that opens into Training 200. Sheet vinyl floor and integral base, poor condition. Vinyl wall covering above wainscot, poor condition. Enameled hardboard wainscot- fair condition. No ADA equipment.		17		Bathroom is not large enough to meet accessibility requirements.	Strip and repaint gypsum board ceiling surfaces. Replace vinyl wall covering. Replace sheet vinyl flooring with integral cove base.	
73	207	Storage	Converted to laundry room. Alligatored paint at walls, ceiling. worn flooring.		22			Remove side-by-side washer and dryer, replace with a stacking unit. Refinish all walls and ceiling. Install new flooring.	

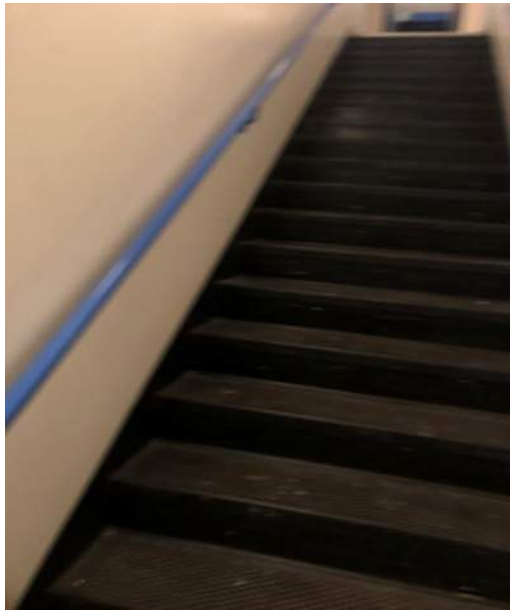

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Interior Rooms

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74	208	Hose Tower	Upper level - painted wall finishes alligating.		0			Strip and repaint all gypsum board wall and ceiling surfaces.	
75	209	Bedroom	Aging finishes, no egress window. Wood door, frame and trim in fair condition. LVT Flooring.		116	Install egress window.		Repaint all wall and ceiling surfaces.	
76	210	Bedroom	Aging finishes, no egress window. Wood door, frame and trim in fair condition. LVT Flooring.		122	Install egress window.		Repaint all wall and ceiling surfaces.	
77	211	Living	Aging finishes, LVT flooring.		157			Repaint all wall and ceiling surfaces.	


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78	212	Dining	Aging finishes. Plastic laminate bar in poor condition. LVT Flooring.		96			Repaint all wall and ceiling surfaces. Replace plastic laminate bar.	
79	213	Stair	Stair down to equipment bay and back exterior mezzanine. Alligatored paint on gypsum board walls. 7" rise and 11" run meets code. Handrails both sides, rubber treads and risers. Good condition.		120			Strip and repaint all walls.	




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80	214	Stair	Stair up to mechanical loft/mezzanine. Alligatored paint on gypsum board walls. 9" rise and 8.5" run does not meet OSHA for equipment access, but has handrails both sides, rubber treads and is otherwise in good condition.		71			Strip and repaint all walls.	
81	215	Elevator	See notes in B103		40	Automatic overhead fire shutter at cab portal is not functioning, jammed open with wood wedges. Repair.	Elevator controls, signals and numerical signage are not accessibility compliant. No braille, no visible on hall side. Update controls and signals.		

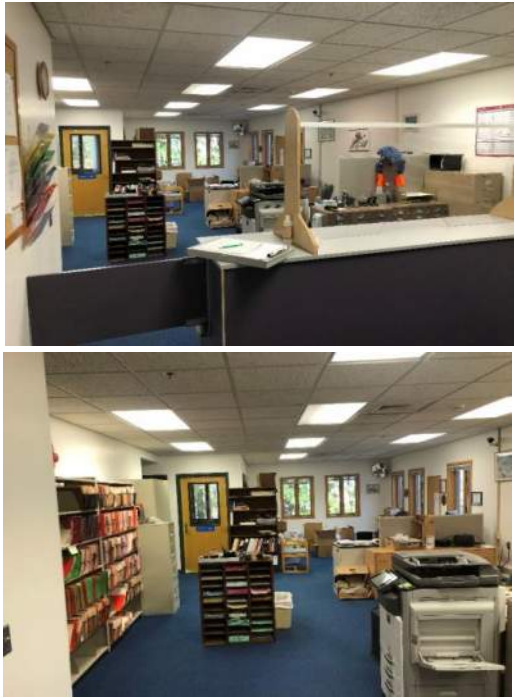
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 Interior Rooms

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82	216	Hallway	Alligatored paint on gypsum board walls. ACT ceiling in good condition. Commercial carpet and rubber base older, in fair condition.		300			Strip and paint walls, replace carpet and rubber base. Touch up painted hollow metal door frames. Replace carpet and rubber base.	


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83	217	Lobby	Paint on south wall damaged due to water leak. Wood slat ceiling in fair condition , with some water damage in areas of roof leaks. Painted pipe guardrail has larger than 4" openings, and is less that code required 42" height in some areas. Commercial carpet is older, fair condition. Horizontal louver blinds at exterior windows in fair condition.		816	Modify guard rail height as required for compliance. Add panels or modify railing to narrow openings to code requirement.		After roof/wall leak is resolved, repair at gypsum wall and wood slat ceiling where damaged. New paint at all walls, new carpet and rubber base.	 
84	218	Public Records	Floor = 24x24 commercial carpet tile with rubber base, good condition. ACT ceiling, good condition. Walls , painted gypsum board, good condition. Clear finished wood doors in hollow metal frames, good condition. Plastic laminate casework, good condition.		532		Service counter not configured for accessibility. Modify for 30" high service area.		


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85	219	Clerks Office	Floor = 24x24 commercial carpet tile with rubber base, good condition. ACT ceiling, good condition. Walls, painted gypsum board, good condition (poor condition at exterior walls). Clear finished wood doors in hollow metal frames, good condition.		153	The exterior (west and north) walls in this space display significant water damage from leaking parapet and scupper above. Water damage is evident at the wood window unit and can be seen where gypsum board wall is "swelling" into the room around the window. Area is noted in exterior investigations for significant shoring and reconstruction.		Long term water infiltration and humidity cause significant occupant discomfort and deteriorating affect on interior finishes. Anticipate all finishes for this room shall be removed and reinstalled new. Exterior wall is substantially deteriorated due to water infiltration and shall be reconstructed with new framing, insulation vapor retarder sheathing and siding. Coordinate with exterior notes and structural notes.	

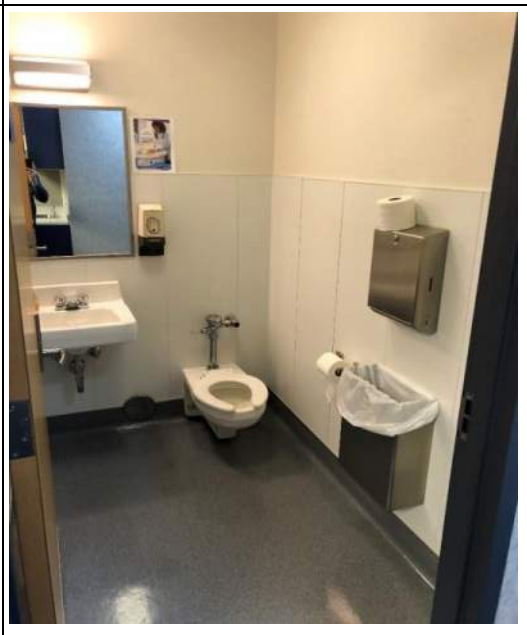
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Interior Rooms

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86	220	Entry	Floor = 24x24 commercial carpet tile with rubber base, good condition. ACT ceiling, good condition. Walls, painted gypsum board, fair condition with some alligatoring. Clear finished wood doors in hollow metal frames, good condition.		121		Paired doors: each leaf is narrower than required so both leaf must be open to meet 34" clear width. Provide motor operator and push button controls to open each pair of doors at two locations, or replace both pairs of doors with new single panels doors with sidelight.		
	221	Not Used							
87	222	Women	Sheet vinyl flooring with rubber base in fair condition. Ceramic tile wainscot to 60" in good condition. Gypsum board walls and ceilings in good condition. Plastic laminate partitions in fair condition. Plastic laminate lavatory in fair condition. Estimated renovation in early 2000's.		148		42" clearance on pull side of door with closer does not meet accessibility requirements and will require significant bathroom renovation to accomplish. Missing vertical grab bar at toilet - install.		



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88	223	Men	Sheet vinyl flooring with rubber base in fair condition. Ceramic tile wainscot to 60" in good condition. Gypsum board walls and ceilings in good condition. Plastic laminate partitions in fair condition. Plastic laminate lavatory in fair condition. Estimated renovation in early 2000's.		137		42" clearance on pull side of door with closer does not meet accessibility requirements and will require significant bathroom renovation to accomplish. Missing vertical grab bar at toilet - install.		
89	224	Witness	Room not inspected (locked)		55				


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90	225	Toilet	Alligatored paint on all gypsum board walls above wainscot, and ceilings. Sheet vinyl flooring with integral cove base, in fair condition. Clear finished wood doors with painted hollow metal frames, in good condition. Stainless steel washroom accessories in good condition. Wainscot in fair condition.		30		Not accessible; limited clearances, no grab bars, scald-guards.	Strip and paint gypsum board walls and ceiling. Replace vinyl flooring and cove base.	



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91	226	Toilet	Alligatored paint on all gypsum board walls above wainscot, and ceilings. Sheet vinyl flooring with integral cove base, in fair condition. Clear finished wood doors with painted hollow metal frames, in good condition. Stainless steel washroom accessories in good condition. Wainscot in fair condition.		30		Not accessible; limited clearances, no grab bars, scald-guards.	Strip and paint gypsum board walls and ceiling. Replace vinyl flooring and cove base.	
92	227	Jury Room	ACT ceiling, good condition. Carpet wall covering, good condition. 24x24 commercial carpet tile and rubber base, good condition. Plastic laminate casework and top (with sink) good condition - meets side reach requirements for ADA. Clear finished wood doors, good condition.		383		Jury room is not provided with accessible bathroom. While not explicitly required in the IBC, this is a functional breach in operations, as the only accessible bathrooms are on the public side, outside the Jury sequester space.		




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93	228	Court Room	12x12 adhered acoustic ceiling tile, good condition. Wood slat ceiling soffit, good condition. Alligatored paint on all gypsum board soffits soffits (25% floor area). Carpet wall covering, good condition. 24x24 commercial carpet tile and rubber base, good condition. Clear finish wood trim at partial height walls and fixed wood veneer faced and topped casework in good condition. Clear finished wood doors, good condition. Clear finished wood trim at Judge, jury and witness boxes in good condition. Two means of egress provided and clearly marked.		1136		Jury box is not accessible (elevated with steps) and has no space for wheelchair, required per IBC 1108.4.1.1. wheelchair seating in the Gallery is not provided per 1108.4.1.2. Employee work stations and Judge's bench not accessible as required by 1108.4.1.4 (one step up). Reconfiguration remodel required.	All gypsum wall bord ceilings/soffit areas to be stripped and repainted. (25% floor area)	



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	229	Corridor	Alligatored paint on gypsum board walls. ACT ceiling in good condition. t 24x24 commercial carpet tile and rubber base in good condition.		107	Provide magnetic door holder at corridor door - it is a fire rated separation and is propped open with wedges.		Strip and paint walls. Touch up painted hollow metal door frames.	
94	230	Vestibule	Alligatored paint on gypsum board walls. ACT ceiling in good condition. Commercial carpet and rubber base older, in fair condition. Clear finished wood doors in fair condition.		125	Provide magnetic door holder at corridor doors to 231 and 216 - fire rated separations propped open with wedges.		Strip and paint walls, replace carpet and rubber base. Touch up painted hollow metal door frames. Replace carpet and rubber base.	




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Interior Rooms

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95	231	Corridor	Alligatored paint on gypsum board walls. ACT ceiling in good condition. Commercial carpet and rubber base older, in fair condition. Clear finished wood doors in fair condition.		79	Provide magnetic door holder at corridor door - it is a fire rated separation and is propped open with wedges.		Strip and paint walls, replace carpet and rubber base. Touch up painted hollow metal door frames. Replace carpet and rubber base.	
96	232	DMV	More recent renovation evident in this space. Exterior window operator problems. Commercial carpet and carpet base in fair condition. Replace missing ACT (one piece, 2x2). Plastic Laminate counter and half height partitions in fair condition. horizontal louver blinds in fair condition.		521			Replace missing ceiling tile (2x2), replace carpet, refinish wood trim on plastic laminate casework. Paint walls.	
97	232A	Records	More recent renovation evident in this space; new wall and door subdividing from 232.		137			Replace commercial carpet. Paint walls.	


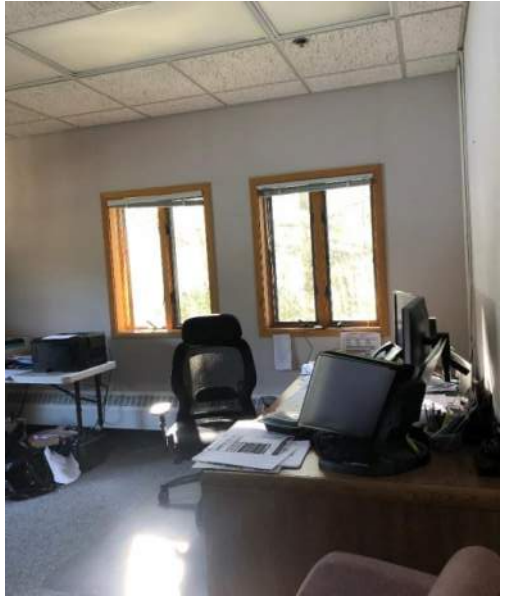
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98	233	Interview	Room sustained damage from a leak in the dry pipe sprinkler system in the roof cavity. ACT ceiling and gird is 80% removed. Gypsum panels and insulation have been removed from exterior wall. Gypsum panels and insulation have been removed from the roof assembly. Window trim and blinds have been removed.		134	The wall and roof assemblies are fire rated, and must be closed up with insulation and gypsum panels per the fire rated design.		With the completion of the gypsum board, insulation and vapor retarder installation, paint all surfaces. Install window trim. Install ACT ceiling system and lighting. Replac dammaged carpet area.	
99	234	Jan.	Space not reviewed.		47			Anticipate repainting walls, replacing sheet vinyl flooring.	
100	235	Customs	Space more recently renovated, likely when exterior wall work was done. Carpet is older but in fair condition. Exterior gypsum wall board in good condition, exterior clad wood windows painted rather than clear finish as seen elsewhere. ACT ceiling in good condition. Carpet finished walls in good condition.		390			Replace carpet and base when connecting hallway carpet is replaced. Exterior wall, may be subject to reconstruction due to resolve water infiltration and internal deterioration. Repairs will require removal and reinstallation of full length baseboard heat unit.	



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101	236	Stair	Door at top of stairs missing latch. Alligatored paint on all gypsum board walls severe. Exterior window trim partially removed and shows evidence of water damage.		103	Install missing hardware at fire rated door and frame (latch catch for panic hardware).		Strip and repaint all gypsum board surfaces. Repair window trim. Paint interior window trim and window.	 
102	237	Break	Carpet is older but in fair condition. Exterior gypsum wall board in poor condition, cracked with evidence of water infiltration. ACT ceiling in good condition. Plastic laminate casework and countertops with sink in fair condition - meets side reach requirements for ADA. Clear finished wood doors, good condition.		166			Replace carpet and base when connecting hallway carpet is replaced. Exterior wall, may be subject to reconstruction due to resolve water infiltration and internal deterioration. Repairs will require removal and reinstallation of full length baseboard heat unit.	
103	238	Vault	Room not inspected (locked). Anticipating finishes to be in fair condition. Room does not extend to exterior wall.		79				

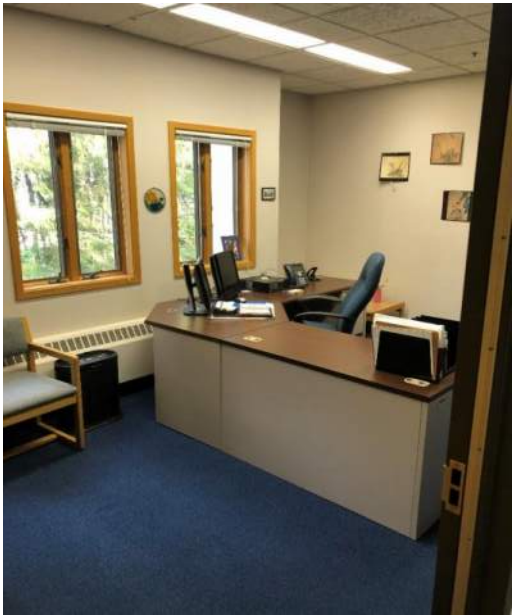

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Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
104	239	Toilet	Alligatored paint on all gypsum board walls above wainscot, and ceilings. Sheet vinyl flooring with integral cove base, in fair condition. Clear finished wood doors with painted hollow metal frames, in good condition. Stainless steel washroom accessories in good condition. Wainscot in fair condition.		28		Not accessible; limited clearances, no grab bars, scald-guards.	Strip and paint gypsum board walls and ceiling. Replace vinyl flooring and cove base.	
105	240	Police Chief	Carpet is older but in fair condition. Exterior gypsum wall board in good condition. ACT ceiling in good condition. Carpet faced wall in good condition. Clear finished wood doors, good condition.		244			Replace carpet and base when connecting hallway carpet is replaced. Exterior wall, may be subject to reconstruction due to resolve water infiltration and internal deterioration. Repairs will require removal and reinstallation of partial length baseboard heat unit.	



Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
106	241	Server	24x24 commercial carpet tile with rubber base, good condition. ACT ceiling, good condition. Walls, painted gypsum board, good condition. Clear finished wood doors in hollow metal frames, good condition.		153			Exterior wall, may be subject to reconstruction due to resolve water infiltration and internal deterioration. Repairs will require removal and reinstallation of partial length baseboard heat unit.	
107	242	Toilet	Alligatored paint on all gypsum board walls above wainscot, and ceilings. Sheet vinyl flooring with integral cove base, in poor condition. Clear finished wood doors with painted hollow metal frames, in good condition. Stainless steel washroom accessories in good condition. Wainscot in fair condition. Plastic laminate casework and counter lavatory in fair condition.		27		Not accessible; limited clearances, no grab bars, scald-guards.	Strip and paint gypsum board walls and ceiling. Replace vinyl flooring and cove base.	


Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
108	243	Magistrate's Office	24x24 commercial carpet tile with rubber base, good condition. ACT ceiling, good condition. Walls, painted gypsum board, good condition. Carpet wall covering at one wall, poor condition. Clear finished wood doors in hollow metal frames, good condition.		182			Exterior wall, may be subject to reconstruction due to resolve water infiltration and internal deterioration. Repairs will require removal and reinstallation of partial length baseboard heat unit. Replace carpet wall finish with new.	
109	244	Lounge	Alligatored paint on all gypsum board walls. Sheet vinyl flooring with rubber base, good condition. Plastic laminate casework and counter in fair condition. Sink accessible via side reach, but basin is too deep.		196	Temporary shoring for roof structure shall be installed through this space, necessitating removal of casework and ACT grid.	Replace stainless steel sink with shallow basin unit.	Anticipate all finishes for this room shall be removed and reinstalled new. Exterior wall is substantially deteriorated due to water infiltration and shall be reconstructed with new framing, insulation vapor retarder sheathing and siding. Coordinate with exterior notes and structural notes.	

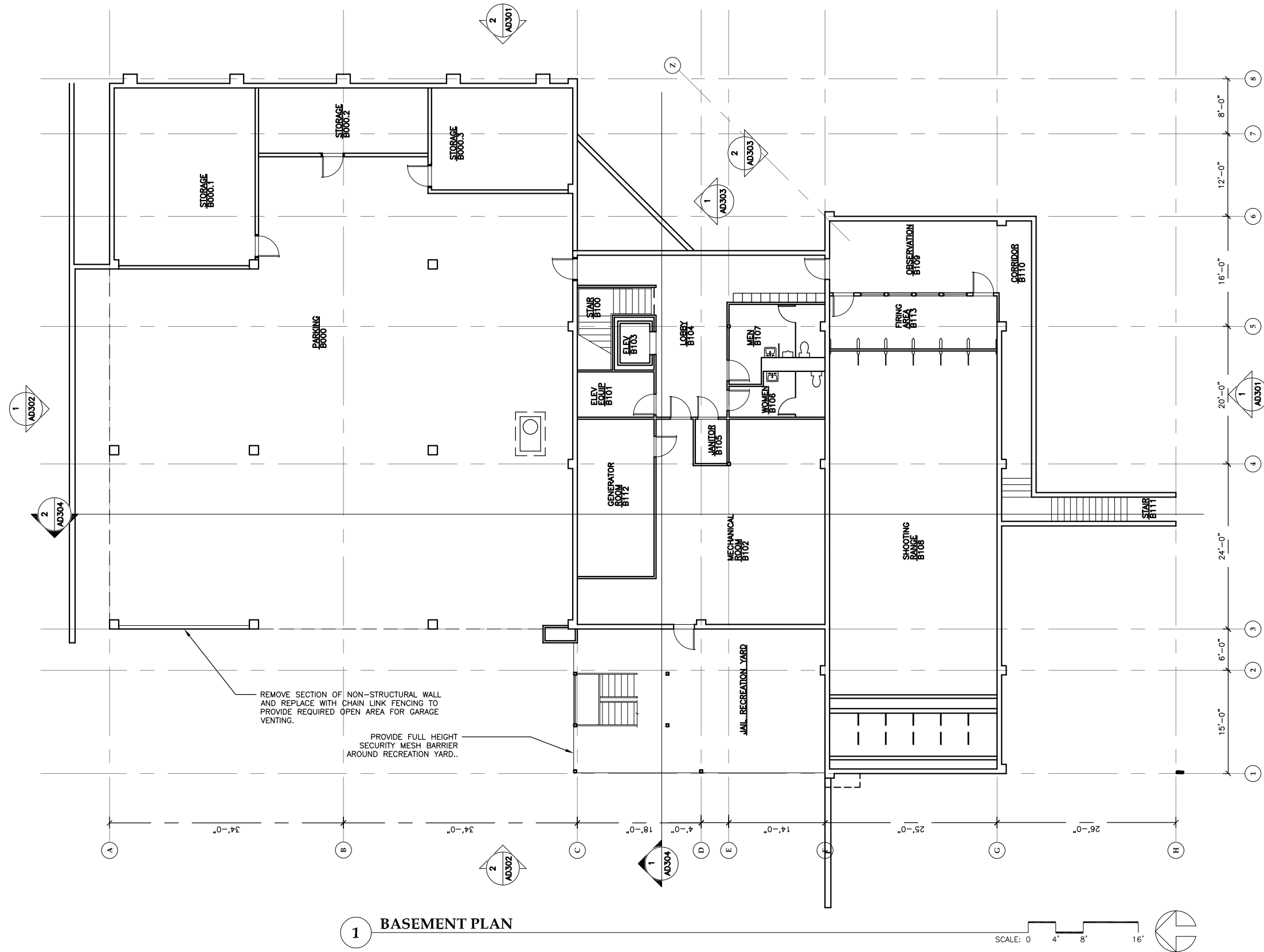
Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
110	245	Court Clerk	All exterior wall panels have been removed an the room sealed due to mold. Will undergo significant reconstruction.		109	Temporary shoring for roof structure will be installed through this space, necessitating removal of casework and ACT grid.		Anticipate all finishes for this room shall be removed and reinstalled new. Exterior wall is substantially deteriorated due to water infiltration and shall be reconstructed with new framing, insulation vapor retarder sheathing and siding. Coordinate with exterior notes and structural notes.	
111	246	Storage	ACT ceiling in good condition. Sheet vinyl flooring and rubber base in good condition. Gypsum board walls display some alligatoring.		80			Strip and repaint gypsum board walls	
	<i>Subtotal</i>			10362	9287				

Condition Assessment Exhibit B
Interior Rooms

Ref.	Level Room Number	Room Name	Observations	Gross SF	Net SF	Fire/Life Safety Deficiencies and Repairs	Accessibility, ANSI 117.1 and IBC Chapter 11; Deficiencies and Repairs	Maintenance Repairs	Photos
	Mech. Loft			2168					
112	M300	Mechanical	Unfinished areas for equipment, attics, and roof access.		2015	Patch all gypsum board cut-away required for investigations. All are in fire protection assemblies and need to be fire taped. 6-8 locations totaling 15 sf.		Replace seals at exterior access doors.	
	Subtotal			2168	2016				
				Gross	Net				
	TOTAL SF			34844	31716				

RE-CLAD WHOLE BUILDING, REPAIRING ALL DETERIORATED FRAMING SHEATHING AND THERMAL BARRIER.



1 BASEMENT PLAN

NOTE:
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 OF INFORMATION ABOUT AN EXISTING BUILDING.
 THE CONTRACTOR MUST FIELD VERIFY ALL INFORMATION
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 DISCREPANCY PRIOR TO MODIFICATION

City and Borough of Wrangell
 Public Safety Building
 Condition Assessment Exhibit D
 Wrangell, Alaska

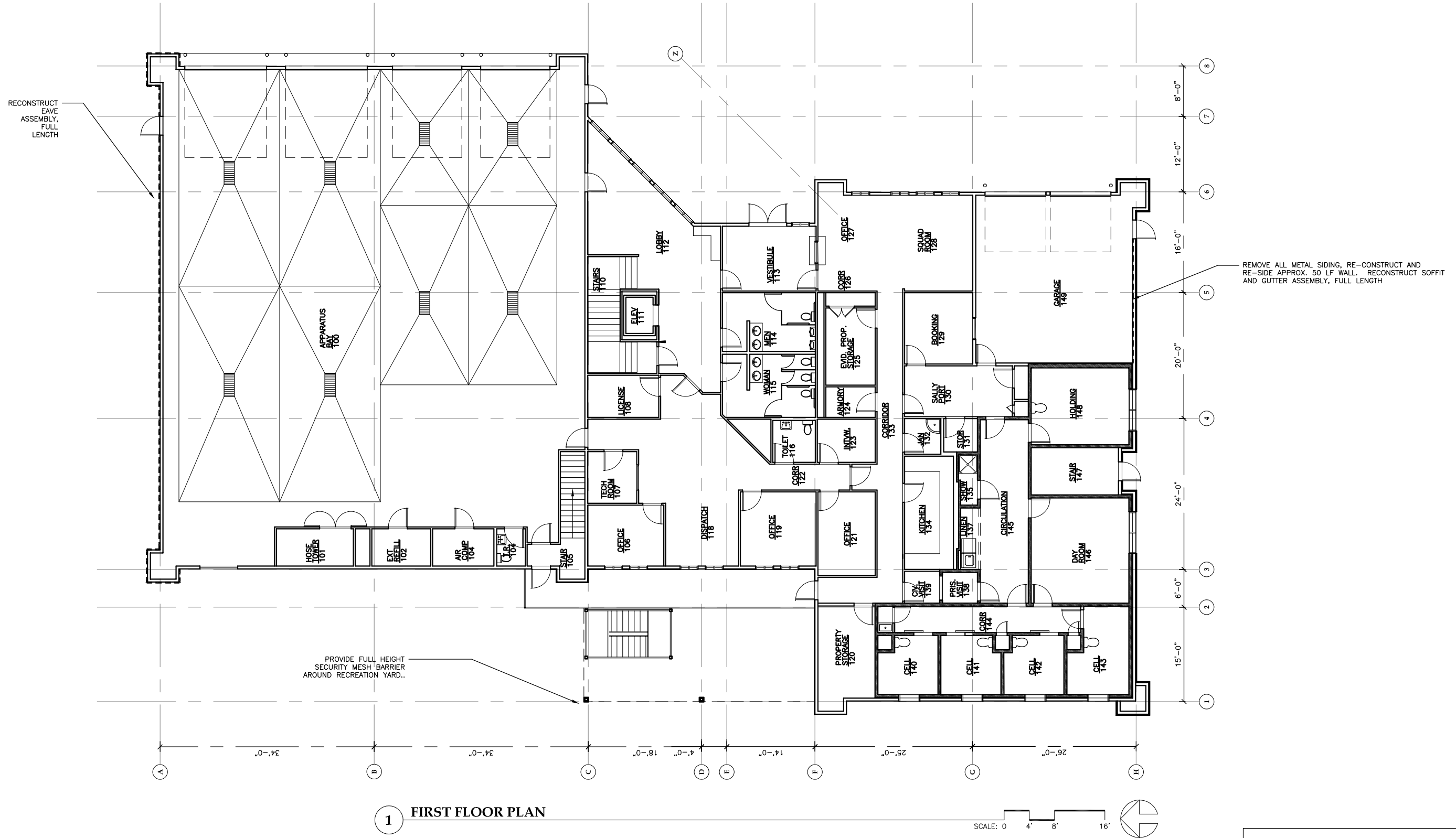
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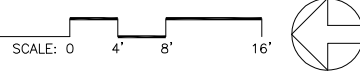
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A201

RE-CLAD WHOLE BUILDING, REPAIRING ALL DETERIORATED FRAMING SHEATHING AND THERMAL BARRIER.



1 FIRST FLOOR PLAN



REMOVE ALL METAL SIDING, RE-CONSTRUCT AND RE-SIDE APPROX. 50 LF WALL. RECONSTRUCT SOFFIT AND GUTTER ASSEMBLY, FULL LENGTH

PROVIDE FULL HEIGHT SECURITY MESH BARRIER AROUND RECREATION YARD..

RECONSTRUCT EAVE ASSEMBLY, FULL LENGTH

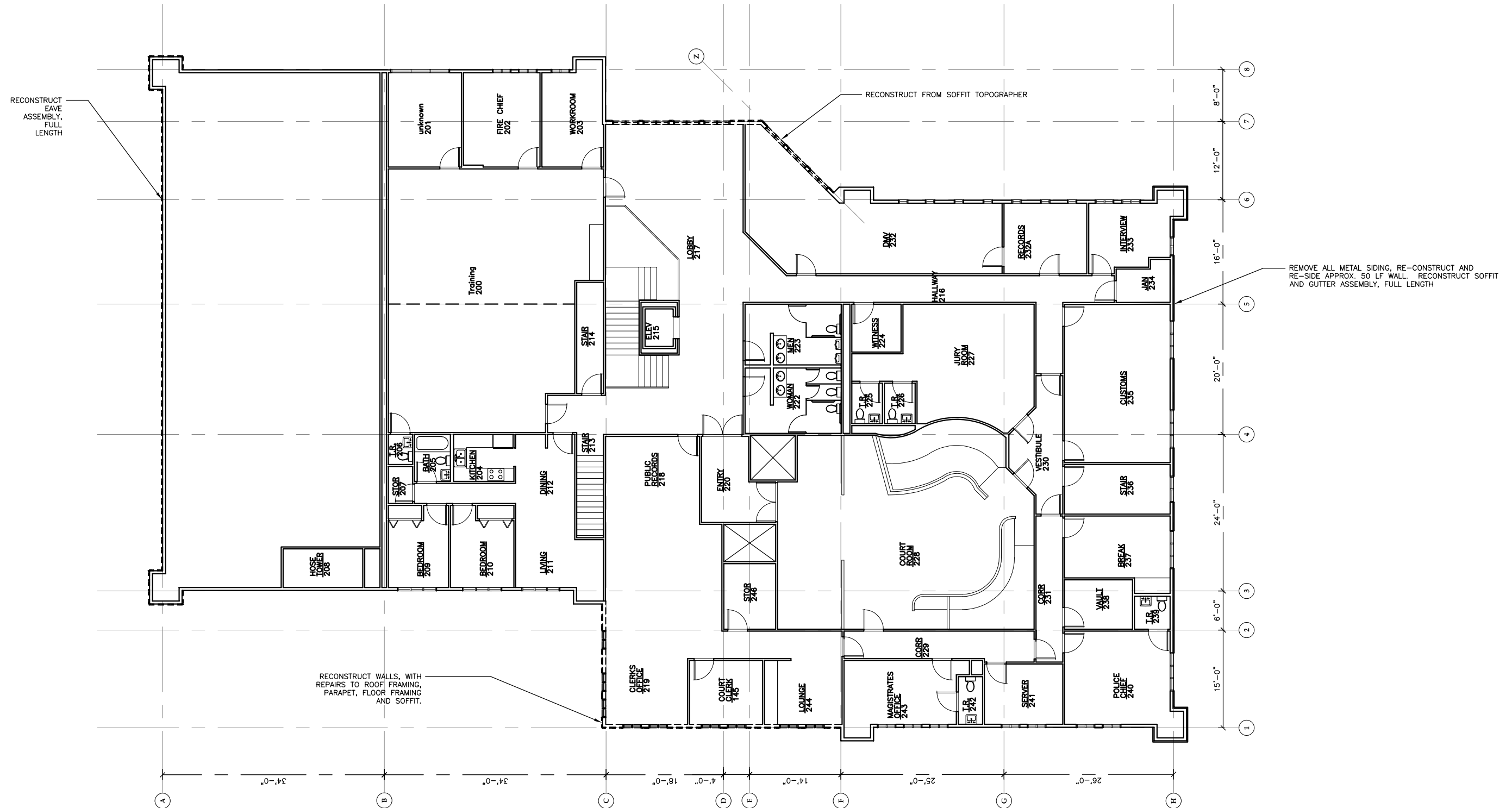
City and Borough of Wrangell
 Public Safety Building
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 Wrangell, Alaska

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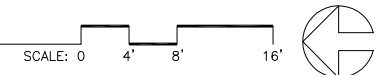
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RE-CLAD WHOLE BUILDING, REPAIRING ALL DETERIORATED FRAMING SHEATHING AND THERMAL BARRIER.



1 SECOND FLOOR PLAN

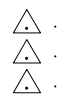


REMOVE ALL METAL SIDING, RE-CONSTRUCT AND RE-SIDE APPROX. 50 LF WALL. RECONSTRUCT SOFFIT AND GUTTER ASSEMBLY, FULL LENGTH

NOTE:
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Public Safety Building
Condition Assessment Exhibit D
Wrangell, Alaska

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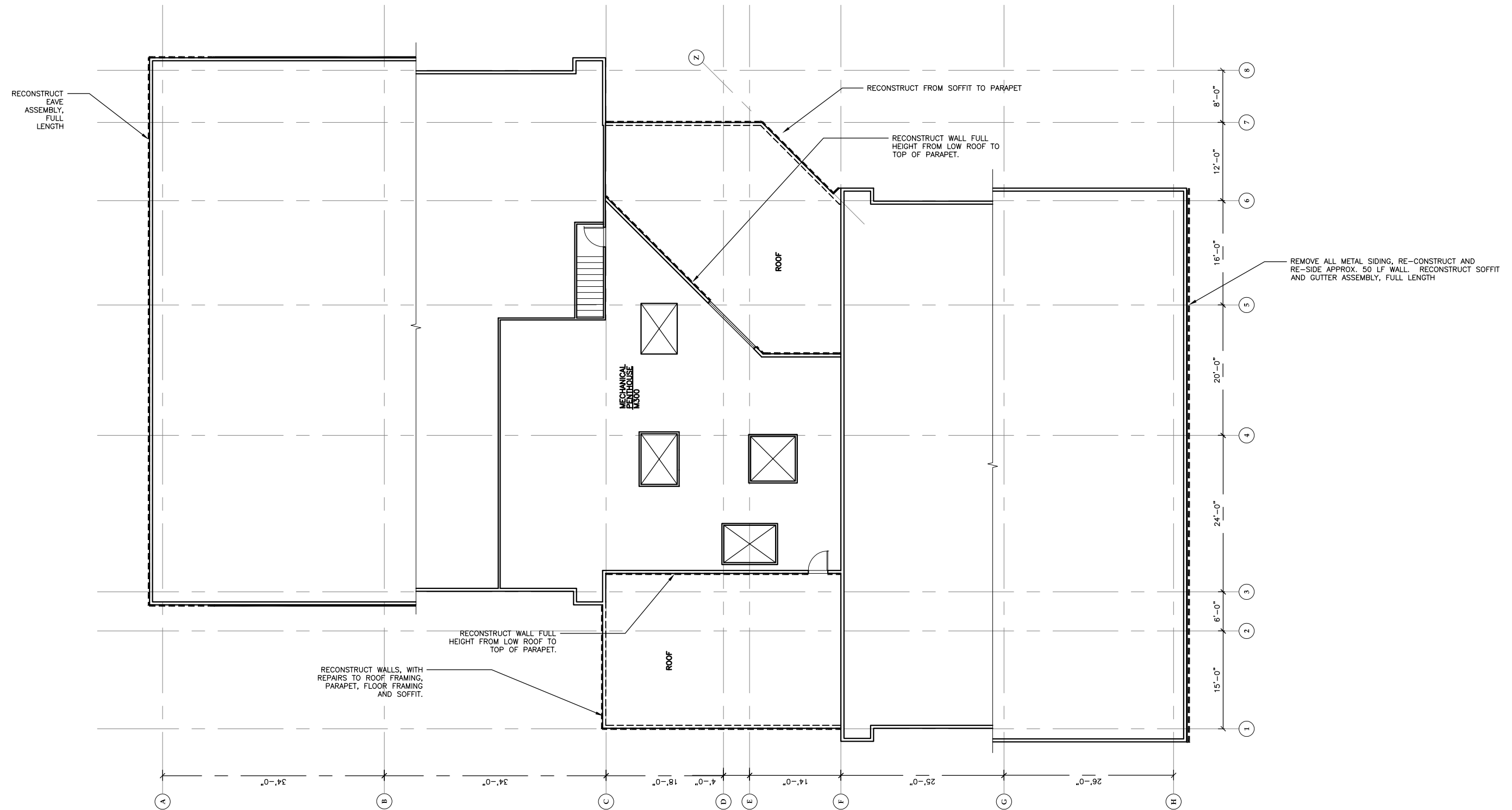


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SECOND FLOOR PLAN

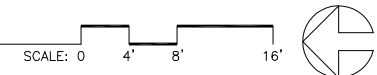
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A203

RE-CLAD WHOLE BUILDING, REPAIRING ALL DETERIORATED FRAMING SHEATHING AND THERMAL BARRIER.



1 MECHANICAL LEVEL FLOOR PLAN



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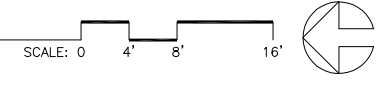
**City and Borough of Wrangell
 Public Safety Building
 Condition Assessment Exhibit D**
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RE-CLAD WHOLE BUILDING, REPAIRING ALL DETERIORATED FRAMING SHEATHING AND THERMAL BARRIER.



1 ROOF PLAN



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ROOF PLAN
DATE: 10/15/2020
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A205

Structural Condition Summary

The structural framing ranged from poor to good condition. The structure under the two gable roofs was generally in good condition, while the structure under the flat roofs was in poor condition due to water damage resulting in rot. The structure under the west low flat roof is compromised and is a life safety issue. This area shall be vacated until the floor and roof can be shored. It appears that poor roofing installation at the parapets at the edges of the low flat roofs was the primary cause of water damage. The south exterior wall also in poor condition. It is not clear the cause of the water damage at this wall, but it may be due to poor installation of siding in 2004.

The original structural drawings detail the seismic load resisting system (SLRS) which consists of timber shear walls and diaphragms. A lateral load analysis was not performed on the structure, but based upon inspection of the original structural drawings there do not appear to be any obvious design flaws in the SLRS.

Structural Observations

The following is a list of observations made while onsite. The locations of each observation are referenced in the Structural Exhibit.

Basement

1. Observed Level 1 structural steel floor framing from an existing opening in the ceiling. The fireproofing on the steel beams and steel floor decking all appeared to be intact and there were no signs of water damage or corrosion of the steel.

Level 1

1. A hole was cut in the siding and gypsum sheathing at the base of the wall. The gypsum sheathing was dry. The wall sheathing was in great condition and did not show any signs of water damage.
2. Observed siding and gypsum sheathing (about 3'-0" above base of wall) were fairly dry and solid.
3. A hole was cut in the siding and gypsum sheathing at the base of the wall. The gypsum sheathing was dry. The wall sheathing was in good condition and did not show any signs of water damage.

4. Observed wall framing at base of wall. Wall GWB had previously been removed due to a broken sprinkler line. The wall sheathing and wall studs within 12-18" of the base of the wall were dry rotted and there was carpenter ant damage.
5. Existing wall core infill was removed. The plywood was slightly damp, but not deteriorated.

Level 2

1. Two holes were cut in the siding, gypsum sheathing, and wall sheathing at the Level 2 floor. The wall sheathing was dry rotted. The wall studs, bottom plate, and floor sheathing were slightly soft. The glu-lam beams were slightly moist, but did not appear to be deteriorated. The end of the truss top chords (on top of the glu-lam beams) were solid and in good condition.
2. Observed elevated Level 2 floor framing through hole in soffit. Floor sheathing was soft and had water stains and mold on the underside of it. The glu-lam beams (interior face) and floor joists did not exhibit any signs of deterioration.
3. Attempted to view roof glu-lam beam, but ductwork was in the way. Wall sheathing appeared fairly dry.
4. Observed partition wall framing where there is an ongoing roof leak. There were water stains on the wall GWB. There was no signs of deterioration of the partition wall top plate.
5. Wall and roof framing was observed through existing holes in the ceiling and wall GWB. Ceiling and wall demo was performed due to a broken sprinkler line. Roof joists were dry. There was some surface mold on one wall stud.
6. Observed wall framing where GWB had previously been removed. Wall sheathing, wall studs, and wall bottom plate had significant dry rot and carpenter ants were present.
7. A hole was cut in the soffit below Level 2. Observed Level 2 floor and soffit framing. The soffit framing and sheathing were dry rotted. The glu-lam beam (interior face) and floor joists did not exhibit any signs of deterioration. There were water stains on the floor sheathing, but it did not appear to be compromised.
8. A hole was cut in the siding, gypsum sheathing, and wall sheathing at the Level 2 floor. The wall sheathing, floor sheathing, and wall bottom plate were very wet and punky. The end of a truss top chord (on top of the glu-lam beam) was soft. A

screwdriver could be inserted into the truss top chord, glu-lam beam, floor sheathing, and wall bottom plate at least 1" without much effort.

9. Siding was removed at Level 2 floor. Siding was dry and the tar paper was still intact. The gypsum sheathing was solid and dry.

Mechanical Penthouse/Attic/Low Roofs

1. A hole was cut in the siding, gypsum sheathing, and wall sheathing at the roof level. The wall sheathing, roof sheathing, and parapet bottom plate were rotten. The glu-lam beam was soft and punky. A screwdriver could be inserted into the glu-lam beam over an 1" without much effort.
2. Roof parapet cap was removed. Parapet top plate, studs, and bottom plate were completely rotted through.
3. Ballast and insulation were removed, and roofing was peeled back. Insulation was wet, but not waterlogged. Wall and roof sheathing were damp and soft.
4. Observed wall framing at base of wall through an existing hole in the GWB. Bottom plate and studs did not show any signs of deterioration. Wall sheathing was soft.
5. A tarp had previously been installed on the wall below the parapet in item 31. Maintenance was not sure when the tarp was installed or for what reason the tarp was installed.
6. Woodpeckers had made two holes in the wall, including one that went all the way through the wall cavity.
7. The parapet top plate was very flexible when pushed on. The parapet plywood on the roof side was extremely soft and gave way when pushed on.
8. Siding and wall sheathing were removed at a previous opening in the wall at the roof level. The wall sheathing was rotten. The floor sheathing and glu-lam beam were very wet and completely rotten. A screwdriver could be inserted into the sheathing all the way to the handle.
9. Siding was removed at the base of the wall. Gypsum sheathing and plywood were damp.

10. Siding was removed at midheight of the wall. Gypsum sheathing and plywood were damp.
11. A hole was cut in the GWB ceiling to view the built-up structural steel top chord of the roof truss in observation 29. The WF beam top chord did not display any signs of deterioration or overstress. The beveled timber plates on top of top chord did not have a consistent top elevation, which could result in differential deflection of the roof sheathing.
12. A hole was cut in the GWB ceiling to view the built-up structural steel top chord of the roof truss in observation 29. The WF beam top chord did not display any signs of deterioration or overstress.

High Roofs

1. A metal panel was removed from the concealed gutter enclosure. All the gutter framing visible was dry and there were no signs of water damage. The main wall sheathing was also dry. The main wall studs were not visible.

The gutter assembly was visibly deflecting to the north. Straps that had been installed to restrain the gutter were damaged in numerous locations. Lag screws anchoring the straps at the roof had pulled out of the roof and the straps were bent from sliding snow and ice.

Two existing wall core infills below the gutter assembly were removed. In both locations, the gypsum sheathing and plywood were slightly damp, but not deteriorated.

2. The metal roof appears to be deflecting considerably near Grid B (at built-up structural steel roof truss). The deflection has resulted in the metal roofing vertical ribs to buckle.
3. Maintenance has reported a recent leak in the roof just south of the existing drain. The roof was observed to be very bouncy. The roof framing (glu-lam beam, joists, and roof sheathing) in this area was observed in three places by removing the ceiling below. There were water stains and some mold on the joists and sheathing, but there was no deterioration.
4. Roof parapet cap was removed. A moisture meter was used to measure 40% moisture in the top plate of the parapet.

Structural Recommendations

1. Demolish and replace existing exterior walls, parapets, Level 2 floor framing, and roof framing at west low flat roof (between Grids 1 and 3 and between Grids C and F). Existing glu-lam beams along Grids 3 and F can remain. Existing tube steel columns along Grids 1, 3, and F can also remain.
2. Demolish and replace existing glu-lam floor beams, glu-lam roof beams, exterior wall, and parapets at the east edge of the east low flat roof (along Grids 7 and Z and between Grids C and F). Existing Level 2 floor and roof joists west of these beams will need to be shored during this work. Existing tube steel columns at Grids 6-F and 7-Z can remain.
3. Inspect existing Level 2 floor joists and floor sheathing under the east low flat roof (between Grids 4.5 and 7 and between Grids C and F) for moisture damage and replace or treat as required. We recommend budgeting the replacement of the floor sheathing within 24" of the exterior wall.
4. Demolish and replace existing roof sheathing at the high flat roof and the east low flat roof (between Grids 3 and 7 and between Grids C and F). Existing roof joists shall be inspected for moisture damage and replaced or treated as required.
5. Demolish and replace existing exterior walls and parapets between the lower and upper flat roofs (walls between Grids C and F and along Grids 3.2, Grid 4.6, and diagonal wall from Grids E.2-4.6 to Grids C-6). Existing roof joists north of the diagonal wall will need to be shored during this work.
6. Demolish and replace existing exterior wall sheathing at exterior walls between gable roofs and flat roofs (along Grids C and F). Existing wall studs shall be inspected for moisture damage and replaced or treated as required.
7. Inspect existing exterior wall along Grid H for moisture damage. Wall sheathing and studs shall be replaced where rotten. We recommend budgeting the replacement of all of the exterior wall sheathing within 24" of the base of the wall. We also recommend budgeting for all the wall studs to be sintered with a 12' stud and then have the bottom 24" removed.
8. Inspect existing exterior wall sheathing and exterior wall studs at the remaining exterior walls for moisture damage and replace or treat as required. We recommend budgeting the replacement of 50% of the exterior wall sheathing and 10% of the exterior wall studs at these walls.

9. Demolish and replace framing at the concealed gutter system at the north side of the building. The new framing shall enclose the existing gutter depression. New gutters shall be attached to the face of soffit framing.

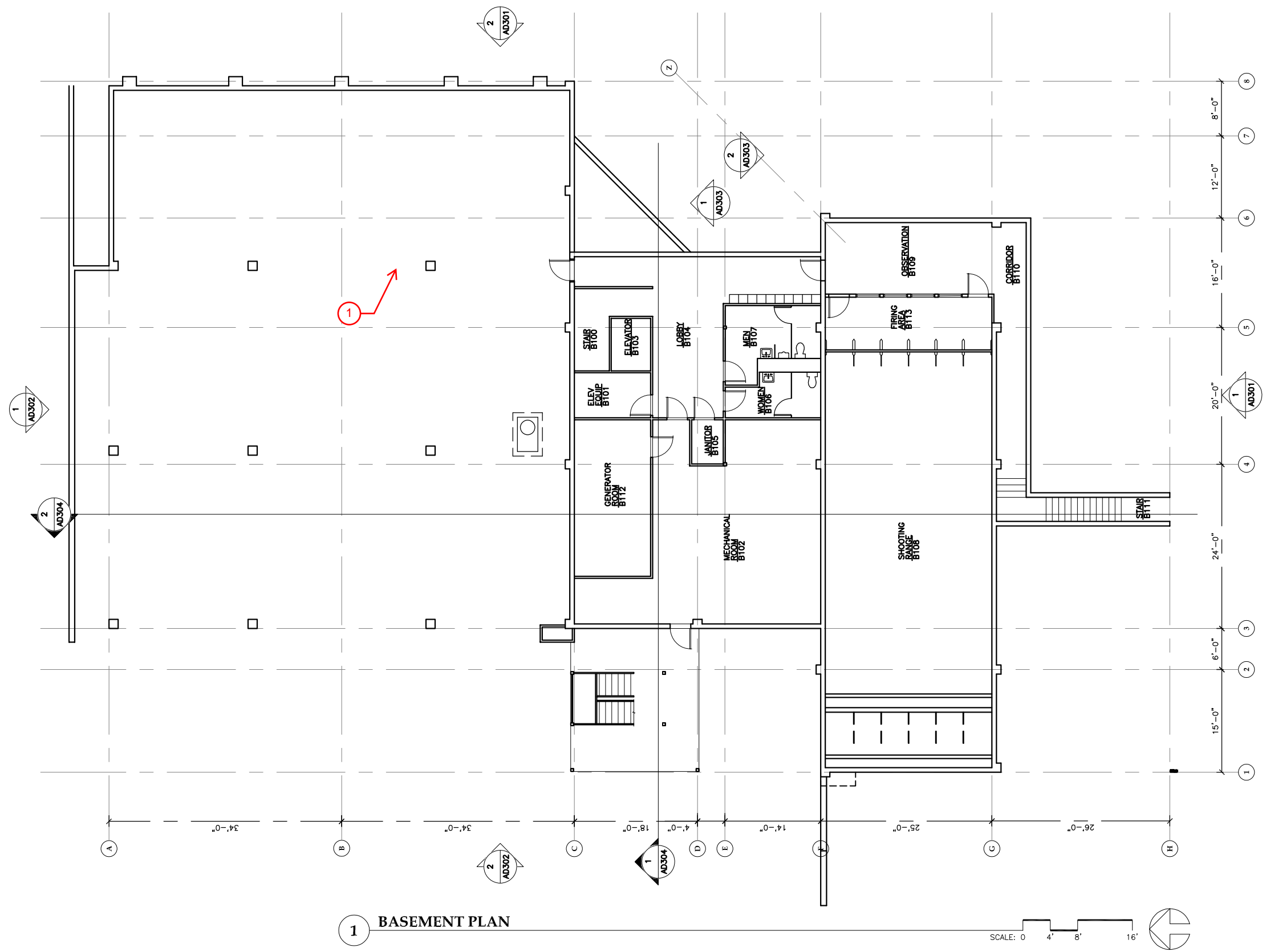
10. Inspect existing roof sheathing at the gable roofs for moisture damage and replace or treat as required. We recommend budgeting the replacement of 20% of the roof sheathing at these roofs.

11. Paint the exterior one-story structural steel framed stairs at the west side of the building with exterior paint. Steel surface shall be prepped per the paint manufacturers recommendations.

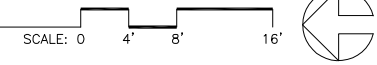
12. A seismic upgrade of the structure is not required by the International Existing Building Code unless modifications are made to the occupancy of the structure, the seismic weight of the structure, or the existing seismic load resisting system (SLRS). Modifications to the seismic weight of the structure would include replacing mechanical/electrical equipment with new equipment weighing significantly more or replacing roofing/siding with a product that is significantly heavier. Modifications to the SLRS would include removing shear walls or diaphragms or cutting large openings in shear walls or diaphragms.

These modifications are not currently part of the scope of the renovation. Therefore, a seismic upgrade is not required and is not part of the scope of work of the renovation. If any of these modifications become part of the renovation, a seismic upgrade may become necessary. There are minor inexpensive upgrades to the SLRS that would be prudent to include in the renovation. These upgrades include verifying shear wall/diaphragm nailing and add nailing where required (when siding and roofing is replaced) and adding hold-downs in shear walls without substantial dead load.

13. Once the renovation is complete, the life expectancy of the structural framing (neglecting the seismic system) will be that of a new structure which is typically designed for a minimum 50-year lifespan. This assumes the exterior envelope is properly maintained. If the exterior envelope is not properly maintained, the life expectancy of the structural framing could be less than 50 years.



1 BASEMENT PLAN



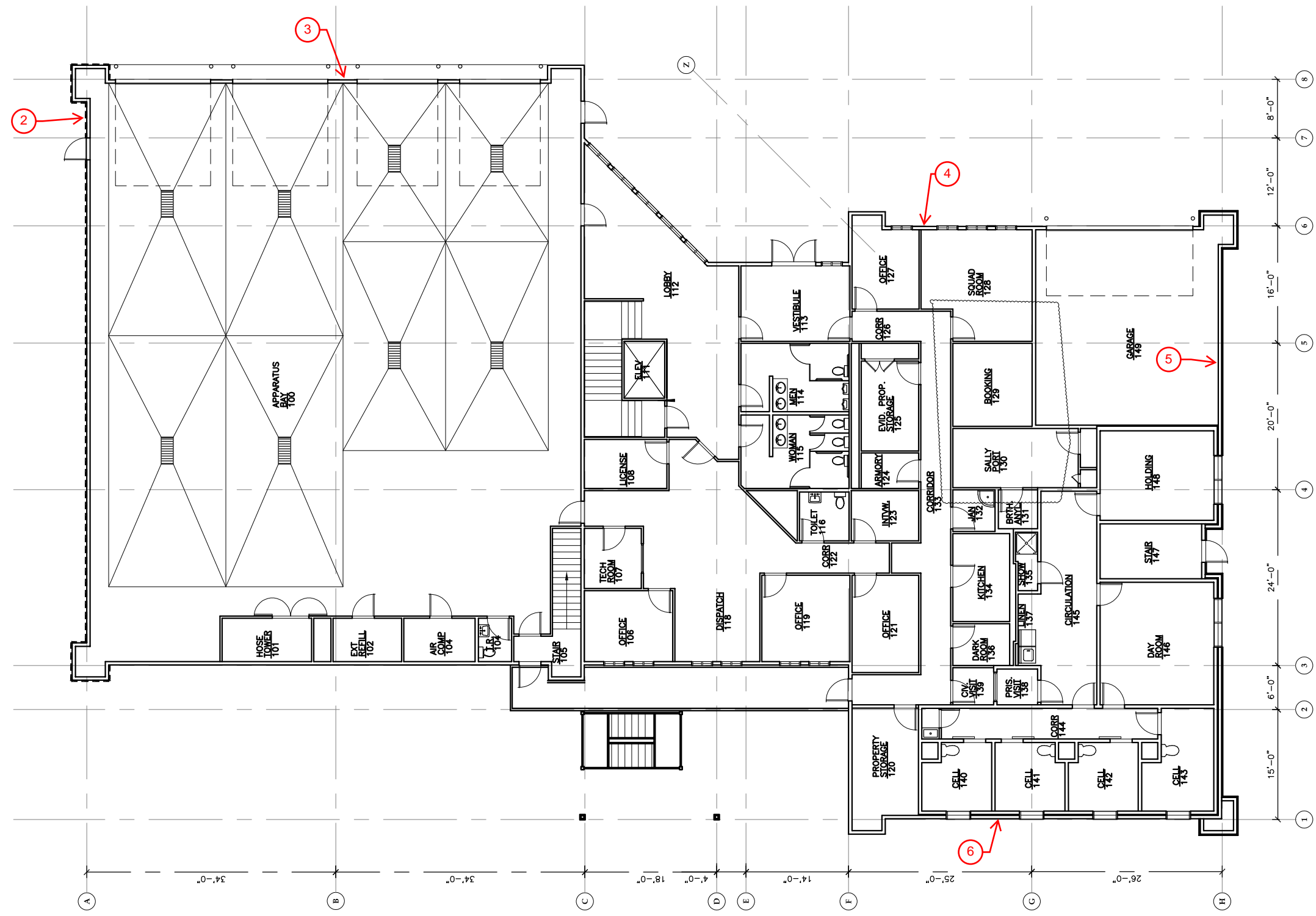
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SHEET TITLE
BASEMENT
PLAN
DATE: 9/16/2020
FILE: XXX

A201

City and Borough of Wrangell
 Public Safety Building

Wrangell, Alaska



1 FIRST FLOOR PLAN

SCALE: 0 4' 8' 16'

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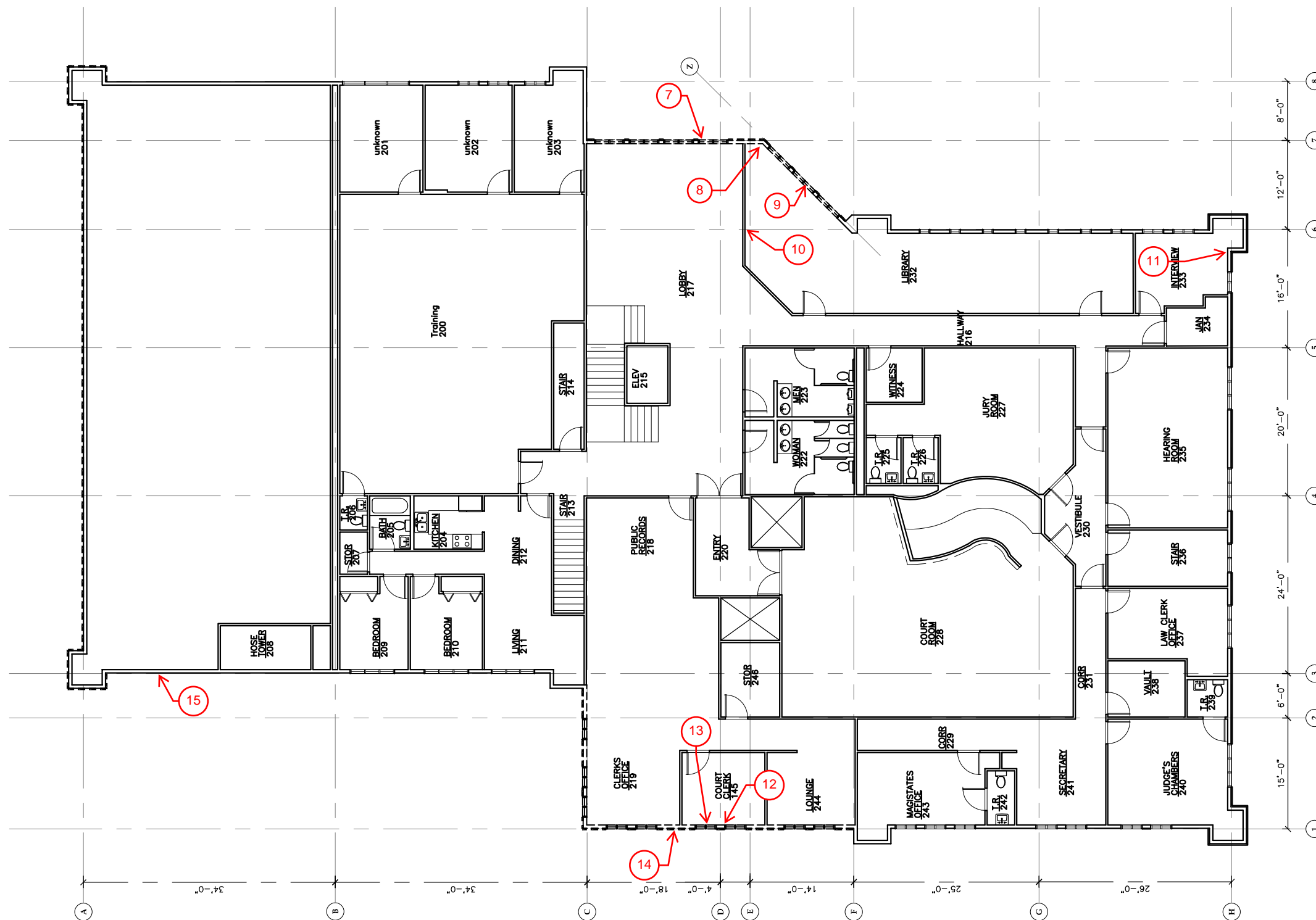
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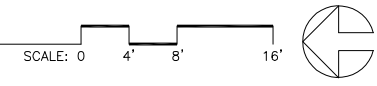
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A202



1 SECOND FLOOR PLAN



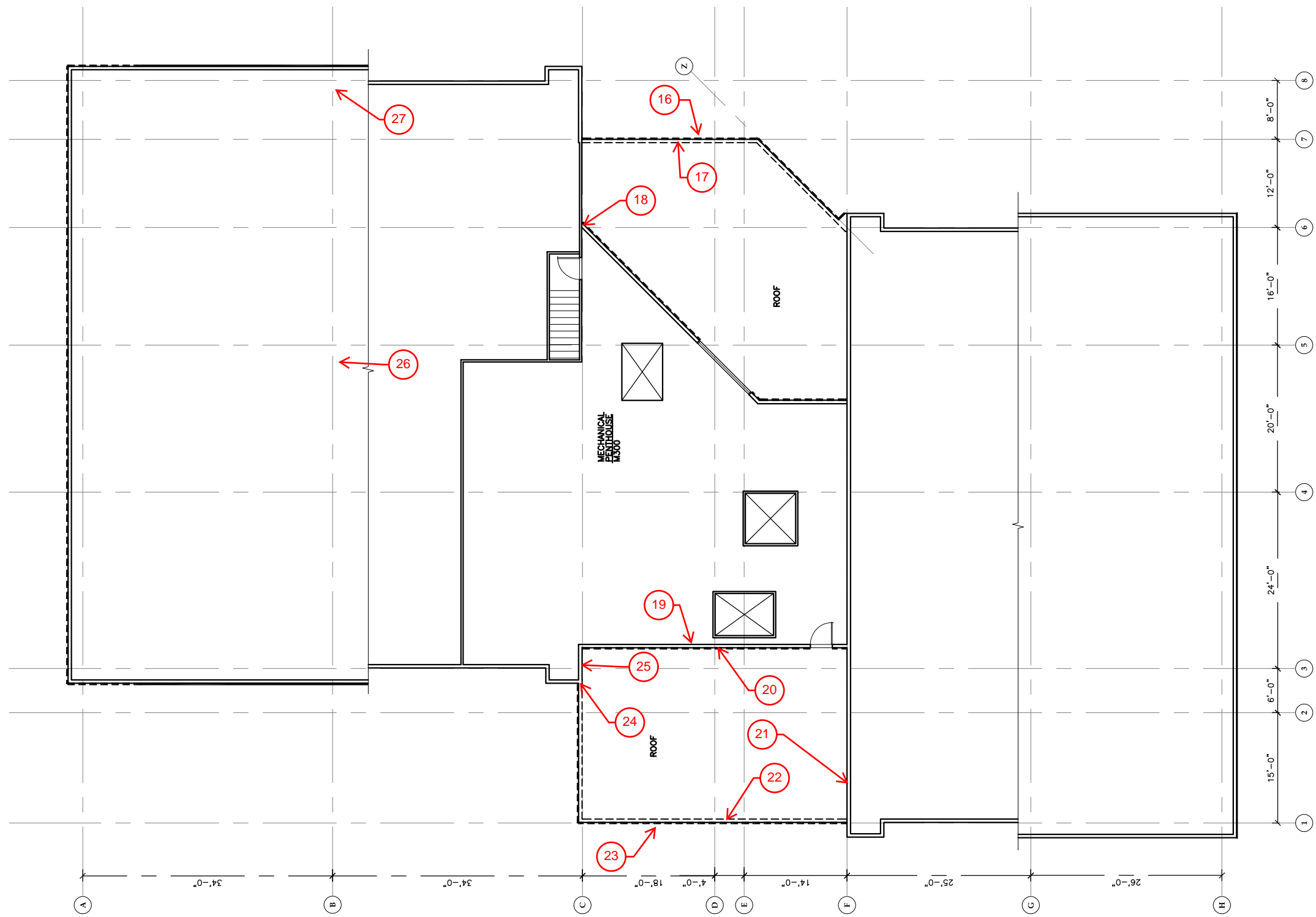
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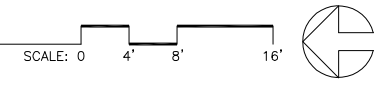
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DATE: 9/16/2020
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A203



1 MECHANICAL LEVEL FLOOR PLAN



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**City and Borough of Wrangell
 Public Safety Building**

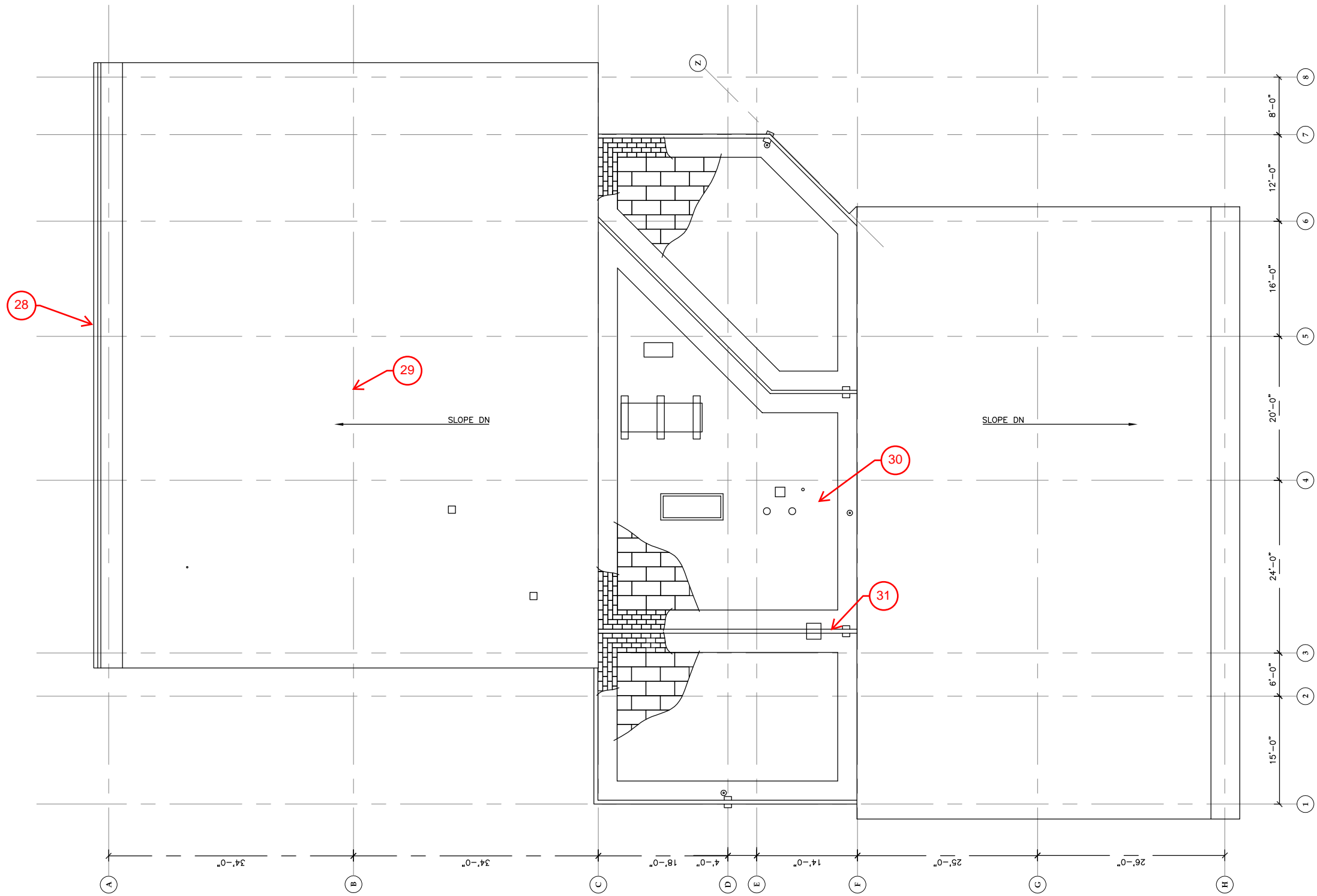
Wrangell, Alaska

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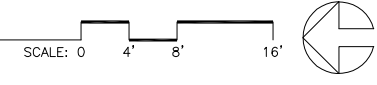
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MECHANICAL LEVEL FLOOR PLAN

DATE: 9/16/2020
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A204



1 ROOF PLAN



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City and Borough of Wrangell
 Public Safety Building

Wrangell, Alaska

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ROOF PLAN
DATE: 9/16/2020
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A205



Photo 5a – Deterioration at base of exterior wall



Photo 5b – Dry rot and carpenter ant damage at base of exterior wall



Photo 7a – Dry rot in exterior wall at Level 2 floor



Photo 7b – Dry rot in exterior wall at Level 2 floor



Photo 7c – Dry rot in exterior wall at Level 2 floor



Photo 8 – Water stains on floor sheathing and glu-lam beams at exterior wall at Level 2 floor



Photo 12a – Dry rot and carpenter ant damage at base of exterior wall



Photo 12b – Dry rot and carpenter ant damage at base of exterior wall



Photo 12c – Deterioration at window in exterior wall



Photo 13 – Deterioration at exterior soffit at Level 2



Photo 14a – Rot in exterior wall at Level 2 floor



Photo 14b – Rot in exterior wall at Level 2 floor



Photo 14c – Rot in exterior wall at Level 2 floor



Photo 14d – Rot in exterior wall at Level 2 floor



Photo 16 – Dry rot in exterior wall at roof



Photo 17 – Rot in exterior wall parapet



Photo 18 – Damp wall sheathing and roof plywood



Photo 21 – Woodpecker holes in exterior wall



Photo 23a – Rot in exterior wall at roof



Photo 23b – Rot in exterior wall at roof



Photo 28 – Deflection of gutter and broken straps



Photo 31 – Excessive moisture in exterior wall parapet

Mechanical Condition Summary

Several of the mechanical systems within the facility are original and are operating as designed, with the exception of the building controls, but are nearing the end of their useful life expectancy. Mechanical systems observed include plumbing, fuel oil, fire protection, heating, cooling, ventilation, and HVAC system controls.

The mechanical systems throughout the building are interconnected. Temporary heating and ventilation may be necessary to incorporate phased construction in order to keep portions of the building operational while work is being performed.

Equipment throughout the building does not appear to be seismically restrained. Mechanical equipment and systems will need to be analyzed to determine appropriate seismic restraints to be provided for this essential facility.

Life Expectancy: The Life Expectancy numbers in this report are based on ASHRAE guidelines, industry standards (RS Means) and AMC Engineer's experience with these types of systems and equipment. The life expectancies noted are nominal numbers and equipment, if properly maintained, can be expected to continue to function beyond its nominal life expectancy, although it may no longer function as originally intended and may require excessive or constant maintenance to maintain functionality. Numbers below are equipment items from the ASHRAE Service Life Estimates guidelines:

Equipment Item	Median Years
Boilers Steel (Fire-Tube)	25
Boiler Burners	21
Unit Heater (Hot Water)	20
Diffusers, Grilles, and Registers	27
Ductwork	40
Fans (Centrifugal)	25
Fans (Axial)	20
Fans (Roof-Mounted)	20
Pumps (Pipe Mounted)	10
Glycol Heating Solution	20
Piping	40

Existing Condition: The following definitions are used in the narrative for describing the conditions of the individual elements and systems assessed. Additional notes may be offered to explain various characteristics observed during the inspection.

EXCELLENT Condition	Near New Condition. Not requiring capital expenditures at this time.
GOOD Condition	Reasonable Condition. Not requiring capital expenditures or replacement at this time.
FAIR Condition:	Deteriorating Condition. Nearing the end of its useful life or requires immediate maintenance. Likely to deteriorate to Poor Condition if not addressed.
POOR Condition:	Observable deterioration and/or operational problems. Has reached the end of its useful life and requires immediate replacement or maintenance.
UNKNOWN condition	Unable to observe condition due to lack of accessibility.

Suitability for Existing Use: This report includes statements on whether equipment is suitable for its current existing use. This assessment is based on limited observation and is intended to convey whether the equipment, as installed, is in at least Fair Condition and is fulfilling its original intended function. For example, a light fixture is suitable for its intended use if it is operable and provides light. There may be other issues such as are lighting levels appropriate in the area the fixture is lighting that are not addressed by this assessment.

Compliant with Existing Standards: The report indicates whether equipment is compliant with existing standards. This means that it appears to be operating as designed and appears to be in compliance with current codes and standards. Equipment that is suitable for its existing use but does not meet the expected standard for performance is considered noncompliant. Note that these assessments are based on limited investigations and there may non-compliant items that were not observed or reported.

Observations:

Plumbing: The facility receives its domestic cold water supply from the city's potable water distribution system. The 3-inch domestic water main contains a pressure reducing valve and the pressure read by a gauge downstream of the valve at the time of the site visit was approximately 80 PSI. No issues were reported with the building's domestic cold water service and the available pressure and water main size appears adequate to provide domestic, potable, water for this building.

Domestic hot water is generated and stored in a single 116-gallon Rheem electric water heater installed in 2010. The water heater appears in good condition, but may need to be replaced in the next 5-10 years based on expected useful life on an electric water heater. The domestic hot

water system has no central tempering valve, point-of-use tempering valves, or thermometer to determine distributed water temperature to the building. A single domestic water recirculation pump returns hot water back to the water heater.

Domestic wastewater from fixtures flows by gravity to below the basement slab on grade to the city's central wastewater drainage system. An interceptor pit is installed in the basement parking garage. No issues with the building's sanitary waste drainage were reported during the site visit.

Rain water is collected by roof drains on the central, flat roof area and collected below the basement level slab and routed to the city's storm water collection system. Gutters collect storm water on the sloped roofs and discharge to the city's storm water collection system below grade. The flat roof is a built-up roof system with pavers with significant moss and vegetation growth. Roof drain bowls uncovered while on site were dirty and filled with moss and vegetation. Roof drainage overflow is accomplished through wall scuppers.

Plumbing fixtures throughout the facility are generally commercial grade with penal fixtures in the corrections area holding cells. The bubblers on two of the penal fixtures were inoperable during the site visit. The building plumbing fixtures show a significant amount of wear including chrome pitting on flush valves. However, the fixtures were still operational except for the penal fixtures noted.

Fuel Oil: The facility is supplied fuel oil by an exterior below ground fuel oil storage tank located on the west side of the building near the basement level Boiler Room. The underground storage tank has a sight gauge fuel level indicator located in the basement Boiler Room, but was reported as being faulty and unreliable.

Fuel oil is routed underground to an interior day tank serving the generator and the fuel-oil fired boiler. Fuel oil overflow from the day tank and return from the boiler is routed back to the underground fuel oil storage tank via gravity. |

ADEC records show the original 1984 4,000 gallon underground heating fuel oil tank is a non regulated cathodically protected steel tank with galvanized steel pipes. The tank and piping do not have secondary containment. No reports of a fuel oil spill were found on the ADEC site. The tank is past its expected life and does not meet current standards.

Fire Protection: The facility is served by a single wet pipe riser and a single dry pipe riser located in the basement Boiler Room. The wet pipe system is broken into five zones with dedicated flow switches and serves a majority of the building. The dry pipe system serves the canopies, second floor roof, and parking garage. The dry pipe system is served by the same air compressor serving the building controls. The system had undergone service January 2020 and had received a new dry valve in January 2019 per service tags located on the risers. The only issues noted on the 2020 fire sprinkler report were some sprinkler heads with visible signs corrosion and some pipes/fittings with leaks.

The sprinkler system appears to be original to the building and will need to be analyzed by an engineer or licensed fire protection contractor to verify it meets current life safety codes based on current building occupancy. Original sprinkler shop drawings or hydraulic calculations are not available.

Hydronic Heating: No Hydronic testing, adjusting, and balancing, TAB, reports were available to document hydronic system performance.

Heat generation is provided by a fuel-oil fired Weil McLain 688 hydronic boiler with Power Flame burner that was ordered in 2015 and installed in 2019. An electric Precision PCW2 boiler was installed in 2010. The boilers appear to be in good condition and should last another 20 years based on expected useful life. Each boiler has a dedicated primary loop circulation pump to maintain flow through the boiler.

Heat distribution is accomplished in a primary-secondary loop configuration. The secondary loop has two sets of constant volume, primary/standby circulation pumps to distribute the hydronic heating fluid through the building. One set of pumps (P-2 & P-3) distributes heating fluid to the ventilation unit heating and pre-heating coils. The other set of pumps (P-4 & P-5) distributes heating fluid to the building's terminal heating units. The building circulation pumps appear to be original to the 1985 expansion project, but are operating as originally designed. The pumps will likely need to be replaced in the next 5-10 years based on expected useful life and are being run at constant volume, which can lead to increased energy usage.

The loop to the terminal heating units goes through a three-way valve that allows the fluid delivered to the building to be tempered. The building utilizes perimeter finned tube for exterior spaces and unit heaters for mechanical spaces, garage, and apparatus bay.

Several areas throughout the building, mostly at terminal heating units, were noisy due to air within the hydronic heating piping. This indicates that, despite having a coalescing air separator in the boiler room, the system is experiencing issues with air entrainment.

Cooling: Space comfort cooling is provided by the air distribution systems. The ventilation unit serving the court area (SF-2) has a direct expansion cooling coil installed to provide mechanical cooling. The other two ventilation units (SF-1 and SF-3) rely on the ambient outdoor air temperature to provide cooling to the building.

Telecom and Electrical Room Cooling: There are currently no dedicated telecom rooms located within the building. Telecom racks located in the building are located in spaces utilized for other purposes like storage and do not have enough heat producing equipment to require a dedicated split system air-conditioning unit.

Ventilation: No Ventilation testing, adjusting, and balancing, TAB, reports were available to document the current supply and return air volumes.

Ventilation to facility levels 1 and 2 are provided by three central, constant volume supply fan units located in the level 3 mechanical room. The units include outside air preheat coils, filters, and hydronic heating coils. The supply fans are Pace units that were installed during the 1985 expansion. The air handlers utilize a hot deck/cold deck system to supply tempered air to individual building zones. The fans appear to be operating as designed and no issues were reported by maintenance personnel, however, these fans are nearing the end of their expected useful life and may need to be replaced in the next 5-10 years.

Three return fans, matched to each supply fan, provide ducted return air from the various areas of the building back to the fan room to either be recirculated or relieved to the exterior of the building. The return fans are Pace units that appear to have been installed during the 1985 expansion. The fans appear to be operating as designed, but are nearing the end of their expected useful life and may need to be replaced in the next 5-10 years.

General building exhaust is provided by multiple exhaust fans that discharge through a wall louver or roof hoods. The exhaust fans are Pace units that appear to have been installed during the

1985 expansion. The fans appear to be operating as designed, but are nearing the end of their expected useful life and may need to be replaced in the next 5-10 years.

The basement level, which consists primarily of the shooting range, is served by a dedicated supply and return fan located in the basement boiler room. The shooting range unit is operated by a manual wall switch located in the firing range. This unit and ventilation system appears to be original to the building construction to serve the firing range. Code requirements serving firing ranges have changed considerably since the original building construction and needs to be analyzed to verify it meets current codes.

The ducting and duct insulation viewed while on site appeared to be in good condition. The ductwork looks to be original to the building construction and 1985 expansion and has likely not been cleaned. It is recommended the ductwork throughout the building be cleaned internally to remove dust, debris, and any mold or mold spores.

Humidity Control: The building has no active humidification or dehumidification equipment. Maintenance personnel indicated the building frequently experiences issues with humidity and condensation forming on interior surfaces.

Building Controls: The building mechanical systems control is accomplished primarily by a pneumatic control system which consists of a central air compressor, air drier, pneumatic control panels, pneumatic valves, and pneumatic damper operators. The pneumatic control system is currently inoperable, and several pneumatic operators have had their pneumatic tubing removed or the actuator removed from the damper linkage. The air handler hot deck/cold deck outside air and return air dampers are manually adjusted by maintenance personnel to maintain zone temperature comfort.

Perimeter finned tube elements have been retrofitted with dedicated control valves with integral space thermal bulb and user adjustable thermostat.

The central boiler system has a Honeywell direct digital control (DDC) system to control and monitor the boilers.

Summary of Current Conditions:

System	Condition Status
Domestic Water	GOOD condition, suitable for existing use, and compliant with existing standards.
Domestic Hot Water	Water Heater: GOOD condition, suitable for existing use, and compliant with existing standards. Hot water distribution system: GOOD condition, suitable for existing use, and compliant with existing standards (except as noted in "Recommendations" section).

Domestic Wastewater	GOOD condition, suitable for existing use, and compliant with existing standards.
Rain Water	Roof Drains: POOR condition and not suitable for existing use. See additional details in "Recommendations" section. Rain water distribution piping: GOOD condition, suitable for existing use, and compliant with existing standards.
Plumbing Fixtures	FAIR condition, suitable for existing use, and compliant with existing standards.
Fuel Oil	Tank: UNKNOWN condition and suitable for existing use. NOT compliant with existing standards. Piping: GOOD condition and suitable for existing use. NOT compliant with existing standards.
Fire Protection	GOOD condition and suitable for existing use. Analysis is required to verify if fire protection system is meeting existing codes per current building usage and code cycles.
Central Boilers	EXCELLENT condition, suitable for existing use, and compliant with existing standards.
Hydronic Pumps	GOOD condition, suitable for existing use, and compliant with existing standards.
Hydronic Distribution	GOOD condition, suitable for existing use, and compliant with existing standards.
Chiller	FAIR condition and suitable for existing use, and compliant with existing standards.
Building Supply Fans	FAIR condition and suitable for existing use. Analysis is required to verify if the supply air system is providing code required outside air ventilation.
Building Return Fans	FAIR condition, suitable for existing use, and compliant with existing standards.
Building Exhaust Fans	FAIR condition and suitable for existing use. Analysis is required to verify if the exhaust air system is providing code required exhaust ventilation.
Firing Range Ventilation System	FAIR condition, NOT suitable for existing use, and NOT compliant with existing standards.

Building Controls	POOR condition and NOT suitable for existing use.
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Recommendations:

Observations of mechanical conditions and deficiencies are detailed, with areas, quantities, and recommendations in the following Exhibit and in the subsequent pages:

Exhibit E Mechanical Condition Assessment – 13 Pages

Key mechanical recommendations include but are not limited to:

Plumbing:

1. **Observation/Deficiency:** Domestic hot water system does not meet current code for limiting water temperature at hand wash sinks to prevent scalding.
 - a. **Correction:** Provide a single, central tempering valve for building-wide temperature control and ASSE 1070 thermostatic mixing valves at handwash sinks (approximately 17 locations).
2. **Observation/Deficiency:** Two penal fixtures have bubblers that are non-operational.
 - a. **Correction:** Replace two penal fixtures with new.
3. **Observation/Deficiency:** Roof drains observed were filled with moss and vegetation and had broken strainers. This could lead to blocked drains and poor drainage off the flat room sections.
 - a. **Correction:** Replace roof drains with new (three roof drains total).

Fuel Oil:

1. **Observation/Deficiency:** The underground, single wall fuel oil storage tank is past its expected life and does not meet current standards.
 - a. **Correction:** Replace the underground storage tank with a nominal 1,500 gallon Type I double-wall fuel oil above ground storage tank. Provide one 3/4-inch fuel oil supply pipe routed above grade to serve the fuel oil boiler burner with appurtenances and interior “tiger loop”. Provide new 50-gallon day tank with supply and overflow return pumps to serve the generator. Provide 3/4-inch supply and 1-inch return routed above grade from the above ground storage tank to the day tank. Pipe to be welded black steel.

Fire Protection:

1. **Observation/Deficiency:** Fire sprinkler dry pipe system is served by the air compressor also providing air to the inoperable pneumatic control system. Potential future leaks in the pneumatic control system could result in the compressor unable to adequately supply the dry pipe sprinkler system.
 - a. **Correction:** Provide dedicated, UL 3/4 Hp dedicated air compressor to serve the dry pipe system.

2. **Observation/Deficiency:** The fire sprinkler system appears to be original to the building and may not meet current life-safety code requirements for the current usage and code cycle.
 - a. **Correction:** Obtain the services of a registered Architect to develop an updated life-safety plan for the current building use. Obtain the services of a certified fire protection system designer or licensed fire protection contractor to analyze the existing fire sprinkler system based on the updated life-safety plan to verify any modifications needed to the sprinkler system.

Hydronic Heating:

1. **Observation/Deficiency:** Several areas of the building are experiencing air in the hydronic system which can cause inefficient heating and premature piping failure.
 - a. **Correction:** Replace existing expansion tank in the level 3 fan room with appropriately sized diaphragm or bladder type expansion tank in the basement boiler room and refill the hydronic system to purge air.
2. **Observation/Deficiency:** The building circulation pumps (P-2 thru 5) appear to be original to the 1985 building expansion and are also operated at constant volume.
 - a. **Correction:** Replace building circulation pumps with primary/standby pumps with integral variable speed drives and provide new control valves for supply fan heating coils and building terminal heating units. Approximately 35 new control valves, two 130 GPM circulation pumps with integral variable speed drives, and two 50 GPM circulation pumps with integral variable speed drives.

Cooling: Existing ventilation units have spaces reserved for direct expansion cooling coils to be installed, however, no complaints were reported regarding the building or occupants overheating.

Telecom and Electrical Room Cooling: No observations or deficiencies requiring any corrections.

Ventilation:

1. **Observation/Deficiency:** Supply fan (SF-3) is currently providing a constant volume of 6,200 CFM (primarily recirculated) to the Apparatus Bay which equates to approximately 1.24 CFM/SF. This is a lot of air to be continuously providing for this type of space and could potentially be reduced for a majority of the year at times to save energy costs. It is also only receiving approximately 600 CFM of exhaust air, which does not meet code requirements for an enclosed parking garage.
 - a. **Correction:** Obtain the services of a registered mechanical engineer to analyze the existing space for heating and cooling loads and design a ventilation system to adequately heat, cool, and ventilate the space. Estimate 250 CFM dedicated, constant volume exhaust fan, 3,750 CFM dedicated purge exhaust fan to be operated upon high levels of carbon monoxide or nitrogen dioxide, and new 5,000 CFM variable volume ventilation unit with heating coil to provide make-up, heating, and cooling air.
2. **Observation/Deficiency:** Ductwork appears to be original the building construction and 1985 expansion and has likely never been cleaned.

- a. **Correction:** Hire the services of a duct cleaning contractor to clean the internal surfaces of the ducting throughout the building.
3. **Observation/Deficiency:** It is unclear whether the building is receiving adequate outside air for indoor air quality based on the number of occupants in the building and the lack of control over the outside air/return air control dampers.
 - a. **Correction:** Obtain the services of a registered mechanical engineer to analyze the existing ventilation systems and building occupancy and provide a recommendation for outside air volumes required. Obtain the services of a NEBB certified testing, adjusting, and balancing agency to balance the ventilation systems to the designed airflows.
4. **Observation/Deficiency:** Supply, return, and exhaust fans are nearing the end of their expected useful life and are operating at constant volume which leads to increased energy usage.
 - a. **Correction:** Replace the ventilation system supply and return fans with two variable volume air handler units (approximately 1.2 CFM/SF) and variable air volume boxes with reheat coils (approximately 15 zones) for better zone control and increased energy efficiency.
5. **Observation/Deficiency:** The firing range ventilation system appears to be original to the building construction.
 - a. **Correction:** Obtain the services of a professional mechanical engineer to analyze the firing range ventilation system and verify whether it meets current code requirements and industry standards.

Humidity Control:

1. **Observation/Deficiency:** Maintenance personnel indicated the building experiences high humidity levels which condense on interior surfaces causing water damage, mold, and degradation of equipment.
 - a. **Correction:** Provide direct expansion cooling coils to supply fans (SF-1 and SF-3) to cool incoming air below dewpoint and assist in removing moisture from the outside air.

Building Controls:

1. **Observation/Deficiency:** The building mechanical systems are primarily controlled by an inoperable pneumatic control system. Except for the boilers, the building does not have any monitoring or alarming capabilities currently functional. Mechanical system valves and dampers are manually adjusted by maintenance personnel to satisfy occupant comfort.
 - a. **Correction:** Replace existing building pneumatic controls with direct digital controls and building automation system (BAS).

General:

1. **Observation/Deficiency:** Building mechanical equipment is not seismically restrained.

- a. **Correction:** Hire the services of a professional structural engineer to design seismic restraints for the equipment throughout the essential building.

New Life Expectancy: Replacing or otherwise addressing the existing mechanical and plumbing equipment as outlined above can be expected to extend the life of the addressed systems to a life expectancy approaching (if not equally) the life expectancy of said systems as if they were installed new in a “new” building. There is one caveat to this statement - the quality of the installation and the general maintenance of said systems after they are installed have a great deal to do with the expected life of each respective system.

Electrical Condition Summary

The facility is a two-story structure with basement (Level 0) and penthouse (Level 3) fan room comprising some 34,500 square feet. The building was constructed in 1985. Electrical systems within the facility are mostly original and are functioning adequately with the exception of the fire alarm system. Ongoing maintenance is being provided with some replacement of failed equipment reported and some minor equipment added since the original construction was completed. Electrical systems observed include lighting, power distribution, telecommunications, fire alarm, and video surveillance.

Equipment throughout the building does not appear to be seismically restrained. Electrical equipment and systems will need to be analyzed to determine appropriate seismic restraints to be provided for this essential facility.

Life Expectancy: The Life Expectancy numbers in this report are based on ASHRAE guidelines, industry standards (RS Means) and AMC Engineer's experience with these types of systems and equipment. The life expectancies noted are nominal numbers and equipment, if properly maintained, can be expected to continue to function beyond its nominal life expectancy, although it may no longer function as originally intended and may require excessive or constant maintenance to maintain functionality.

The following major categories of equipment have nominal Life Expectancies as noted below:

1. Lighting Equipment: Lighting equipment typically has an expected life of 15 years.
2. Power Distribution Equipment: Power Distribution equipment and its associated conduit pathways and feeder/branch circuit wiring has a nominal life expectancy of 30 years.
3. Fire Alarm Equipment: Fire alarm equipment has a nominal life expectancy of 15 years.
4. Horizontal Telecom Distribution: Horizontal telecom distribution equipment has a nominal life expectancy of 15 years.
5. Backbone Telecom Distribution: Telecom rooms (including racks, cable support systems, patch panels, etc.) and fiber optic backbone cabling have a nominal life expectancy of 15 years. Copper backbone cabling and backbone conduit pathways and innerducts have a nominal life expectancy of 30 years.
6. Closed Circuit Television System Equipment: CCTV equipment has a nominal life expectancy of 15 years.

The above discussion regarding electrical and other specialty low voltage systems and life expectancy is easily conveniently summarized in the table below:

Equipment Item	Median Life Expectancy years)
Lighting Equipment	15
Power Distribution Equipment	30
Fire Alarm Equipment	15
Horizontal Telecom Distribution	15
Backbone Telecom Distribution	30
Closed Circuit Television System Equipment	15

Existing Condition: The following definitions are used in the narrative for describing the conditions of the individual elements and systems assessed. Additional notes may be offered to explain various characteristics observed during the inspection.

EXCELLENT Condition	Near New Condition. Not requiring capital expenditures at this time.
GOOD Condition	Reasonable Condition. Not requiring capital expenditures or replacement at this time.
FAIR Condition:	Deteriorating Condition. Nearing the end of its useful life or requires immediate maintenance. Likely to deteriorate to Poor Condition if not addressed.
POOR Condition:	Observable deterioration and/or operational problems. Has reached the end of its useful life and requires immediate replacement or maintenance.

Suitability for Existing Use: This report includes statements on whether equipment is suitable for its current existing use. This assessment is based on limited observation and is intended to

convey whether the equipment, as installed, is in at least Fair Condition and is fulfilling its original intended function. For example, a light fixture is suitable for its intended use if it is operable and provides light. There may be other issues such as are lighting levels appropriate in the area the fixture is lighting that are not addressed by this assessment.

Compliant with Existing Standards: The report indicates whether equipment is compliant with existing standards. This means that it appears to be operating as designed and appears to be in compliance with current codes and standards. Equipment that is suitable for its existing use but does not meet the expected standard for performance is considered noncompliant. Note that these assessments are based on limited investigations and there may non-compliant items that were not observed or reported.

Observations

Lighting: The building primarily utilizes linear fluorescent type fixtures with a mixture of 40W T12 and 32W T12 lamps, with compact fluorescent and incandescent down lights used in select areas. Interior space lighting is predominantly controlled by manual switches located at room entrances. Interior space lighting is predominantly controlled by low voltage (24V AC) relays which are in turn controlled by common area switches located in centralized locations. These low voltage relays (General Electric (GE) RR-7 and/or RR-9 relays) were somewhat typical for area switching during the 1980s and 1990s.

Select light fixtures appear to have had their lamps replaced with LEDs such as in the Fire Department's Apparatus Bay. Although typically not as effective as light fixtures that have been engineered from the start to function with LEDs, we estimate that some energy and maintenance savings have been realized as a result of the light fixture revisions. We estimate that approximately 10% - 15% of the light fixtures in the facility have been revised in such a manner.

Life Safety emergency lighting is provided by battery backed emergency lighting inverters. These inverters appear to date from the original building construction, although seemingly functional (and reportedly so), they should be replaced due their age and potential difficulty in obtaining parts.

Exit signs are internally illuminated type with a mixture of red and green backlit lettering and with battery back-up.

Building mounted site lighting consists of LED fixtures spaced around the perimeter of the building and recessed high pressure sodium downlights in covered exterior areas. Pole mounted site lighting consists of high intensity discharge (HID) fixtures around the parking surfaces and drive surfaces. Site lighting is controlled via a lighting contactor operated by a photocell.

The interior lighting system is in FAIR condition, is suitable for its existing use, and is compliant with existing standards. The exterior lighting system is in POOR condition, although it is suitable for its existing use, and it is compliant with existing standards.

The Life Safety emergency lighting system is in POOR condition, although suitable for its existing use, and compliant with existing standards, and should be replaced at the earliest convenience.

Although the existing interior lighting system will likely serve the building and building occupants adequately for some time, consideration should be given to a building wide light fixture

replacement with LED style light fixtures.

Power Distribution: The building is served by two (2) electrical services from two different utility transformers.

The first (secondary) electrical service is dedicated to serving the electric boiler located in the boiler room and is a 400 Amp, 480V/277V, 3 phase, 4 wire service.

The second (primary) electrical service is the actual building electrical service and is a 1,000 Amp, 208Y/120V, 3 phase, 4 wire service. The main distribution panel (MDP) for the building is a 1,000 Amp, 208Y/120 Volt, 3-phase, 4-wire switchboard with a 1,000 Amp main circuit breaker located in the MDP. The power distribution system includes branch circuit panels that are located throughout the building.

The building is backed up by a single, interior, 250KW, 208Y/120V, 3-phase, 4-wire, diesel fired engine/generator feeding a 1,000 Amp, 208Y/120 Volt, 3-phase, 4-wire automatic transfer switch (ATS) located within the building in the main electrical room on Level 0. The MDP main circuit breaker section feeds the normal power source input of the ATS. The alternate source input of the ATS is fed from the generator. In turn, the ATS feeds the distribution section of the MDP providing generator power to the entire building. The system is configured in accordance with NEC Article 702 for Optional Standby Systems for this essential facility.

The engine/generator appears to be in POOR condition. The ATS appears to be in POOR condition. Both are showing their age.

The MDP and the standby branch power distribution system appear to be relatively well maintained, but both have reached the end of their useful lives and should be replaced. Similar to the engine/generator, the MDP and the standby branch power distribution system are showing their age.

The MDP and the standby power distribution system are in FAIR condition, are suitable for their existing use, and are compliant with existing standards. The engine/generator and ATS are in POOR condition, although both are suitable for their existing uses, and are compliant with existing standards.

Telecommunications: The system is comprised of a non-uniform cabling plant with multi-port telephone/data outlets located throughout the facility. Telecom outlets appear to have been provided on as-needed basis, leading to what appears to be a haphazard (although functional) installation with no similar installation methods or parts. Cables are routed from each outlet to a local telecommunication room. The horizontal cabling terminates on rack mounted modular patch panels located in floor mounted telecommunication racks. Backbone cabling between telecom racks located in select areas is multi-mode fiber optic cabling.

There are currently no dedicated telecom rooms located within the building. Telecom racks located in the building are in spaces utilized for other purposes like storage. One such area is on Level 1 and looks to predominantly serve the Police Department. This area is in Room 125. The second area is one Level 2 and looks to predominantly serve the Court System. This area is in Room 248. Neither of these two locations are actively cooled, although neither location was observed to be overly warm.

The telecommunication system is in FAIR condition, is suitable for its existing use, although it is not compliant with most existing telecommunications standards (ANSI/TIA-568, 569, 606, and 607).

Given that the essential building serves such an important function for the City and Borough of Wrangell, we recommend installation of a premise wide telecom distribution system with at least one (1) centralized telecom room located on each floor with high bandwidth fiber optic backbone cable connecting the telecom rooms and a uniform horizontal cable plant. The telecom distribution system should be designed and installed in accordance with the latest ANSI/TIA-568, 569, 606, and 607 standards as well as in accordance with the BICSI Telecommunications Distribution Methods Manual.

Fire Alarm System: The system is comprised of a Simplex 2001 hardwired, zone based, conventional fire alarm system. Horn/strobes and strobes are located throughout the facility as generally required by the Code enforced at the time of construction. Smoke detectors are generally provided where required by Code and are generally provided in all rooms, spaces, corridors, and hallways comprising a comprehensive smoke detection system. There are a few locations where they have not been provided and where they are required by Code. These locations are:

1. Sleeping areas in the Fire Department EMT residence area.
2. Above the fire alarm control panel.

Notification appliances are generally provided where required by the Code enforced at the time of construction, although coverage is lacking per current Codes and the American with Disability Act Accessibility Guidelines (ADAAG) requirements.

Recent fire alarm system inspection reports (2017 test report) also indicate that some aspects of the existing fire alarm system are no longer functional. In addition, the existing fire alarm system is 30-35 years old making maintenance problematic as parts become more difficult to obtain. Finally, there have been reported issues with the fire alarm system. These reported issues with the existing fire alarm system are as follows:

1. Failure of fire alarm system backup batteries.
2. Trouble not reported properly when battery removed.
3. Ground fault indicator LED non-functional on lamp test.
4. System failed to operate on battery power.
5. All detectors need sensitivity test as they were slow to respond to smoke.
6. All heat detectors are 20 years beyond their useful life and need replacement.

The fire alarm system no longer meets Code requirements and is in POOR condition, is NOT suitable for its existing use, is NOT compliant with existing standards, and should be replaced at the earliest convenience.

Access Control System: The building does not utilize an electronic access control system. Doors requiring specific personnel access and limiting access to others is done with battery powered cipher locks.

Video Surveillance: The system is an IP based video surveillance system. CCTV cameras have been provided in select areas of the building. Anecdotal reports by those who maintain, operate, and administer the system indicates that the system is operating well and is well

maintained.

The video surveillance system is in GOOD condition, is suitable for its existing use, and is compliant with existing standards.

Recommendations

Observations of electrical conditions and deficiencies are detailed, with areas, quantities, and recommendations in the following Exhibit and in the subsequent pages:

Exhibit F Electrical Condition Assessment – 13 pages

Key Electrical recommendations include but are not limited to:

Lighting:

1. **Observation/Deficiency:** Emergency lighting is provided by vintage emergency lighting inverters likely from the original building construction whose proper operation is suspect.
 - a. **Correction:** Replace the three 1,200 VA emergency lighting inverters with new emergency lighting inverters that are UL Listed for the purpose. For the purposes of this report, assume replacement of the three (3) existing 1,200 VA inverters in a “like for like” exchange.
2. **Observation/Deficiency:** Emergency lighting not provided at building exits.
 - a. **Correction:** Re-wire some of the exterior lights and connect them to the nearest available emergency lighting inverter circuit.
3. **Observation/Deficiency:** Fan room general purpose lighting is provided by light fixtures utilizing 40W, T12 fluorescent tubes.
 - a. **Correction:** Replace the fan room lighting with nominal 1-foot x 4-foot LED fixtures.
4. **Observation/Deficiency:** Jail cell general purpose lighting is provided by penal style, surface mount light fixtures utilizing 40W, T12 fluorescent tubes. Many of these fixture’s on/off switches were inoperative and/or faulty. Several of the light fixtures themselves appeared not to function.
 - a. **Correction:** Replace jail cell general purpose light fixtures with penal style, surface wall mount LED fixtures.
5. **Observation/Deficiency:** Wiring devices such as light switches appear to date from the original construction. The devices are past their useful life and can be expected to fail at any time.
 - a. **Correction:** Replace wiring devices such as light switches with new devices in a “like for like” exchange.

Power:

1. **Observation/Deficiency:** The electrical distribution system and related equipment in this facility are well beyond their RS Means listed useful lives, although they appear to be in fair condition. Due to their age and condition, these items may be expected to fail at any time and be difficult to obtain replacement parts for. This deficiency includes the building's 1,000 Amp Main Distribution Panel (MDP), twelve (12) electrical branch circuit panels and all associated feeders.

- a. **Correction:** Replace electrical items and systems that have exceeded their remaining useful life with new, generally of similar size and/or type, including: Main Distribution Panel, one automatic transfer switch, and twelve (12) electrical branch circuit panels and all associated feeders.
2. **Observation/Deficiency:** The backup generator distribution system and related equipment in this facility are well beyond their RS Means listed useful lives and are in poor condition. Due to their age and condition, these items may be expected to fail at any time and be difficult to obtain replacement parts for. This deficiency includes the building's interior backup generator, one automatic transfer switch, and all associated feeders.
 - a. **Correction:** Replace electrical items and systems that have exceeded their remaining useful life with new, generally of similar size and/or type, including: one (1) backup generator, one automatic transfer switch, and all associated feeders.
3. **Observation/Deficiency:** Building electrical panels are not labeled for arc flash hazard as required by Code. NFPA 70 (NEC) 110.16 & NFPA 70E.
 - a. **Correction:** Perform a short circuit analysis and arc flash hazard study and label electrical panels for their respective arc flash hazard present.
4. **Observation/Deficiency:** No exterior fused service disconnect has been provided for either of the two electrical services.
 - a. **Correction:** Provide an exterior fused service disconnect for each of the two electrical services. Provide signage for exterior service disconnects in accordance with the NEC.
5. **Observation/Deficiency:** No signage at service entrance identifying location of stand-by power source.
 - a. **Correction:** Provide signage at service entrance identifying location of stand-by power source in accordance with the NEC.
6. **Observation/Deficiency:** Wiring devices such as receptacles appear to date from the original construction. The devices are past their useful life and can be expected to fail at any time.
 - a. **Correction:** Replace wiring devices such as receptacles with new devices in a "like for like" exchange.

Special Systems

1. **Observation/Deficiency:** The existing fire alarm system does not function correctly, parts of it are inoperative, aspects of the installation no longer meet Code requirements, the system is obsolete, and maintenance parts are or will become increasingly difficult to obtain.
 - a. **Correction:** Replace the existing fire alarm system in its entirety including initiating devices, indicating devices, fire alarm control panel, fire alarm annunciators, etc.
2. **Observation/Deficiency:** The existing telecommunications distribution system does not adhere to any current standards and probably does not adequately serve the building.

- a. **Correction:** Provide a telecom distribution system designed and installed in accordance with the latest ANSI/TIA-568, 569, 606, and 607 standards and with the BICSI Telecommunications Distribution Methods Manual.

New Life Expectancy: Replacing or otherwise addressing the existing electrical and other specialty low voltage equipment as outlined above can be expected to extend the life of the addressed systems to a life expectancy approaching (if not equally) the life expectancy of said systems as if they were installed new in a “new” building. There is one caveat to this statement - the quality of the installation and the general maintenance of said systems after they are installed have a great deal to do with the expected life of each respective system.

HAZARDOUS MATERIALS ASSESSMENT

WRANGELL PUBLIC SAFETY BUILDING

WRANGELL, ALASKA

**Surveyed
September 2020**

**Report Date
February 9, 2021**

EHS, ALASKA, INC.
ENGINEERING, HEALTH & SAFETY CONSULTANTS
11901 BUSINESS BLVD., SUITE 208
EAGLE RIVER, ALASKA 99577-7701

**HAZARDOUS MATERIALS ASSESSMENT
WRANGELL PUBLIC SAFETY BUILDING**

WRANGELL, ALASKA

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HAZARDOUS MATERIALS ASSESSMENT WRANGELL PUBLIC SAFETY BUILDING

WRANGELL, ALASKA

OVERVIEW

The Wrangell Public Safety Building, located in Wrangell, Alaska, was surveyed for the presence of asbestos-containing materials (ACM), and other potentially hazardous materials as a part of a condition survey of the Wrangell Public Safety Building (PSB) for the City and Borough of Wrangell. The survey also provided a “good faith” inspection for hazardous materials that may be disturbed during the construction. The proposed work includes the disturbance, demolition, removal and disposal of lead-containing paints and/or lead-containing materials that is incidental to the renovation and remodeling project. Mr. Brandon W. Hill, and Mr. Robert A. French, P.E. of EHS-Alaska, Inc. (EHS-Alaska) conducted the inspections in September 2020.

A. GENERALIZED REQUIREMENTS FOR HAZARDOUS MATERIALS

Potentially hazardous materials have been identified in the Public Safety Building that will be affected by the proposed renovations. Those materials include asbestos, lead, polychlorinated bi-phenyls (PCBs), mercury, and radioactive materials. Not all materials were tested for potentially hazardous components, other potentially hazardous materials, including those exterior to the building, such as contamination from underground fuel tanks may be present, but are not part of this report.

Buildings or portions of buildings that were constructed prior to 1978 which are residences, or contain day care facilities, kindergarten classes or other activities frequently visited by children under 6 years of age are classified as *child occupied facilities*. All work classified as “renovations” or disturbing more than 6 square feet of lead-based painted surfaces per room for interior activities or more than 20 square feet for exterior activities in child occupied facilities must comply with the requirements of 40 CFR 745. This building is not classified as a *child occupied facility* and therefore the requirements of 40 CFR 745 are not applicable.

Only the materials that will be directly affected by future renovations are required to be removed. The quantities and types of materials will presumably be incorporated into the design documents for a future renovation. The removal and disposal of potentially hazardous materials are highly regulated, and it is anticipated that removal and disposal of asbestos, lead and chemical hazards will be conducted by a subcontractor to the general contractor who is qualified for such removal. It is anticipated that the general contractor and other trades will be able to conduct their work using engineering controls and work practices to control worker exposure and to keep airborne contaminants out of occupied areas of the building.

Settled and concealed dusts in areas not subject to routine cleaning are present throughout the building, including the roof, and inside and on top of architectural, mechanical, electrical, and structural elements, and those dusts are assumed to contain regulated air contaminants. This should not be read to imply that there is an existing hazard to building occupants (normal occupants of the building as opposed to construction workers working in the affected areas). However, depending on the specific work items involved and on the means and methods employed when working in the affected areas, construction workers could be exposed to regulated air contaminants from those dusts in excess of the OSHA Permissible Exposure Limits (PELs).

The settled and concealed dusts were examined by an EPA Certified Building Inspector but were not sampled. The inspector determined that the dusts are not “asbestos debris” from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM). Reference 40 CFR 763.83.

“Awareness training” (typically 2 hours) and possibly respiratory protection will be required for all Contractor Personnel who will be disturbing the dusts. The extent of the training and protective measures will depend upon the airborne concentrations measured during air monitoring of the contractors work force, which

depends on the means and methods employed to control the dusts. The air monitoring may be discontinued following a “negative exposure assessment” showing that worker exposures are below the OSHA permissible exposure limits for the type of work and means and methods employed. Previous air monitoring from similar jobs with similar conditions may be used as historical data to establish a “negative exposure assessment”.

B. BUILDING DESCRIPTION

The lower level portion of the Public Safety Building was originally constructed at an unknown date, apparently as part of a 2 Phase construction period, and included a firing range, mechanical room, bathrooms and storage. Construction on the Phase 2 expansion of the lower level parking garage, and the upper levels was started in 1985, and the “As-Built” drawings for Phase 2 had a 1987 date. The building evidently had some moisture problems from fairly early in it’s life, and in addition to regular maintenance and repairs had the siding replaced on the South Side of the building in 2004, and several mold and indoor air quality surveys done. There were some apparent undocumented “tenant improvements” and repairs that had taken place through the years.

The interior partitions were primarily of framed construction. The lower level had many poured in place concrete walls. The “Detention” portion of the building had concrete floors, walls and ceilings. The interior walls were typically of gypsum wallboard.

The exterior walls were of wood framed construction with cedar siding. The floors and roofs were typically supported by glue-laminated beams and wood and metal truss joists. The steel structure in the lower level was covered with sprayed-on fire proofing.

Ceilings in the original construction were typically of 2' x 4' acoustic ceiling tiles. The Apparatus Bay, toilets, and storerooms, etc., had gypsum wallboard ceilings. The Courtroom and entry lobby had slatted wood ceilings under acoustic panels. The raised portion of the Courtroom ceiling had 12” x 12” glued-on ceiling tiles.

Floor finishes were mainly of carpet or vinyl composition tile. The vinyl tile flooring was typically exposed in heavy traffic areas or covered by carpeting. Toilets and janitor closets often had sheet vinyl flooring. The vinyl tile flooring in the lower level (Phase 1) had an asbestos-containing mastic.

The building was heated by a hydronic heating system combined with various fan coil units supplying ventilation and heating. There were both oil-fired and electric boilers in the lower level mechanical room. The heating, domestic water and roof drain piping was typically insulated with fiberglass.

The building had a main fan room at the 3rd level with 3 main Air Handling Units which served the different areas of the building, with a separate AHU in the lower level mechanical room that apparently was part of the original Phase 1 construction which likely served the firing range. The systems were typically constant volume systems “Hot and Cold Decks” with ducted supplies and returns, and return fans.

C. SAMPLING AND ANALYSIS

1. Asbestos-Containing Materials

The survey included sampling of suspect ACM materials that had not been sampled in the very limited previous sampling data that was provided to EHS-Alaska. Refer to the asbestos record information available for review in the City and Borough of Wrangell offices for information on previous sampling which is not included in this report. Additional testing of materials pertinent to the project, including asbestos and lead was conducted and is included in this report.

The samples were analyzed for the presence of asbestos by polarized light microscopy (PLM), the method of analysis recommended by the U.S. Environmental Protection Agency (EPA) to determine the composition of suspected asbestos-containing materials (EPA method 600/M4-82-020). Only materials

containing more than 1% total asbestos were classified as “asbestos-containing” based on EPA and the Occupational Safety and Health Administration (OSHA) criteria. Samples that were analyzed to have less than 10% asbestos were “point-counted” by the laboratory for more accuracy. Samples that are listed as having a “Trace by Point Count” had asbestos fibers found in the material, but the fibers were not present at the counting grids. Table 1 in Part D below contains a summary list of the asbestos bulk samples and the applicable results.

The Bulk Asbestos samples were analyzed for asbestos content by International Asbestos Testing Laboratories (IATL), Mt. Laurel, New Jersey a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

EPA regulations under 40 CFR 763 requires the use of Polarized Light Microscopy (PLM) to determine whether or not a material contains asbestos. While PLM analysis does a good job for most materials, it does have some limitations, both in the size of the fibers that are visible under a standard optical microscope, and because the organic matrix that the fibers are bound within can obscure the fibers. At the discretion of the building inspector and the client, some types of samples may be analyzed or re-analyzed by what is called TEM NOB, or Transmission Electron Microscopy for Non-Friable Organically Bound materials. TEM NOB is the definitive method for determining if asbestos is present, but TEM NOB use is not required by the EPA. TEM NOB analysis was not done for this project.

Field survey data sheets and laboratory reports of the bulk samples are included in Appendix A. Drawings showing sample locations are included as Appendix C.

2. Lead-Containing Materials

Nearly all surfaces in the building were coated with paint and most surfaces had been repainted. EHS-Alaska tested representative paints throughout the affected areas of the building using an Heuresis Pb200i X-Ray Fluorescence (XRF) lead paint analyzer (Serial # 1770 with software version 4.0-21). The lead testing conducted was not a Lead-Based Paint Inspection or Screening as defined by HUD or EPA regulations, but was done to test surfaces that may be representative of those likely to be affected by this project. If surfaces and materials other than those tested are identified, the Contractor shall test and treat appropriately. Refer to the Lead Analyzer Test Results Table in Appendix B that identifies the surfaces tested, and the results. All surfaces affected by this project may not have been tested and therefore additional sampling may be required to refute the presence of lead-based paints in child occupied facilities regulated by 40 CFR 745. The Lead Test Locations are shown in Appendix C.

EPA and the Department of Housing and Urban Development (HUD) have defined lead-based paint as any paint or other surface coating that contains lead equal to or in excess of 1.0 milligram per square centimeter (mg/cm^2) or 0.5 percent by weight. XRF results are classified as positive (lead is present at $1.0 \text{ mg}/\text{cm}^2$ or greater), negative (less than $1.0 \text{ mg}/\text{cm}^2$ of lead was present) or inconclusive (the XRF could not make a conclusive positive or negative determination). Tests that were invalid due to operator error are shown as void tests.

A Performance Characteristic Sheet (PCS) for the Heuresis Pb200i is available upon request. This PCS data provides supplemental information to be used in conjunction with Chapter 7 of the “HUD Guidelines”. Performance parameters provided in the PCS are applicable when operating the instrument using the manufacturer’s instructions and the procedures described in Chapter 7 of the “HUD Guidelines”. The instrument was operated in accordance with manufacturer’s instructions and Chapter 7 of the HUD Guidelines. No substrate correction is required for this instrument. There is no inconclusive classification for this instrument when using the $1.0 \text{ mg}/\text{cm}^2$ threshold.

D. SURVEY RESULTS**1. Asbestos-Containing Materials**

The following Table 1A lists the samples taken in September 2020 throughout the building, and the results of the laboratory analysis. Asbestos field survey data sheets and laboratory reports are included as Appendix A. Refer to Appendix C for sample locations.

TABLE 1A

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A01	Joint compound; with gypsum wall board	Rm 218, waiting area at gypsum wall board ceiling above drop-down ceiling. Photo R112	None Detected, both layers
WPS920-A02	LCT-1, 2'x2' drop bevel deep directional fissures lay-in ceiling tile	Rm 218, above waiting area. Photo R118	None Detected
WPS920-A03	LCT-2, 2'x2' drop bevel few directional fissures lay-in ceiling tile	Rm 218, above waiting area. Photo R118	None Detected
WPS920-A04	Yellow duct insulation mastic	Rm 218, waiting area above drop-down ceiling. Photo R117	None Detected
WPS920-A05	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic	Rm 218, waiting area at base of the east wall. Photo R121	None Detected, both layers
WPS920-A06	Joint compound	Rm 218, southeast corner of room on nail at corner joint above drop-down ceiling. Photo R122	None Detected
WPS920-A07	Dark brown mastic on TJI Wood Truss	Rm 218, on TJI's in center of room above drop-down ceiling. Photo R135	None Detected
WPS920-A08	Brown carpet mastic	South side of the open space between Rm 218 and Rm 219. Photo R139	None Detected
WPS920-A09	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic; with joint compound and gypsum wall board	Rm 224, base of southeast corner. Photo R171	None Detected, all 4 layers
WPS920-A10	Black sink undercoating	Rm 227, at stainless steel sink. Photo R207	None Detected
WPS920-A11	SV-1, Sheet Vinyl, 1/4" blue and grey chip; with yellow mastic; with clear threshold mastic	Rm 226, at threshold to Rm 227. Photo B29	None Detected, three layers
WPS920-A12	"Marlite"	Rm 226, Plumbing access on wall between sink and toilet. Photo B30	None Detected
WPS920-A13	Yellow "Marlite" mastic	Rm 242, On north wall west of door frame. Photo R245	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A14	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic	Rm 241, at base of southeast corner. Photo B33	None Detected, both layers
WPS920-A15	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 244, Behind mini fridge where back of cabinet meets the wall. Photo B32	None Detected, both layers
WPS920-A16	Black sink undercoating	Rm 244, at stainless steel sink. Photo B31	None Detected
WPS920-A17	Brown carpet mastic	Rm 241, Just inside the doorway at north side of the room. Photo B34	None Detected
WPS920-A18	Gypsum wall board; with joint compound	Rm 246, at northwest corner of room above drop-down ceiling line. Photo R268	None Detected, all four layers
WPS920-A19	LCT-1, 2'x2' drop bevel, deep directional fissures lay-in ceiling tile	Rm 246, at northwest corner of room. Photo R259	None Detected
WPS920-A20	CB-2, Cove base 4" black; with dark brown mastic	Rm 246, at west wall, south of door frame. Photo R270	None Detected, both layers
WPS920-A21	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 246, at west wall, south of door frame. Photo R270	None Detected, both layers
WPS920-A22	LCT-2, 2'x2' drop bevel, few directional fissures lay-in ceiling tile	Rm 227, near the center of the room. Photo R271	None Detected
WPS920-A23	Joint compound	Rm 227, southwest corner on courtroom side of door above drop-down ceiling. Photo B35	None Detected
WPS920-A24	Light blue wall carpet mastic	Rm 227, at back of closet near top of wall. Photo B36	None Detected
WPS920-A25	CB-2, Cove base 4" black; with dark brown mastic	Corridor 231, at corner of wall by door to Corridor 229. Photo B40	None Detected, both layers
WPS920-A26	Brown carpet mastic	Corridor 231, at transition to room 238. Photo B41	None Detected
WPS920-A27	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Corridor 231, at transition to room 238. Photo B24	None Detected, both layers
WPS920-A28	White mastic for 5" blue carpet cove base (CB-3); with yellow mastic; with brown mastic	Rm 232, at base of wall south the north door frame. Photo B43	None Detected, three layers
WPS920-A29	Joint compound; with gypsum wall board	Rm 232, at northside of room above ceiling tile, above southernmost window, of the set of 3 windows. Photo R379	None Detected, all 4 layers

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A30	Joint compound; with gypsum wall board	Rm 232, at northside of room above ceiling tile on ceiling soffit, above the middle of the three windows. Photo R380	None Detected, both layers
WPS920-A31	LCT-1, 2'x2' drop bevel, deep directional fissures lay-in ceiling tile	Rm 232, at center of northside of room. Photo R381	None Detected
WPS920-A32	Brown carpet mastic, and leveling compound?	Rm 232, in doorway to south section of room. Photo B44	None Detected, both layers
WPS920-A33	CB-4, Cove base 4" soft black; with skim coat	Rm 232, at base of wall, south side of door in south room addition. Photo R391, R392	None Detected, both layers
WPS920-A34	CB-4, Cove base 4" soft black; with yellow mastic; with skim coat	Rm 232, at base of wall, south side of door in south room addition. Photo R391, R392	None Detected, three layers
WPS920-A35	Black sink undercoating	Rm 217, Bottom side of stainless-steel drinking fountain. Photo B45	0.75% chrysotile
WPS920-A36	Yellow duct insulation mastic	North side of Hallway 216 in center above ceiling tile. Photo R393	None Detected
WPS920-A37	Gypsum wall board; with joint compound	North side of Hallway 216 at west wall above ceiling tile. Photo R394	None Detected, all 4 layers
WPS920-A38	LCT-2, 2'x2' drop bevel, few directional fissures lay-in ceiling tile	North side of Hallway 216. Photo R395	None Detected
WPS920-A39	Black grout for ceramic wall tile	Rm 223, at plumbing access on wall under sink. Photo B46	None Detected
WPS920-A40	Tan mastic for ceramic wall tile	Rm 223, at plumbing access on wall under sink. Photo B46	None Detected
WPS920-A41	White cloth-like lagging at valve	Rm 223, at plumbing access, east side of toilet on valve. Photo B47	None Detected, both layers
WPS920-A42	SV-2, Sheet vinyl, light brown rock pattern; with light tan mastic; with grey leveling compound or concrete	Rm 234, at transition strip in doorway. Photo R403, R404	None Detected, three layers
WPS920-A43	Dark brown carpet mastic, with grey leveling compound or concrete	Rm 234, at transition strip in doorway. Photo R403, R404	None Detected, both layers
WPS920-A44	Dark brown mastic for missing cove base (CB-5)	Rm 234, at base of shelving unit. Photo R405, R406	None Detected
WPS920-A45	White mastic for fiberglass reinforced plastic wall panel; with joint compound	RM 234, at northwest corner between door frame and west wall. Photo R408	None Detected, both layers

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A46	Gypsum wall board; with joint compound	RM 234, at northwest corner between door frame and west wall. Photo R407	None Detected, three layers
WPS920-A47	White "hard fitting" insulation	Rm 222, above ceiling access at middle of room. Photo R433	None Detected
WPS920-A48	Black stair stringer; with dark brown mastic	Stairway 213, at base of south wall near top of stairs. Photo R475	None Detected, three layers
WPS920-A49	Black stair tread mastic	Stairway 213, at base of south wall near top of stairs. Photo R475	None Detected
WPS920-A50	Black stair tread	Stairway 213, at base of south wall near top of stairs. Photo R475	None Detected
WPS920-A51	Brown carpet mastic; with grey leveling compound	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	None Detected, both layers
WPS920-A52	FT-2, Floor tile, 12"x12" blue with light grey; with black mastic	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	None Detected, both layers
WPS920-A53	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	None Detected, three layers
WPS920-A54	Black stair tread; with black mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected, both layers
WPS920-A55	Black stair stringer; with brown mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected, both layers
WPS920-A56	Black stair kick plate; with brown mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected, both layers
WPS920-A57	Black and tarry lining for ceiling-mounted speaker box	Rm 200, Northeast side of room. Photo R902, R903	4.7% chrysotile
WPS920-A58	Gypsum wall board; with joint compound; with dark brown cove base mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected, all 4 layers
WPS920-A59	Yellow carpet mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected
WPS920-A60	CB-2, Cove base 4" black; with dark brown mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected, both layers
WPS920-A61	FT-2, Floor tile, 12"x12" blue with light grey; with black mastic	Rm 200, at floor transition strip to kitchen area. Photo R905, R906	None Detected, three layers

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A62	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Rm 200, at floor transition strip to kitchen area. Photo R905, R906	None Detected, three layers
WPS920-A63	Yellow carpet mastic	Rm 200, at floor transition strip to kitchen area. Photo R906	None Detected
WPS920-A64	White sealant at base of wall to blue painted wood trim	Stairwell 236, top of stairs at base of north wall. Photo B52	None Detected
WPS920-A65	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 206, at transition strip into Rm 200. Photo B136	None Detected, both layers
WPS920-A66	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Rm 201, southwest corner, at base door frame. Photo R912	None Detected, both layers
WPS920-A67	Black and tarry lining for ceiling-mounted speaker box	Rm 203, in middle of room. Photo R921, R922	2.1% chrysotile
WPS920-A68	Yellow "Marlite" mastic	Rm 206, at base of east wall, north of door frame. Photo R928, B137	None Detected
WPS920-A69	Black sink undercoating	Rm 200, under stainless steel sink in kitchen area. Photo R923	None Detected
WPS920-A70	LCT-2, 2'x2' drop bevel few directional fissures lay-in ceiling tile	Rm 235, east side of room. Photo R942	None Detected
WPS920-A71	Dark brown roof drain putty	Roof drain at far east side of east flat roof. Photo R963	None Detected
WPS920-A72	Dark brown roof membrane	Roof drain at far east side of east flat roof. Photo R963	None Detected
WPS920-A73	Black tar paper	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A74	White coping cap sealant	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A75	Black rubber membrane	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A76	White reglet sealant	East flat roof at reglet lap joint north of air intake louver. Photo R967	None Detected
WPS920-A77	Grey sealant around roof scupper	East flat roof scupper at top of east wall. Photo R970	None Detected
WPS920-A78	Exterior door flashing sealant	Flashing above exterior side of east roof access door. Photo B138	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A79	Black neoprene flex connector for ducting	Rm M300, center section mechanical room connecting two rigid ducts. Photo B139	None Detected
WPS920-A80	White chalky insulation with cloth jacket	Rm M300, at coil in north central section of mechanical room. R988	None Detected
WPS920-A81	Black neoprene flex connector for ducting	Rm M300, north central section of mechanical room connecting two rigid ducts. B140	None Detected
WPS920-A82	White chalky insulation with cloth jacket	Rm M300, at coil next to the middle of north wall of mechanical room. R989, R190	None Detected, both layers
WPS920-A83	White chalky insulation with cloth jacket	Rm M300, at coil next to middle of west wall of mechanical room. R995	None Detected
WPS920-A84	White duct insulation jacket with possible chalky insulation	Rm M300, Vertical portion of Outside Air duct at center area of mechanical room. Photo B141	None Detected
WPS920-A85	Gypsum wall board; with joint compound	Rm M300, at corner of west wall just above horizontal metal conduit. Photo B142	None Detected, both layers
WPS920-A86	Black tar paper	Under cedar siding at northeast corner of the west flat roof. Photo R999, R1005	None Detected
WPS920-A87	Dark brown roof drain putty	At clamping ring in roof drain located on the far west side of the west flat roof. Photo R997	None Detected
WPS920-A88	Clear coping cap sealant	Coping cap at top of wall located at the west edge of the west flat roof. Photo R998	None Detected
WPS920-A89	Grey reglet sealant	At the reglet where it meets the access door to the west flat roof. Photo R1004	None Detected
WPS920-A90	Light grey door frame sealant	Between door frame to access door to west flat roof and wood siding. Photo B143	None Detected
WPS920-A91	Gypsum board exterior sheathing	Under cedar siding at northeast corner of the west flat roof. Photo R1005	None Detected
WPS920-A92	Red rubbery sealant on boiler exhaust	At stacks in the center of top level flat roof. Photo R1012, R1028	None Detected
WPS920-A93	Tarry dark brown cork-like refrigeration pipe wrap	Rm M300, East side of mechanical room close to east flat roof access door. Photo R1044	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A94	Light green sealant/coating for sound lining	Rm M300, northeast side of mechanical room at sound lining of air hatch. Photo R1046	None Detected
WPS920-A95	Light green sealant/coating; with sound lining facing	Rm M300, northeast side of mechanical room in outside air intake. Photo R1050	None Detected, both layers
WPS920-A96	Black sound lining inside "bowl" speaker	Rm 100, speaker located above the south bay row. Photo R1130, R1131, R1132	2.4% chrysotile
WPS920-A97	White "Marlite"; with yellow "Marlite" mastic; with yellow sheet vinyl mastic	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected, both layers
WPS920-A98	SV-1, Sheet vinyl 1/4" blue and grey chip	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected
WPS920-A99	White hard chalky material to support self-cove sheet vinyl (likely "Fix-All")	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected
WPS920-A100	Gypsum wall board; with joint compound	Rm 100, hose house at top of ladder on west side of bay. Photo R1146	None Detected, both layers
WPS920-A101	Black grout for quarry tile	Rm 112, west corner of planter box in 1st floor lobby. Photo B145	None Detected
WPS920-A102	Black grout for quarry tile	Rm 112, at base of east wall on south side of lobby where bench mount meets the wall. Photo B146	None Detected
WPS920-A103	Tan mastic for walk-off mat	Rm 113, floor at base of north wall, east side of door to room 112. Photo B147	None Detected
WPS920-A104	CB-2, Cove base 4" black; with cream mastic	Rm 113, at base of south wall under window to dispatch. Photo B148	None Detected, both layers
WPS920-A105	Black floor tile mastic	Rm B107, at floor in front of sink. Photo R1242	1.3% chrysotile
WPS920-A106	FT-3, Floor tile 12"x12" cream with white and grey; with black mastic	Rm B107, at floor north of sink. Photo R1243	None Detected, insufficient mastic to analyze
WPS920-A107	FT-4, Floor tile 12"x12" blue with white and grey	Rm B107, at floor in front of sink. Photo R1242	None Detected, both layers
WPS920-A108	Gypsum wall board; with joint compound	Rm B104, above drop-down ceiling at southeast corner where the room meets the hallway. Photo R1244	None Detected, both layers
WPS920-A109	Grey fuzzy, crumbly fireproofing	Rm B104, on beam above drop-down ceiling. Photo R1251	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A110	White harder fireproofing patch	Rm B104, close to south wall on beam above drop-down ceiling. Photo R1251	None Detected
WPS920-A111	LCT-3, same as LCT-1 but from Phase 1.	Rm B104, at southeast corner where the room meets the hallway. Photo R1244	None Detected
WPS920-A112	Grey fuzzy, crumbly fireproofing	On beam above ceiling at south side of hallway attached to Rm B104. Photo R1254	None Detected
WPS920-A113	LCT-4, 2'x2' drop bevel, smooth face lay-in ceiling tile	Above ceiling at south side of hallway attached to Rm B104. Photo R1253	None Detected
WPS920-A114	Dark grey concrete "sacking"	Above ceiling on east wall, at south side of hallway attached to Rm B104. Photo R1255	None Detected
WPS920-A115	Grey fuzzy, crumbly fireproofing	Loose above west side of Rm B105, accessed by mechanical Rm B102. Photo B149	None Detected
WPS920-A116	Joint compound	Rm B102, at top of wall above interior doorway to room. Photo B150	None Detected
WPS920-A117	Gypsum wall board	Rm B102, at east wall of northwest corner of room. Taken from a preexisting hole in gwb. Photo B151	None Detected
WPS920-A118	FT-3, Floor tile 12"x12" cream with white and grey streaks; with black mastic	At base of east wall of north hallway attached to Rm B104. Photo R1258	None Detected in tile, 1.2% chrysotile in black mastic
WPS920-A119	FT-4, Floor tile 12"x12" blue with white and grey streaks; with black mastic	At base of east wall of south hallway attached to Rm B104. Photo R1257	None Detected in tile, 1.7% chrysotile in black mastic
WPS920-A120	CB-6, Cove base black 4" phase 1; with dark brown mastic	At base of east wall of north hallway attached to Rm B104. Taken from a preexisting hole in cove base. Photo B152	None Detected, both layers
WPS920-A121	CB-6, Cove base, black 4" phase 1; with dark brown mastic; with newer cream mastic	Rm B101, at corner of southwest wall behind door. Photo B153	None Detected, both layers
WPS920-A122	Grey fuzzy, crumbly fireproofing	Rm B101, at bottom of corrugated floor. Photo R1267	None Detected
WPS920-A123	Light grey harder fireproofing patch	Rm B101, on bottom side of stairs. Photo R1267	None Detected
WPS920-A124	CB-7, Cove base 4" beige; with brown mastic	Rm B105, at corner of base of south wall. Photo B159	None Detected, three layers

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A125	Fire door insulation, brown honeycomb paper; with red glue	Rm B101, top corner at handle side of door. Photo R1278, R1279, R1280	None Detected
WPS920-A126	White chalky "hard fitting" at heat return pipe.	Rm B102, Heat return pipe at southeast section of room along east wall. Photo R1324	None Detected
WPS920-A127	White "Mag" at heat return at thermometer	Rm B102, Heat return pipe at thermometer at southeast section of room along east wall. Photo R1324	None Detected
WPS920-A128	White "Mag" at heat supply to V6-1 coil	Rm B102, Center area of southeast section of room at heat supply to V6-1 coil. Photo R1325	None Detected
WPS920-A129	White chalky insulation for metal-jacketed generator exhaust	Rm B102, North side of room where pipe crosses overhead from generator room. Photo B160	None Detected
WPS920-A130	White chalky insulation for metal-jacketed generator exhaust	Rm B102, Bottom side of pipe where it turns vertical into the stack, near southwest corner of Rm B105. Photo B161	None Detected
WPS920-A131	Grey fuzzy, crumbly fireproofing	Rm B102, North side of room close to south wall of Rm B112. Photo B162	None Detected
WPS920-A132	White chalky "Mag" for hot water pipe	Rm B102, Top side of hot water pipe running directionally above entry way to mechanical room. Photo B164	None Detected
WPS920-A133	White chalky "Mag" for hot water pipe	Rm B102, Top side of hot water pipe running directionally above entry way to mechanical room parallel to previous sample. Photo B163	None Detected
WPS920-A134	White chalky insulation for metal-jacketed generator exhaust	Rm B112, End of muffler section closest to the doorway. Photo R1326	None Detected
WPS920-A135	White chalky insulation for metal-jacketed generator exhaust	Rm B112, Plug at end of muffler at north side of generator. Photo R1328	None Detected
WPS920-A136	Light green "Spunstrand" fiberglass; with white paper-like lining	Rm B102, Southwest corner (must walk through air vents) at duct running into concrete slab. Photo B167, R1349	30% chrysotile
WPS920-A137	Dark grey "sacking" on concrete wall	Rm B102, Southwest corner (must walk through air vents) at west wall. Photo B166	None Detected, both layers

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A138	LCT-5, 2'x4' wormy shallow fissures with 1/8" holes lay-in ceiling tile	Rm B108, Ceiling at far west end of shooting range, just south of center. Photo R245	None Detected
WPS920-A139	GCT-1, 12" x 12", Off-white dense tile; sharp directional fissures with dark brown mastic	Rm B108, East end of shooting range, Just north of center. Photo B169	None Detected, both layers
WPS920-A140	GCT-1, 12" x 12", Off-white dense tile; sharp directional fissures with dark brown mastic	Rm B108, East end of shooting range at north wall. Photo B168	None Detected, both layers
WPS920-A141	LCT-5, 2'x4' wormy shallow with 1/8" holes lay-in ceiling tile	Rm B108, halfway to end of shooting range on north side of room. Photo R1374	None Detected
WPS920-A142	LCT-5, 2'x4' wormy shallow with 1/8" holes lay-in ceiling tile	Rm B108, first row of deflector panels, just north of center. Photo R1375	None Detected
WPS920-A143	Light grey harder fireproofing patch	Rm B108 halfway down shooting range at south wall on beam between deflector plate rows. Photo R1376	None Detected
WPS920-A144	Grey fuzzy, crumbly fireproofing	Rm B108 halfway down shooting range at south wall on beam between deflector plate rows. Photo R1376	None Detected
WPS920-A145	CB-7, Cove base 4" beige; with brown mastic	Rm B113, Northwest corner of firing area at base of wall behind door. Photo B170	None Detected, both layers
WPS920-A146	Gypsum wall board; with joint compound	Rm B113, Southeast corner of firing area above drop-down ceiling where conduit enters wall. Photo R1377, R1378	None Detected, both layers
WPS920-A147	LCT-3, same as LCT-1 but from Phase 1.	Rm B113, Southeast corner of firing area at drop-down ceiling. Photo R1377	None Detected
WPS920-A148	Dark grey "sacking" on concrete	Stairwell B111, at bottom stair on west wall above handrail. Photo R1379	None Detected
WPS920-A149	Gypsum wall board; with joint compound	Corridor B110, at west end of corridor on ceiling at east side of concrete column. Photo R1387	None Detected
WPS920-A150	LCT-3, same as LCT-1 but from Phase 1.	Rm B113, Just inside north door entrance at ceiling. Photo B171	None Detected
WPS920-A151	LCT-7, 2'x4' drop bevel, smooth face	Corridor 122, Where corridor opens up into an unnamed room on east at ceiling just above 4-outlet electrical box. Photo R1415	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A152	LCT-2, 2'x2' drop bevel, few directional fissures lay in ceiling tile	Corridor 122, Where corridor opens up into an unnamed room on east at ceiling just above 4-outlet electrical box. Photo R1415	None Detected
WPS920-A153	Gypsum wall board; with joint compound	Rm 118. At center of room at duct chase above ceiling. Photo R1418	None Detected, three layers
WPS920-A154	Yellow "Marlite" mastic	Rm 116, Northwest corner of room next to door frame. Photo R1425, R1426	None Detected
WPS920-A155	SV-1, Sheet vinyl 1/4" blue and grey chip	Rm 116, Center of north wall where sheet vinyl bends to self-cove. Photo R1424	None Detected
WPS920-A156	SV-3, Sheet vinyl light grey, tan, black, pearl, small chip; with brown mastic	Rm 134, At floor transition into kitchen where flooring is breaking apart. Photo R1433	None Detected, both layers
WPS920-A157	Grey sink undercoating	Rm 134, Bottom side of stainless-steel sink in kitchen area. Photo R1447	None Detected
WPS920-A158	Tan mastic for fiberglass reinforced plastic panel; with joint compound	Rm 134, At GFCI outlet west of sink above countertop. Photo R1448	None Detected, both layers
WPS920-A159	White sink undercoating	Rm 134, Bottom of small sink at west end of kitchen. Photo R1449	None Detected
WPS920-A160	Black cove base from kitchen remodel	Rm 134, At toe kick below small sink at west end of kitchen. Photo R1450	None Detected, both layers
WPS920-A161	Gypsum wall board; with joint compound	Rm 130, Southwest of room above ceiling access door where pipes enter wall. Photo R1501	None Detected, three layers
WPS920-A162	CB-2, Cove base 4" black; with dark brown mastic	Corridor 133, west end of hallway at base of corner where hallway turns north. Photo B194	None Detected, both layers
WPS920-A163	Green sticky carpet mastic	Rm 127, below carpet just inside doorway. Photo R1512	None Detected
WPS920-A164	Exterior tar paper	Outside Rm 127 north of the window, at base of wall behind shiplap siding. Photo B195	None Detected
WPS920-A165	Exterior tar paper	North side exterior of building outside Bay 100, east of door at base of wall, behind shiplap siding. Photo B196	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A166	Gypsum board exterior sheathing	North side exterior of building outside Bay 100, east of door at base of wall, behind shiplap siding and tar paper. Photo B196	None Detected
WPS920-A167	Flexible cream exterior sealant	North side exterior of building outside Bay 100, east of door in corner between wood siding and tar paper. Photo B197, B198	None Detected
WPS920-A168	Firm black exterior sealant	North side exterior of building outside Bay 100, east of door in corner. Photo B199	None Detected
WPS920-A169	Black sound lining inside "bowl" speaker	Rm 149, Bowl speaker surface mounted in middle of garage. R1547	5.7 % chrysotile
WPS920-A170	Grey rubbery window frame sealant	North side of far north window outside lobby 112. Photo B200	None Detected
WPS920-A171	Gypsum board	Center of parking garage at existing ceiling damage. Photo B208, B209	None Detected, both layers
WPS920-A172	Black foam-like window sealant	North side of north window outside Rm 106. Photo B210, B211, B212	None Detected
WPS920-A173	CB-8, Cove base 4" dark grey; with cream mastic	Rm 209, At base of southeast corner behind door. Photo B213	None Detected, both layers
WPS920-A174	Grey fuzzy, crumbly fireproofing	East side of parking garage above open ceiling access on beam. Photo B216	None Detected
WPS920-A175	Grey fuzzy, crumbly fireproofing	East side of parking garage above open ceiling access on beam north of previous sample. Photo B217	None Detected
WPS920-A176	Grey "sacking" on concrete	Southwest side of parking garage on south wall at bottom right of large air intake louver. Photo B218	None Detected
WPS920-A177	White outer coating with cloth to pipe vapor insulation	Rm M300, East side of mechanical room close to east flat roof access door. Photo R0144	None Detected, both layers
WPS920-A178	LCT-6, 2'x4' galaxy lay-in ceiling tile	Rm B108, Southwest end of shooting range on second to last row of deflector plates. Photo R1373	None Detected
WPS920-A179	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, West side of room on high ceiling at air duct grill. Photo R1373	None Detected, both layers

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WPS920-A180	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, West side of room on high ceiling at air duct grill. Photo R1373	None Detected, both layers
WPS920-A181	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, North side of high ceiling at preexisting circular hole. Photo R1373	None Detected, both layers
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

The following materials have been found to contain asbestos in this or previous surveys, or were assumed to contain asbestos.

1. Black sink undercoating on stainless steel drinking fountains (0.75% asbestos, assumed to contain more than 1% asbestos).
2. Black sound lining of flush mounted and bowl shaped ceiling mounted speaker boxes (confirmed asbestos).
3. Black mastic of 12" x 12" Floor tile of Phase 1 in basement (confirmed asbestos).
4. Paper-like lining of underground, green, fiberglass "Spunstrand" duct, assumed to be serving the exhaust system of the firing range (confirmed asbestos).
5. Window Glazing Compound (Window Putty) (assumed asbestos).

The following materials have been found to be asbestos-free in this or previous surveys, but is not to be considered a complete list of asbestos-free materials.

- "Hard and Chalky" insulation on piping and generator exhaust muffler, and stack.
- "Hard Fitting" insulation found in boiler room, and at tube bundles at the cooling coils in the fan room.

The above asbestos-containing materials are more completely discussed below.

Sink Undercoating

One stainless steel drinking fountain at the second floor lobby was coated on the underside with a black spray-applied material containing asbestos. Other similar black or other color undercoatings were tested and found to not contain asbestos. This material was in good condition and is not considered friable. The drinking fountain, if removed, could likely be removed intact as Class IV asbestos work.

Speaker Housing Coatings

Coatings on the interior of flush ceiling mounted speaker housings in the Firehall training and office areas, as well as bowl shaped, surface mounted speaker housings in the Equipment Bay and hallways contained chrysotile asbestos. This material was in good condition and was not friable and, if removed, could likely be removed intact as Class IV asbestos work.

Floor Tile and Mastic

The 12" x 12" vinyl floor tiles of the Phase 1, basement area were found to have an asbestos-containing black mastic. The tiles themselves did not contain asbestos, but are contaminated by the black mastic. The floor tiles were similar in appearance to the tiles of the Phase 2 upper levels, but when examined closely, were visibly different in patterns and colors. The tile and mastics were mostly in good condition with a few localized areas of damage. The tile and mastic was not friable, and if disturbed, would be Class II asbestos work, and required to be conducted by Alaska Certified Asbestos Workers.

Buried Fiberglass Duct Lining

Asbestos-containing paper-like lining of a buried fiberglass duct was present in the basement fan room. The duct was part of the Phase 1 portion of the building, and EHS-Alaska was not provided any of the as-built information for that Phase. Based on the location of the buried duct, it is assumed to be the exhaust duct for the firing range. These ducts are commonly manufactured under the "Spunstrand" product name, and the asbestos-containing lining often deteriorates over time, and the paper lining can come loose from the duct, making it friable. It is recommended that the duct be further investigated to make sure that it is not providing supply air to anywhere in the building. If it does provide supply air, it is recommended that the duct be abandoned in place, and that an alternate ducting arrangement be installed. The material is considered friable, and disturbance should be avoided.

Window Glazing Compound

The wooden windows throughout the building are assumed to have an asbestos-containing glazing compound. This material was not able to be sampled without significant damage to the windows, and due to the prevalence of asbestos in glazing compounds, is assumed to contain asbestos. If the windows are replaced, the windows could likely be removed intact as Class IV asbestos work.

2. Asbestos in Dusts

The settled and concealed dusts were examined by an EPA Certified Building Inspector but no samples for asbestos in dusts were authorized for this project. Based on their visual inspection and experience from similar buildings, the inspector determined that the typical settled and concealed dusts are not "asbestos debris" from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM).

3. Lead-Containing Materials

Lead-Testing

EHS-Alaska tested paint and other materials throughout the affected areas of the building using a Heuresis XRF lead paint analyzer. Lead in paints tested varied from a trace amount to 1.88 mg/cm². Lead in other materials tested varied from a trace amount to 25.09 mg/cm². Refer to the Lead Analyzer Test Results Table in Appendix B that identifies the surfaces tested, and the results. The Lead Test Locations are shown in the Drawings in Appendix C.

Paints

There were varying lead contents found in the paints, based on what surfaces they are on, with most surfaces containing little lead (but are still classified as lead-containing materials by OSHA). The highest levels of lead were found on structural members and miscellaneous steel, with lower levels on walls and other painted surfaces, and lowest levels on pre-finished materials.

Lead based paints (paint containing more than 1.0 mg/cm² of lead) were identified in the project on the exterior bollards painted with "Safety Yellow" paint. One steel divider in the basement firing range also tested in the lead-based paint range, however it is likely that the test was influenced by bullet splatter. It is possible that other components which are hidden, concealed, or otherwise not tested may be painted with lead-based paint. Lead was detected at low levels in most of the painted floor, wall and ceiling surfaces. XRF testing is not able to "prove" that "no" lead exists in the paint. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead. However, these paints may not present a hazard to occupants or workers performing renovation or demolition if lead-safe work practices are followed.

Ceramic Wall Tile and Glazing

Relatively high concentrations of lead were found in the glazing of ceramic plumbing fixtures. The glazing of decorative wall tile found the bathroom walls typically had lower lead levels. The concentrations of lead in ceramic glazing compounds should not be compared to lead-based paint criteria, as the glazing is inherently less likely to cause lead to be present in dusts or on surfaces, where it can be ingested. Lead in ceramic tile glazing may not pose a hazard to occupants, or workers performing renovation or demolition if

lead-safe work practices are followed. All ceramic tiles and fixtures in the facility should be assumed to contain lead.

Plastic Components

Relatively low concentrations of lead were found in plastic components, such as “Formica” plastic laminate panels. The concentrations of lead in plastic compounds should not be compared to lead-based paint criteria. Lead in plastic compounds may have surface deterioration and if not cleaned regularly, lead may be present in dusts or on surfaces, where it can be ingested. Lead in plastic compounds may not pose a hazard to occupants, or workers performing renovation or demolition if good work practices are followed.

Metallic Lead in Batteries, Pipe Solder and Flashing

Metallic lead items identified in the building included lead soldering at the lead solder at copper piping, and poured lead sealants at bell and spigot joints of waste and vent piping and lead acid batteries in emergency lights and other battery backup equipment. If removed during renovation or demolition they should be recycled or disposed of as hazardous waste.

Lead Dusts

The settled and concealed dusts were examined but no samples for lead in dusts were authorized for this project. Based on their visual inspection and similar sampling from similar buildings, the inspector also determined that the dusts are likely to have measurable concentrations of lead in the dusts.

4. PCB-Containing Materials

Light Ballasts

Older fluorescent lights typically have PCB-containing ballasts. PCB-containing ballasts in fluorescent lights were banned in 1978, but manufacturers were allowed to use up existing stocks, and lights may have been reused from other facilities. The survey included examination of what were considered to be representative light fixtures, but not all fixtures were able to be accessed. All lights shall be inspected during removal or relocation. Unless ballasts were marked “No PCBs,” they must be assumed to contain PCBs and must be disposed of as a hazardous waste when removed for disposal. Fluorescent light fixtures with PCB-containing ballasts were found at what appeared to be original circular fluorescent lights, typically found in closets or bathrooms in the building. Those fixtures were **not** marked “No PCBs” but due to the age of the building, may not actually contain PCB’s. It is recommended that the manufacturer of the ballasts be contacted to determine if the ballasts actually contain PCB’s. The fate of the fluorescent light fixtures will be determined by future designs.

Older HID lights may have PCB-containing ballasts. Due to height restrictions and sealed ballast enclosures, the HID fixtures were not able to be accessed. All HID lights shall be inspected during removal or relocation. If ballasts are not marked “No PCBs,” we suggest contacting the manufacturer of the lights to determine if the ballasts contain PCB’s, or assume that they contain PCB’s and be disposed of as a hazardous waste. The fate of the HID light fixtures will be determined by future designs.

Bulk Products

Some older paints, sealants and other building materials may contain measurable amounts of PCB’s. PCB use in paints and sealants was supposed to have been discontinued in 1979. The EPA does not require the sampling of bulk products, and no sampling of “Bulk Products” were authorized for this project.

5. Mercury-Containing Materials

Fluorescent Lamps

Fluorescent lamps use mercury to excite the phosphor crystals that coat the inside of the lamp. These lamps contain from 15 to 48 milligrams of mercury depending on their age and manufacturer. The fate of the fluorescent light fixtures will be determined by future designs.

Thermostats

Older thermostats or other electrical switches that may contain mercury may be present in the building.

High Intensity Discharge Lamps

High Intensity Discharge (HID) lamps use mercury and sodium vapors in the lamp, and also typically have lead-containing solders at the bases. These lamps contain varying amounts of mercury depending on their age and manufacturer. The fate of the HID light fixtures will be determined by future designs.

All mercury-containing items being removed by this project are required to be disposed of as hazardous waste or recycled.

6. Other Hazardous Materials

Smoke Detectors

Several radioactive smoke detectors were found in the Building. If any radioactive items are removed by this project, they are required be disposed of as hazardous waste or recycled.

Soil Contamination

The scope of work for EHS-Alaska, Inc. did not include investigation of soils for petroleum or other contaminations.

Refrigerants

Refrigerators, freezers, ice machines, and water coolers were identified in the building that may contain ozone depleting refrigerants. Air conditioning units are also present. Ozone depleting substances (ODS) are regulated by the EPA and must be removed by certified technicians prior to equipment disposal.

Heat Transfer Fluids

The existing heating and cooling system is assumed to contain heat transfer fluids, including glycol or other boiler treatment chemicals. Any heat transfer fluids removed from the heating system shall be recovered and properly disposed of or recycled. The heating and cooling system may be disturbed by future projects.

E. REGULATORY CONSTRAINTS

1. Asbestos-Containing Materials

The Federal Occupational Safety and Health Administration (29 CFR 1926.1101) and the State of Alaska Department of Labor (8 AAC 61) have promulgated regulations requiring testing for airborne asbestos fibers; setting allowable exposure limits for workers potentially exposed to airborne asbestos fibers; establishing contamination controls, work practices, and medical surveillance; and setting worker certification and protection requirements. These regulations apply to all workplace activities involving asbestos-containing materials. Future renovations will need to determine if asbestos-containing materials will need to be disturbed by those future projects.

The EPA regulations, issued as Title 40 of the Code of Federal Regulations, Part 61 (40 CFR 61), Subpart M under the National Emission Standards for Hazardous Air Pollutants (NESHAP), established procedures for handling ACM during asbestos removal and waste disposal. It is recommended that clearance sampling which complies with the EPA's Asbestos Hazard Emergency Response Act (AHERA) protocol be required following removal of asbestos-containing materials to document that the asbestos has been properly removed.

The EPA regulations require an owner (or the owner's contractor) to notify the EPA of asbestos removal operations and to establish responsibility for the removal, transportation, and disposal of asbestos-containing materials.

The disposal of asbestos waste is regulated by the EPA, the Alaska Department of Environmental Conservation, and the disposal site operator. Wastes being transported to the disposal site must be sealed in leak tight containers prior to disposal and must be accompanied by disposal permits and waste manifests.

2. Dusts with Asbestos

Settled and concealed dusts above ceilings, and at other areas that are not routinely cleaned (such as inside ducts and at roofs, etc.) are assumed to have measurable concentrations of asbestos. Based on sampling of similar settled and concealed dusts at similar buildings, those dusts are assumed to contain less than 1 percent asbestos. Normal settled and concealed dusts are distinct and treated differently from debris resulting from damaged asbestos-containing materials.

Background levels of asbestos in dusts for a particular location will depend on many factors, including whether or not asbestos occurs naturally in soils in the area.

Likely sources of asbestos in dusts include natural occurrences of asbestos

The types of asbestos found in settled and concealed dusts often contain actinolite, anthophyllite and tremolite forms of asbestos which are not commonly found in bulk samples taken of materials from buildings. Those forms of asbestos may come from natural occurrences of asbestos in an outside source, such as rock or ore deposits, which appear to be common in Alaska.

Because the type of disturbance, concentration of asbestos in the dusts, cohesiveness of the dusts and room sizes will change, the airborne asbestos levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of asbestos in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard". All dusts will likely be required to be removed from the areas where asbestos-containing materials are being removed (abatement areas) in order to achieve clearances. The dusts in the other areas are to be controlled so as to limit worker exposures and prevent contamination of occupied areas of the building.

There is no established correlation between settled or adhered dusts with measurable concentrations of asbestos and airborne concentrations. The definition in the OSHA regulations of asbestos-containing materials as those materials that contain 1 percent or more asbestos by weight, apply to cohesive materials and not to dusts. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

3. Lead-Containing Materials

The EPA Standard 40 CFR 745, Lead-Based Paint Poisoning Prevention in Certain Residential Structures, defines lead-based paint hazards and regulates lead based paint activities in target housing and child-occupied facilities. The requirements of this regulation include training certification, pre-work notifications, work practice standards and record keeping. Areas typically classified as child occupied facilities may include but are not limited to: day care facilities, preschools, kindergarten classrooms, restrooms, multipurpose rooms, cafeterias, gyms, libraries and other areas routinely used by children under 6 years of age. Training requirements for Firms (Contractors) and Renovators (Workers) became effective on April 22, 2010. The building is not classified as a child occupied facility, therefore the requirements of 40 CFR 745 do not apply.

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead. The disturbance of any surfaces painted with lead-containing paint requires lead-trained personnel, personnel protective procedures, and air monitoring until exposure levels can be determined. If initial monitoring verifies that the work practices being used are not exposing workers, monitoring and protection procedures may be relaxed. Experience has shown that some paints in most buildings will contain low concentrations of lead and disturbance of those paints are still regulated under the OSHA lead standard, 29 CFR 1926.62. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead, and OSHA regulations apply anytime measurable amounts of lead are present in paints.

Settled and concealed dust above ceilings, and at other areas that are not routinely cleaned are assumed to have measurable concentrations of lead. Background levels of lead in dusts for a particular location will depend on many factors, including whether or not engines utilizing leaded gasoline were run in or near a building, and upon the age of the building, and thus the age of the dusts. Because the type of disturbance, quantity of lead dusts, cohesiveness of the dusts and room sizes will change, the airborne lead levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of lead in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard".

There is no established correlation between settled or adhered lead dust concentrations and airborne concentrations. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

The EPA requires that actual construction or demolition debris that contains lead or lead-containing paint or other heavy metals be tested using the TCLP test to determine if the waste must be treated as hazardous waste. All federal, state and local standards regulating lead and lead-containing wastes are required to be followed during the renovation or demolition of portions of this building.

If the TCLP tests done on the waste stream(s) that are produced by the contractor are found to be classified as hazardous wastes, then those waste stream(s) will have to be packaged for shipping and disposal in accordance with hazardous waste and transportation regulations. Because there are no hazardous waste landfills in Alaska, this report assumes that disposal will take place in Seattle or elsewhere in the Pacific Northwest.

4. PCB-Containing Materials

The EPA has promulgated regulations (40 CFR Part 761) that cover the proper handling and disposal of PCB-containing materials. PCB-containing equipment was found by this survey, and any removed PCB-containing equipment is required to be disposed of at fully permitted hazardous waste facilities. The EPA regulates liquid PCBs differently from non-liquid materials. Workers who remove or handle PCB-containing or PCB-contaminated materials or who transport or dispose of PCB wastes must be trained and certified in hazardous waste operations and emergency response (HAZWOPER) as required by 29 CFR 1910.120 and the State of Alaska Department of Labor (8 AAC 61). The Department of Transportation under 49 CFR Parts 100-199 regulates the marking, packaging, handling and transportation of hazardous materials. All federal, state and local standards regulating PCBs and PCB waste must be followed during this project.

5. Mercury-Containing Materials

Thermostats and mercury-containing lamps are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273. Mercury and mercury-containing products are considered hazardous waste if TCLP testing of the waste for mercury confirms the mercury content to be greater than the EPA criteria of 0.2 mg/l.

6. Other Hazardous Materials

Refrigerants

Refrigerators, freezers, ice machines, and water coolers were present. Air conditioning systems were also present in the building. Typically, refrigeration and air conditioning systems with ODS shall be maintained in order to prevent discharge of ODS. Systems that are to be removed, or dismantled shall have refrigerants containing ODS recovered and disposed of or recycled in accordance with 40 CFR 82.

Chemical Hazards

The EPA has promulgated regulations (40 CFR Parts 260 to 299 amongst others) that cover the proper handling and disposal of waste chemicals, including listed wastes, which are ignitable, corrosive, reactive, toxic, or an acute hazardous waste or wastes that exhibit the characteristics of toxicity. All construction workers who are required to remove or handle chemical hazards or to transport or dispose of chemical

wastes shall be trained and certified as required by the U.S. Department of Labor (29 CFR 1910.120) and the State of Alaska Department of Labor (8 AAC 61). Transportation of chemical hazards are regulated by Department of Transportation regulations under 49 CFR Parts 171 to 178 amongst others.

Waste heat transfer fluids (such as used heating/cooling system glycol or other circulating heating/cooling fluids) are a potentially hazardous waste and are required to be TCLP tested prior to disposal to determine if the fluids are classified as hazardous or non-hazardous waste per the EPA's RCRA regulations governing hazardous wastes. According to a study performed by the University of Northern Iowa, standard TCLP analysis using ICP SW 6010 testing procedures commonly report levels of Arsenic and Selenium over regulatory thresholds due to interferences in the matrix. That report concluded that additional analysis should be performed to refute the presence of Arsenic or Selenium over the regulatory levels by either mass spectrometry using method SW 6020, or by graphite furnace using method SW 7060. Some heat transfer fluids may also contain potentially hazardous additives that modify the properties of the fluids for use in a particular system. It is recommended that the contractor consult with the persons responsible for maintaining the system to determine if any additives that may be potentially hazardous were used in the system to further determine disposal requirements.

Radioactive Materials

Smoke detectors were present in the project area that may contain a radioactive material. If the detectors are of the ionization type they typically contain a small amount of Americium. If removed during renovation, the detectors should be returned to the owner for reuse or returned to the manufacturer for disposal or recycling. There are no licensed disposal facilities for radioactive wastes in Alaska.

F. RECOMMENDATIONS

Disposal of hazardous materials is often difficult and expensive in Rural Alaska. It is possible to obtain a one-time permit to dispose of non-friable, non-RACM asbestos materials from the Alaska Department of Environmental Conservation, however that process is neither fast nor inexpensive, and is highly dependent on getting permission for an asbestos monofill from a landowner, and may not be financially feasible at many locations. Because Wrangell receives barge services, it is likely to be less expensive to barge out asbestos materials. Lead-containing materials, if they are not also asbestos-containing materials are often possible to dispose of locally, but in general, painted materials, with lead at measurable concentrations, are not allowed to be burned. Lead-containing materials which have been classified as hazardous waste, and chemical hazards are required to be disposed of at permitted landfills, which will require air freight or barge for disposal.

1. Asbestos-Containing Materials

The asbestos-containing materials identified in the building are typically in intact condition and are classified as non-friable ACM. All asbestos-containing materials that will be disturbed by the planned renovation work are required to be removed by trained asbestos workers.

2. Dusts with Asbestos

Dusts with measurable concentrations of asbestos are assumed to be present, but are not classified as asbestos-containing materials, or as debris from asbestos-containing materials. Workers disturbing dusts are required to have hazard communication training in accordance with OSHA regulations, but are not required to receive 40 hours of training, which is required for asbestos workers. The contractor will need to choose means and methods to control worker exposures to airborne contaminants. At least an initial exposure assessment or data from previous air monitoring is needed to show that worker exposures are maintained below the OSHA permissible exposure limits (PELs).

3. Lead-Containing Materials

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead, including disturbance of paints with low concentrations of lead.

Worker exposure to lead may be able to be controlled below the OSHA permissible exposure limit if proper engineering controls and procedures are used during renovation. Lead is a potentially hazardous waste and the EPA requires that all wastes that contains lead be tested to determine if they must be treated as hazardous waste. A TCLP test of the waste stream(s) produced by the Contractor's means and methods are required to be performed to determine if those wastes will be classified as hazardous or non-hazardous.

4. PCB-Containing Materials

If any PCB-containing ballasts are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

5. Mercury-Containing Materials

If any mercury-containing materials are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations. If mercury-containing lamps and thermostats are handled and disposed of in accordance with the Universal Waste Regulations, no TCLP test is required. If the Contractor chooses to perform a TCLP test of fluorescent lamps, the test shall be conducted in accordance with the requirements of ANSI/NEMA Standard Procedure for Fluorescent Lamp Sample Preparation and Toxicity Characteristic Leaching Procedure, C78.LL 1256-2003 or latest version.

6. Other Hazardous Materials

If any radioactive materials are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any ODS are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any hydraulic fluids are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any heat transfer fluids are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

G. LIMITATIONS

The conclusions and recommendations contained in this report are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted environmental consulting and engineering standards and practices and are subject to the following inherent limitations:

1. Accuracy of Information

The laboratory reports utilized in this assessment were provided by the accredited laboratories cited in this report. Although the conclusions, opinions, and recommendations are based in part, on such information, our services did not include the verification of accuracy or authenticity of such reports. Should such information provided be found to be inaccurate or unreliable, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

2. Site Conditions

The intent of this survey was to identify common hazardous materials that may be disturbed during routine maintenance or renovations. This survey is not intended to be utilized as the sole design document for abatement. This survey was conducted while the site was occupied. All inspections were performed with furniture, equipment and/or stored items in place. The scope of work for this survey did not include identification of all potentially hazardous materials that may be present at this site, and was limited to the scope of work agreed upon with our client. Although a concerted effort was made to identify those common hazardous materials likely to be affected by this project, some hazardous materials may have been hidden by furniture, equipment or stored items and may not have been identified. The survey investigated representative materials and items, such as lights and mechanical components. Variations may occur between materials and items that appear to be the same, but are actually of different construction or materials. Other asbestos-containing or potentially hazardous materials may be present in the facilities that were concealed by structural members, walls, ceilings or floor coverings, or in materials where testing was not conducted.

3. Changing Regulatory Constraints

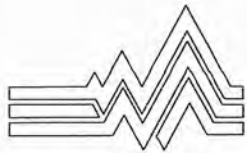
The regulations concerning hazardous materials are constantly changing, including the interpretations of the regulations by the local and national regulating agencies. Should the regulations or their interpretation be changed from our current understanding, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

APPENDIX A

Asbestos Bulk Sample Field Survey Data Sheets and Laboratory Reports

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CHAIN OF CUSTODY RECORD

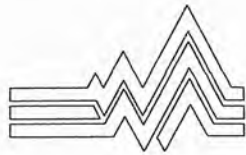
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COLLECTED BY (signature) PRINTED NAME Robert A. French CERT# / AHERA# 1564 88IMP-0028 SHIPPING METHOD Fed Ex 7716 1864 9898 COURIER (signature) Sept 28, 2020, 2 pm DATE/TIME		IATL -SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME SEP 29 2020 ANALYST'S SIGNATURE DATE	SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. <i>90 Asbestos</i>
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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WPS920-A01 7068756	Joint compound; with gypsum wall board	Rm 218, waiting area at gypsum wall board ceiling above drop-down ceiling. Photo R112	<i>None Detected both layers</i>
WPS920-A02 7068757	LCT-1, 2'x2' drop bevel deep directional fissures lay-in ceiling tile	Rm 218, above waiting area. Photo R118	<i>None Detected</i>
WPS920-A03 7068758	LCT-2, 2'x2' drop bevel few directional fissures lay-in ceiling tile	Rm 218, above waiting area. Photo R118	<i>None Detected</i>
WPS920-A04 7068753	Yellow duct insulation mastic	Rm 218, waiting area above drop-down ceiling. Photo R117	<i>None Detected</i>
WPS920-A05 7068760	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic	Rm 218, waiting area at base of the east wall. Photo R121	<i>None Detected both layers</i>
WPS920-A06 7068761	Joint compound	Rm 218, southeast corner of room on nail at corner joint above drop-down ceiling. Photo R122	<i>None Detected</i>
WPS920-A07 7068762	Dark brown mastic on TJI Wood Truss	Rm 218, on TJI's in center of room above drop-down ceiling. Photo R135	<i>None Detected</i>
WPS920-A08 7068763	Brown carpet mastic	South side of the open space between Rm 218 and Rm 219. Photo R139	<i>None Detected</i>
WPS920-A09 7068764	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic; with joint compound and gypsum wall board	Rm 224, base of southeast corner. Photo R171	<i>None Detected 4 layers</i>

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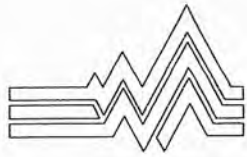
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WPS920-A10 7068765	Black sink undercoating	Rm 227, at stainless steel sink. Photo R207	None Detected
WPS920-A11 7068766	SV-1, Sheet Vinyl, 1/4" blue and grey chip; with yellow mastic; with clear threshold mastic	Rm 226, at threshold to Rm 227. Photo B29	None Detected 3 layers
WPS920-A12 7068767	"Marlite"	Rm 226, Plumbing access on wall between sink and toilet. Photo B30	None Detected
WPS920-A13 7068768	Yellow "Marlite" mastic	Rm 242, On north wall west of door frame. Photo R245	None Detected
WPS920-A14 7068769	CB-1, Cove base 4" grey; with dark brown mastic; with newer cream mastic	Rm 241, at base of southeast corner. Photo B33	None Detected both layers
WPS920-A15 7068770	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 244, Behind mini fridge where back of cabinet meets the wall. Photo B32	None Detected both layers
WPS920-A16 7068771	Black sink undercoating	Rm 244, at stainless steel sink. Photo B31	None Detected
WPS920-A17 7068772	Brown carpet mastic	Rm 241, Just inside the doorway at north side of the room. Photo B34	None Detected
WPS920-A18 7068773	Gypsum wall board; with joint compound	Rm 246, at northwest corner of room above drop-down ceiling line. Photo R268	None Detected 4 layers
WPS920-A19 7068774	LCT-1, 2'x2' drop bevel, deep directional fissures lay-in ceiling tile	Rm 246, at northwest corner of room. Photo R259	None Detected
WPS920-A20 7068775	CB-2, Cove base 4" black; with dark brown mastic	Rm 246, at west wall, south of door frame. Photo R270	None Detected both layers
WPS920-A21 7068776	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 246, at west wall, south of door frame. Photo R270	None Detected both layers
WPS920-A22 7068777	LCT-2, 2'x2' drop bevel, few directional fissures lay-in ceiling tile	Rm 227, near the center of the room. Photo R271	None Detected
WPS920-A23 7068778	Joint compound	Rm 227, southwest corner on courtroom side of door above drop-down ceiling. Photo B35	None Detected



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WPS920-A24 7068779	Light blue wall carpet mastic	Rm 227, at back of closet near top of wall. Photo B36	None Detected
WPS920-A25 7068780	CB-2, Cove base 4" black; with dark brown mastic	Corridor 231, at corner of wall by door to Corridor 229. Photo B40	None Detected both layers
WPS920-A26 7068781	Brown carpet mastic	Corridor 231, at transition to room 238. Photo B41	None Detected
WPS920-A27 7068782	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Corridor 231, at transition to room 238. Photo B24	None Detected both layers
WPS920-A28 7068783	White mastic for 5" blue carpet cove base (CB-3); with yellow mastic; with brown mastic	Rm 232, at base of wall south the north door frame. Photo B43	None Detected 3 layers
WPS920-A29 7068784	Joint compound; with gypsum wall board	Rm 232, at northside of room above ceiling tile, above southernmost window, of the set of 3 windows. Photo R379	None Detected 3 layers
WPS920-A30 7068785	Joint compound; with gypsum wall board	Rm 232, at northside of room above ceiling tile on ceiling soffit, above the middle of the three windows. Photo R380	None Detected both layers
WPS920-A31 7068786	LCT-1, 2'x2' drop bevel, deep directional fissures lay-in ceiling tile	Rm 232, at center of northside of room. Photo R381	None Detected
WPS920-A32 7068787	Brown carpet mastic w/ gray cementitious mat	Rm 232, in doorway to south section of room. Photo B44	None Detected both layers
WPS920-A33 7068788	CB-4, Cove base 4" soft black; with skim coat	Rm 232, at base of wall, south side of door in south room addition. Photo R391, R392	None Detected both layers
WPS920-A34 7068789	CB-4, Cove base 4" soft black; with yellow mastic; with skim coat	Rm 232, at base of wall, south side of door in south room addition. Photo R391, R392	None Detected 3 layers
WPS920-A35 7068790	Black sink undercoating	Rm 217, Bottom side of stainless-steel drinking fountain. Photo B45	0.75% Chrysotile
WPS920-A36 7068791	Yellow duct insulation mastic	North side of Hallway 216 in center above ceiling tile. Photo R393	None Detected
WPS920-A37 7068792	Gypsum wall board; with joint compound	North side of Hallway 216 at west wall above ceiling tile. Photo R394	None Detected 4 layers



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WPS920-A38 7068793	LCT-2, 2'x2' drop bevel, few directional fissures lay-in ceiling tile	North side of Hallway 216. Photo R395	<i>None Detected</i>
WPS920-A39 7068794	Black grout for ceramic wall tile	Rm 223, at plumbing access on wall under sink. Photo B46	<i>None Detected</i>
WPS920-A40 7068795	Tan mastic for ceramic wall tile	Rm 223, at plumbing access on wall under sink. Photo B46	<i>None Detected</i>
WPS920-A41 7068796	White cloth-like lagging at valve	Rm 223, at plumbing access, east side of toilet on valve. Photo B47	<i>None Detected both layers</i>
WPS920-A42 7068797	SV-2, Sheet vinyl, light brown rock pattern; with light tan mastic; with grey leveling compound or concrete	Rm 234, at transition strip in doorway. Photo R403, R404	<i>None Detected 3 layers</i>
WPS920-A43 7068798	Dark brown carpet mastic, with grey leveling compound or concrete	Rm 234, at transition strip in doorway. Photo R403, R404	<i>None Detected both layers</i>
WPS920-A44 7068799	Dark brown mastic for missing cove base (CB-5)	Rm 234, at base of shelving unit. Photo R405, R406	<i>None Detected</i>
WPS920-A45 7068800	White mastic for fiberglass reinforced plastic wall panel; with joint compound	RM 234, at northwest corner between door frame and west wall. Photo R408	<i>None Detected both layers</i>
WPS920-A46 7068801	Gypsum wall board; with joint compound	RM 234, at northwest corner between door frame and west wall. Photo R407	<i>None Detected 3 layers</i>
WPS920-A47 7068802	White "hard fitting" insulation	Rm 222, above ceiling access at middle of room. Photo R433	<i>None Detected</i>
WPS920-A48 7068803	Black stair stringer; with dark brown mastic <i>and joint compound</i>	Stairway 213, at base of south wall near top of stairs. Photo R475	<i>None Detected 3 layers</i>
WPS920-A49 7068804	Black stair tread mastic	Stairway 213, at base of south wall near top of stairs. Photo R475	<i>None Detected</i>
WPS920-A50 7068805	Black stair tread	Stairway 213, at base of south wall near top of stairs. Photo R475	<i>None Detected</i>
WPS920-A51 7068806	Brown carpet mastic; with grey leveling compound	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	<i>None Detected both layers</i>



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WPS920-A52 7068807	FT-2, Floor tile, 12"x12" blue with light grey; with black mastic	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	None Detected both layers
WPS920-A53 7068808	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Stairway 214, at transition strip in doorway at bottom of stairs. Photo R479	None Detected 3 layers
WPS920-A54 7068809	Black stair tread; with black mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected both layers
WPS920-A55 7068810	Black stair stringer; with brown mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected both layers
WPS920-A56 7068811	Black stair kick plate; with brown mastic	Stairway 214, at base of south wall, near bottom of stairs. Photo R480	None Detected both layers
WPS920-A57 7068812	Black and tarry lining for ceiling-mounted speaker box	Rm 200, Northeast side of room. Photo R902, R903	4.3% chrysotile
WPS920-A58 7068813	Gypsum wall board; with joint compound; with dark brown cove base mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected 4 layers
WPS920-A59 7068814	Yellow carpet mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected
WPS920-A60 7068815	CB-2, Cove base 4" black; with dark brown mastic	Rm 203, southwest corner, at base of wall behind door. Photo R904	None Detected both layers
WPS920-A61 7068816	FT-2, Floor tile, 12"x12" blue with light grey; with black mastic	Rm 200, at floor transition strip to kitchen area. Photo R905, R906	None Detected 3 layers
WPS920-A62 7068817	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Rm 200, at floor transition strip to kitchen area. Photo R905, R906	None Detected 3 layers
WPS920-A63 7068818	Yellow carpet mastic	Rm 200, at floor transition strip to kitchen area. Photo R906	None Detected
WPS920-A64 7068819	White sealant at base of wall to blue painted wood trim	Stairwell 236, top of stairs at base of north wall. Photo B52	None Detected
WPS920-A65 7068820	SV-1, Sheet vinyl 1/4" blue and grey chip; with yellow mastic	Rm 206, at transition strip into Rm 200. Photo B136	None Detected both layers



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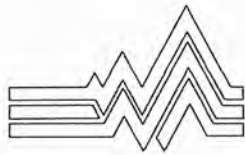
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WPS920-A66 7068821	FT-1, Floor tile 12"x12" grey with light grey and dark grey smears; with black mastic	Rm 201, southwest corner, at base door frame. Photo R912	None Detected both layers
WPS920-A67 7068822	Black and tarry lining for ceiling-mounted speaker box	Rm 203, in middle of room. Photo R921, R922	2.1% Chrysotile
WPS920-A68 7068823	Yellow "Marlite" mastic	Rm 206, at base of east wall, north of door frame. Photo R928, B137	None Detected
WPS920-A69 7068824	Black sink undercoating	Rm 200, under stainless steel sink in kitchen area. Photo R923	None Detected
WPS920-A70 7068825	LCT-2, 2'x2' drop bevel few directional fissures lay-in ceiling tile	Rm 235, east side of room. Photo R942	None Detected
WPS920-A71 7068826	Dark brown roof drain putty	Roof drain at far east side of east flat roof. Photo R963	None Detected
WPS920-A72 7068827	Dark brown roof membrane	Roof drain at far east side of east flat roof. Photo R963	None Detected
WPS920-A73 7068828	Black tar paper	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A74 7068829	White coping cap sealant	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A75 7068830	Black rubber membrane	Under coping cap at top of wall at east edge of east flat roof. Photo R965	None Detected
WPS920-A76 7068831	White reglet sealant	East flat roof at reglet lap joint north of air intake louver. Photo R967	None Detected
WPS920-A77 7068832	Grey sealant around roof scupper	East flat roof scupper at top of east wall. Photo R970	None Detected
WPS920-A78 7068833	Exterior door flashing sealant	Flashing above exterior side of east roof access door. Photo B138	None Detected
WPS920-A79 7068834	Black neoprene flex connector for ducting	Rm M300, center section mechanical room connecting two rigid ducts. Photo B139	None Detected



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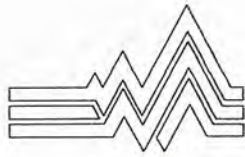
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PROJECT NO: 7795	PROJECT NAME: Wrangell Public Safety Building	FACILITY: Wrangell Public Safety Building	COLLECTION DATE: 09-14-2020
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FIELD SURVEY DATA

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WPS920-A80 7068835	White chalky insulation with cloth jacket	Rm M300, at coil in north central section of mechanical room. R988	None Detected
WPS920-A81 7068836	Black neoprene flex connector for ducting	Rm M300, north central section of mechanical room connecting two rigid ducts. B140	None Detected
WPS920-A82 7068837	White chalky insulation with cloth jacket	Rm M300, at coil next to the middle of north wall of mechanical room. R989, R190	None Detected both layers
WPS920-A83 7068838	White chalky insulation with cloth jacket	Rm M300, at coil next to middle of west wall of mechanical room. R995	None Detected
WPS920-A84 7068839	White duct insulation jacket with possible chalky insulation	Rm M300, Vertical portion of Outside Air duct at center area of mechanical room. Photo B141	None Detected
WPS920-A85 7068840	Gypsum wall board; with joint compound	Rm M300, at corner of west wall just above horizontal metal conduit. Photo B142	None Detected both layers
WPS920-A86 7068841	Black tar paper	Under cedar siding at northeast corner of the west flat roof. Photo R999, R1005	None Detected
WPS920-A87 7068842	Dark brown roof drain putty	At clamping ring in roof drain located on the far west side of the west flat roof. Photo R997	None Detected
WPS920-A88 7068843	Clear coping cap sealant	Coping cap at top of wall located at the west edge of the west flat roof. Photo R998	None Detected
WPS920-A89 7068844	Grey reglet sealant	At the reglet where it meets the access door to the west flat roof. Photo R1004	None Detected
WPS920-A90 7068845	Light grey door frame sealant	Between door frame to access door to west flat roof and wood siding. Photo B143	None Detected
WPS920-A91 7068846	Gypsum board exterior sheathing	Under cedar siding at northeast corner of the west flat roof. Photo R1005	None Detected
WPS920-A92 7068847	Red rubbery sealant on boiler exhaust	At stacks in the center of top level flat roof. Photo R1012, R1028	None Detected
WPS920-A93 7068848	Tarry dark brown cork-like refrigeration pipe wrap	Rm M300, East side of mechanical room close to east flat roof access door. Photo R1044	None Detected



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WPS920-A94 7068849	Light green sealant/coating for sound lining	Rm M300, northeast side of mechanical room at sound lining of air hatch. Photo R1046	None Detected
WPS920-A95 7068850	Light green sealant/coating; with sound lining facing	Rm M300, northeast side of mechanical room in outside air intake. Photo R1050	None Detected both layers
WPS920-A96 7068851	Black sound lining inside "bowl" speaker	Rm 100, speaker located above the south bay row. Photo R1130, R1131, R1132	2.4% Chrysotile
WPS920-A97 7068852	White "Marlite"; with yellow "Marlite" mastic; with yellow sheet vinyl mastic	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected both layers
WPS920-A98 7068853	SV-1, Sheet vinyl 1/4" blue and grey chip	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected
WPS920-A99 7068854	White hard chalky material to support self-cove sheet vinyl (likely "Fix-All")	Rm 104, base of wall at southeast corner of bathroom. Photo R1184	None Detected
WPS920-A100 7068855	Gypsum wall board; with joint compound	Rm 100, hose house at top of ladder on west side of bay. Photo R1146	None Detected both layers
WPS920-A101 7068856	Black grout for quarry tile	Rm 112, west corner of planter box in 1 st floor lobby. Photo B145	None Detected
WPS920-A102 7068857	Black grout for quarry tile	Rm 112, at base of east wall on south side of lobby where bench mount meets the wall. Photo B146	None Detected
WPS920-A103 7068858	Tan mastic for walk-off mat	Rm 113, floor at base of north wall, east side of door to room 112. Photo B147	None Detected
WPS920-A104 7068859	CB-2, Cove base 4" black; with cream mastic	Rm 113, at base of south wall under window to dispatch. Photo B148	None Detected both layers
WPS920-A105 7068860	Black floor tile mastic	Rm B107, at floor in front of sink. Photo R1242	1.3% Chrysotile
WPS920-A106 7068861	FT-3, Floor tile 12"x12" cream with white and grey; with black mastic	Rm B107, at floor north of sink. Photo R1243 <i>(in sufficient mastic)</i>	None Detected
WPS920-A107 7068862	FT-4, Floor tile 12"x12" blue with white and grey	Rm B107, at floor in front of sink. Photo R1242	None Detected both layers



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WPS920-A108 7068863	Gypsum wall board; with joint compound	Rm B104, above drop-down ceiling at southeast corner where the room meets the hallway. Photo R1244	None Detected both layers
WPS920-A109 7068864	Grey fuzzy, crumbly fireproofing	Rm B104, on beam above drop-down ceiling. Photo R1251	None Detected
WPS920-A110 7068865	White harder fireproofing patch	Rm B104, close to south wall on beam above drop-down ceiling. Photo R1251	None Detected
WPS920-A111 7068866	LCT-3, same as LCT-1 but from Phase 1.	Rm B104, at southeast corner where the room meets the hallway. Photo R1244	None Detected
WPS920-A112 7068867	Grey fuzzy, crumbly fireproofing	On beam above ceiling at south side of hallway attached to Rm B104. Photo R1254	None Detected
WPS920-A113 7068868	LCT-4, 2'x2' drop bevel, smooth face lay-in ceiling tile	Above ceiling at south side of hallway attached to Rm B104. Photo R1253	None Detected
WPS920-A114 7068869	Dark grey concrete "sacking"	Above ceiling on east wall, at south side of hallway attached to Rm B104. Photo R1255	None Detected
WPS920-A115 7068870	Grey fuzzy, crumbly fireproofing	Loose above west side of Rm B105, accessed by mechanical Rm B102. Photo B149	None Detected
WPS920-A116 7068871	Joint compound	Rm B102, at top of wall above interior doorway to room. Photo B150	None Detected
WPS920-A117 7068872	Gypsum wall board	Rm B102, at east wall of northwest corner of room. Taken from a preexisting hole in gwb. Photo B151	None Detected
WPS920-A118 7068873	FT-3, Floor tile 12"x12" cream with white and grey streaks and black mastic	At base of east wall of north hallway attached to Rm B104. Photo R1258	None Detected in Tile 1, 2% chrys in Mastic
WPS920-A119 7068874	FT-4, Floor tile 12"x12" blue with white and grey streaks ; with black mastic	At base of east wall of south hallway attached to Rm B104. Photo R1257	None Detected in Tile 1, 7% chrys in Mastic
WPS920-A120 7068875	CB-6, Cove base black 4" phase 1; with dark brown mastic	At base of east wall of north hallway attached to Rm B104. Taken from a preexisting hole in cove base. Photo B152	None Detected both layers
WPS920-A121 7068876	CB-6, Cove base, black 4" phase 1; with dark brown mastic; with newer cream mastic	Rm B101, at corner of southwest wall behind door. Photo B153	None Detected both layers



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WPS920-A122 7068877	Grey fuzzy, crumbly fireproofing	Rm B101, at bottom of corrugated floor. Photo R1267	None Detected
WPS920-A123 7068878	Light grey harder fireproofing patch	Rm B101, on bottom side of stairs. Photo R1267	None Detected
WPS920-A124 7068879	CB-7, Cove base 4" beige; with brown mastic	Rm B105, at corner of base of south wall. Photo B159	None Detected Three layers
WPS920-A125 7068880	Fire door insulation, brown honeycomb paper; with red glue	Rm B101, top corner at handle side of door. Photo R1278, R1279, R1280	None Detected
WPS920-A126 7068881	White chalky "hard fitting" at heat return pipe.	Rm B102, Heat return pipe at southeast section of room along east wall. Photo R1324	None Detected
WPS920-A127 7068882	White "Mag" at heat return at thermometer	Rm B102, Heat return pipe at thermometer at southeast section of room along east wall. Photo R1324	None Detected
WPS920-A128 7068883	White "Mag" at heat supply to V6-1 coil	Rm B102, Center area of southeast section of room at heat supply to V6-1 coil. Photo R1325	None Detected
WPS920-A129 7068884	White chalky insulation for metal-jacketed generator exhaust	Rm B102, North side of room where pipe crosses overhead from generator room. Photo B160	None Detected
WPS920-A130 7068885	White chalky insulation for metal-jacketed generator exhaust	Rm B102, Bottom side of pipe where it turns vertical into the stack, near southwest corner of Rm B105. Photo B161	None Detected
WPS920-A131 7068886	Grey fuzzy, crumbly fireproofing	Rm B102, North side of room close to south wall of Rm B112. Photo B162	None Detected
WPS920-A132 7068887	White chalky "Mag" for hot water pipe	Rm B102, Top side of hot water pipe running directionally above entry way to mechanical room. Photo B164	None Detected
WPS920-A133 7068888	White chalky "Mag" for hot water pipe	Rm B102, Top side of hot water pipe running directionally above entry way to mechanical room parallel to previous sample. Photo B163	None Detected
WPS920-A134 7068889	White chalky insulation for metal-jacketed generator exhaust	Rm B112, End of muffler section closest to the doorway. Photo R1326	None Detected
WPS920-A135 7068890	White chalky insulation for metal-jacketed generator exhaust	Rm B112, Plug at end of muffler at north side of generator. Photo R1328	None Detected



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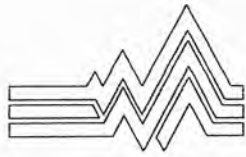
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WPS920-A136 7068891	Light green "Spunstrand" fiberglass; with white paper-like lining	Rm B102, Southwest corner (must walk through air vents) at duct running into concrete slab. Photo B167, R1349	30% Chrysotile
WPS920-A137 7068892	Dark grey "sacking" on concrete wall	Rm B102, Southwest corner (must walk through air vents) at west wall. Photo B166	None Detected both layers
WPS920-A138 7068893	LCT-5, 2'x4' wormy shallow fissures with 1/8" holes lay-in ceiling tile	Rm B108, Ceiling at far west end of shooting range, just south of center. Photo R245	None Detected
WPS920-A139 7068894	GCT-1, 12" x 12", Off-white dense tile; sharp directional fissures with dark brown mastic	Rm B108, East end of shooting range, just north of center. Photo B169	None Detected both layers
WPS920-A140 7068895	GCT-1, 12" x 12", Off-white dense tile; sharp directional fissures with dark brown mastic	Rm B108, East end of shooting range at north wall. Photo B168	None Detected both layers
WPS920-A141 7068896	LCT-5, 2'x4' wormy shallow with 1/8" holes lay-in ceiling tile	Rm B108, halfway to end of shooting range on north side of room. Photo R1374	None Detected
WPS920-A142 7068897	LCT-5, 2'x4' wormy shallow with 1/8" holes lay-in ceiling tile	Rm B108, first row of deflector panels, just north of center. Photo R1375	None Detected
WPS920-A143 7068898	Light grey harder fireproofing patch	Rm B108 halfway down shooting range at south wall on beam between deflector plate rows. Photo R1376	None Detected
WPS920-A144 7068899	Grey fuzzy, crumbly fireproofing	Rm B108 halfway down shooting range at south wall on beam between deflector plate rows. Photo R1376	None Detected
WPS920-A145 7068900	CB-7, Cove base 4" beige; with brown mastic	Rm B113, Northwest corner of firing area at base of wall behind door. Photo B170	None Detected both layers
WPS920-A146 7068901	Gypsum wall board; with joint compound	Rm B113, Southeast corner of firing area above drop-down ceiling where conduit enters wall. Photo R1377, R1378	None Detected both layers
WPS920-A147 7068902	LCT-3, same as LCT-1 but from Phase I.	Rm B113, Southeast corner of firing area at drop-down ceiling. Photo R1377	None Detected
WPS920-A148 7068903	Dark grey "sacking" on concrete	Stairwell B111, at bottom stair on west wall above handrail. Photo R1379	None Detected
WPS920-A149 7068904	Gypsum wall board; with joint compound	Corridor B110, at west end of corridor on ceiling at east side of concrete column. Photo R1387 <i>(lab did not find grab)</i>	None Detected



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WPS920-A150 7068905	LCT-3, same as LCT-1 but from Phase 1.	Rm B113, Just inside north door entrance at ceiling. Photo B171	<i>None Detected</i>
WPS920-A151 7068906	LCT-7, 2'x4' drop bevel, smooth face	Corridor 122, Where corridor opens up into an unnamed room on east at ceiling just above 4-outlet electrical box. Photo R1415	<i>None Detected</i>
WPS920-A152 7068907	LCT-2, 2'x2' drop bevel, few directional fissures lay in ceiling tile	Corridor 122, Where corridor opens up into an unnamed room on east at ceiling just above 4-outlet electrical box. Photo R1415	<i>None Detected</i>
WPS920-A153 7068908	Gypsum wall board; with joint compound	Rm 118. At center of room at duct chase above ceiling. Photo R1418	<i>None Detected 3 layers</i>
WPS920-A154 7068903	Yellow "Marlite" mastic	Rm 116, Northwest corner of room next to door frame. Photo R1425, R1426	<i>None Detected</i>
WPS920-A155 7068910	SV-1, Sheet vinyl 1/4" blue and grey chip	Rm 116, Center of north wall where sheet vinyl bends to self-cove. Photo R1424	<i>None Detected</i>
WPS920-A156 7068911	SV-3, Sheet vinyl light grey, tan, black, pearl, small chip; with brown mastic	Rm 134, At floor transition into kitchen where flooring is breaking apart. Photo R1433	<i>None Detected both layers</i>
WPS920-A157 7068912	Grey sink undercoating	Rm 134, Bottom side of stainless-steel sink in kitchen area. Photo R1447	<i>None Detected</i>
WPS920-A158 7068913	Tan mastic for fiberglass reinforced plastic panel; with joint compound	Rm 134, At GFCI outlet west of sink above countertop. Photo R1448	<i>None Detected both layers</i>
WPS920-A159 7068914	White sink undercoating	Rm 134, Bottom of small sink at west end of kitchen. Photo R1449	<i>None Detected</i>
WPS920-A160 7068915	Black cove base from kitchen remodel <i>with yellow mastic</i>	Rm 134, At toe kick below small sink at west end of kitchen. Photo R1450	<i>None Detected both layers</i>
WPS920-A161 7068916	Gypsum wall board; with joint compound	Rm 130, Southwest of room above ceiling access door where pipes enter wall. Photo R1501	<i>None Detected Three layers</i>
WPS920-A162 7068917	CB-2, Cove base 4" black; with dark brown mastic	Corridor 133, west end of hallway at base of corner where hallway turns north. Photo B194	<i>None Detected Both layers</i>
WPS920-A163 7068918	Green sticky carpet mastic	Rm 127, below carpet just inside doorway. Photo R1512	<i>None Detected</i>



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WPS920-A164 7068919	Exterior tar paper	Outside Rm 127 north of the window, at base of wall behind shiplap siding. Photo B195	None Detected
WPS920-A165 7068920	Exterior tar paper	North side exterior of building outside Bay 100, east of door at base of wall, behind shiplap siding. Photo B196	None Detected
WPS920-A166 7068921	Gypsum board exterior sheathing	North side exterior of building outside Bay 100, east of door at base of wall, behind shiplap siding and tar paper. Photo B196	None Detected
WPS920-A167 7068922	Flexible cream exterior sealant	North side exterior of building outside Bay 100, east of door in corner between wood siding and tar paper. Photo B197, B198	None Detected
WPS920-A168 7068923	Firm black exterior sealant	North side exterior of building outside Bay 100, east of door in corner. Photo B199	None Detected
WPS920-A169 7068924	Black sound lining inside "bowl" speaker	Rm 149, Bowl speaker externally mounted in middle of garage. R1547	5.7% chrysotile
WPS920-A170 7068925	Grey rubbery window frame sealant	North side of far north window outside lobby 112. Photo B200	None Detected
WPS920-A171 7068926	Gypsum board	Center of parking garage at existing ceiling damage. Photo B208, B209	None Detected both layers
WPS920-A172 7068927	Black foam-like window sealant	North side of north window outside Rm 106. Photo B210, B211, B212	None Detected
WPS920-A173 7068928	CB-8, Cove base 4" dark grey; with cream mastic	Rm 209, At base of southeast corner behind door. Photo B213	None Detected both layers
WPS920-A174 7068929	Grey fuzzy, crumbly fireproofing	East side of parking garage above open ceiling access on beam. Photo B216	None Detected
WPS920-A175 7068930	Grey fuzzy, crumbly fireproofing	East side of parking garage above open ceiling access on beam north of previous sample. Photo B217	None Detected
WPS920-A176 7068931	Grey "sacking" on concrete	Southwest side of parking garage on south wall at bottom right of large air intake louver. Photo B218	None Detected
WPS920-A177 7068932	White outer coating with cloth to pipe vapor insulation	Rm M300, East side of mechanical room close to east flat roof access door. Photo R0144	None Detected both layers



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WPS920-A178 7068933	LCT-6, 2'x4' galaxy lay-in ceiling tile	Rm B108, Southwest end of shooting range on second to last row of deflector plates. Photo R1373	None Detected
WPS920-A179 7068934	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, West side of room on high ceiling at air duct grill. Photo R1373	None Detected both layers
WPS920-A180 7068935	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, West side of room on high ceiling at air duct grill. Photo R1373	None Detected both layers
WPS920-A181 7068936	12" x 12" Glued-on heavy fissured concealed grid ceiling tile; with dark brown mastic	Rm 228, North side of high ceiling at preexisting circular hole. Photo R1373	None Detected both layers
	END		

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068756 Client No.: WPS920-A01	Analyst Observation: White/Brown Drywall Client Description: Joint Compound; With Gypsum Wall Board	Location: Rm 218, Waiting Area At Gypsum Wall Board Ceiling Above Drop-Down Ceiling Facility: Percent Non-Fibrous Material: 87
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 12 Cellulose 1 Fibrous Glass	

Lab No.: 7068756(L2) Client No.: WPS920-A01	Analyst Observation: White Joint Compound Client Description: Joint Compound; With Gypsum Wall Board	Location: Rm 218, Waiting Area At Gypsum Wall Board Ceiling Above Drop-Down Ceiling Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7068757 Client No.: WPS920-A02	Analyst Observation: White Ceiling Tile Client Description: LCT-1, 2'X2' Drop Bevel Deep Directional Fissures Lay-In Ceiling Tile	Location: Rm 218, Above Waiting Area Facility: Percent Non-Fibrous Material: 20
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	

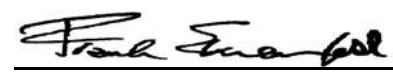
Lab No.: 7068758 Client No.: WPS920-A03	Analyst Observation: White Ceiling Tile Client Description: LCT-2, 2'X2' Drop Bevel Few Directional Fissures Lay-In Ceiling Tile	Location: Rm 218, Above Waiting Area Facility: Percent Non-Fibrous Material: 25
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 75 Mineral Wool	

Note: Insufficient mastic provided for analysis.

Lab No.: 7068759 Client No.: WPS920-A04	Analyst Observation: Yellow Mastic/Fibrous Client Description: Yellow Duct Insulation Mastic	Location: Rm 218, Waiting Area Above Drop-Down Ceiling Facility: Percent Non-Fibrous Material: 85
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Mineral Wool	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

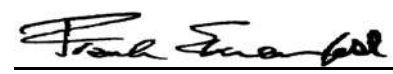
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068760 Client No.: WPS920-A05	Analyst Observation: Grey Cove Base Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic	Location: Rm 218, Waiting Area At Base Of The East Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068760(L2) Client No.: WPS920-A05	Analyst Observation: Brown/Tan Mastic Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic	Location: Rm 218, Waiting Area At Base Of The East Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068761 Client No.: WPS920-A06	Analyst Observation: White Joint Compound Client Description: Joint Compound	Location: Rm 218, Southeast Corner Of Room On Nail At Corner Joint Above Drop-Down Ceiling Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068762 Client No.: WPS920-A07	Analyst Observation: Dk Brown Mastic Client Description: Dark Brown Mastic On TJI Wood Truss	Location: Rm 218, On TJI's In Center Of Room Above Drop-Down Ceiling Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068763 Client No.: WPS920-A08	Analyst Observation: Brown/Grey Mastic/Leveling Compound Client Description: Brown Carpet Mastic	Location: South Side Of The Open Space Between Rm 218 And Rm 219 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
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Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068764
Client No.: WPS920-A09
Analyst Observation: Grey Cove Base
Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic; With Joint Compound And Gy
Location: Rm 224, Base Of Southeast Corner
Facility:
Percent Asbestos:
None Detected
Percent Non-Asbestos Fibrous Material:
None Detected
Percent Non-Fibrous Material:
100


Lab No.: 7068764(L2)
Client No.: WPS920-A09
Analyst Observation: Brown/Tan Mastic
Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic; With Joint Compound And Gy
Location: Rm 224, Base Of Southeast Corner
Facility:
Percent Asbestos:
None Detected
Percent Non-Asbestos Fibrous Material:
None Detected
Percent Non-Fibrous Material:
100

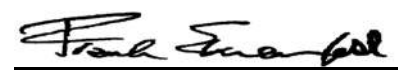
Lab No.: 7068764(L3)
Client No.: WPS920-A09
Analyst Observation: White Joint Compound
Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic; With Joint Compound And Gy
Location: Rm 224, Base Of Southeast Corner
Facility:
Percent Asbestos:
None Detected
Percent Non-Asbestos Fibrous Material:
None Detected
Percent Non-Fibrous Material:
100

Lab No.: 7068764(L4)
Client No.: WPS920-A09
Analyst Observation: White Drywall
Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic; With Joint Compound And Gy
Location: Rm 224, Base Of Southeast Corner
Facility:
Percent Asbestos:
None Detected
Percent Non-Asbestos Fibrous Material:
12 Cellulose
Percent Non-Fibrous Material:
88

Lab No.: 7068765
Client No.: WPS920-A10
Analyst Observation: Black Sink Undercoating
Client Description: Black Sink Undercoating
Location: Rm 227, At Stainless Steel Sink
Facility:
Percent Asbestos:
None Detected
Percent Non-Asbestos Fibrous Material:
None Detected
Percent Non-Fibrous Material:
100

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068766
Client No.: WPS920-A11
Analyst Observation: Grey/Blue Vinyl Sheet Flooring
Client Description: SV-1, Sheet Vinyl, 1/4" Blue And Grey Chip; With Yellow Mastic; With Clear Threshold Mastic
Location: Rm 226, At Threshold To Rm 227
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 10 Fibrous Glass
10 Synthetic
Percent Non-Fibrous Material: 80

Lab No.: 7068766(L2)
Client No.: WPS920-A11
Analyst Observation: Yellow Mastic
Client Description: SV-1, Sheet Vinyl, 1/4" Blue And Grey Chip; With Yellow Mastic; With Clear Threshold Mastic
Location: Rm 226, At Threshold To Rm 227
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100


Lab No.: 7068766(L3)
Client No.: WPS920-A11
Analyst Observation: Clear Mastic
Client Description: SV-1, Sheet Vinyl, 1/4" Blue And Grey Chip; With Yellow Mastic; With Clear Threshold Mastic
Location: Rm 226, At Threshold To Rm 227
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

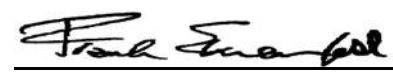
Lab No.: 7068767
Client No.: WPS920-A12
Analyst Observation: White/Brown Wall Tile
Client Description: "Marlite"
Location: Rm 226, Plumbing Access On Wall Between Sink And Toilet
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 90 Cellulose
Percent Non-Fibrous Material: 10

Lab No.: 7068768
Client No.: WPS920-A13
Analyst Observation: Yellow Mastic
Client Description: Yellow "Marlite" Mastic
Location: Rm 242, On North Wall West Of Door Frame
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7068769
Client No.: WPS920-A14
Analyst Observation: Grey Cove Base
Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic
Location: Rm 241, At Base Of Southeast Corner
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068769(L2)	Analyst Observation: Brown/Tan Mastic	Location: Rm 241, At Base Of Southeast Corner
Client No.: WPS920-A14	Client Description: CB-1, Cove Base 4" Grey; With Dark Brown Mastic; With Newer Cream Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068770	Analyst Observation: Grey/Blue Vinyl Sheet Flooring	Location: Rm 244, Behind Mini Fridge Where Back Of Cabinet Meets The Wall
Client No.: WPS920-A15	Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip; With Yellow Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass 10 Synthetic	<u>Percent Non-Fibrous Material:</u> 75


Lab No.: 7068770(L2)	Analyst Observation: Yellow Mastic	Location: Rm 244, Behind Mini Fridge Where Back Of Cabinet Meets The Wall
Client No.: WPS920-A15	Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip; With Yellow Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

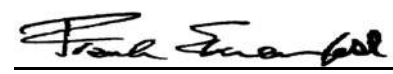
Lab No.: 7068771	Analyst Observation: Black Sink Undercoating	Location: Rm 244, At Stainless Steel Sink
Client No.: WPS920-A16	Client Description: Black Sink Undercoating	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068772	Analyst Observation: Brown/Grey Mastic/Leveling Compound	Location: Rm 241, Just Inside The Doorway At North Side Of The Room
Client No.: WPS920-A17	Client Description: Brown Carpet Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068773	Analyst Observation: White/Brown Drywall	Location: Rm 246, At Northwest Corner Of The Room Above Drop-Down Ceiling Line
Client No.: WPS920-A18	Client Description: Gypsum Wall Board; With Joint Compound	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 12 Cellulose	<u>Percent Non-Fibrous Material:</u> 88

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068773(L2)
Client No.: WPS920-A18

Analyst Observation: White Joint Compound
Client Description: Gypsum Wall Board; With Joint Compound

Location: Rm 246, At Northwest Corner Of The Room Above Drop-Down Ceiling Line
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7068773(L3)
Client No.: WPS920-A18

Analyst Observation: White Tape
Client Description: Gypsum Wall Board; With Joint Compound

Location: Rm 246, At Northwest Corner Of The Room Above Drop-Down Ceiling Line
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
100 Cellulose

Percent Non-Fibrous Material:
None Detected

Lab No.: 7068773(L4)
Client No.: WPS920-A18

Analyst Observation: White Joint Compound/Texture
Client Description: Gypsum Wall Board; With Joint Compound

Location: Rm 246, At Northwest Corner Of The Room Above Drop-Down Ceiling Line
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7068774
Client No.: WPS920-A19

Analyst Observation: White Ceiling Tile
Client Description: LCT-1, 2'X2' Drop Bevel, Deep Directional Fissures Lay-In Ceiling Tile

Location: Rm 246, At Northwest Corner Of Room
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
80 Mineral Wool

Percent Non-Fibrous Material:
20

Lab No.: 7068775
Client No.: WPS920-A20

Analyst Observation: Black Cove Base
Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic

Location: Rm 246, At West Wall, South Of Door Frame
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7068775(L2)
Client No.: WPS920-A20

Analyst Observation: Brown Mastic
Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic


Location: Rm 246, At West Wall, South Of Door Frame
Facility:


Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068776 **Analyst Observation:** Grey/Blue Vinyl Sheet Flooring **Location:** Rm 246, At West Wall, South Of
Client No.: WPS920-A21 **Client Description:** SV-1, Sheet Vinyl 1/4" Blue And Grey Door Frame
Chip; With Yellow Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 10 Fibrous Glass 80
10 Synthetic


Lab No.: 7068776(L2) **Analyst Observation:** Yellow Mastic **Location:** Rm 246, At West Wall, South Of
Client No.: WPS920-A21 **Client Description:** SV-1, Sheet Vinyl 1/4" Blue And Grey Door Frame
Chip; With Yellow Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

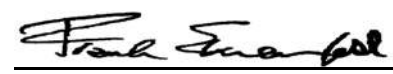
Lab No.: 7068777 **Analyst Observation:** White Ceiling Tile **Location:** Rm 227, Near The Center Of The
Client No.: WPS920-A22 **Client Description:** LCT-2, 2'X2' Drop Bevel, Few Room
Directional Fissures Lay-In Ceiling Tile **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 75 Mineral Wool 25

Lab No.: 7068778 **Analyst Observation:** White Joint Compound **Location:** Rm 227, Southwest Corner On
Client No.: WPS920-A23 **Client Description:** Joint Compound Courtroom Side Of Door Above Drop-Down
Ceiling **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068779 **Analyst Observation:** Off-White Mastic **Location:** Rm 227, At Back Of Closet Near
Client No.: WPS920-A24 **Client Description:** Light Blue Wall Carpet Masitc Top Of Wall
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


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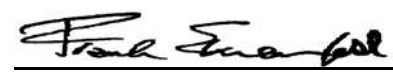
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068780 Client No.: WPS920-A25 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Cove Base Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 231, At Corner Of Wall By Door To Corridor 229 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068780(L2) Client No.: WPS920-A25 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 231, At Corner Of Wall By Door To Corridor 229 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068781 Client No.: WPS920-A26 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: Brown Carpet Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 231, At Transition To Room 238 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068782 Client No.: WPS920-A27 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey/Blue Floor Tile Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 231, At Transition To Room 238 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068782(L2) Client No.: WPS920-A27 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Black Mastic Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Corridor 231, At Transition To Room 238 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068783 Client No.: WPS920-A28 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Blue Carpet Client Description: White Mastic For 5" Blue Carpet Cove Base (CB-3); With Yellow Mastic; With Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 90 Synthetic	Location: Rm 232, At Base Of Wall South The North Door Frame Facility: <u>Percent Non-Fibrous Material:</u> 10

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068783(L2) Client No.: WPS920-A28	Analyst Observation: White Mastic Client Description: White Mastic For 5" Blue Carpet Cove Base (CB-3); With Yellow Mastic; With Brown Mastic	Location: Rm 232, At Base Of Wall South The North Door Frame Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068783(L3) Client No.: WPS920-A28	Analyst Observation: Yellow/Brown Mastic Client Description: White Mastic For 5" Blue Carpet Cove Base (CB-3); With Yellow Mastic; With Brown Mastic	Location: Rm 232, At Base Of Wall South The North Door Frame Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

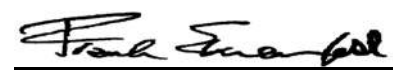
Lab No.: 7068784 Client No.: WPS920-A29	Analyst Observation: White/Brown Drywall Client Description: Joint Compound; With Gypsum Wall Board	Location: Rm 232, At Northside Of Room Above Ceiling Tile, Above Southernmost Window, Of The Set Of 3 Windows Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 12 Cellulose 1 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 87

Lab No.: 7068784(L2) Client No.: WPS920-A29	Analyst Observation: White Joint Compound Client Description: Joint Compound; With Gypsum Wall Board	Location: Rm 232, At Northside Of Room Above Ceiling Tile, Above Southernmost Window, Of The Set Of 3 Windows Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068784(L3) Client No.: WPS920-A29	Analyst Observation: White Tape Client Description: Joint Compound; With Gypsum Wall Board	Location: Rm 232, At Northside Of Room Above Ceiling Tile, Above Southernmost Window, Of The Set Of 3 Windows Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<u>Percent Non-Fibrous Material:</u> None Detected

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068784(L4)
Client No.: WPS920-A29

Analyst Observation: White Joint Compound/Texture
Client Description: Joint Compound; With Gypsum Wall Board

Location: Rm 232, At Northside Of Room Above Ceiling Tile, Above Southernmost Window, Of The Set Of 3 Windows

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Facility:
Percent Non-Fibrous Material:
100

Lab No.: 7068785
Client No.: WPS920-A30

Analyst Observation: White/Brown Drywall
Client Description: Joint Compound; With Gypsum Wall Board

Location: Rm 232, At Northside Of Room Above Ceiling Tile On Ceiling Soffit, Above The Middle Of The Three Win

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
12 Cellulose
2 Fibrous Glass

Facility:
Percent Non-Fibrous Material:
86

Lab No.: 7068785(L2)
Client No.: WPS920-A30

Analyst Observation: White Joint Compound
Client Description: Joint Compound; With Gypsum Wall Board

Location: Rm 232, At Northside Of Room Above Ceiling Tile On Ceiling Soffit, Above The Middle Of The Three Win

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Facility:
Percent Non-Fibrous Material:
100

Lab No.: 7068786
Client No.: WPS920-A31

Analyst Observation: White Ceiling Tile
Client Description: LCT-1, 2'X2' Drop Bevel, Deep Directional Fissures Lay-In Ceiling Tile

Location: Rm 232, At Center Of Northside Of Room

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
75 Mineral Wool

Facility:
Percent Non-Fibrous Material:
25

Lab No.: 7068787
Client No.: WPS920-A32

Analyst Observation: Brown Mastic
Client Description: Brown Carpet Mastic


Location: Rm 232, In Doorway To South Section Of Room


Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Facility:
Percent Non-Fibrous Material:
100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

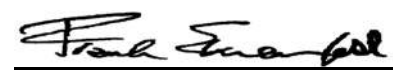
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068787(L2) Client No.: WPS920-A32	Analyst Observation: White/Grey Cementitious Client Description: Brown Carpet Mastic	Location: Rm 232, In Doorway To South Section Of Room Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068788 Client No.: WPS920-A33	Analyst Observation: Brown Mastic Client Description: CB-4, Cove Base 4" Soft Black; With Skim Coat	Location: Rm 232, At Base Of Wall, South Side Of Door In South Room Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068788(L2) Client No.: WPS920-A33	Analyst Observation: White Plaster Client Description: CB-4, Cove Base 4" Soft Black; With Skim Coat	Location: Rm 232, At Base Of Wall, South Side Of Door In South Room Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068789 Client No.: WPS920-A34	Analyst Observation: Black Cove Base Client Description: CB-4, Cove Base 4" Soft Black; With Yellow Mastic; With Skim Coat	Location: Rm 232, At Base Of Wall, South Side Of Door In South Room Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068789(L2) Client No.: WPS920-A34	Analyst Observation: Yellow Mastic Client Description: CB-4, Cove Base 4" Soft Black; With Yellow Mastic; With Skim Coat	Location: Rm 232, At Base Of Wall, South Side Of Door In South Room Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068789(L3) Client No.: WPS920-A34	Analyst Observation: White Plaster Client Description: CB-4, Cove Base 4" Soft Black; With Yellow Mastic; With Skim Coat	Location: Rm 232, At Base Of Wall, South Side Of Door In South Room Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

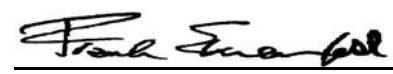
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068790 Client No.: WPS920-A35	Analyst Observation: Black Sink Undercoating Client Description: Black Sink Undercoating	Location: Rm 217, Bottom Side Of Stainless-Steel Drinking Fountain Facility: Percent Non-Fibrous Material: 99.25
<u>Percent Asbestos:</u> PC 0.75 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7068791 Client No.: WPS920-A36	Analyst Observation: Yellow Mastic/Fibrous Client Description: Yellow Duct Insulation Mastic	Location: North Side Of Hallway 216 In Center Above Ceiling Tile Facility: Percent Non-Fibrous Material: 70
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Mineral Wool	
Lab No.: 7068792 Client No.: WPS920-A37	Analyst Observation: White/Brown Drywall Client Description: Gypsum Wall Board; With Joint Compound	Location: North Side Of Hallway 216 At West Wall Above Ceiling Tile Facility: Percent Non-Fibrous Material: 87
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 12 Cellulose 1 Fibrous Glass	
Lab No.: 7068792(L2) Client No.: WPS920-A37	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: North Side Of Hallway 216 At West Wall Above Ceiling Tile Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7068792(L3) Client No.: WPS920-A37	Analyst Observation: White Tape Client Description: Gypsum Wall Board; With Joint Compound	Location: North Side Of Hallway 216 At West Wall Above Ceiling Tile Facility: Percent Non-Fibrous Material: None Detected
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	
Lab No.: 7068792(L4) Client No.: WPS920-A37	Analyst Observation: White Joint Compound/Texture Client Description: Gypsum Wall Board; With Joint Compound	Location: North Side Of Hallway 216 At West Wall Above Ceiling Tile Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Date Received: 9/29/2020
Date Analyzed: 09/30/2020
Signature: 
Analyst: Linda Price

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

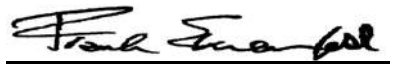
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068793 Client No.: WPS920-A38	Analyst Observation: White Ceiling Tile Client Description: LCT-2, 2'X2' Drop Bevel, Few Directional Fissures Lay-In Ceiling Tile	Location: North Side Of Hallway 216 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 75 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 25
Lab No.: 7068794 Client No.: WPS920-A39	Analyst Observation: Black Grout Client Description: Black Grout For Ceramic Wall Tile	Location: Rm 223, At Plumbing Access On Wall Under Sink Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068795 Client No.: WPS920-A40	Analyst Observation: Tan Mastic Client Description: Tan Mastic For Ceramic Wall Tile	Location: Rm 223, At Plumbing Access On Wall Under Sink Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068796 Client No.: WPS920-A41	Analyst Observation: White Wrap Client Description: White Cloth-Like Lagging At Valve	Location: Rm 223, At Plumbing Access, East Side Of Toilet On Valve Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose	<u>Percent Non-Fibrous Material:</u> 65
Lab No.: 7068796(L2) Client No.: WPS920-A41	Analyst Observation: Yellow Insulation Client Description: White Cloth-Like Lagging At Valve	Location: Rm 223, At Plumbing Access, East Side Of Toilet On Valve Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 5
Lab No.: 7068797 Client No.: WPS920-A42	Analyst Observation: Brown Vinyl Sheet Flooring Client Description: SV-2, Sheet Vinyl, Light Brown Rock Pattern; With Light Tan Mastic; With Grey Leveling Compound Or C	Location: Rm 234, At Transition Strip In Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 85

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068797(L2) Client No.: WPS920-A42	Analyst Observation: Tan Mastic Client Description: SV-2, Sheet Vinyl, Light Brown Rock Pattern; With Light Tan Mastic; With Grey Leveling Compound Or C	Location: Rm 234, At Transition Strip In Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068797(L3) Client No.: WPS920-A42	Analyst Observation: Grey Concrete Client Description: SV-2, Sheet Vinyl, Light Brown Rock Pattern; With Light Tan Mastic; With Grey Leveling Compound Or C	Location: Rm 234, At Transition Strip In Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068798 Client No.: WPS920-A43	Analyst Observation: Brown Mastic Client Description: Dark Brown Carpet Mastic, With Grey Leveling Compound Or Concrete	Location: Rm 234, At Transition Strip In Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068798(L2) Client No.: WPS920-A43	Analyst Observation: Grey Concrete Client Description: Dark Brown Carpet Mastic, With Grey Leveling Compound Or Concrete	Location: Rm 234, At Transition Strip In Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068799 Client No.: WPS920-A44	Analyst Observation: Brown Mastic Client Description: Dark Brown mastic For Missing Cove base (CB-5)	Location: Rm 234, At Base Of Shelving Unit Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068800 **Analyst Observation:** White Mastic **Location:** Rm 234, At Northwest Corner
Client No.: WPS920-A45 **Client Description:** White mastic For Fiberglass Reinforced Between Door Frame And West Wall
Plastic Wall Panel; With Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068800(L2) **Analyst Observation:** White Joint Compound **Location:** Rm 234, At Northwest Corner
Client No.: WPS920-A45 **Client Description:** White mastic For Fiberglass Reinforced Between Door Frame And West Wall
Plastic Wall Panel; With Joint Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7068801 **Analyst Observation:** White Drywall **Location:** Rm 234, At Northwest Corner
Client No.: WPS920-A46 **Client Description:** Gypsum Wall Board; With Joint Between Door Frame And West Wall
Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 6 Fibrous Glass 94

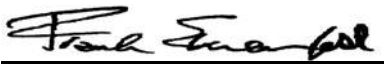
Lab No.: 7068801(L2) **Analyst Observation:** White Joint Compound **Location:** Rm 234, At Northwest Corner
Client No.: WPS920-A46 **Client Description:** Gypsum Wall Board; With Joint Between Door Frame And West Wall
Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068801(L3) **Analyst Observation:** White Mastic **Location:** Rm 234, At Northwest Corner
Client No.: WPS920-A46 **Client Description:** Gypsum Wall Board; With Joint Between Door Frame And West Wall
Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068802 **Analyst Observation:** White Insulation **Location:** Rm 222, Above Ceiling Access
Client No.: WPS920-A47 **Client Description:** White "Hard Fitting" Insualtion At Middle Of Room
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 30 Cellulose 55
15 Fibrous Glass

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068803 **Analyst Observation:** Black Cove Base **Location:** Stairway 213, At Base Of South Wall Near Top Of Stairs
Client No.: WPS920-A48 **Client Description:** Black Stair Stringer; With Dark Brown Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068803(L2) **Analyst Observation:** Brown Mastic **Location:** Stairway 213, At Base Of South Wall Near Top Of Stairs
Client No.: WPS920-A48 **Client Description:** Black Stair Stringer; With Dark Brown Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7068803(L3) **Analyst Observation:** White Joint Compound **Location:** Stairway 213, At Base Of South Wall Near Top Of Stairs
Client No.: WPS920-A48 **Client Description:** Black Stair Stringer; With Dark Brown Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

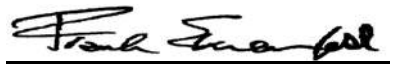
Lab No.: 7068804 **Analyst Observation:** Black Mastic **Location:** Stairway 213, At Base Of South Wall Near Top Of Stairs
Client No.: WPS920-A49 **Client Description:** Black Stair Tread Mastic **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068805 **Analyst Observation:** Black Stair Tread **Location:** Stairway 213, At Base Of South Wall Near Top Of Stairs
Client No.: WPS920-A50 **Client Description:** Black Stair Tread **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068806 **Analyst Observation:** Tan Mastic **Location:** Stairway 214, At Transition Strip In Doorway At Bottom Of Stairs
Client No.: WPS920-A51 **Client Description:** Brown Carpet Mastic; With Grey Leveling Compound **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
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Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068806(L2)	Analyst Observation: White Leveling Compound	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A51	Client Description: Brown Carpet Mastic; With Grey Leveling Compound	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	None Detected	<u>Percent Non-Fibrous Material:</u>
		100

Lab No.: 7068807	Analyst Observation: Blue Floor Tile	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A52	Client Description: FT-2, Floor Tile, 12"X12" Blue With Light Grey; With Black Mastic	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	None Detected	<u>Percent Non-Fibrous Material:</u>
		100


Lab No.: 7068807(L2)	Analyst Observation: Black Mastic	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A52	Client Description: FT-2, Floor Tile, 12"X12" Blue With Light Grey; With Black Mastic	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	None Detected	<u>Percent Non-Fibrous Material:</u>
		100

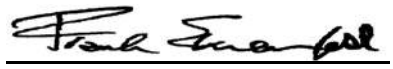
Lab No.: 7068808	Analyst Observation: Grey Floor Tile	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A53	Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	None Detected	<u>Percent Non-Fibrous Material:</u>
		100

Lab No.: 7068808(L2)	Analyst Observation: Black Mastic	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A53	Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	None Detected	<u>Percent Non-Fibrous Material:</u>
		100

Lab No.: 7068808(L3)	Analyst Observation: Grey Leveling Compound	Location: Stairway 214, At Transition Strip
Client No.: WPS920-A53	Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	In Doorway At Bottom Of Stairs
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Facility:
<i>None Detected</i>	2 Cellulose	<u>Percent Non-Fibrous Material:</u>
		98

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

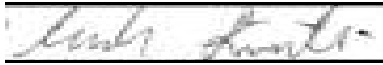
Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

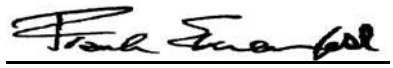
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068809 Client No.: WPS920-A54	Analyst Observation: Black Stair Tread Client Description: Black Stair Tread; With Black Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068809(L2) Client No.: WPS920-A54	Analyst Observation: Black Mastic Client Description: Black Stair Tread; With Black Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068810 Client No.: WPS920-A55	Analyst Observation: Black Cove Base Client Description: Black Stair Stringer; With Brown Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068810(L2) Client No.: WPS920-A55	Analyst Observation: Brown Mastic Client Description: Black Stair Stringer; With Brown Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068811 Client No.: WPS920-A56	Analyst Observation: Black Stair Tread Client Description: Black Stair Kick Plate; With Brown Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068811(L2) Client No.: WPS920-A56	Analyst Observation: Brown Mastic Client Description: Black Stair Kick Plate; With Brown Mastic	Location: Stairway 214, At Base Of South Wall, Near Bottom Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068812 **Analyst Observation:** Black Coating **Location:** Rm 200, Northeast Side Of Room
Client No.: WPS920-A57 **Client Description:** Black And Tarry Lining For Ceiling-Mounted Speaker Box **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 4.3 Chrysotile None Detected 95.7

Lab No.: 7068813 **Analyst Observation:** White Drywall **Location:** Rm 203, Southwest Corner, At
Client No.: WPS920-A58 **Client Description:** Gypsum Wall Board; With Joint Compound; With Dark Brown Cove Base Mastic **Facility:** Base Of Wall Behind Door
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 6 Fibrous Glass 94


Lab No.: 7068813(L2) **Analyst Observation:** White Joint Compound **Location:** Rm 203, Southwest Corner, At
Client No.: WPS920-A58 **Client Description:** Gypsum Wall Board; With Joint Compound; With Dark Brown Cove Base Mastic **Facility:** Base Of Wall Behind Door
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

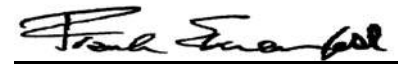
Lab No.: 7068813(L3) **Analyst Observation:** White Joint Compound **Location:** Rm 203, Southwest Corner, At
Client No.: WPS920-A58 **Client Description:** Gypsum Wall Board; With Joint Compound; With Dark Brown Cove Base Mastic **Facility:** Base Of Wall Behind Door
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068813(L4) **Analyst Observation:** Brown Mastic **Location:** Rm 203, Southwest Corner, At
Client No.: WPS920-A58 **Client Description:** Gypsum Wall Board; With Joint Compound; With Dark Brown Cove Base Mastic **Facility:** Base Of Wall Behind Door
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068814 **Analyst Observation:** Yellow Mastic **Location:** Rm 203, Southwest Corner, At
Client No.: WPS920-A59 **Client Description:** Yellow Carpet Mastic **Facility:** Base Of Wall Behind Door
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

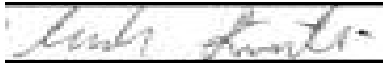
Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

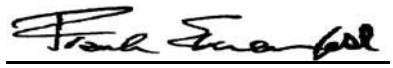
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068815 Client No.: WPS920-A60	Analyst Observation: Black Cove Base Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic	Location: Rm 203, Southwest Corner, At Base Of Wall Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068815(L2) Client No.: WPS920-A60	Analyst Observation: Brown Mastic Client Description: CB-2, Cove Base 4" Black; With Dark Brown Mastic	Location: Rm 203, Southwest Corner, At Base Of Wall Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068816 Client No.: WPS920-A61	Analyst Observation: Blue Floor Tile Client Description: FT-2, Floor Tile, 12"X12" Blue With Light Grey; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068816(L2) Client No.: WPS920-A61	Analyst Observation: Black Mastic Client Description: FT-2, Floor Tile, 12"X12" Blue With Light Grey; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068816(L3) Client No.: WPS920-A61	Analyst Observation: Tan Mastic Client Description: FT-2, Floor Tile, 12"X12" Blue With Light Grey; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068817 Client No.: WPS920-A62	Analyst Observation: Grey Floor Tile Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
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Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

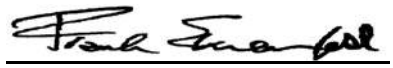
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068817(L2) Client No.: WPS920-A62	Analyst Observation: Black Mastic Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068817(L3) Client No.: WPS920-A62	Analyst Observation: Tan Mastic Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068818 Client No.: WPS920-A63	Analyst Observation: Yellow Mastic Client Description: Yellow Carpet Mastic	Location: Rm 200, At Floor Transition Strip To Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068819 Client No.: WPS920-A64	Analyst Observation: White Caulk Client Description: White Sealant At Base Of Wall To Blue Painted Wood Trim	Location: Stairwell 236, Top Of Stairs At Base Of North Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068820 Client No.: WPS920-A65	Analyst Observation: Grey Vinyl Sheet Flooring Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip; With Yellow Mastic	Location: Rm 206, At Transition Strip Into Rm 200 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 10 Synthetic 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 65

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Laboratory Director

CERTIFICATE OF ANALYSIS

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11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
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Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068820(L2)
Client No.: WPS920-A65

Analyst Observation: White/Yellow Leveling Compound / Mastic

Location: Rm 206, At Transition Strip Into Rm 200

Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip; With Yellow Mastic

Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

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Approved By:
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Laboratory Director

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11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068821	Analyst Observation: Grey Floor Tile	Location: Rm 201, Southwest Corner, At Base Door Fram
Client No.: WPS920-A66	Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068821(L2)	Analyst Observation: Black Mastic	Location: Rm 201, Southwest Corner, At Base Door Fram
Client No.: WPS920-A66	Client Description: FT-1, Floor Tile 12"X12" Grey With Light Grey And Dark Grey Smears; With Black Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98


Lab No.: 7068822	Analyst Observation: Black/Silver Lining	Location: Rm 203, In Middle Of Room
Client No.: WPS920-A67	Client Description: Black And Tarry Lining For Ceiling-Mounted Speaker Box	Facility:
<u>Percent Asbestos:</u> <i>PC 2.1 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.9

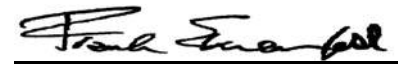
Lab No.: 7068823	Analyst Observation: Yellow Mastic	Location: Rm 206, At Base Of East Wall, North Of Door Frame
Client No.: WPS920-A68	Client Description: Yellow "Marlite" Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7068824	Analyst Observation: Black Sink Undercoating	Location: Rm 200, Under Stainless Steel Sink In Kitchen Area
Client No.: WPS920-A69	Client Description: Black Sink Undercoating	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068825	Analyst Observation: White Ceiling Tile	Location: Rm 235, East Side Of Room
Client No.: WPS920-A70	Client Description: LCT-2, 2'X2' Drop Bevel Few Directional Fissures Lay-In Ceiling Tile	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass 3 Cellulose	<u>Percent Non-Fibrous Material:</u> 57

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Date Received: 9/29/2020
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Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068826 **Analyst Observation:** Grey Putty **Location:** Roof Drain At Far East Side Flat Roof
Client No.: WPS920-A71 **Client Description:** Dark Brown Roof Drain Putty **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068827 **Analyst Observation:** Black Rubber **Location:** Roof Drain At Far East Side Flat Roof
Client No.: WPS920-A72 **Client Description:** Dark Brown Roof Membrane **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7068828 **Analyst Observation:** Black Tar Paper **Location:** Under Coping Cap At Top Of Wall At East Edge OF East Flat Roof
Client No.: WPS920-A73 **Client Description:** Black Tar Paper **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 30 Cellulose 70

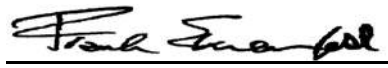
Lab No.: 7068829 **Analyst Observation:** Grey Sealant **Location:** Under Coping Cap At Top Of Wall At East Edge OF East Flat Roof
Client No.: WPS920-A74 **Client Description:** White Coping Cap Sealant **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068830 **Analyst Observation:** Black Rubber **Location:** Under Coping Cap At Top Of Wall At East Edge OF East Flat Roof
Client No.: WPS920-A75 **Client Description:** Black Rubber Membrane **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068831 **Analyst Observation:** Silver Sealant **Location:** East Flat Roof At Reglet Lap Joint North Of Air Intake Louver
Client No.: WPS920-A76 **Client Description:** White Reglet Sealant **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068832 Client No.: WPS920-A77	Analyst Observation: Grey Sealant Client Description: Grey Sealant Around Roof Scupper	Location: East Flat Roof Scupper At Top Of East Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068833 Client No.: WPS920-A78	Analyst Observation: Grey Sealant Client Description: Exterior Door Flashing Sealant	Location: Flashing Above Exterior Side Of East Roof Access Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068834 Client No.: WPS920-A79	Analyst Observation: Black Connector Client Description: Black Neoprene Flex Connector For Ducting	Location: Rm M300, Center Section Mechanical Room Connecting Two Rigid Ducts Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 75

Lab No.: 7068835 Client No.: WPS920-A80	Analyst Observation: Off-White Insulation Client Description: White Caulky Insulation With Cloth Jacket	Location: Rm M300, At coil In North Central Section Of Mechanical Room Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 8 Fibrous Glass 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

Lab No.: 7068836 Client No.: WPS920-A81	Analyst Observation: Black Connector Client Description: Black Neoprene Flex Connector For Ducting	Location: Rm M300, North Central Section Of Mechanical Room Connecting Two Rigid Ducts Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 75 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 25

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Laboratory Director


CERTIFICATE OF ANALYSIS


Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068837 Client No.: WPS920-A82 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Insulation Client Description: White Chalky Insulation With Cloth Jacket <u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 10 Fibrous Glass	Location: Rm M300, At Coil Next To The Middle Of North Wall Of Mechanical Room Facility: <u>Percent Non-Fibrous Material:</u> 75
Lab No.: 7068837(L2) Client No.: WPS920-A82 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: White Wrap Client Description: White Chalky Insulation With Cloth Jacket <u>Percent Non-Asbestos Fibrous Material:</u> 95 Fibrous Glass	Location: Rm M300, At Coil Next To The Middle Of North Wall Of Mechanical Room Facility: <u>Percent Non-Fibrous Material:</u> 5
Lab No.: 7068838 Client No.: WPS920-A83 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Insulation Client Description: White Chalky Insulation With Cloth Jacket <u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose 13 Fibrous Glass	Location: Rm M300, At Coil Next To The Middle Of West Wall Of Mechanical Room Facility: <u>Percent Non-Fibrous Material:</u> 74
Lab No.: 7068839 Client No.: WPS920-A84 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Insulation Client Description: White Duct Insulation Jacket With Possible Chaulky Insulation <u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose 2 Wollastonite	Location: Rm M300, Vertical Portion Of Outside Air Duct At Center Area Of Mechanical Room Facility: <u>Percent Non-Fibrous Material:</u> 18
Lab No.: 7068840 Client No.: WPS920-A85 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wall Board; With Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	Location: Rm M300, At Corner Of West Wall Just Above Horizontal Metal Conduit Facility: <u>Percent Non-Fibrous Material:</u> 90

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Laboratory Director

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Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/1/2020
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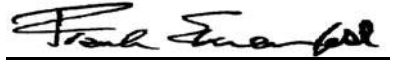
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068840(L2) Client No.: WPS920-A85	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm M300, At Corner Of West Wall Just Above Horizontal Metal Conduit Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068841 Client No.: WPS920-A86	Analyst Observation: Black Tar Paper Client Description: Black Tar Paper	Location: Under Cedar Siding At Northeast Corner Of The West Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 55 Cellulose	<u>Percent Non-Fibrous Material:</u> 45
Lab No.: 7068842 Client No.: WPS920-A87	Analyst Observation: Grey Putty Client Description: Dark Brown Roof Drain Putty	Location: At Clamping Ring In Roof Drain Located On The Far West Side Of The West West Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068843 Client No.: WPS920-A88	Analyst Observation: Tan Sealant Client Description: Clear Coping Cap Sealant	Location: Coping Cap At Top Of Wall Located At The West Edge Of The West Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068844 Client No.: WPS920-A89	Analyst Observation: Grey/White Sealant Client Description: Grey Reglet Sealant	Location: At The Reglet Where It Meets The Access Door To The West West Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Approved By: 
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Laboratory Director


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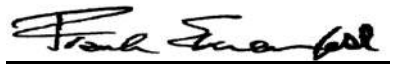
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068845 Client No.: WPS920-A90	Analyst Observation: Off-White/Grey Sealant Client Description: Light Grey Door Frame Sealant	Location: Between Door Frame To Access Door To West Flat Roof And Wood Siding Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068846 Client No.: WPS920-A91	Analyst Observation: Tan Drywall Client Description: Gypsum Board Exterior Sheathing	Location: Under Cedar Siding At Northeast Corner Of The West Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	<u>Percent Non-Fibrous Material:</u> 95
Lab No.: 7068847 Client No.: WPS920-A92	Analyst Observation: Red Sealant Client Description: Red Rubbery Sealant On Boiler Exhaust	Location: At Stacks In The Center Of Top Level Flat Roof Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068848 Client No.: WPS920-A93	Analyst Observation: Black Sealant Client Description: Tarry Dark Brown Cork-Like Refrigeration Pipe Wrap	Location: Rm M300, East Side Of Mechanical Room Close To East Flat Roof Access Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose	<u>Percent Non-Fibrous Material:</u> 97
Lab No.: 7068849 Client No.: WPS920-A94	Analyst Observation: Grey Sealant Client Description: Light Green Sealant/Coating For Sound Lining	Location: Rm M300, Northeast Side Of Mechanical Room At Sound Lining Of Air Hatch Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director

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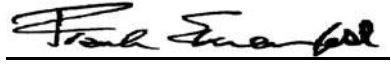
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068850 Client No.: WPS920-A95	Analyst Observation: Lt Green Sealant Client Description: Light Green Sealant/Coating; With Sound Lining Facing	Location: Rm M300, Northeast Side Of Mechanical Room In Outside Air Intake Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068850(L2) Client No.: WPS920-A95	Analyst Observation: Black Lining Client Description: Light Green Sealant/Coating; With Sound Lining Facing	Location: Rm M300, Northeast Side Of Mechanical Room In Outside Air Intake Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
Lab No.: 7068851 Client No.: WPS920-A96	Analyst Observation: Black Lining Client Description: Black Sound Lining Inside "Bowl" Speaker	Location: Rm 100, Speaker Located Above The South Bay Row Facility:
<u>Percent Asbestos:</u> <i>PC 2.4 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.6
Lab No.: 7068852 Client No.: WPS920-A97	Analyst Observation: Beige Fiberboard Client Description: White "Marlite"; With Yellow "Marlite" Mastic' With Yellow Sheet Vinyl Mastic	Location: Rm 104, Base Of Wall At Southeast Corner Of Bathroom Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 100 Cellulose	<u>Percent Non-Fibrous Material:</u> None Detected
Lab No.: 7068852(L2) Client No.: WPS920-A97	Analyst Observation: Lt Tan Mastic Client Description: White "Marlite"; With Yellow "Marlite" Mastic' With Yellow Sheet Vinyl Mastic	Location: Rm 104, Base Of Wall At Southeast Corner Of Bathroom Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7068853 Client No.: WPS920-A98	Analyst Observation: Grey/Tan Vinyl Sheet Flooring Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip	Location: Rm 104, Base Of Wall At Southeast Corner Of Bathroom Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

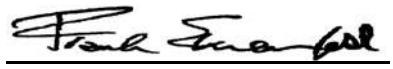
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068854 Client No.: WPS920-A99	Analyst Observation: Off-White Drywall Client Description: White Hard Chalky Material To Support Self-Cove Sheet Vinyl (Likely "Fix-All")	Location: Rm 104, Base Of Wall At Southeast Corner Of Bathroom Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99
Lab No.: 7068855 Client No.: WPS920-A100	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm 100, Hose House At Top Of Ladder On West Side Of bay Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068855(L2) Client No.: WPS920-A100	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm 100, Hose House At Top Of Ladder On West Side Of bay Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068856 Client No.: WPS920-A101	Analyst Observation: Blue Grout Client Description: Black Grout For Quarry Tile	Location: Rm 112, West Corner Of Planter Box in 1st Floor Lobby Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068857 Client No.: WPS920-A102	Analyst Observation: Blue Grout Client Description: Black Grout For Quarry Tile	Location: Rm 112, At Base Of East Wall On South Side Of Lobby Where Bench Mount Meets The Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director

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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068858 Client No.: WPS920-A103	Analyst Observation: Tan Mastic Client Description: Tan Mastic For Walk-Off Mat	Location: Rm 113, Floor At Base Of North Wall, East Side Of Door To Room Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7068859 Client No.: WPS920-A104	Analyst Observation: Black Cove Base Client Description: Cb-2, Cove base 4" Black; With Cream Mastic	Location: Rm 113, At Base Of South Wall Under Window To Dispatch Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7068859(L2) Client No.: WPS920-A104	Analyst Observation: Off-White Mastic Client Description: Cb-2, Cove base 4" Black; With Cream Mastic	Location: Rm 113, At Base Of South Wall Under Window To Dispatch Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7068860 Client No.: WPS920-A105	Analyst Observation: Black Mastic Client Description: Black Floor Tile Mastic	Location: Rm B107, At Floor In Front Of Sink Facility: Percent Non-Fibrous Material: 98.7
<u>Percent Asbestos:</u> <i>PC 1.3 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7068861 Client No.: WPS920-A106	Analyst Observation: Off-White Floor Tile Client Description: FT-3, Floor Tile 12"X12" Cream With White And Grey; With Black Mastic	Location: Rm B107, At Floor North Of Sink Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Note: Insufficient mastic provided for analysis.

Lab No.: 7068862 Client No.: WPS920-A107	Analyst Observation: Blue Floor Tile Client Description: FT-4, Floor Tile 12"X12" Blue With White And Grey	Location: Rm B107, At Floor In Front Of Sink Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Laboratory Director

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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068862(L2) Client No.: WPS920-A107	Analyst Observation: Black Mastic Client Description: FT-4, Floor Tile 12"X12" Blue With White And Grey	Location: Rm B107, At Floor In Front Of Sink Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	<u>Percent Non-Fibrous Material:</u> 99


Lab No.: 7068863 Client No.: WPS920-A108	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm B104, Above Drop-Down Ceiling At Southeast Corner Where The Room Meets The Hallway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90


Lab No.: 7068863(L2) Client No.: WPS920-A108	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm B104, Above Drop-Down Ceiling At Southeast Corner Where The Room Meets The Hallway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068864 Client No.: WPS920-A109	Analyst Observation: Grey Insulation Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: Rm B104, On Beam Above Drop-Down Ceiling Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Fibrous Glass 3 Cellulose	<u>Percent Non-Fibrous Material:</u> 37

Lab No.: 7068865 Client No.: WPS920-A110	Analyst Observation: Grey Insulation Client Description: White Harder Fireproofing Patch	Location: Rm B104, Close To South Wall On Beam Above Drop-Down Ceiling Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Fibrous Glass 3 Cellulose	<u>Percent Non-Fibrous Material:</u> 67

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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

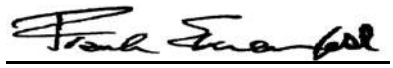
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068866 Client No.: WPS920-A111 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Off-White Ceiling Tile Client Description: LCT-3, Same As LCT-1 But From Phase 1 <u>Percent Non-Asbestos Fibrous Material:</u> 35 Fibrous Glass 3 Cellulose	Location: Rm B104, At Southeast Corner Where The Room Meets The Hallway Facility: <u>Percent Non-Fibrous Material:</u> 62
Lab No.: 7068867 Client No.: WPS920-A112 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Insulation Client Description: Grey Fuzzy, Crumbly Fireproofing <u>Percent Non-Asbestos Fibrous Material:</u> 60 Fibrous Glass 3 Cellulose	Location: On Beam Above Ceiling At South Side Of Hallway Attached To Rm B104 Facility: <u>Percent Non-Fibrous Material:</u> 37
Lab No.: 7068868 Client No.: WPS920-A113 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Tan Ceiling Tile Client Description: LCT-4, 2'X2' Drop Bevel, Smooth face Lay-In Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose 15 Fibrous Glass	Location: Above Ceiling At South Side Of Hallway Attached To Rm B104 Facility: <u>Percent Non-Fibrous Material:</u> 55
Lab No.: 7068869 Client No.: WPS920-A114 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Concrete Client Description: Dark Grey Concrete "Sacking" <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Above Ceiling On East Wall, At South Side Of Hallway Attached To Rm B104 Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068870 Client No.: WPS920-A115 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Insulation Client Description: Grey Fuzzy, Crumbly Fireproofing <u>Percent Non-Asbestos Fibrous Material:</u> 55 Fibrous Glass 3 Cellulose	Location: Loose Above West Side OF Rm B105, Accessed By Mechanical Rm B102 Facility: <u>Percent Non-Fibrous Material:</u> 42

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 Signature: 
 Analyst: Ellen Smith

Approved By: 
 Frank E. Ehrenfeld, III
 Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068871 Client No.: WPS920-A116	Analyst Observation: White Joint Compound Client Description: Joint Compound	Location: Rm B102, At Top Of Wall Above Interior Doorway To Room Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7068872 Client No.: WPS920-A117	Analyst Observation: Lt Tan Drywall Client Description: Gypsum Wall Board	Location: Rm B102, At East Wall Of Northwest Corner Of Room. Taken From A Preexisting Hole In GWB Facility: Percent Non-Fibrous Material: 87
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 13 Cellulose	

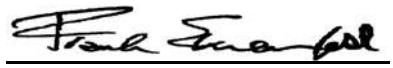
Lab No.: 7068873 Client No.: WPS920-A118	Analyst Observation: White Floor Tile Client Description: FT-3, Floor Tile 12"X12" Cream With White And Grey Streaks	Location: At Base Of East Wall Of North Hallway Attached To Rm B104 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7068873(L2) Client No.: WPS920-A118	Analyst Observation: Black Mastic Client Description: FT-3, Floor Tile 12"X12" Cream With White And Grey Streaks	Location: At Base Of East Wall Of North Hallway Attached To Rm B104 Facility: Percent Non-Fibrous Material: 98.8
<u>Percent Asbestos:</u> PC 1.2 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7068874 Client No.: WPS920-A119	Analyst Observation: Blue Floor Tile Client Description: FT-4, Floor Tile 12"X12" Blue With White And Grey Streaks; With Black Mastic	Location: At Base Of East Wall Of South Hallway Attached To Rm B104 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Date Received: 9/29/2020
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Signature: 
Analyst: Ellen Smith

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068874(L2) Client No.: WPS920-A119	Analyst Observation: Black Mastic Client Description: FT-4, Floor Tile 12"X12" Blue With White And Grey Streaks; With Black Mastic	Location: At Base Of East Wall Of South Hallway Attached To Rm B104 Facility:
<u>Percent Asbestos:</u> <i>PC 1.7 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 98.3


Lab No.: 7068875 Client No.: WPS920-A120	Analyst Observation: Black Cove Base Client Description: CB-6, Cove Base Black 4" Phase 1; With Dark Brown Mastic	Location: At Base Of East Wall Of North Hallway Attached To Rm B104. Taken From A Preexisting Hole In Cove Bas Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7068875(L2) Client No.: WPS920-A120	Analyst Observation: Brown Mastic Client Description: CB-6, Cove Base Black 4" Phase 1; With Dark Brown Mastic	Location: At Base Of East Wall Of North Hallway Attached To Rm B104. Taken From A Preexisting Hole In Cove Bas Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068876 Client No.: WPS920-A121	Analyst Observation: Black Cove Base Client Description: CB-6, Cove Base, Black 4" Phase 1; With Dark Brown Mastic; With Newer Cream Mastic	Location: Rm B101, At Corner Of Southwest Wall Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068876(L2) Client No.: WPS920-A121	Analyst Observation: Brown Mastic Client Description: CB-6, Cove Base, Black 4" Phase 1; With Dark Brown Mastic; With Newer Cream Mastic	Location: Rm B101, At Corner Of Southwest Wall Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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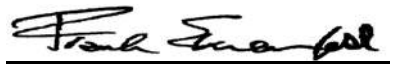
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068877 Client No.: WPS920-A122	Analyst Observation: Grey Spray-On Fireproofing Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: Rm B101, At Bottom Of Corrugated Floor Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 75
Lab No.: 7068878 Client No.: WPS920-A123	Analyst Observation: Grey Spray-On Fireproofing Client Description: Light Grey harder Fireproofing Patch	Location: Rm B101, On Bottom Side Of Stairs Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068879 Client No.: WPS920-A124	Analyst Observation: White Cove Base Client Description: CB-7, Cove Base 4" Beige; With Brown Mastic	Location: Rm B105, At Corner Of Base Of South Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068879(L2) Client No.: WPS920-A124	Analyst Observation: Brown Mastic Client Description: CB-7, Cove Base 4" Beige; With Brown Mastic	Location: Rm B105, At Corner Of Base Of South Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068879(L3) Client No.: WPS920-A124	Analyst Observation: Off-White Texture Client Description: CB-7, Cove Base 4" Beige; With Brown Mastic	Location: Rm B105, At Corner Of Base Of South Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068880 Client No.: WPS920-A125	Analyst Observation: Tan Fibrous Client Description: Fire Door Insulation, Brown Honeycomb Paper; With Red Glue	Location: Rm B101, Top Corner At Handle Side Of Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5

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Date Received: 9/29/2020
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Signature: 
Analyst: Jeffrey Fazzo

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068881
Client No.: WPS920-A126
Analyst Observation: White Insulation
Client Description: White Chalky "Hard Fitting" At Heat Return Pipe
Location: Rm B102, Heat Return Pipe At Southeast Section Of Room Along East Wall
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 5 Fibrous Glass
Percent Non-Fibrous Material: 95


Lab No.: 7068882
Client No.: WPS920-A127
Analyst Observation: Off-White Insulation
Client Description: White "Mag" At Heat Return At Thermometer
Location: Rm B102, Heat Return Pipe At Thermometer At Southeast Section Of Room Along East Wall
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 8 Fibrous Glass
Percent Non-Fibrous Material: 92

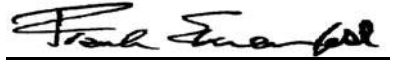
Lab No.: 7068883
Client No.: WPS920-A128
Analyst Observation: White Insulation
Client Description: White "Mag" At Heat Supply To V6-1 Coil
Location: Rm B102, Center Area Of Southeast Section Of Room At Heat Supply To V6-1 Coil
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 3 Cellulose
Percent Non-Fibrous Material: 97

Lab No.: 7068884
Client No.: WPS920-A129
Analyst Observation: White Insulation
Client Description: White Chalky Insulation For Metal-Jacketed Generator Exhaust
Location: Rm B102, North Side Of Room Where Pipe Crosses Overhead From Generator Room
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Synthetic
Percent Non-Fibrous Material: 99

Lab No.: 7068885
Client No.: WPS920-A130
Analyst Observation: White Insulation
Client Description: White Chalky Insulation For Metal-Jacketed Generator Exhaust
Location: Rm B102, Bottom Side Of Pipe Where It Turns Vertical Into The Stack, Near Southwest Corner Od Rm B10
Facility:
Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Synthetic
Percent Non-Fibrous Material: 99

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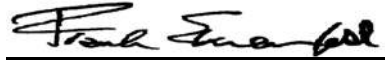
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068886 Client No.: WPS920-A131	Analyst Observation: Grey Insulation Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: Rm B102, North Side Of Room Close To South Wall Of Rm B112 Facility: Percent Non-Fibrous Material: 80
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Fibrous Glass	
Lab No.: 7068887 Client No.: WPS920-A132	Analyst Observation: White Insulation Client Description: White Chalky "Mag" For Hot Water Pipe	Location: Rm B102, Top Side Of Hot Water Pipe Running Directionally Above Entry Way To Mechanical Room Facility: Percent Non-Fibrous Material: 93
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose 2 Fibrous Glass	
Lab No.: 7068888 Client No.: WPS920-A133	Analyst Observation: White Insulation Client Description: White Chalky "Mag" For Hot Water Pipe	Location: Rm B102, Top Side Of Hot Water Pipe Running Directionally Above Entry Way To Mechanical Room Paralle Facility: Percent Non-Fibrous Material: 95
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Cellulose	
Lab No.: 7068889 Client No.: WPS920-A134	Analyst Observation: White Insulation Client Description: White Chalky Insulation For Metal- Jacketed Generator Exhaust	Location: Rm B112, End Of Muffler Section Closest To The Doorway Facility: Percent Non-Fibrous Material: 99
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	
Lab No.: 7068890 Client No.: WPS920-A135	Analyst Observation: White Insulation Client Description: White Chalky Insulation For Metal- Jacketed Generator Exhaust	Location: Rm B112, Plug At End Of Muffler At North Side Of Generator Facility: Percent Non-Fibrous Material: 99
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 1 Cellulose	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: 
Analyst: Jeffrey Fazzo

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068891 **Analyst Observation:** White/Green Insulation
Client No.: WPS920-A136 **Client Description:** Light Green "Spunstrand" Fiberglass;
With White Paper-Like Lining **Location:** Rm B102, Southwest Corner
(Must Walk Through Air Vents) At Duct
Running Into Concrete Slab

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
30 Chrysotile 50 Fibrous Glass 20

Lab No.: 7068892 **Analyst Observation:** Dk Green Concrete
Client No.: WPS920-A137 **Client Description:** Dark Grey "Sacking" On Concrete Wall
 Location: Rm B102, Southwest Corner
(Must Walk Through Air Vents) At West
Wall

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068892(L2) **Analyst Observation:** Lt Grey Concrete
Client No.: WPS920-A137 **Client Description:** Dark Grey "Sacking" On Concrete Wall
 Location: Rm B102, Southwest Corner
(Must Walk Through Air Vents) At West
Wall

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7068893 **Analyst Observation:** Tan Ceiling Tile
Client No.: WPS920-A138 **Client Description:** LCT-5, 2'X4' Wormy Shallow Fissures
With 1/8" Holes Lay-In Ceiling Tile **Location:** Rm B108, Ceiling At Far West
End Of Shooting Range, Just South Of
Center

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 50 Cellulose 10
40 Mineral Wool

Lab No.: 7068894 **Analyst Observation:** Tan Ceiling Tile
Client No.: WPS920-A139 **Client Description:** GCT-1, 12"X12", Off-White Dense Tile;
Sharp Directional Fissures With Dark Brown Mastic **Location:** Rm B108, East End Of Shooting
Range, Just North Of Center

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 80 Mineral Wool 20

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068894(L2) Client No.: WPS920-A139	Analyst Observation: Brown Glue Client Description: GCT-1, 12"X12", Off-White Dense Tile; Sharp Directional Fissures With Dark Brown Mastic	Location: Rm B108, East End Of Shooting Range, Just North Of Center Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068895 Client No.: WPS920-A140	Analyst Observation: Tan Ceiling Tile Client Description: GCT-1, 12"X12", Off-White Dense Tile; Sharp Directional Fissures With Dark Brown Mastic	Location: Rm B108, East End Of Shooting Range At North Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20

Lab No.: 7068895(L2) Client No.: WPS920-A140	Analyst Observation: Brown Glue Client Description: GCT-1, 12"X12", Off-White Dense Tile; Sharp Directional Fissures With Dark Brown Mastic	Location: Rm B108, East End Of Shooting Range At North Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7068896 Client No.: WPS920-A141	Analyst Observation: Tan Ceiling Tile Client Description: LCT-5, 2'X4' Wormy Shallow Fissures With 1/8" Holes Lay-In Ceiling Tile	Location: Rm B108, Halfway To End Of Shooting Range On North Side Of Room Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 40 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 10

Lab No.: 7068897 Client No.: WPS920-A142	Analyst Observation: Tan Ceiling Tile Client Description: LCT-5, 2'X4' Wormy Shallow Fissures With 1/8" Holes Lay-In Ceiling Tile	Location: Rm B108, First Row Of Deflector Panels, Just North Of Center Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 40 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 10

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068898 Client No.: WPS920-A143	Analyst Observation: Grey Firestop Client Description: Light Grey Harder Fireproofing Patch	Location: Rm B108, Halfway Down Shooting Range At South Wall On Beam Between Deflector Plate Rows Facility: Percent Non-Fibrous Material: 40
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Mineral Wool	
Lab No.: 7068899 Client No.: WPS920-A144	Analyst Observation: Grey Firestop Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: Rm B108, Halfway Down Shooting Range At South Wall On Beam Between Deflector Plate Rows Facility: Percent Non-Fibrous Material: 40
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Mineral Wool	
Lab No.: 7068900 Client No.: WPS920-A145	Analyst Observation: Tan Cove Base Client Description: CB-7, Cove Base 4" Beige; With Brown Mastic	Location: Rm B113, Northwest Corner Of Firing Area At Base Of Wall Behind Door Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7068900(L2) Client No.: WPS920-A145	Analyst Observation: Brown Mastic Client Description: CB-7, Cove Base 4" Beige; With Brown Mastic	Location: Rm B113, Northwest Corner Of Firing Area At Base Of Wall Behind Door Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7068901 Client No.: WPS920-A146	Analyst Observation: White/Brown Drywall Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm B113, Southeast Corner Of Firing Area Above Drop-Down Ceiling Where Conduit Enters Wall Facility: Percent Non-Fibrous Material: 77
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 8 Fibrous Glass	

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068901(L2) Client No.: WPS920-A146	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm B113, Southeast Corner Of Firing Area Above Drop-Down Ceiling Where Conduit Enters Wall
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Lab No.: 7068902 Client No.: WPS920-A147	Analyst Observation: Grey Ceiling Tile Client Description: LCT-3, Same As LCT-1 But From Phase 1	Location: Rm B113, Southeast Corner Of Firing Area At Drop-Down Ceiling
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20
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Lab No.: 7068903 Client No.: WPS920-A148	Analyst Observation: Grey Concrete Client Description: Dark Grey "Sacking" On Concrete	Location: Stairwell B111, At Bottom Stair On West Wall Above Handrail
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Lab No.: 7068904 Client No.: WPS920-A149	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Corridor B110, At West End Of Corridor On Ceiling At East Side Of Concrete Column
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Lab No.: 7068905 Client No.: WPS920-A150	Analyst Observation: Grey Ceiling Tile Client Description: LCT-3, Same As LCT-1 But From Phase 1	Location: Rm B113, Just inside North Door Entrance At Ceiling
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20
--	--	--

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068906 **Analyst Observation:** Tan Ceiling Tile **Location:** Corridor 122, Where Corridor
Client No.: WPS920-A151 **Client Description:** LCT-7, 2'X4' Drop Bevel, Smooth Face Opens Up Into An Unnamed Room On East
At Ceiling Just Above 4-Outlet El

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 40 Cellulose Percent Non-Fibrous Material:
50 Mineral Wool 10

Lab No.: 7068907 **Analyst Observation:** Tan Ceiling Tile **Location:** Corridor 122, Where Corridor
Client No.: WPS920-A152 **Client Description:** LCT-2, 2'X2' Drop Bevel, Few Opens Up Into An Unnamed Room On East
Directional Fissures Lay In Ceiling Tile At Ceiling Just Above 4-Outlet El

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 50 Cellulose Percent Non-Fibrous Material:
40 Mineral Wool 10

Lab No.: 7068908 **Analyst Observation:** White/Brown Drywall **Location:** Rm 118. At Center Of Room At
Client No.: WPS920-A153 **Client Description:** Gypsum Wall Board; With Joint Duct Chase Above Ceiling
Compound

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 15 Cellulose Percent Non-Fibrous Material:
8 Fibrous Glass 77

Lab No.: 7068908(L2) **Analyst Observation:** White Joint Compound **Location:** Rm 118. At Center Of Room At
Client No.: WPS920-A153 **Client Description:** Gypsum Wall Board; With Joint Duct Chase Above Ceiling
Compound

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected None Detected Percent Non-Fibrous Material:
100

Lab No.: 7068908(L3) **Analyst Observation:** White Tape **Location:** Rm 118. At Center Of Room At
Client No.: WPS920-A153 **Client Description:** Gypsum Wall Board; With Joint Duct Chase Above Ceiling
Compound

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 95 Cellulose Percent Non-Fibrous Material:
5

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068909 Client No.: WPS920-A154	Analyst Observation: Yellow Mastic Client Description: Yellow "Marlite" Mastic	Location: Rm 116, Northwest Corner Of Room Next To Door Frame Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068910 Client No.: WPS920-A155	Analyst Observation: Blue/Grey Vinyl Sheet Flooring Client Description: SV-1, Sheet Vinyl 1/4" Blue And Grey Chip	Location: Rm 116, center Of North Wall Where Sheet Vinyl Bends To Self-Cove Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068911 Client No.: WPS920-A156	Analyst Observation: Multi-Colored Vinyl Sheet Flooring Client Description: SV-3, Sheet Vinyl Light Grey, Tan, Black, Pearl, Small Chip; With Brown Mastic	Location: Rm 134, At Floor Transition Into Kitchen Where Flooring Is Breaking Apart Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068911(L2) Client No.: WPS920-A156	Analyst Observation: Yellow/Black Mastic Client Description: SV-3, Sheet Vinyl Light Grey, Tan, Black, Pearl, Small Chip; With Brown Mastic	Location: Rm 134, At Floor Transition Into Kitchen Where Flooring Is Breaking Apart Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068912 Client No.: WPS920-A157	Analyst Observation: Grey Sink Undercoating Client Description: Grey Sink Undercoating	Location: Rm 134, Bottom Side Of Stainless-Steel Sink In Kitchen Area Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	<u>Percent Non-Fibrous Material:</u> 70

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Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068913 Client No.: WPS920-A158	Analyst Observation: Tan Mastic Client Description: Tan Mastic For Fiberglass Reinforced Plastic Panel; With Joint Compound	Location: Rm 134, At GFCI Outlet West Of Sink Above Countertop Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068913(L2) Client No.: WPS920-A158	Analyst Observation: White Joint Compound Client Description: Tan Mastic For Fiberglass Reinforced Plastic Panel; With Joint Compound	Location: Rm 134, At GFCI Outlet West Of Sink Above Countertop Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068914 Client No.: WPS920-A159	Analyst Observation: White Sink Undercoating Client Description: White Sink Undercoating	Location: Rm 134, Bottom Of Small Sink At West End Of Kitchen Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068915 Client No.: WPS920-A160	Analyst Observation: Black Cove Base Client Description: Black Cove Base From Kitchen Remodel	Location: Rm 134, At Toe Kick Below Small Sink At West End Of Kitchen Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068915(L2) Client No.: WPS920-A160	Analyst Observation: Yellow Mastic Client Description: Black Cove Base From Kitchen Remodel	Location: Rm 134, At Toe Kick Below Small Sink At West End Of Kitchen Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068916 Client No.: WPS920-A161	Analyst Observation: White/Brown Drywall Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm 130, Southwest Of Room Above Ceiling Access Door Where Pipes Enter Wall Facility:
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 8 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 77
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Lab No.: 7068916(L2) Client No.: WPS920-A161	Analyst Observation: White Joint Compound Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm 130, Southwest Of Room Above Ceiling Access Door Where Pipes Enter Wall Facility:
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Lab No.: 7068916(L3) Client No.: WPS920-A161	Analyst Observation: White Tape Client Description: Gypsum Wall Board; With Joint Compound	Location: Rm 130, Southwest Of Room Above Ceiling Access Door Where Pipes Enter Wall Facility:
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 95 Cellulose	<u>Percent Non-Fibrous Material:</u> 5
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Lab No.: 7068917 Client No.: WPS920-A162	Analyst Observation: Black Cove Base Client Description: CB-2, Cove Base 4" Black; With Dark Brown Masitc	Location: Corridor 133, West End Of Hallway At Base Of Corner Where Hallway Turns North Facility:
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Lab No.: 7068917(L2) Client No.: WPS920-A162	Analyst Observation: Brown Mastic Client Description: CB-2, Cove Base 4" Black; With Dark Brown Masitc	Location: Corridor 133, West End Of Hallway At Base Of Corner Where Hallway Turns North Facility:
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<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/1/2020 Report No.: 620266 - PLM Project: Wrangell Public Safety Bldg Project No.: 7795
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068918 Client No.: WPS920-A163	Analyst Observation: Green Mastic Client Description: Green Sticky Carpet Mastic	Location: Rm 127, Below Carpet Just Inside Doorway Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068919 Client No.: WPS920-A164	Analyst Observation: Black Tar Paper Client Description: Exterior Tar Paper	Location: Outside Rm 127 North Of The Window, At Base Of Wall Behind Shiplap Siding Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Cellulose	<u>Percent Non-Fibrous Material:</u> 40
Lab No.: 7068920 Client No.: WPS920-A165	Analyst Observation: Black Tar Paper Client Description: Exterior Tar Paper	Location: North Side Exterior Of Building Outside Bay 100, East Of Door At Base Of Wall, Behind Shiplap Siding Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 60 Cellulose	<u>Percent Non-Fibrous Material:</u> 40
Lab No.: 7068921 Client No.: WPS920-A166	Analyst Observation: Tan/Brown Drywall Client Description: Gypsum Board Exterior Sheathing	Location: North Side Exterior Of Building Outside Bay 100, East Of Door At Base Of Wall, Behind Shiplap Siding Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose	<u>Percent Non-Fibrous Material:</u> 85
Lab No.: 7068922 Client No.: WPS920-A167	Analyst Observation: Tan Sealant Client Description: Flexible Cream Exterior Sealant	Location: North Side Exterior Of Building Outside Bay 100, East Of Door At Base Of Wall, Between Wood Siding A Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068923 Client No.: WPS920-A168	Analyst Observation: Black Sealant Client Description: Firm Black Exterior Sealant	Location: North Side Exterior Of Building Outside Bay 100, East Of Door In Corner Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068924 Client No.: WPS920-A169	Analyst Observation: Black Mastic Client Description: Black Sound Lining Inside "Bowl" Speaker	Location: Rm 149, Bowl Speaker Externally Mounted In Middle Of Garage Facility:
<u>Percent Asbestos:</u> <i>PC 5.7 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 94.3
Lab No.: 7068925 Client No.: WPS920-A170	Analyst Observation: Grey Sealant Client Description: Grey Rubery Window Frame Sealant	Location: North Side Of Far North Window Outside Lobby 112 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068926 Client No.: WPS920-A171	Analyst Observation: White/Brown Drywall Client Description: Gypsum Board	Location: Center Of Parking Garage At Existing Ceiling Damage Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Cellulose 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7068926(L2) Client No.: WPS920-A171	Analyst Observation: Yellow Mastic Client Description: Gypsum Board	Location: Center Of Parking Garage At Existing Ceiling Damage Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068927 Client No.: WPS920-A172	Analyst Observation: Black Sealant Client Description: Black Foam-Like Window Sealant	Location: North Side Of North Window Outside Rm 106 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068928 Client No.: WPS920-A173	Analyst Observation: Grey Cove Base Client Description: CB-8, Cove Base 4" Dark Grey; With Cream Mastic	Location: Rm 209, At Base Of Southeast Corner Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068928(L2) Client No.: WPS920-A173	Analyst Observation: Cream Mastic Client Description: CB-8, Cove Base 4" Dark Grey; With Cream Mastic	Location: Rm 209, At Base Of Southeast Corner Behind Door Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068929 Client No.: WPS920-A174	Analyst Observation: Grey Firestop Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: East Side Of Parking Garage Above Open Ceiling Access On Beam Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20
Lab No.: 7068930 Client No.: WPS920-A175	Analyst Observation: Grey Firestop Client Description: Grey Fuzzy, Crumbly Fireproofing	Location: East Side Of Parking Garage Above Open Ceiling Access On Beam North Of Previous Sample Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	<u>Percent Non-Fibrous Material:</u> 20
Lab No.: 7068931 Client No.: WPS920-A176	Analyst Observation: Grey Concrete Client Description: Grey "Sacking" On Concrete	Location: Southwest Side Of Parking Garage On South Wall At Bottom Right Of Large Air Intake Louver Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director

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Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/1/2020
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Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068932 Client No.: WPS920-A177	Analyst Observation: White Coating Client Description: White Outer Coating With Cloth To Pipe Vapor Insulation	Location: Rm M300, East Side Of Mechanical Room Close To East Flat Roof Access Door Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7068932(L2) Client No.: WPS920-A177	Analyst Observation: Yellow Insulation Client Description: White Outer Coating With Cloth To Pipe Vapor Insulation	Location: Rm M300, East Side Of Mechanical Room Close To East Flat Roof Access Door Facility: Percent Non-Fibrous Material: 10
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose 70 Fibrous Glass	
Lab No.: 7068933 Client No.: WPS920-A178	Analyst Observation: Tan Ceiling Tile Client Description: LCT-6, 2'X4' Galaxy Lay-In Ceiling Tile	Location: Rm B108, Southwest End Of Shooting Range On Second To Last Row Of Deflector Plates Facility: Percent Non-Fibrous Material: 10
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 40 Mineral Wool	
Lab No.: 7068934 Client No.: WPS920-A179	Analyst Observation: Grey Ceiling Tile Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic	Location: Rm 228, West Side Of Room On High Ceiling At Air Duct Grill Facility: Percent Non-Fibrous Material: 20
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	
Lab No.: 7068934(L2) Client No.: WPS920-A179	Analyst Observation: Brown Mastic Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic	Location: Rm 228, West Side Of Room On High Ceiling At Air Duct Grill Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
Date Analyzed: 10/01/2020
Signature: Natalia Morais Soares
Analyst: Natalia Morais Soares

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

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11901 Business Blvd., Ste 208
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Project No.: 7795

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7068935 Client No.: WPS920-A180 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Ceiling Tile Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	Location: Rm 228, West Side Of Room On High Ceiling At Air Duct Grill Facility: <u>Percent Non-Fibrous Material:</u> 20
Lab No.: 7068935(L2) Client No.: WPS920-A180 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Rm 228, West Side Of Room On High Ceiling At Air Duct Grill Facility: <u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7068936 Client No.: WPS920-A181 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Grey Ceiling Tile Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> 80 Mineral Wool	Location: Rm 228, North Side Of High Ceiling At Preexisting Circular Hole Facility: <u>Percent Non-Fibrous Material:</u> 20
Lab No.: 7068936(L2) Client No.: WPS920-A181 <u>Percent Asbestos:</u> <i>None Detected</i>	Analyst Observation: Brown Mastic Client Description: 12"X12" Glued-On Heavy Fissured Concealed Grid Ceiling Tile; With Dark Brown Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Location: Rm 228, North Side Of High Ceiling At Preexisting Circular Hole Facility: <u>Percent Non-Fibrous Material:</u> 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/29/2020
 Date Analyzed: 10/01/2020
 Signature: Natalia Morais Soares
 Analyst: Natalia Morais Soares

Approved By:



Frank E. Ehrenfeld, III
Laboratory Director

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Client: EHS Alaska Incorporated
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Report Date: 10/1/2020
Report No.: 620266 - PLM
Project: Wrangell Public Safety Bldg
Project No.: 7795

Client: EHS511

Appendix to Analytical Report

Customer Contact: Cali Swatowski

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

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Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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Project No.: 7795

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2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

APPENDIX B

Lead Analyzer Test Results

LEAD ANALYZER TEST RESULTS

Heuresis Pb200i, Serial No. 1770

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
1	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 14:17:03	POSITIVE	1	0.1
2	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 14:17:17	POSITIVE	1	0.1
3	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 14:17:30	POSITIVE	1	0.1
4	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	218	DOOR	WOOD	INTACT	VARNISH	6.18	9/14/20 14:21:43	NEGATIVE	0.04	0.12
5	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	218	DOOR FRAME	METAL	INTACT	BLUE	5.6	9/14/20 14:22:22	NEGATIVE	0.12	0.13
6	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	218	WALL	DRYWALL	INTACT	WHITE	1.79	9/14/20 14:31:23	NEGATIVE	0.12	0.22
7	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	218	COUNTERTOP	FORMICA	INTACT	GRAY	1.75	9/14/20 14:34:01	NEGATIVE	0.24	0.23
8	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	218	CABINET	FORMICA	INTACT	PURPLE	5.88	9/14/20 14:35:05	NEGATIVE	0.26	0.12
9	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	244	WINDOW TRIM	WOOD	INTACT	VARNISH	5.57	9/14/20 14:38:27	NEGATIVE	0.08	0.13
10	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	244	RADIATOR	METAL	INTACT	WHITE	5.55	9/14/20 14:39:14	NEGATIVE	0.15	0.13
11	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	229	DOOR FRAME	METAL	INTACT	BLUE	5.69	9/14/20 14:40:30	NEGATIVE	0.09	0.13
12	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	229	WINDOW CASING	METAL	INTACT	BLUE	5.83	9/14/20 14:41:17	NEGATIVE	0.09	0.12
13	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	246	WALL	DRYWALL	PEELING	WHITE	6.51	9/14/20 14:43:25	NEGATIVE	0.2	0.12
14	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	243	ELECTRICAL PANEL	DRYWALL	INTACT	BLUE	5.74	9/14/20 14:44:25	NEGATIVE	0.19	0.12
15	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	242	WALL	MARLITE	INTACT	WHITE	5.58	9/14/20 14:47:25	NEGATIVE	0.28	0.13
16	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	224	CABINET	FORMICA	INTACT	BLUE	5.64	9/14/20 14:48:02	NEGATIVE	0.19	0.13
17	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	242	SINK	CERAMIC	INTACT	WHITE	5.58	9/14/20 14:48:47	POSITIVE	24.36	0.13
18	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	243	WALL	CLOTH	INTACT	OFF-WHITE	6.04	9/14/20 14:51:19	NEGATIVE	0.15	0.12
19	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	228	CABINET	WOOD	INTACT	VARNISH	5.66	9/14/20 14:57:07	NEGATIVE	0.02	0.13
20	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	228	DOOR	WOOD	INTACT	VARNISH	5.66	9/14/20 14:58:25	NEGATIVE	0.04	0.13
21	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	220	WALL	DRYWALL	INTACT	WHITE	6.76	9/14/20 15:01:34	NEGATIVE	0.29	0.12
22	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	223	WALL	CERAMIC	INTACT	WHITE	5.62	9/14/20 15:04:11	NEGATIVE	-0.56	0.13
23	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	223	WALL	CERAMIC	INTACT	BLUE	4.96	9/14/20 15:05:18	NEGATIVE	-0.34	0.13
24	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	223	COUNTERTOP	FORMICA	INTACT	BLUE	5.88	9/14/20 15:06:21	NEGATIVE	0.11	0.12
25	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	223	WALL	FORMICA	INTACT	BEIGE	5.59	9/14/20 15:07:24	NEGATIVE	0.21	0.13
26	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	223	TOILET	CERAMIC	INTACT	WHITE	4.79	9/14/20 15:08:54	NEGATIVE	-0.16	0.14
27	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	227	CABINET	FORMICA	INTACT	BLUE	5.8	9/14/20 15:15:08	NEGATIVE	0.07	0.12
28	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	227	DOOR FRAME	METAL	INTACT	BLUE	5.52	9/14/20 15:16:08	NEGATIVE	0.1	0.13
29	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	226	WALL	MARLITE	INTACT	WHITE	5.64	9/14/20 15:17:14	NEGATIVE	0.18	0.13
30	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	225	WALL	DRYWALL	PEELING	WHITE	5.77	9/14/20 15:17:53	NEGATIVE	0.11	0.12
31	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	225	SINK	CERAMIC	INTACT	WHITE	4.8	9/14/20 15:19:37	NEGATIVE	0.47	0.14
32	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	230	ELECTRICAL PANEL	METAL	INTACT	WHITE	5.71	9/14/20 15:21:19	NEGATIVE	0.18	0.13
33	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	SERVER RM	WALL	DRYWALL	INTACT	WHITE	5.49	9/14/20 15:24:17	NEGATIVE	0.17	0.13
34	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	SERVER RM	WINDOW CASING	WOOD	INTACT	VARNISH	5.01	9/14/20 15:27:18	NEGATIVE	-0.12	0.13
35	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	SERVER RM	RADIATOR	METAL	INTACT	WHITE	5.53	9/14/20 15:29:10	NEGATIVE	0.1	0.13
36	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	224	WALL	DRYWALL	INTACT	WHITE	4.91	9/14/20 15:34:56	NEGATIVE	0.12	0.13
37	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	RAILING	METAL	INTACT	BLUE	5.67	9/14/20 15:45:14	NEGATIVE	0.05	0.13
38	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	WALL	CLOTH	PEELING	WHITE	5.55	9/14/20 15:48:43	NEGATIVE	0.14	0.13
39	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	WINDOW CASING	METAL	INTACT	GRAY	5.49	9/14/20 15:51:31	NEGATIVE	0	0.13
40	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	230	DOOR FRAME	METAL	INTACT	BLUE	5.59	9/14/20 15:54:03	NEGATIVE	0.14	0.13
41	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	230	WALL	DRYWALL	INTACT	WHITE	5.45	9/14/20 15:55:46	NEGATIVE	0.22	0.13
42	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	STAIR	CERAMIC	INTACT	WHITE	5.57	9/14/20 16:00:07	NEGATIVE	0.22	0.13
43	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	TRIM	WOOD	INTACT	BLUE	5.72	9/14/20 16:01:07	NEGATIVE	0.13	0.13
44	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	TRIM	WOOD	INTACT	VARNISH	6.22	9/14/20 16:02:50	NEGATIVE	0.17	0.12
45	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	CEILING	WOOD	INTACT	VARNISH	6.08	9/14/20 16:04:43	NEGATIVE	0.12	0.12
46	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	TREAD	METAL	INTACT	SILVER	5.36	9/14/20 16:06:58	NEGATIVE	-0.16	0.13
47	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	217	LIGHT FIXTURE	WOOD	INTACT	VARNISH	5.79	9/14/20 16:09:54	NEGATIVE	0.15	0.12
48	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	216	COVE BASE	RUBBER	INTACT	BLACK	5.97	9/14/20 16:12:46	NEGATIVE	0.21	0.12
49	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 16:19:01	POSITIVE	1	0.1
50	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 16:19:15	POSITIVE	1	0.1
51	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/14/20 16:19:28	POSITIVE	1	0.1
52	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 13:04:28	NEGATIVE	0.9	0.1

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
53	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 13:04:41	POSITIVE	1	0.1
54	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 13:04:55	POSITIVE	1	0.1
55	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	DOOR FRAME	METAL	INTACT	BLUE	4.06	9/16/20 13:08:45	NEGATIVE	0.04	0.15
56	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	203	WALL	DRYWALL	INTACT	WHITE	5.92	9/16/20 13:09:33	NEGATIVE	0.17	0.12
57	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	203	RADIATOR	METAL	INTACT	WHITE	5.67	9/16/20 13:10:12	NEGATIVE	0.09	0.13
58	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	203	COUNTERTOP	FORMICA	INTACT	BROWN	5.47	9/16/20 13:12:51	NEGATIVE	0.22	0.13
59	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	203	CABINET	WOOD	INTACT	BROWN	5.52	9/16/20 13:14:20	NEGATIVE	0.27	0.13
60	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	WALL	FORMICA	INTACT	WHITE	5.54	9/16/20 13:17:38	NEGATIVE	0.22	0.13
61	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	CABINET	FORMICA	INTACT	BLUE	5.43	9/16/20 13:18:39	NEGATIVE	0.18	0.13
62	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	WALL	CLOTH	INTACT	OFF-WHITE	5.53	9/16/20 13:20:14	NEGATIVE	0.33	0.13
63	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	DRY ERASE BOARD	MARLITE	INTACT	WHITE	5.46	9/16/20 13:21:54	NEGATIVE	0.22	0.13
64	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	200	DRY ERASE BOARD	METAL	INTACT	WHITE	5.8	9/16/20 13:22:53	NEGATIVE	0.16	0.12
65	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	201	WINDOW CASING	WOOD	INTACT	VARNISH	7.07	9/16/20 13:25:21	NEGATIVE	0.04	0.11
66	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	201	WALL	DRYWALL	INTACT	WHITE	6.43	9/16/20 13:26:49	NEGATIVE	0.18	0.12
67	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	201	RADIATOR	METAL	INTACT	WHITE	6.84	9/16/20 13:29:24	NEGATIVE	0.07	0.11
68	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	206	WALL	MARLITE	INTACT	WHITE	5.58	9/16/20 13:31:49	NEGATIVE	0.17	0.13
69	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	206	SINK	CERAMIC	INTACT	WHITE	5.57	9/16/20 13:32:39	NEGATIVE	0.6	0.13
70	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	206	TOILET	CERAMIC	INTACT	WHITE	5.19	9/16/20 13:33:08	NEGATIVE	-0.05	0.13
71	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	212	WALL	DRYWALL	INTACT	GRAY	4.86	9/16/20 13:36:59	NEGATIVE	0.18	0.14
72	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	211	WALL	DRYWALL	INTACT	GRAY	5.47	9/16/20 13:37:19	NEGATIVE	0.17	0.13
73	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	212	WALL	DRYWALL	INTACT	WHITE	5.52	9/16/20 13:38:00	NEGATIVE	0.04	0.13
74	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	204	COUNTERTOP	FORMICA	INTACT	BLUE	5.7	9/16/20 13:39:38	NEGATIVE	0.2	0.13
75	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	204	CABINET	WOOD	INTACT	BROWN	5.73	9/16/20 13:40:32	NEGATIVE	0.14	0.12
76	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	204	WALL	DRYWALL	INTACT	WHITE	4.77	9/16/20 13:42:34	NEGATIVE	0.17	0.14
77	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	205	SINK	CERAMIC	INTACT	WHITE	4.76	9/16/20 13:44:10	POSITIVE	25.09	0.14
78	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	205	COUNTERTOP	FORMICA	INTACT	GRAY	5.38	9/16/20 13:45:04	NEGATIVE	0.18	0.13
79	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	205	DOOR	WOOD	INTACT	VARNISH	5.37	9/16/20 13:46:07	NEGATIVE	0.03	0.13
80	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	209	WALL	DRYWALL	INTACT	WHITE	3.74	9/16/20 13:54:07	NEGATIVE	0.2	0.15
81	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	210	WINDOW TRIM	WOOD	INTACT	VARNISH	5.3	9/16/20 13:54:48	NEGATIVE	0.11	0.13
82	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	211	COUNTERTOP	EPOXY	INTACT	DK BROWN	5.61	9/16/20 13:57:49	NEGATIVE	0.19	0.13
83	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	WALL	DRYWALL	INTACT	WHITE	5.05	9/16/20 14:34:01	NEGATIVE	0.12	0.13
84	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	COUNTERTOP	FORMICA	INTACT	WHITE	6.66	9/16/20 14:34:35	NEGATIVE	0.08	0.12
85	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	COUNTERTOP	FORMICA	INTACT	BLUE	5.93	9/16/20 14:35:06	NEGATIVE	0.19	0.12
86	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	CONDUIT	METAL	INTACT	OFF-WHITE	5.28	9/16/20 14:37:42	NEGATIVE	0.12	0.13
87	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	WINDOW SILL	WOOD	INTACT	VARNISH	4.8	9/16/20 14:39:38	NEGATIVE	0.24	0.14
88	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	232	WALL	DRYWALL	INTACT	WHITE	5.58	9/16/20 14:40:55	NEGATIVE	0.17	0.13
89	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	235	WALL	DRYWALL	INTACT	WHITE	5.94	9/16/20 14:44:21	NEGATIVE	0.18	0.12
90	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	235	WINDOW CASING	WOOD	INTACT	WHITE	6.19	9/16/20 14:45:51	NEGATIVE	0.09	0.12
91	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	235	WALL	DRYWALL	INTACT	WHITE	5.68	9/16/20 14:52:35	NEGATIVE	0.2	0.13
92	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	235	RADIATOR	METAL	INTACT	WHITE	6	9/16/20 14:53:56	NEGATIVE	0.04	0.12
93	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	235	WALL	DRYWALL	INTACT	WHITE	5.49	9/16/20 14:57:51	NEGATIVE	0.14	0.13
94	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	237	COUNTERTOP	FORMICA	INTACT	WHITE	6.15	9/16/20 14:59:11	NEGATIVE	0.18	0.12
95	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	236	HAND RAIL	METAL	INTACT	BLUE	4.69	9/16/20 15:05:24	NEGATIVE	0.12	0.14
96	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	236	COVE BASE	WOOD	INTACT	BLUE	5.56	9/16/20 15:06:09	NEGATIVE	0.07	0.13
97	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	SECOND	236	WALL	CMU	INTACT	WHITE	5.4	9/16/20 15:07:29	NEGATIVE	-0.06	0.13
98	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 15:16:27	POSITIVE	1	0.1
99	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 15:16:42	POSITIVE	1	0.1
100	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 15:16:55	POSITIVE	1	0.1
101	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 19:46:17	POSITIVE	1.1	0.1
102	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 19:46:31	POSITIVE	1.1	0.1
103	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 19:46:44	POSITIVE	1	0.1
104	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	DOOR FRAME	METAL	INTACT	BLUE	5.52	9/16/20 19:55:47	NEGATIVE	0.11	0.13
105	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	WALL	WOOD	INTACT	BLUE	5.82	9/16/20 19:56:52	NEGATIVE	0.04	0.12

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
106	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	DOOR FRAME	METAL	INTACT	BLUE	5.74	9/16/20 19:57:48	NEGATIVE	0.12	0.12
107	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	FLOOR	CONCRETE	INTACT	WHITE	5.71	9/16/20 19:58:53	NEGATIVE	0.13	0.13
108	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	FLOOR	CONCRETE	INTACT	RED	5.65	9/16/20 19:59:57	NEGATIVE	0.18	0.13
109	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	DOOR	WOOD	INTACT	GRAY	5.84	9/16/20 20:02:13	NEGATIVE	0.11	0.12
110	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	CEILING	DRYWALL	INTACT	WHITE	5.56	9/16/20 20:04:58	NEGATIVE	0.15	0.13
111	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	DOOR	METAL	INTACT	WHITE	5.02	9/16/20 20:09:35	NEGATIVE	0.12	0.13
112	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	DOOR	METAL	INTACT	WHITE	6.45	9/16/20 20:10:15	NEGATIVE	0.14	0.12
113	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	SHELF	METAL	INTACT	BLUE	5.35	9/16/20 20:11:54	NEGATIVE	0.13	0.13
114	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	SHELF	METAL	INTACT	GRAY	6.68	9/16/20 20:13:03	NEGATIVE	0.67	0.12
115	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	WALL	WOOD	INTACT	GRAY	5.47	9/16/20 20:14:00	NEGATIVE	0.07	0.13
116	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	WALL	WOOD	INTACT	GRAY	5.87	9/16/20 20:14:34	NEGATIVE	0.02	0.12
117	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	PIPE	METAL	INTACT	WHITE	5.44	9/16/20 20:15:22	NEGATIVE	0.1	0.13
118	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	LADDER	METAL	INTACT	WHITE	6.32	9/16/20 20:16:53	NEGATIVE	0.77	0.12
119	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	101	DOOR	METAL	INTACT	BLUE	5.28	9/16/20 20:17:56	NEGATIVE	0.06	0.13
120	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	101	COUNTERTOP	WOOD	INTACT	BLACK	6.26	9/16/20 20:20:20	NEGATIVE	0.15	0.12
121	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	104	EQUIPMENT	METAL	INTACT	BLUE	4.18	9/16/20 20:22:13	NEGATIVE	0.1	0.15
122	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	100	ELECTRICAL PANEL	METAL	INTACT	GRAY	6.02	9/16/20 20:24:18	NEGATIVE	0.1	0.12
123	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	112	CURB	CERAMIC	INTACT	RED	5.9	9/16/20 20:26:50	NEGATIVE	0.08	0.12
124	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	112	HAND RAIL	METAL	INTACT	BLUE	5.66	9/16/20 20:27:55	NEGATIVE	0.03	0.13
125	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	112	WINDOW CASING	METAL	INTACT	BLUE	5.14	9/16/20 20:37:14	NEGATIVE	0.13	0.13
126	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	114	WALL	CERAMIC	INTACT	BLUE	5.42	9/16/20 20:39:25	NEGATIVE	-0.29	0.13
127	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	114	WALL	CERAMIC	INTACT	WHITE	6.45	9/16/20 20:39:59	NEGATIVE	0.21	0.12
128	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B100	STAIR	WOOD	INTACT	BLUE	4.52	9/16/20 21:40:56	NEGATIVE	0.17	0.14
129	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B101	SECURITY GATE	METAL	INTACT	BLACK	5.59	9/16/20 21:43:58	NEGATIVE	0.11	0.13
130	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B104	DOOR FRAME	METAL	INTACT	OFF-WHITE	5.34	9/16/20 21:46:39	NEGATIVE	0.68	0.13
131	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B106	WALL	CERAMIC	INTACT	OFF-WHITE	5.64	9/16/20 21:47:37	NEGATIVE	0.17	0.13
132	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B107	WALL	CERAMIC	INTACT	BLUE	5.1	9/16/20 21:48:48	NEGATIVE	-0.45	0.13
133	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B104	WALL	CONCRETE	INTACT	WHITE	5.47	9/16/20 21:51:26	NEGATIVE	0.21	0.13
134	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B109	WINDOW CASING	METAL	INTACT	BEIGE	6.53	9/16/20 21:53:09	NEGATIVE	0.11	0.12
135	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B109	DOOR	METAL	INTACT	BLUE	5.41	9/16/20 21:55:15	NEGATIVE	0.13	0.13
136	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B110	RADIATOR	METAL	INTACT	BEIGE	5.03	9/16/20 21:57:58	NEGATIVE	0.12	0.13
137	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B108	WALL	CONCRETE	INTACT	OFF-WHITE	5.19	9/16/20 21:59:00	NEGATIVE	0.22	0.13
138	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B113	ELECTRICAL PANEL	METAL	INTACT	BROWN	5.88	9/16/20 22:00:04	NEGATIVE	0.06	0.12
139	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B113	COLUMN	METAL	INTACT	BROWN	4.88	9/16/20 22:01:39	NEGATIVE	0.17	0.14
140	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B108	WALL (LIKELY BULLETS)	METAL	INTACT	BROWN	5.88	9/16/20 22:03:39	POSITIVE	2.37	0.12
141	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B108	WALL	METAL	INTACT	BROWN	5.66	9/16/20 22:04:16	NEGATIVE	0.19	0.13
142	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B108	HAND RAIL	METAL	INTACT	BLUE	5.73	9/16/20 22:07:02	NEGATIVE	0.08	0.12
143	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B111	WALL	CONCRETE	INTACT	BEIGE	4.34	9/16/20 22:07:53	NEGATIVE	0.15	0.14
144	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B102	DOOR	METAL	INTACT	ORANGE	6.71	9/16/20 22:10:35	NEGATIVE	0.08	0.12
145	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B102	WALL	CONCRETE	INTACT	GRAY	3.72	9/16/20 22:11:45	NEGATIVE	0.15	0.16
146	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B102	DUCT	METAL	INTACT	WHITE	5.47	9/16/20 22:12:54	NEGATIVE	0.07	0.13
147	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B102	FLOOR	CONCRETE	INTACT	GRAY	5.38	9/16/20 22:13:37	NEGATIVE	0.14	0.13
148	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B112	ELECTRICAL PANEL	METAL	INTACT	GRAY	6.8	9/16/20 22:16:41	NEGATIVE	0.12	0.11
149	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B112	MECHANICAL EQUIP	METAL	INTACT	YELLOW	5.49	9/16/20 22:17:30	NEGATIVE	0.14	0.13
150	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	B106	PARTITION	FORMICA	INTACT	BLUE	5.98	9/16/20 22:19:07	NEGATIVE	0.11	0.12
151	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 22:21:15	POSITIVE	1	0.1
152	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 22:21:28	POSITIVE	1	0.1
153	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/16/20 22:21:40	POSITIVE	1	0.1
154	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 12:32:01	POSITIVE	1.1	0.1
155	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 12:32:14	POSITIVE	1	0.1
156	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 12:32:27	POSITIVE	1.1	0.1
157	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	118	DOOR FRAME	METAL	INTACT	BLUE	2	9/17/20 12:40:58	NEGATIVE	0.2	0.3
158	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	118	WALL	DRYWALL	INTACT	WHITE	5.63	9/17/20 12:41:44	NEGATIVE	0.15	0.13

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
159	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	118	WINDOW CASING	METAL	INTACT	BLUE	5.58	9/17/20 12:43:26	NEGATIVE	0.06	0.13
160	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	119	RADIATOR	METAL	INTACT	WHITE	5.65	9/17/20 12:45:17	NEGATIVE	-0.01	0.13
161	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	118	ELECTRICAL PANEL	METAL	INTACT	WHITE	5.79	9/17/20 12:46:22	NEGATIVE	0.12	0.12
162	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	116	CABINET	FORMICA	INTACT	BLUE	5.16	9/17/20 12:47:30	NEGATIVE	0.14	0.13
163	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	116	WALL	MARLITE	INTACT	WHITE	5.79	9/17/20 12:48:09	NEGATIVE	0.18	0.12
164	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	116	TOILET	CERAMIC	INTACT	WHITE	4.5	9/17/20 12:48:44	NEGATIVE	-0.08	0.14
165	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	123	LOCKER	FORMICA	INTACT	BLUE	5.62	9/17/20 12:50:40	NEGATIVE	0.11	0.13
166	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	133	DOOR	WOOD	INTACT	VARNISH	5.57	9/17/20 12:52:21	NEGATIVE	0.1	0.13
167	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	134	COUNTERTOP	FORMICA	INTACT	PINK	5.74	9/17/20 12:54:55	NEGATIVE	0.11	0.12
168	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	134	WALL	FRP	INTACT	WHITE	5.6	9/17/20 12:56:37	NEGATIVE	0.14	0.13
169	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	133	WALL	CMU	INTACT	WHITE	5.71	9/17/20 12:57:59	NEGATIVE	-0.17	0.13
170	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	134	CABINET	PLASTIC	INTACT	WHITE	5.62	9/17/20 13:01:27	NEGATIVE	0.27	0.13
171	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	133	DOOR	METAL	INTACT	BLUE	5.71	9/17/20 13:07:03	NEGATIVE	0.13	0.13
172	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	HAND RAIL	METAL	INTACT	RED	5.57	9/17/20 13:07:41	NEGATIVE	0.09	0.13
173	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	133	RADIATOR	METAL	INTACT	WHITE	4.91	9/17/20 13:08:15	NEGATIVE	0.11	0.13
174	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	132	WALL	MARLITE	INTACT	WHITE	5.87	9/17/20 13:09:41	NEGATIVE	0.26	0.12
175	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	132	SINK	CERAMIC	INTACT	WHITE	3.33	9/17/20 13:10:20	POSITIVE	24.89	0.16
176	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	129	COUNTERTOP	FORMICA	INTACT	GRAY	6.41	9/17/20 13:13:28	NEGATIVE	0.19	0.12
177	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	129	WALL	DRYWALL	INTACT	GRAY	5.5	9/17/20 13:14:52	NEGATIVE	0.17	0.13
178	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	125	WALL	DRYWALL	INTACT	WHITE	5.33	9/17/20 13:17:50	NEGATIVE	0.28	0.13
179	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	127	COUNTERTOP	WOOD	INTACT	VARNISH	4.14	9/17/20 13:20:37	NEGATIVE	0.2	0.15
180	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	126	WALL	DRYWALL	INTACT	BLUE	5.39	9/17/20 13:22:02	NEGATIVE	0.13	0.13
181	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	126	WALL	DRYWALL	INTACT	YELLOW	5.64	9/17/20 13:22:30	NEGATIVE	0.13	0.13
182	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	128	WALL	DRYWALL	INTACT	WHITE	5.63	9/17/20 13:24:27	NEGATIVE	0.15	0.13
183	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	135	WALL	CMU	INTACT	GRAY	5.4	9/17/20 13:29:22	NEGATIVE	-0.1	0.13
184	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	138	CEILING	METAL	INTACT	WHITE	4.06	9/17/20 13:31:24	NEGATIVE	0.42	0.15
185	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	146	COUNTERTOP	PLASTIC	INTACT	ORANGE	4.3	9/17/20 13:33:02	NEGATIVE	-0.03	0.14
186	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	142	COUNTERTOP	METAL	INTACT	WHITE	4.86	9/17/20 13:34:54	NEGATIVE	0.77	0.14
187	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	142	WINDOW CASING	METAL	INTACT	BLUE	5.61	9/17/20 13:36:47	NEGATIVE	0.13	0.13
188	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	144	SINK	CERAMIC	INTACT	WHITE	3.1	9/17/20 13:37:49	POSITIVE	22.72	0.17
189	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	144	DOOR	METAL	INTACT	GRAY	3.53	9/17/20 13:39:14	NEGATIVE	0.1	0.16
190	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	COLUMN	METAL	INTACT	RED	5.4	9/17/20 13:48:22	NEGATIVE	0.45	0.13
191	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WINDOW CASING	VINYL	INTACT	WHITE	5.02	9/17/20 13:49:26	NEGATIVE	0.25	0.13
192	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WALL	WOOD	INTACT	GRAY	6	9/17/20 13:50:57	NEGATIVE	-0.02	0.12
193	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	113	WALL	DRYWALL	INTACT	RED	5.47	9/17/20 13:53:21	NEGATIVE	0.19	0.13
194	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WALL	WOOD	INTACT	GRAY	5.5	9/17/20 13:54:57	NEGATIVE	-0.05	0.13
195	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	BOLLARD	METAL	INTACT	YELLOW	6.22	9/17/20 13:56:00	POSITIVE	1.88	0.12
196	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	DOOR	METAL	INTACT	BLUE	6.02	9/17/20 13:57:09	NEGATIVE	0.07	0.12
197	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WALL	METAL	INTACT	GRAY	5.85	9/17/20 13:57:56	NEGATIVE	0.03	0.12
198	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	DOOR FRAME	METAL	INTACT	WHITE	5.51	9/17/20 13:58:39	NEGATIVE	0.03	0.13
199	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	DOOR	METAL	PEELING	WHITE	5.47	9/17/20 14:00:09	NEGATIVE	0.11	0.13
200	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WALL	METAL	PEELING	GRAY	5.36	9/17/20 14:01:19	NEGATIVE	0.17	0.13
201	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	WINDOW CASING	VINYL	PEELING	LT BROWN	5.51	9/17/20 14:03:53	NEGATIVE	0.08	0.13
202	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	DOOR	METAL	INTACT	BLUE	5.35	9/17/20 14:05:47	NEGATIVE	0.03	0.13
203	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	BOLLARD	METAL	INTACT	YELLOW	6.4	9/17/20 14:06:48	POSITIVE	1.54	0.12
204	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	FIRST	EXTERIOR	HAND RAIL	METAL	POOR	RED	5.43	9/17/20 14:08:41	NEGATIVE	0.09	0.13
205	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	COLUMN	METAL	POOR	GRAY	5.46	9/17/20 14:11:13	NEGATIVE	0.7	0.13
206	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	DOOR	METAL	INTACT	GRAY	7.22	9/17/20 14:13:06	NEGATIVE	0.04	0.11
207	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	COLUMN	CONCRETE	INTACT	YELLOW	4.23	9/17/20 14:19:12	NEGATIVE	0.18	0.15
208	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	DOOR	METAL	INTACT	GRAY	5.18	9/17/20 14:22:46	NEGATIVE	0.02	0.13
209	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	WALL	WOOD	INTACT	GRAY	5.6	9/17/20 14:25:25	NEGATIVE	0.09	0.13
210	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	LOUVER	METAL	INTACT	BROWN	5.4	9/17/20 14:27:23	NEGATIVE	0.34	0.13
211	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	LOUVER	METAL	INTACT	BROWN	5.76	9/17/20 14:28:24	NEGATIVE	0.37	0.12

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
212	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	BASEMENT	PARKING	COLUMN	WOOD	INTACT	GRAY	5.61	9/17/20 14:30:14	NEGATIVE	0.13	0.13
213	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 14:45:43	POSITIVE	1	0.1
214	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 14:45:56	POSITIVE	1.1	0.1
215	WRANGELL PUBLIC SAFETY BUILDING	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 14:46:09	POSITIVE	1.1	0.1

Table Heading Descriptions:

Duration: This is the nominal time in "source" seconds that each sample was analyzed.

LBP: Results are shown as positive (POS \geq 1.0 mg/cm²) or negative (NEG < 1.0 mg/cm²). Positive results are shown in bold print.

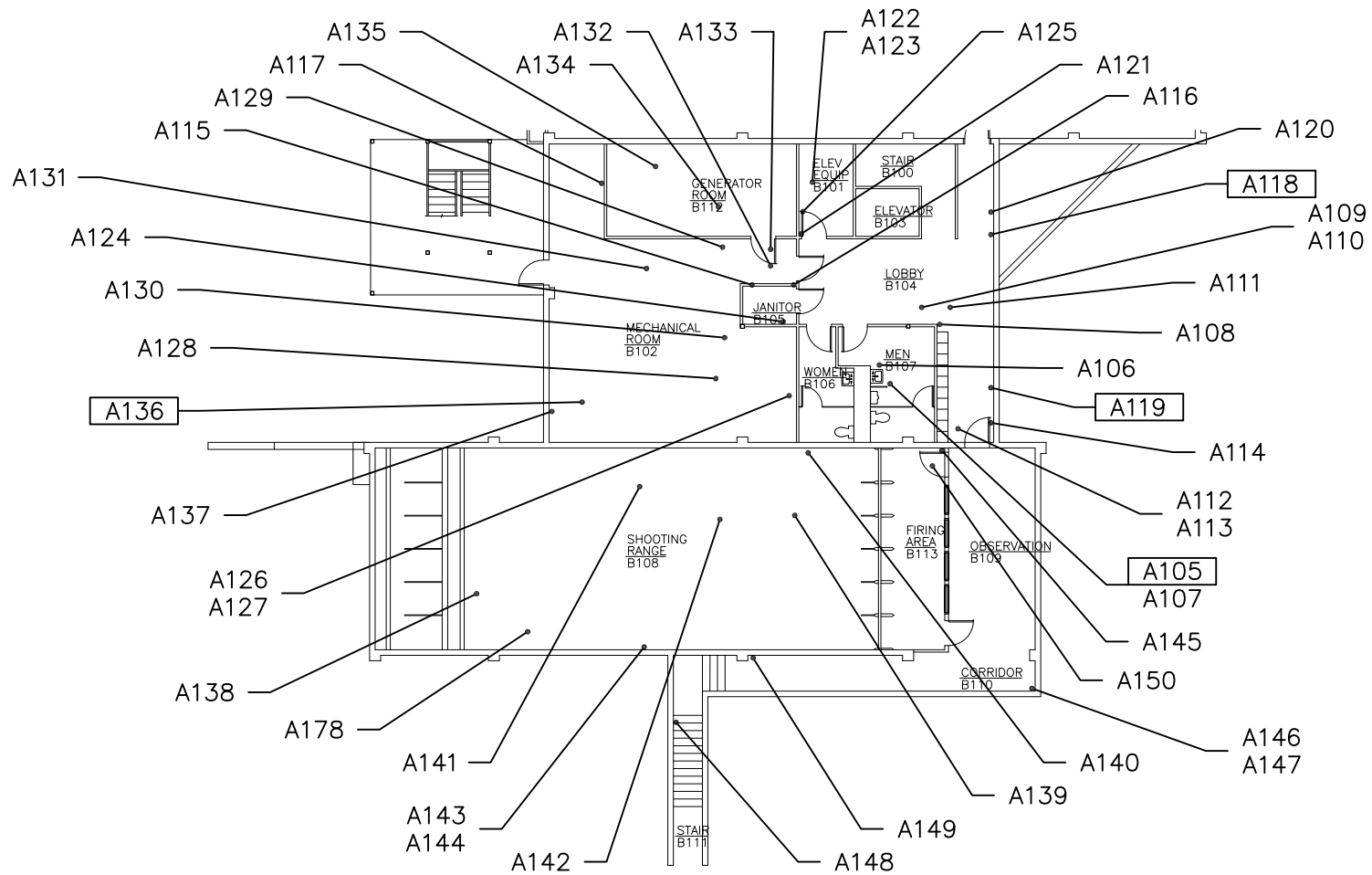
mg/cm²: This is the testing results produced by the Heuresis Pb200i instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm²) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

Substrate: Where ceramic is shown as a substrate, lead content is typically from the glazing on the tile unless the tile is painted.

APPENDIX C

Drawings of Sample Locations



1
C-1

BASEMENT SOUTH
NTS



LEGEND

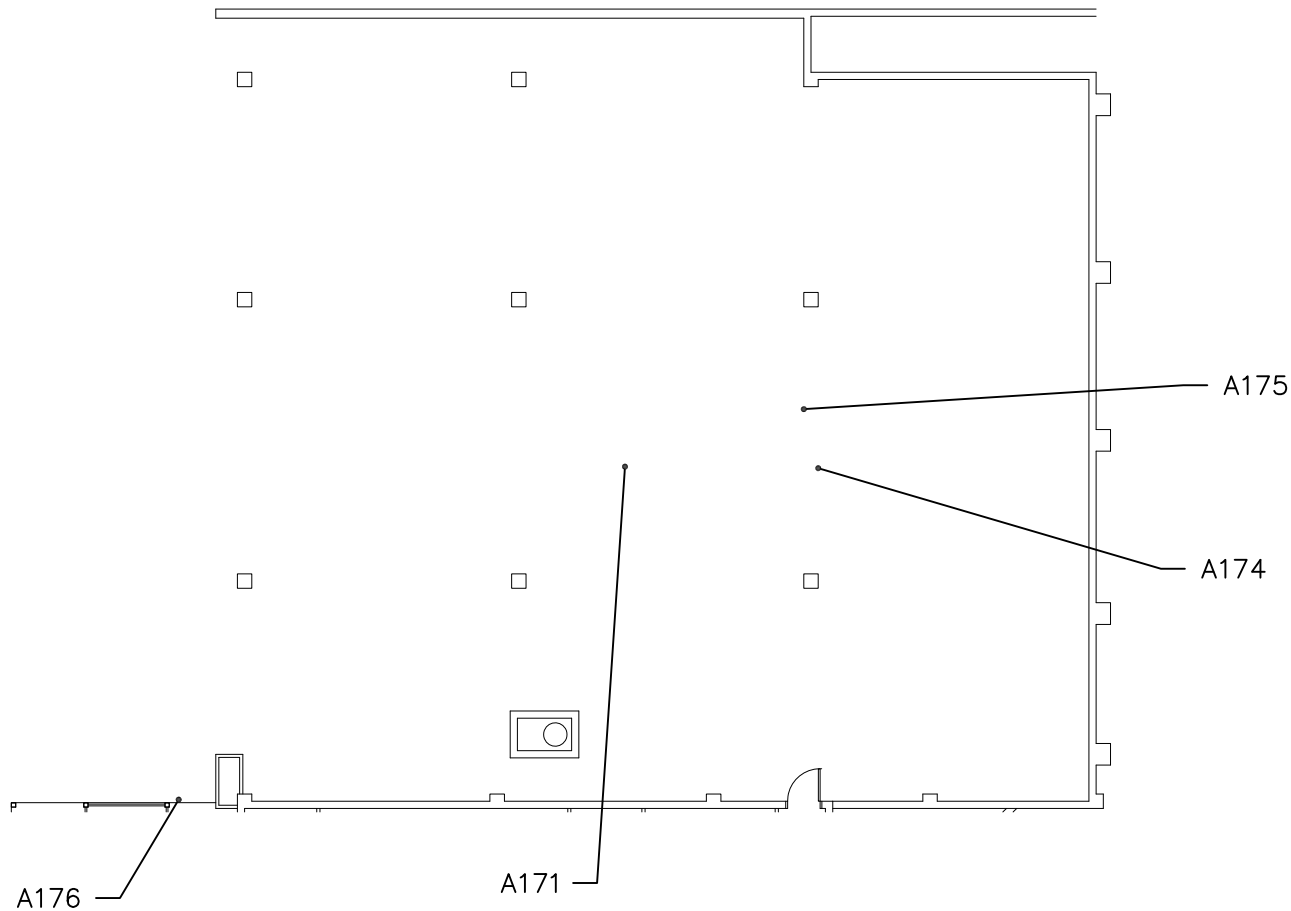
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO:
FILE #:	
7795-02-SL	C-1



1
C-2

BASEMENT NORTH
NTS



LEGEND

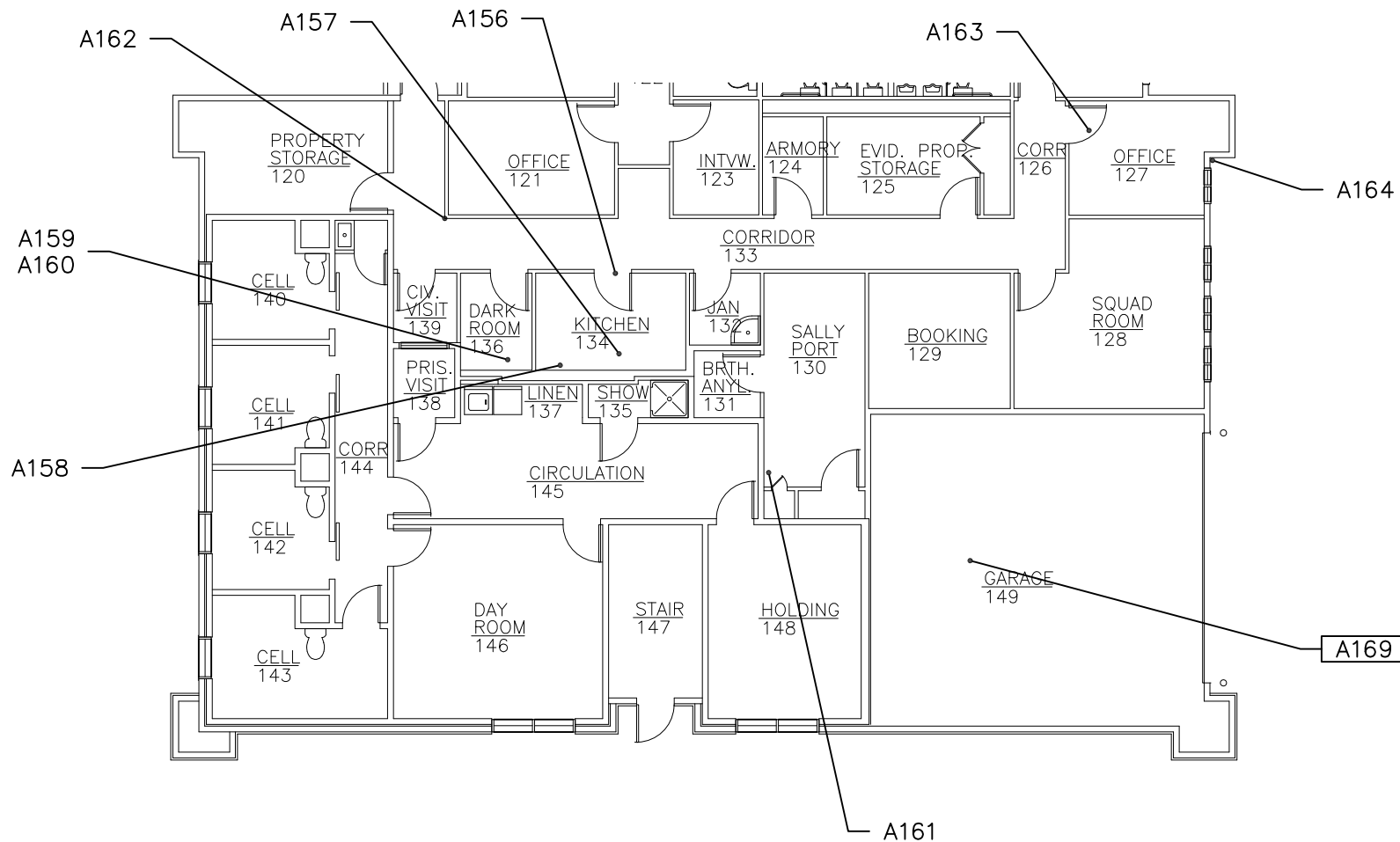
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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FILE #:	C-2
7795-02-SL	



FIRST FLOOR SOUTH
NTS

LEGEND

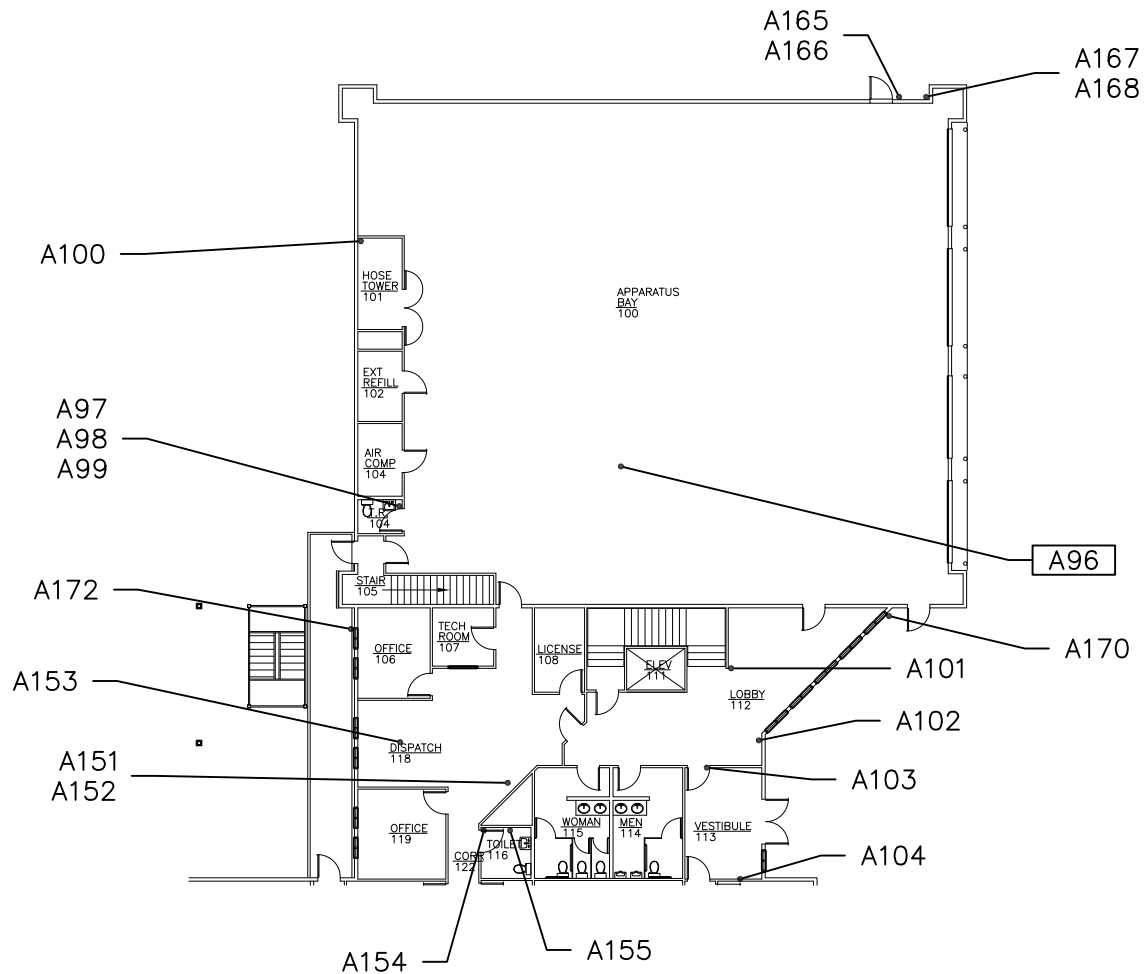
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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7795-02-SL	



1
C-4

FIRST FLOOR NORTH
NTS



LEGEND

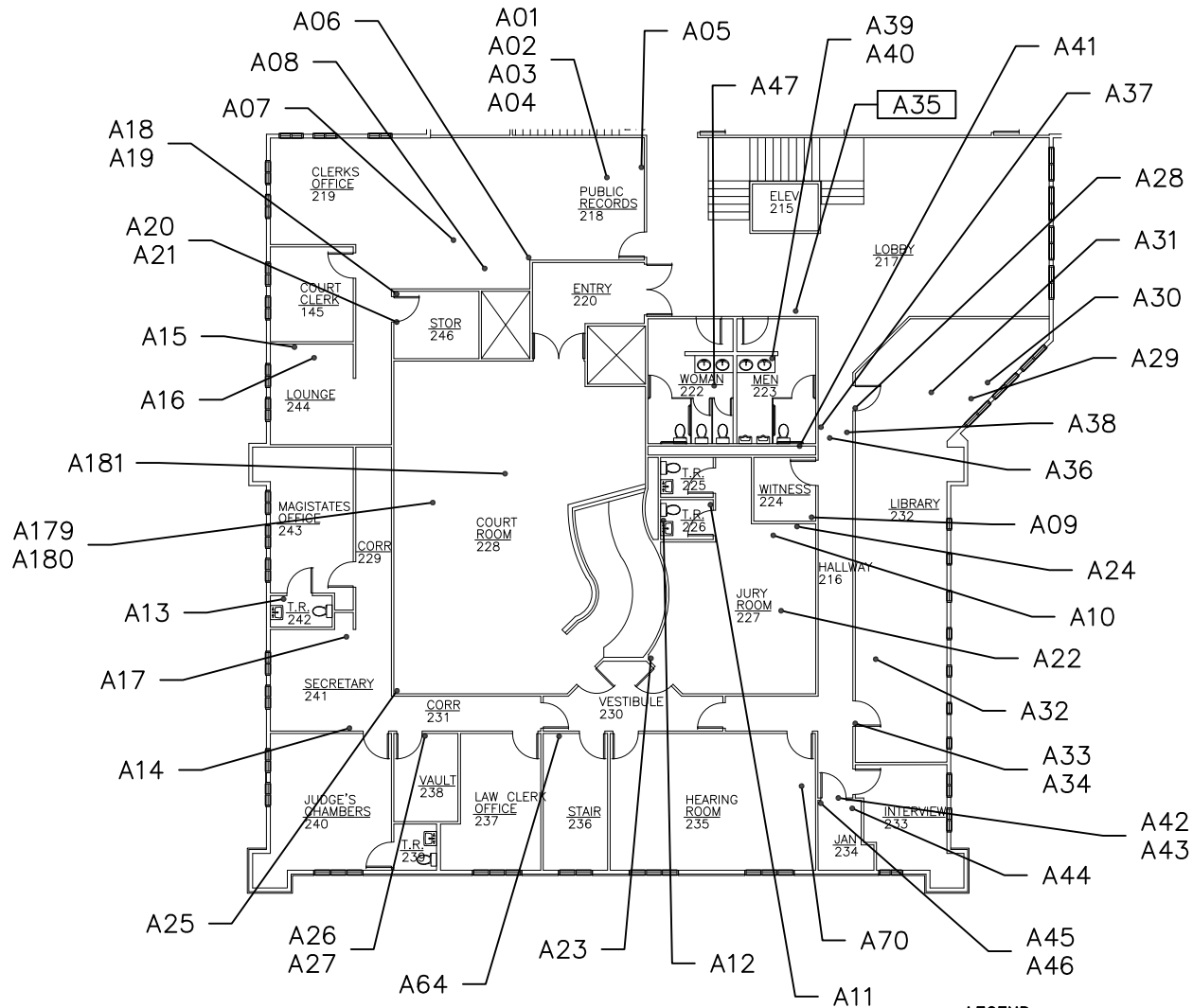
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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FILE #:	
7795-02-SL	C-4



1 SECOND FLOOR SOUTH
C-5 NTS

LEGEND

— Axx ASBESTOS TEST LOCATION

— **Axx** LAB TEST RESULTS POSITIVE FOR ASBESTOS

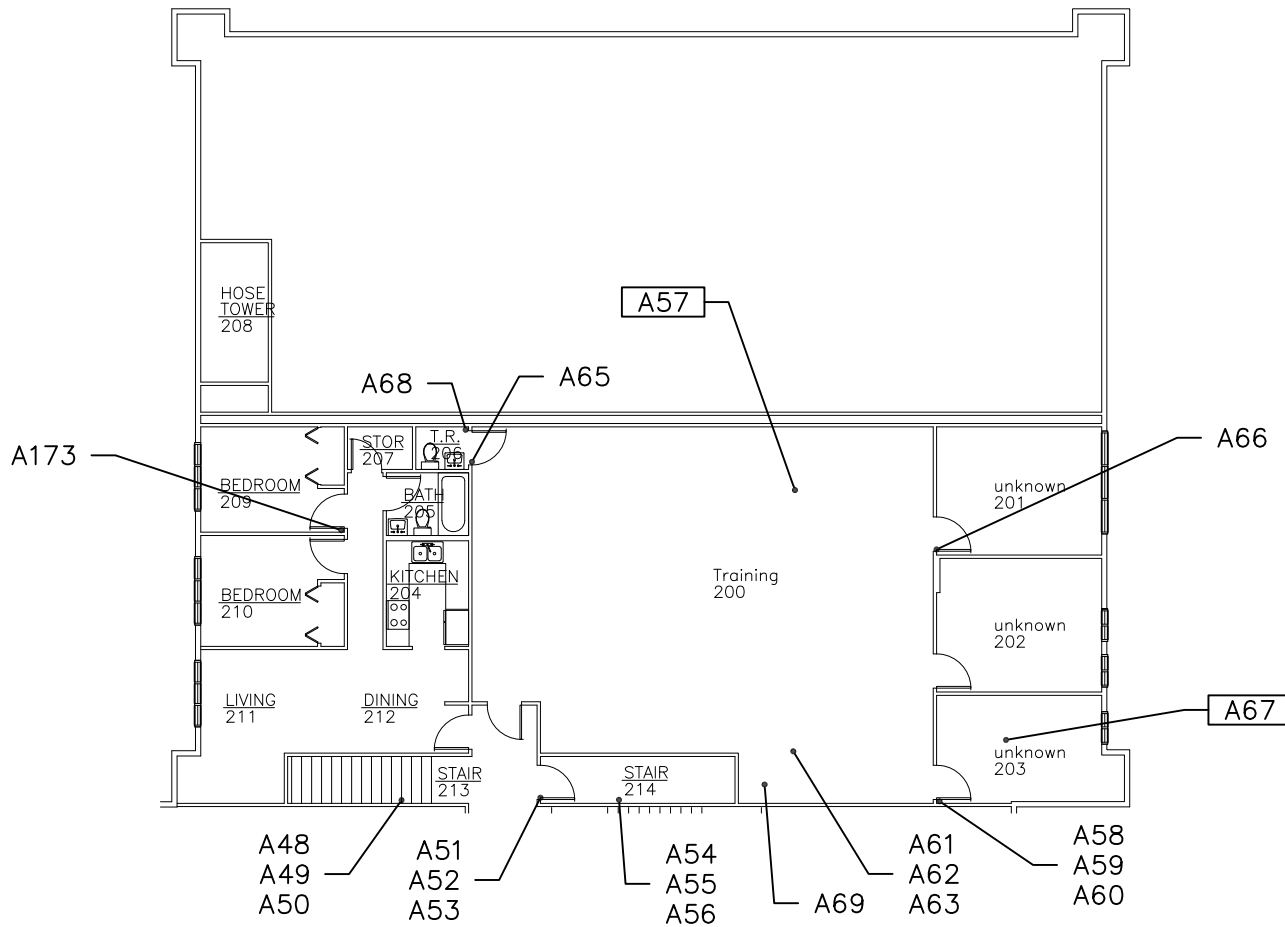
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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CHECK: RAF	DWG.NO:
FILE #:	7795-02-SL C-5



1 SECOND FLOOR NORTH
C-6 NTS



LEGEND

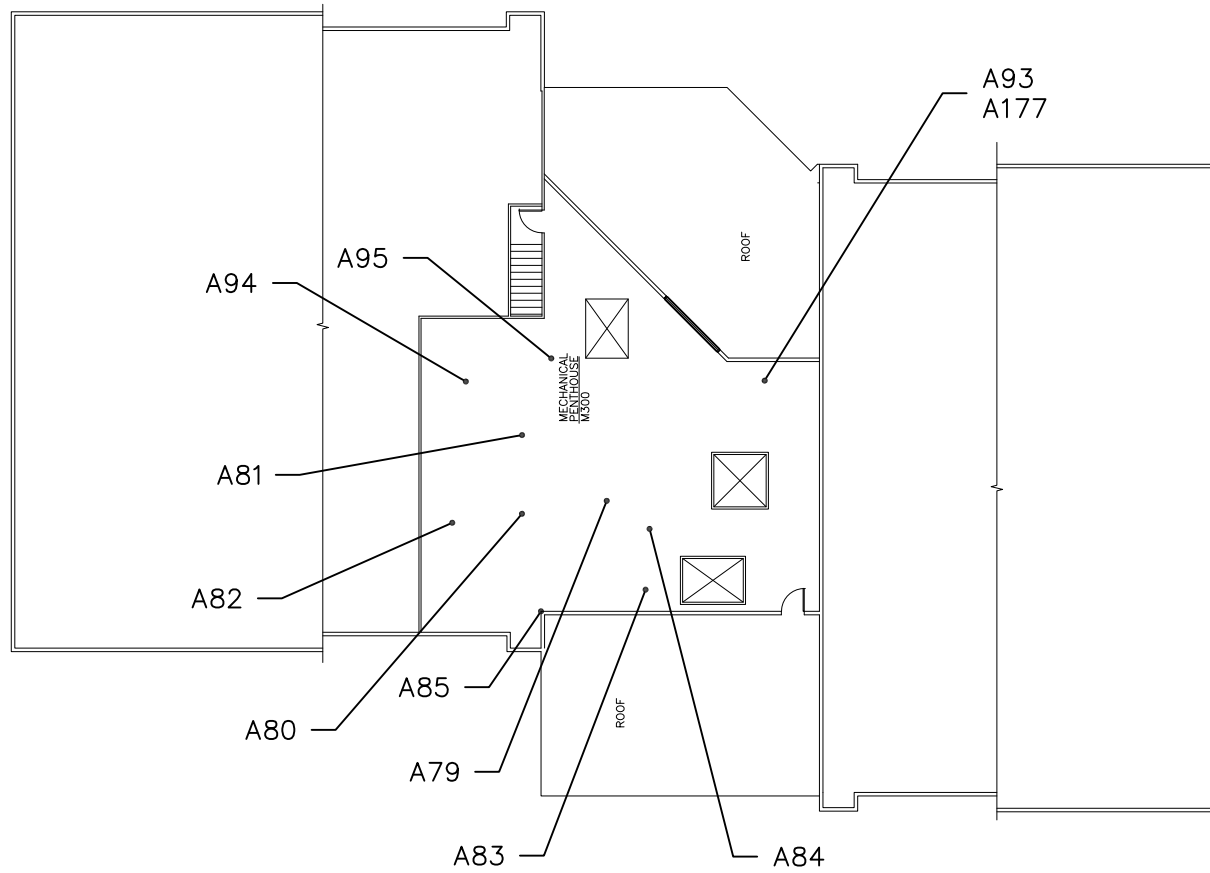
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 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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1
C-7

MECHANICAL ROOM
NTS



LEGEND

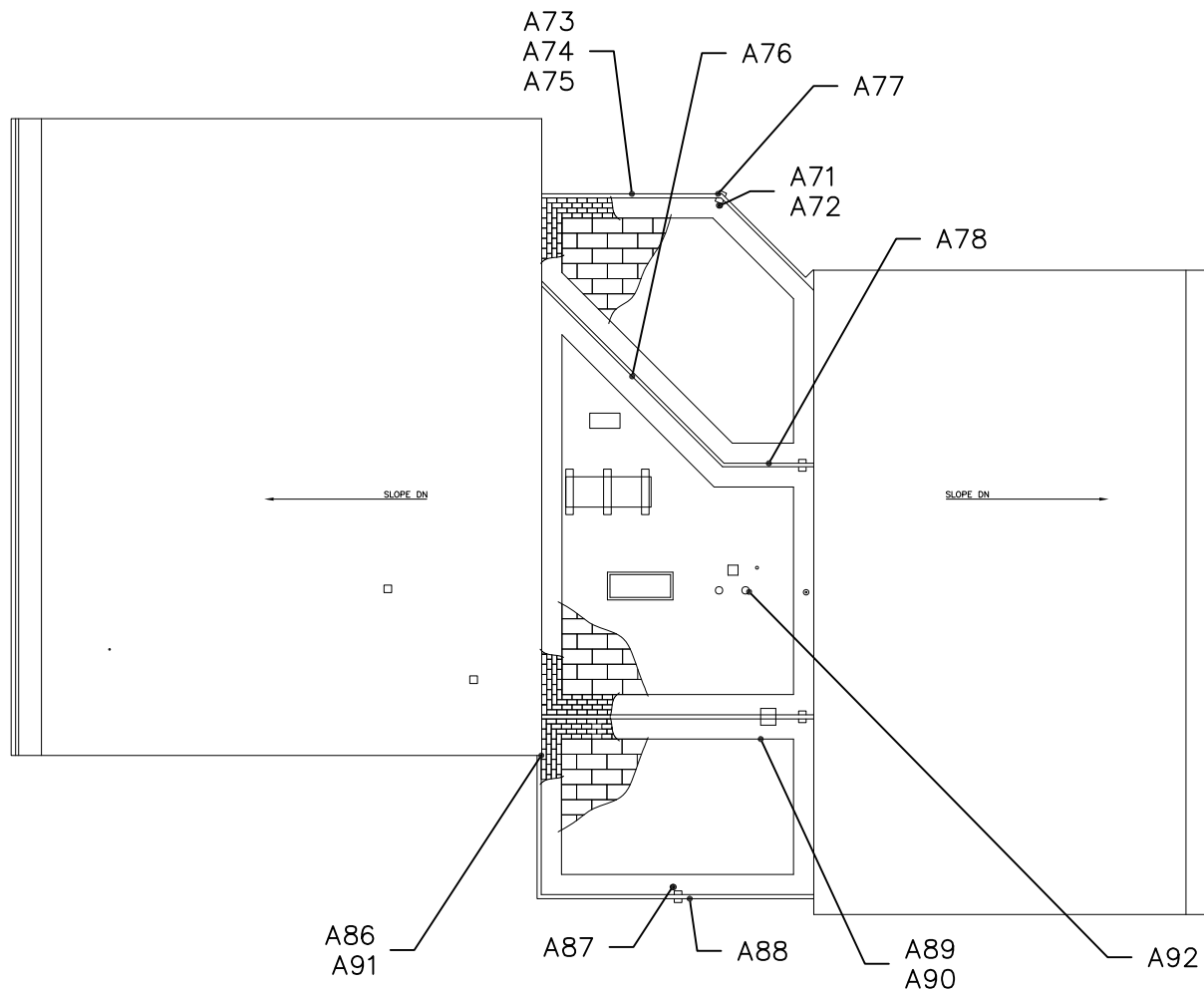
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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FILE #:	C-7
7795-02-SL	



1
C-8

ROOF
NTS



LEGEND

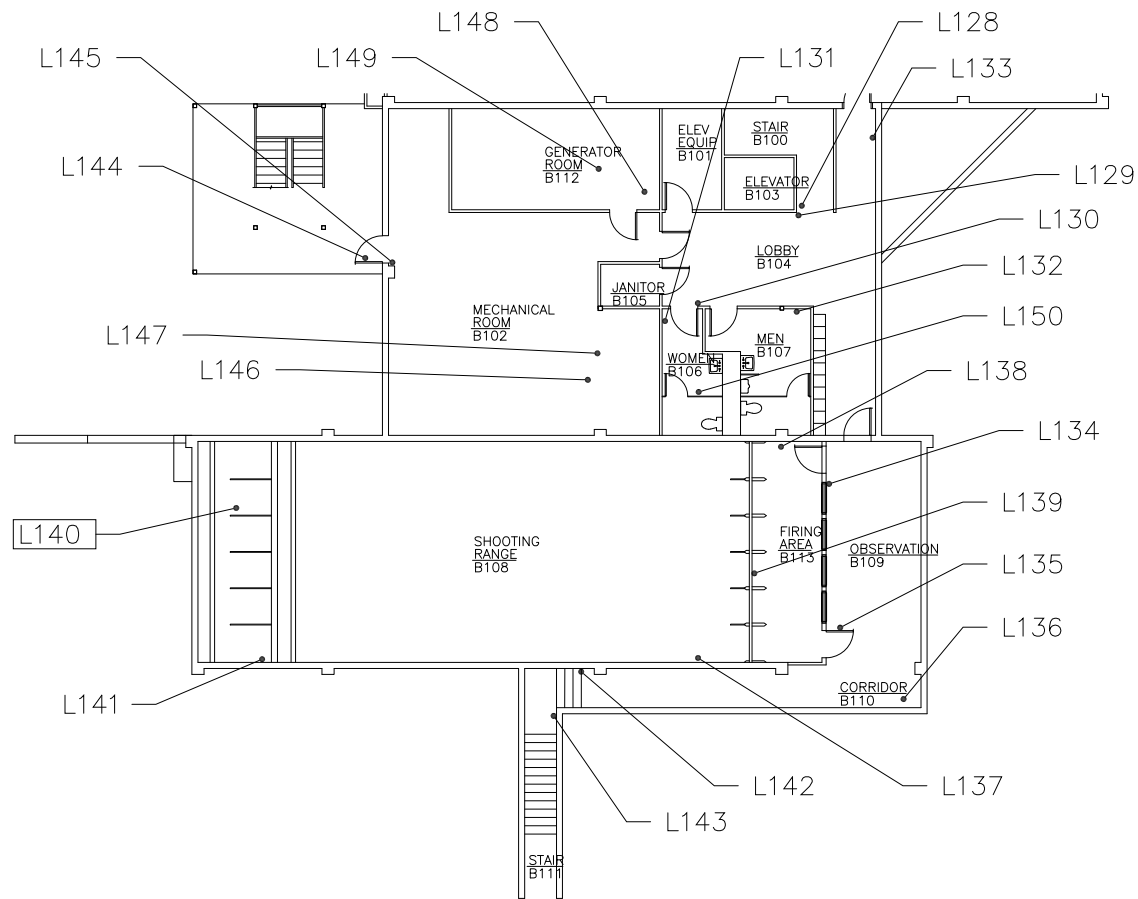
- AXX ASBESTOS TEST LOCATION
 - AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE WPS920- PREFIX.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



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7795-02-SL	



1
C-9

BASEMENT SOUTH
NTS



LEGEND

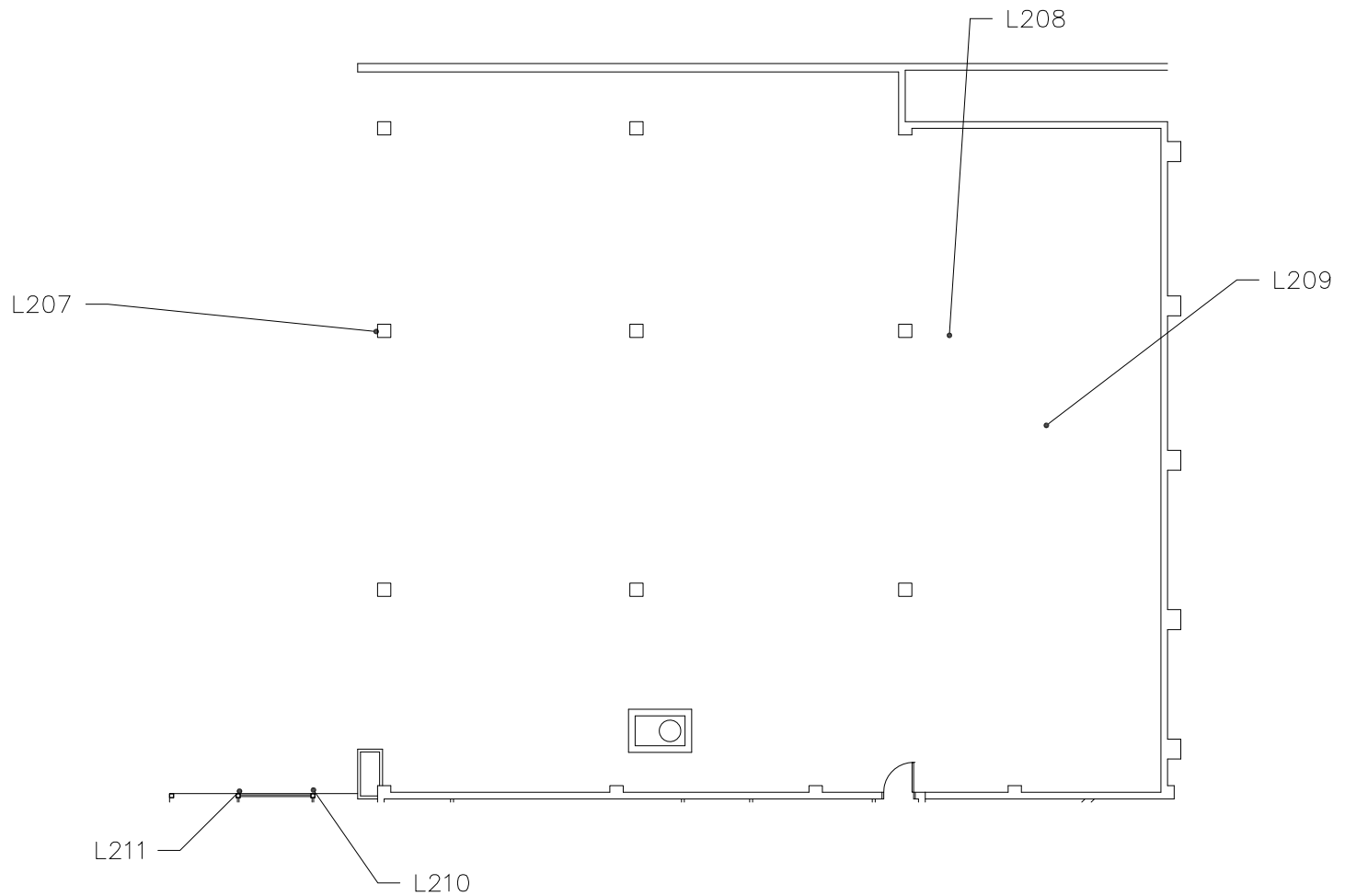
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



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7795-02-SL	



1
C-10

BASEMENT NORTH
NTS



LEGEND

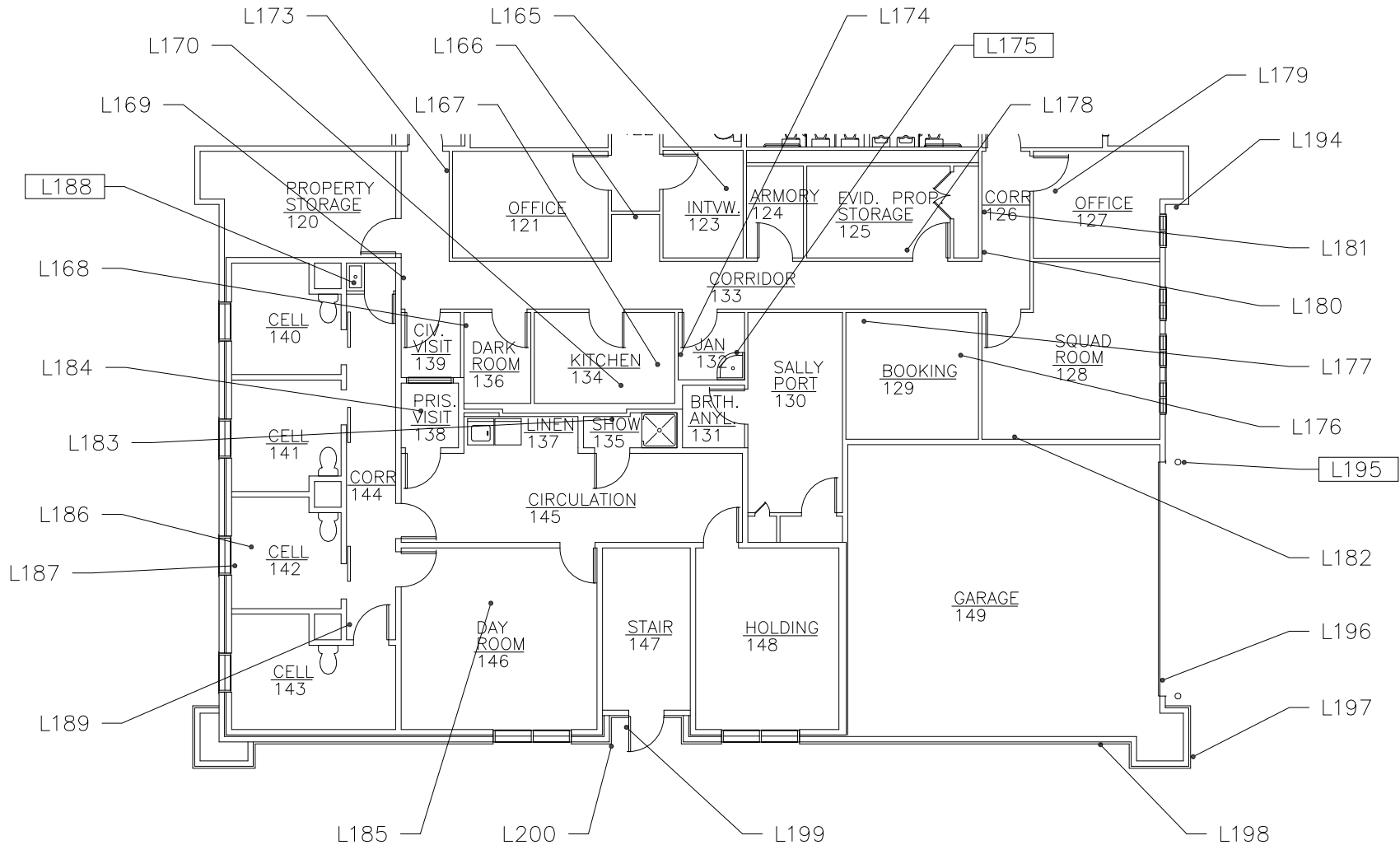
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



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7795-02-SL	



1 FIRST FLOOR SOUTH
C-11 NTS

LEGEND

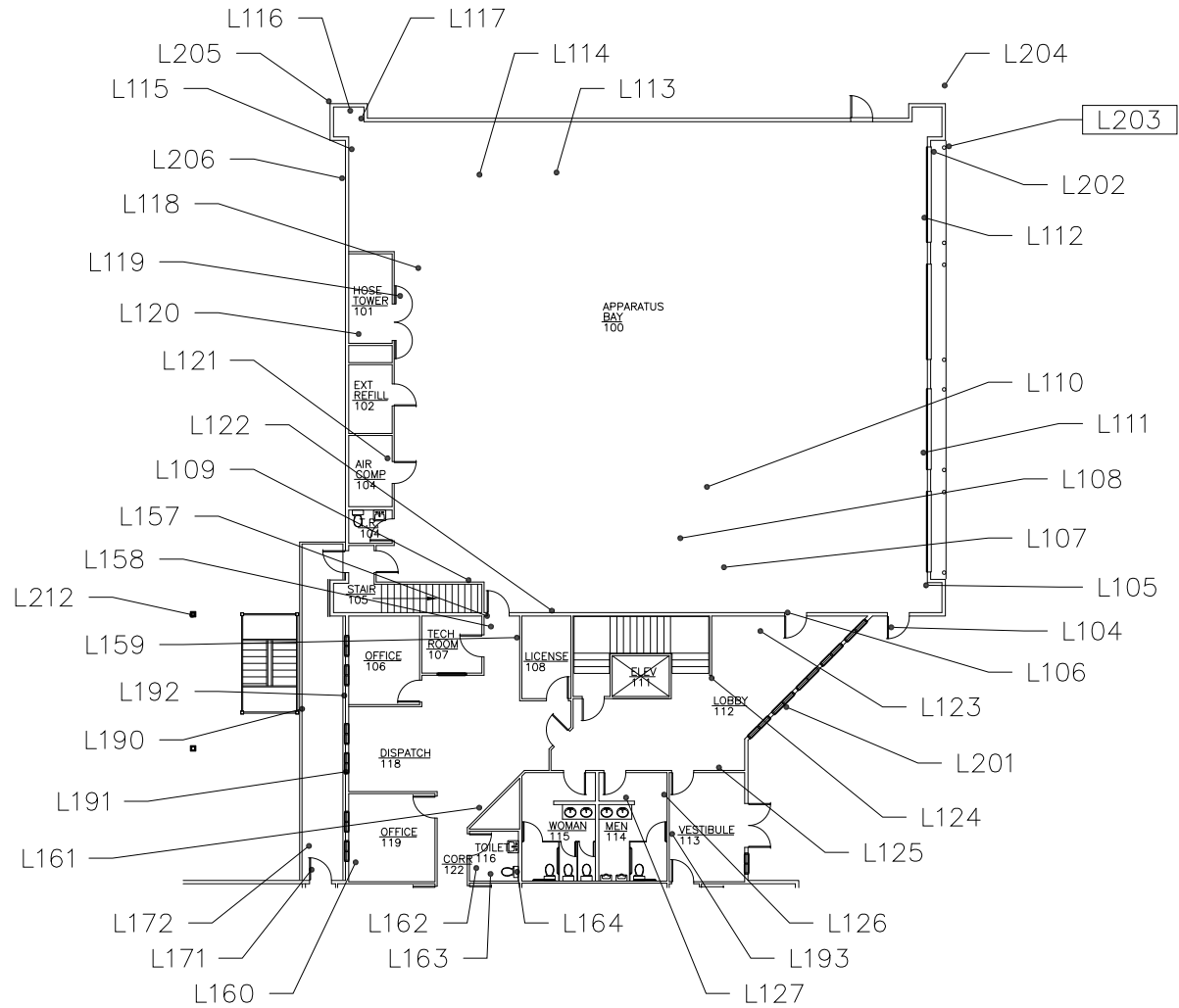
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 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



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FILE #:	C-11
7795-02-SL	



LEGEND

— LXX LEAD TEST LOCATION

— LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT

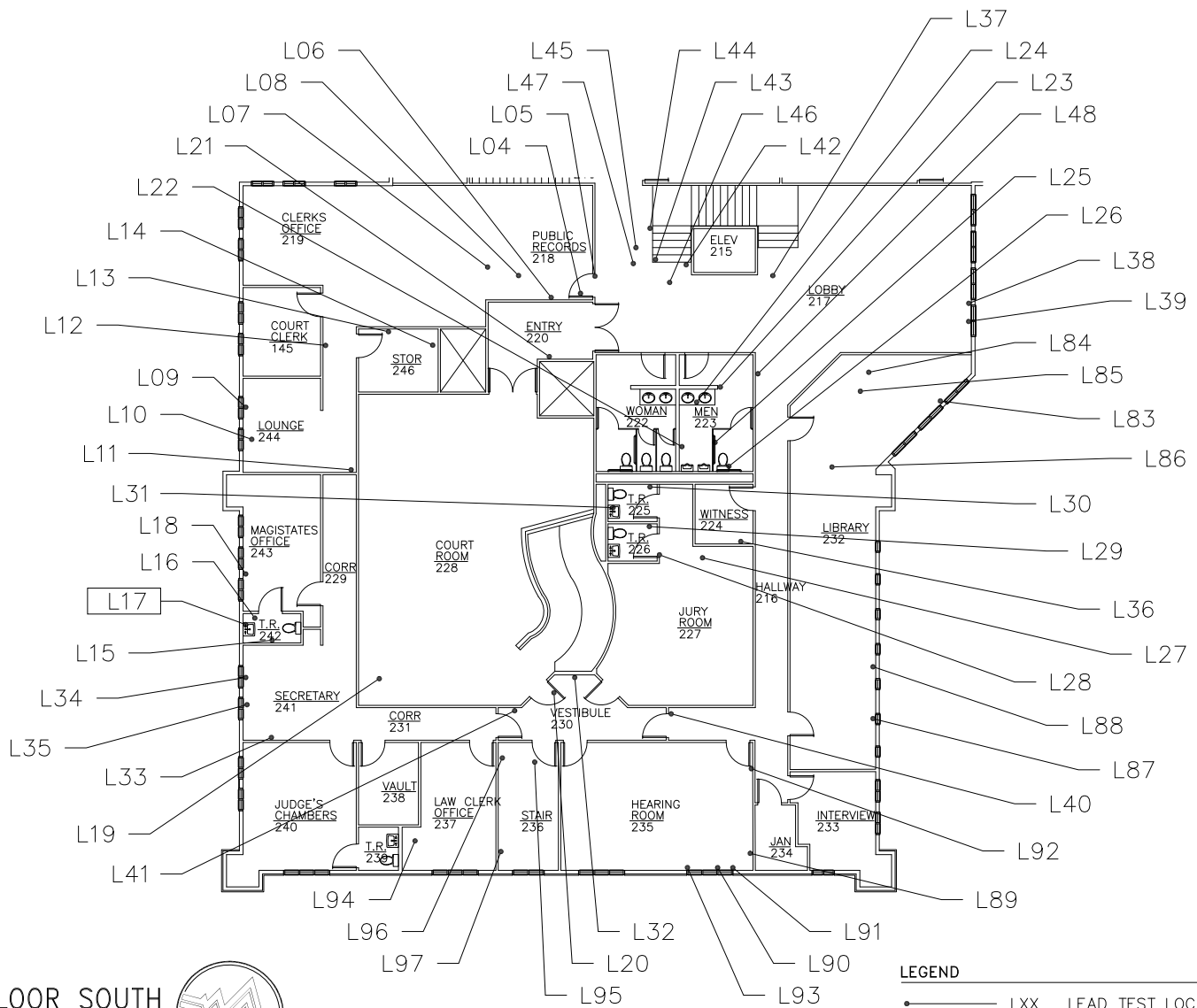
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



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FILE #:	7795-02-SL
	C-12



1 SECOND FLOOR SOUTH
 C-13 NTS

LEGEND

- LXX LEAD TEST LOCATION
- LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT

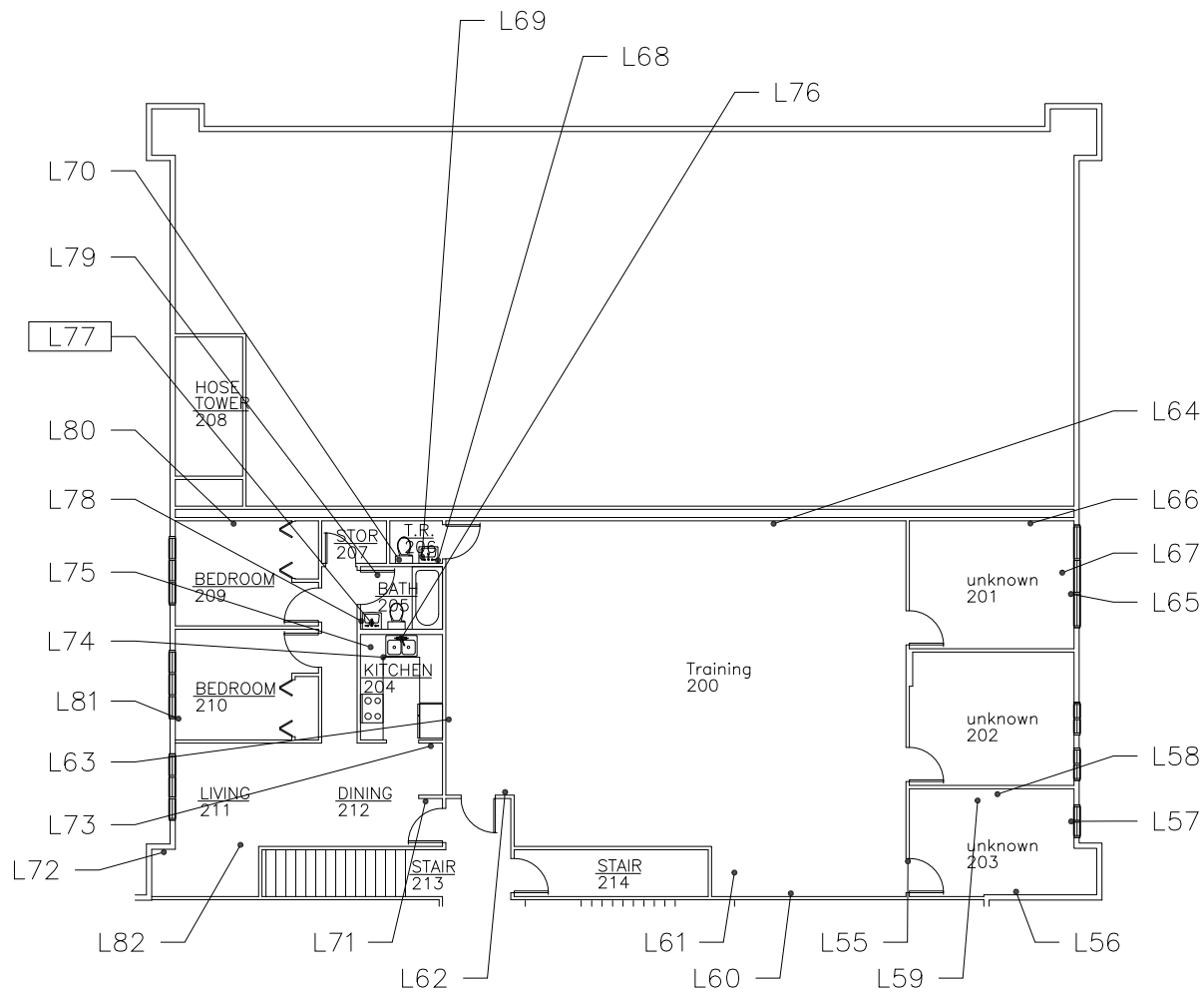
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
 CAPITAL FACILITIES
 DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
 WRANGELL, ALASKA
 LEAD SAMPLE LOCATIONS

EHS ALASKA
 INCORPORATED
 ENGINEERING, HEALTH & SAFETY CONSULTANTS

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CHECK: RAF	DWG.NO:
FILE #:	C-13
7795-02-SL	



1 SECOND FLOOR NORTH
C-14 NTS

LEGEND

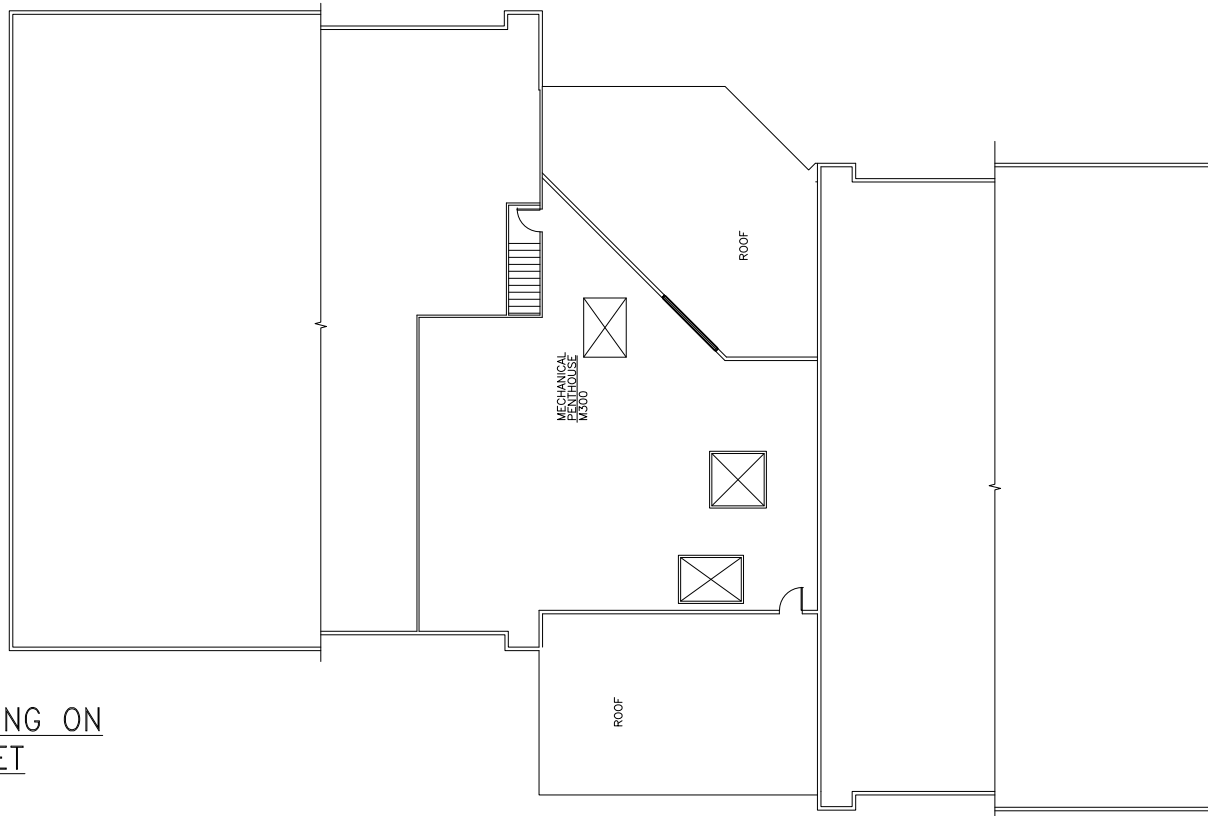
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO:
FILE #:	C-14
7795-02-SL	



NO LEAD TESTING ON THIS SHEET

1
C-15

MECHANICAL ROOM
NTS



LEGEND

- LXX LEAD TEST LOCATION
- LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT

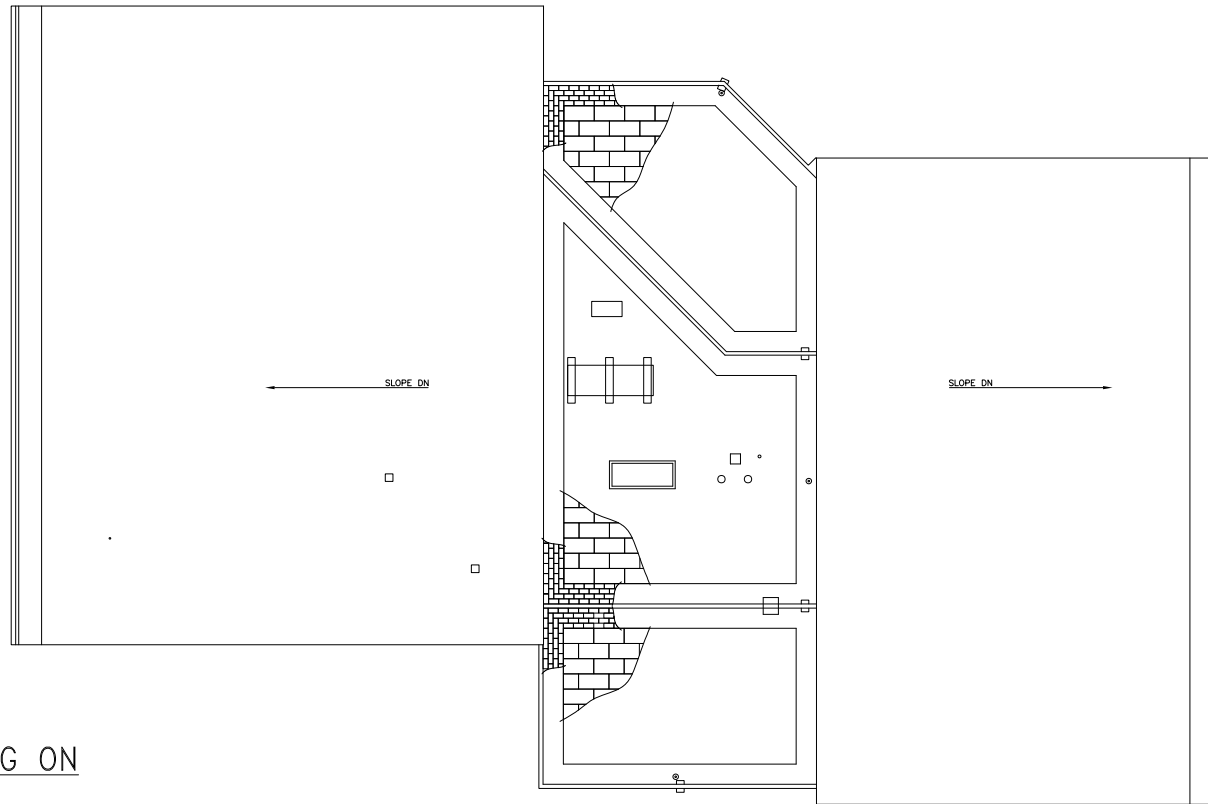
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO:
FILE #:	C-15
7795-02-SL	



NO LEAD TESTING ON
THIS SHEET

1
C-16

ROOF
NTS



LEGEND

- LXX LEAD TEST LOCATION
- LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL PUBLIC SAFETY BUILDING
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO:
FILE #:	7795-02-SL C-16

**Wrangell Public Safety Building
Renovation of Existing PSB Building
Wrangell, Alaska**

**Construction Cost Estimate
Condition Survey Submittal
January 29, 2021**



1225 E. International Airport Road, Suite 205
Anchorage, Alaska 99518
907.561.0790

Prepared for:

AMC Engineers
701 E Tudor Road, Suite 250
Anchorage, AK 99503
907-257-9100

Documents

Draft Condition Assessment Report
Misc Asbuilt Drawings

15-Oct-20

Notes and Assumptions

- 1 Based on 2022 procurement/2022 construction.
- 2 Labor rates based on Davis Bacon, 60 hours/week.
- 3 Assumes open competitive bid procurement.
- 4 Materials storage area will be designated near the building.
- 5 SE Alaska contractor.
- 6 All cost includes general conditions, overhead and profit for subcontractors and general contractor. Assumes 40% local hire.

Wrangell Public Safety Building
Renovation of Existing PSB Building
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Condition Survey Submittal
January 29, 2021

Description	Estimated Cost	Div.
Architectural	\$3,789,202	
A-A Roofing, Flat	\$192,100	
A-B Sloped Roof	\$558,464	
A-C Exterior Siding	\$1,136,214	
A-D Exterior Windows and Doors	\$328,622	
A-E Exterior Recreation Yard	\$25,365	
A-F Interior Finishes	\$1,069,752	
A-G Life Safety	\$182,820	
A-H Accessibility	\$295,865	
Electrical	\$1,155,509	
E-L1 Emergency Lighting	\$52,817	
E-L2 Emergency Lighting	\$5,618	
E-L3 Fan Room Lighting	\$9,999	
E-L4 Jail Cell General Lighting	\$27,277	
E-L5 Replace Receptalces and Switches - See Power	\$0	
E-P1 Replace Electrical Equipment	\$153,021	
E-P2 Replace Generator Distribution System	\$376,221	
E-P3 Short Circuit Analysis, Arc Flash Study	\$16,006	
E-P4 Exterior Fused Service Disconnects	\$25,631	
E-P5 Signage at Service Entrance	\$155	
E-P6 Replace Receptacles and Light Switches	\$20,264	
E-SS1 Replace Fire Alarm System	\$204,904	
E-SS2 Upgrade Telecommunication Distribution	\$263,596	
Hazmat	\$277,257	
H-F Hazardous Material Recommendations	\$277,257	

Wrangell Public Safety Building
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Description	Estimated Cost	Div.
Mechanical	\$1,416,592	
M-P1 Domestic Hot Water Tempering Valve	\$12,473	
M-P2 Replace Penal Fixtures	\$20,012	
M-P3 Replace Roof Drains	\$6,160	
M-FO1 Replace Underground Fuel Tank	\$119,694	
M-FP1 New Air Compressor	\$5,759	
M-FP2 New Life Safety Plan and Fire Sprinkler Update	\$149,670	
M-H1 Expansion Tank	\$5,003	
M-H2 Repace Circulation Pumps and Control Valves	\$64,221	
M-V1 Engineering Study - SF-3	\$3,920	
M-V2 Duct Cleaning	\$26,136	
M-V3 Engineering Study - Outside Air	\$6,534	
M-V4 Ventilation Fans	\$387,065	
M-V5 Engineering Study - Firing Range	\$6,534	
M-HC1 Add Cooling Coils	\$257,638	
M-BC1 Replace Control System with BAS	\$318,739	
M-G1 Seismic Restraints	\$27,034	

Wrangell Public Safety Building
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Description	Estimated Cost	Div.
Structural	\$491,136	
S-1 Replace Framing	\$140,381	
S-2 Replace Glulam Beams	\$81,584	
S-3 Level 2 Floor Framing and Sheathing	\$56,419	
S-4 Roof Sheathing	\$23,172	
S-5 Exterior Wall	\$13,585	
S-6 Exterior Wall Grids C/F Gable Roof to Flat Roof	\$25,573	
S-7 Exterior Wall Grid H	\$61,432	
S-8 Exterior Wall	\$56,486	
S-9 Gutter/Soffit at North	\$9,103	
S-10 Roof Sheathing	\$23,401	
Subtotal:	\$7,129,696	
Phasing Allowance	10.0%	\$712,970
Subtotal:		\$7,650,566
Estimating Contingency:	15.0%	\$1,147,585
Escalation For Inflation: (2022)	18 Mths @ 3.5%	5.3% \$465,921
Total Estimated Construction Cost:		\$9,264,072
Design & Construction Administration	14.0% percent of Construction	\$1,296,970
Construction Contingency	10.0% percent of Construction	\$926,407
Total Estimated Project Cost:		\$11,487,449

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
1	A-A Roofing, Flat	3,300	SF								
2	Replace Roofing, EPDM	3,300	SF								
3	Demo Roof Insulation and Ballasted	3,300	SF	\$0.19	\$627	0.034	112.2	\$12,809		\$13,436	\$21,070
4	Remove Roof as needed for Structural	1,650	SF			0.029	47.9	\$5,468		\$5,468	\$8,575
5	Patch EPDM Roofing	1,650	SF	\$1.80	\$2,970	0.043	71.0	\$8,106		\$11,076	\$17,369
6	R50 Avg Tapered EPS Insulation	36,667	BF	\$0.60	\$22,000	0.003	110.0	\$12,558		\$34,558	\$54,192
7	EPDM 80 Mil	3,300	SF	\$1.80	\$5,940	0.036	118.8	\$13,563		\$19,503	\$30,584
8	Replace Roof Drains	2	EA	\$700.00	\$1,400	6.000	12.0	\$1,370		\$2,770	\$4,344
9	Demo Parapet	180	LF	\$1.00	\$180	0.100	18.0	\$2,055		\$2,235	\$3,505
10	New Parapet 42"tall total	630	SF	\$17.00	\$10,710	0.229	144.3	\$16,474		\$27,184	\$42,629
11	Coping	180	LF	\$25.00	\$4,500	0.086	15.5	\$1,770		\$6,270	\$9,832
12											
13											
14	Subtotal: A-A Roofing, Flat				\$48,327		649.7	\$74,173		\$122,500	\$192,100
15											
16											
17											
18	A-B Sloped Roof	13,010	SF								
19											
20	Metal Roofing	13,010	SF								
21	Demo Roofing	13,010	SF	\$0.25	\$3,253	0.034	442.3	\$50,494		\$53,747	\$84,284
22	Metal Roofing	13,010	SF	\$9.00	\$117,090	0.086	1,118.9	\$127,737		\$244,827	\$383,928
23	Flashing	590	LF	\$5.00	\$2,950	0.086	50.7	\$5,788		\$8,738	\$13,703
24	Snow Guards	680	LF	\$10.00	\$6,800	0.100	68.0	\$7,973		\$14,773	\$19,305
25	Gutters - replace with walls										
26	Underlayment - SAM	13,010	SF	\$0.95	\$12,360	0.009	117.1	\$13,368		\$25,728	\$40,346
27	Ridge Assembly	168	LF	\$25.00	\$4,200	0.343	57.6	\$6,576		\$10,776	\$16,898
28											
29											
30	Subtotal: A-B Sloped Roof				\$146,653		1,854.6	\$211,936		\$358,589	\$558,464
31											
32											
33											
34											
35											
36											
37											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
38											
39	A-C Exterior Siding										
40	Exterior South	2,073	SF								
41	Demolition, GWB	2,073	SF	\$0.19	\$394	0.010	20.7	\$2,427		\$2,821	\$3,686
42	Demo Metal Siding	2,073	SF	\$0.22	\$456	0.029	60.1	\$7,047		\$7,503	\$9,805
43	Metal Siding, Kynar Finish	2,073	SF	\$12.00	\$24,876	0.086	178.3	\$22,735		\$47,611	\$74,662
44	Furring	1,037	LF	\$4.00	\$4,146	0.043	44.6	\$5,229		\$9,375	\$12,251
45	Rigid Insulation, 1.5" EPS	3,110	BF	\$0.50	\$1,555	0.006	18.7	\$2,193		\$3,748	\$4,898
46	Weather Barrier	2,073	SF	\$1.30	\$2,695	0.009	18.7	\$2,193		\$4,888	\$6,388
47	GWB	2,073	SF	\$0.60	\$1,244	0.034	70.5	\$8,266		\$9,510	\$12,428
48											
49	Exterior South	1,014	SF								
50	Demolition, GWB	1,014	SF	\$0.19	\$193	0.010	10.1	\$1,184		\$1,377	\$1,799
51	Demo Wood Siding	1,014	SF	\$0.13	\$132	0.019	19.3	\$2,263		\$2,395	\$3,130
52	Metal Siding, Kynar Finish	1,014	SF	\$12.00	\$12,168	0.086	87.2	\$11,119		\$23,287	\$36,518
53	Furring	507	LF	\$4.00	\$2,028	0.043	21.8	\$2,556		\$4,584	\$5,990
54	Rigid Insulation, 1.5" EPS	1,521	BF	\$0.50	\$761	0.006	9.1	\$1,067		\$1,828	\$2,389
55	Weather Barrier	1,014	SF	\$1.30	\$1,318	0.009	9.1	\$1,067		\$2,385	\$3,117
56	GWB	1,014	SF	\$0.60	\$608	0.034	34.5	\$4,045		\$4,653	\$6,081
57											
58	Exterior South Insect Infestation	60	LF								
59	Demolition, GWB	60	LF	\$0.19	\$11	0.571	34.3	\$4,022		\$4,033	\$5,270
60	Demo Metal Siding	1,200	SF	\$0.22	\$264	0.029	34.8	\$4,080		\$4,344	\$5,677
61	Metal Siding, Kynar Finish	1,200	SF	\$12.00	\$14,400	0.086	103.2	\$13,159		\$27,559	\$43,217
62	Furring	600	LF	\$4.00	\$2,400	0.043	25.8	\$3,025		\$5,425	\$7,089
63	Rigid Insulation, 1.5" EPS	1,800	BF	\$0.50	\$900	0.006	10.8	\$1,266		\$2,166	\$2,831
64	Weather Barrier	1,200	SF	\$1.30	\$1,560	0.009	10.8	\$1,266		\$2,826	\$3,693
65	GWB	1,200	SF	\$0.60	\$720	0.034	40.8	\$4,784		\$5,504	\$7,193
66											
67	Exterior South Gutters/Roof Edge	85	LF								
68	Rmv Gutter	45	LF	\$0.25	\$11	0.029	1.3	\$152		\$163	\$213
69	Demo Roof Edge Flashing	45	LF	\$0.25	\$11	0.057	2.6	\$305		\$316	\$413
70	Metal Roofing	45	SF	\$7.00	\$315	0.171	7.7	\$982		\$1,297	\$2,034
71	Flashing	45	LF	\$4.00	\$180	0.057	2.6	\$332		\$512	\$803
72	Gutter	45	LF	\$24.00	\$1,080	0.200	9.0	\$1,148		\$2,228	\$3,494
73											
74											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
75											
76	Exterior North	3,307	SF								
77	Demo Wood Siding	3,307	SF			0.019	62.8	\$7,363		\$7,363	\$9,622
78	Metal Siding, Kynar Finish	3,307	SF	\$12.00	\$39,684	0.086	284.4	\$36,264		\$75,948	\$119,099
79	Furring	1,654	LF	\$4.00	\$6,614	0.043	71.1	\$8,336		\$14,950	\$19,537
80	Rigid Insulation, 1.5" EPS	4,961	BF	\$0.50	\$2,480	0.006	29.8	\$3,494		\$5,974	\$7,807
81	Weather Barrier	3,307	SF	\$1.30	\$4,299	0.009	29.8	\$3,494		\$7,793	\$10,184
82											
83	Gutters/Soffit	75	LF								
84	Rmv Gutter	75	LF	\$0.13	\$10	0.029	2.2	\$258		\$268	\$350
85	Metal Siding, Kynar Finish	488	SF	\$12.00	\$5,850	0.086	41.9	\$5,343		\$11,193	\$17,552
86	Rigid Insulation, 1.5" EPS	731	BF	\$0.50	\$366	0.006	4.4	\$516		\$882	\$1,153
87	Weather Barrier	488	SF	\$1.30	\$634	0.009	4.4	\$516		\$1,150	\$1,503
88	Flashing	150	LF	\$4.00	\$600	0.057	8.6	\$1,097		\$1,697	\$2,661
89	Gutter	75	LF	\$24.00	\$1,800	0.200	15.0	\$1,913		\$3,713	\$5,823
90											
91	Exterior East	4,980	SF								
92	Demolition, GWB	4,980	SF	\$0.19	\$946	0.010	49.8	\$5,839		\$6,785	\$8,867
93	Demo Wood Siding	4,980	SF	\$0.13	\$647	0.019	94.6	\$11,092		\$11,739	\$15,341
94	Metal Siding, Kynar Finish	4,980	SF	\$12.00	\$59,760	0.086	428.3	\$54,613		\$114,373	\$179,355
95	Furring	2,490	LF	\$4.00	\$9,960	0.043	107.1	\$12,557		\$22,517	\$29,425
96	Rigid Insulation, 1.5" EPS	7,470	BF	\$0.50	\$3,735	0.006	44.8	\$5,253		\$8,988	\$11,746
97	Weather Barrier	4,980	SF	\$1.30	\$6,474	0.009	44.8	\$5,253		\$11,727	\$15,325
98	GWB	4,980	SF	\$0.60	\$2,988	0.034	169.3	\$19,850		\$22,838	\$29,845
99											
100	Exterior West	6,314	SF								
101	Demo Wood Siding	6,314	SF	\$0.13	\$821	0.019	120.0	\$14,070		\$14,891	\$19,460
102	Metal Siding, Kynar Finish	6,314	SF	\$12.00	\$75,768	0.086	543.0	\$69,239		\$145,007	\$227,394
103	Furring	3,157	LF	\$4.00	\$12,628	0.043	135.8	\$15,922		\$28,550	\$37,309
104	Rigid Insulation, 1.5" EPS	9,471	BF	\$0.50	\$4,736	0.006	56.8	\$6,660		\$11,396	\$14,892
105	Weather Barrier	6,314	SF	\$1.30	\$8,208	0.009	56.8	\$6,660		\$14,868	\$19,430
106	GWB	6,314	SF	\$0.60	\$3,788	0.034	214.7	\$25,173		\$28,961	\$37,846
107											
108											
109											
110											
111											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
112											
113	Insulate Basement Perimeter	186	LF								
114	Excavation	165	CY			0.100	16.5	\$1,903	\$703	\$2,606	\$4,086
115	Backfill with Excavated Materials	165	CY			0.143	23.6	\$2,722	\$1,157	\$3,879	\$6,083
116	Surface Repairs	2,790	SF	\$2.00	\$5,580					\$5,580	\$8,750
117	Clean Foundation	744	SF			0.006	4.5	\$528		\$528	\$690
118	Insulation Board, XPS 2" x 4'd	1,488	BF	\$0.75	\$1,116	0.004	6.0	\$703		\$1,819	\$2,377
119	Protection Board	744	SF	\$0.35	\$260	0.007	5.2	\$610		\$870	\$1,137
120	Flashing	186	LF	\$15.00	\$2,790	0.100	18.6	\$2,181		\$4,971	\$6,496
121											
122											
123	Subtotal: A-C Exterior Siding				\$336,968		3,581.0	\$437,334	\$1,860	\$776,162	\$1,136,214
124											
125											
126											
127	A-D Exterior Windows and Doors										
128	Replace Exterior Door, Frames, Hwe	8	EA	\$1,600.00	\$12,800	11.000	88.0	\$10,318		\$23,118	\$30,211
129	Relocate Push Button	1	EA	\$600.00	\$600	4.000	4.0	\$469		\$1,069	\$1,397
130	Repair/Replace Dented Panels	6	EA	\$900.00	\$5,400					\$5,400	\$7,057
131	Replace Wood Windows	68	EA	\$2,100.00	\$142,800	8.571	582.8	\$68,333		\$211,133	\$275,909
132	Replace Detention Windows	6	EA	\$1,440.00	\$8,640	3.000	18.0	\$2,110		\$10,750	\$14,048
133											
134											
135	Subtotal: A-D Exterior Windows and Doors				\$170,240		692.8	\$81,230		\$251,470	\$328,622
136											
137											
138											
139	A-E Exterior Recreation Yard			45	LF						
140	Demolition	45	LF			0.200	9.0	\$1,148		\$1,148	\$1,800
141	Detention Fencing 24'H	45	LF	\$150.00	\$6,750	0.400	18.0	\$2,295		\$9,045	\$14,184
142	Concrete at Base	45	LF	\$29.63	\$1,333	0.370	16.7	\$2,129		\$3,462	\$5,429
143	Manual High Security Gate	1	EA	\$1,500.00	\$1,500	8.000	8.0	\$1,020		\$2,520	\$3,952
144											
145											
146	Subtotal: A-E Exterior Recreation Yard				\$9,583		51.7	\$6,592		\$16,175	\$25,365
147											
148											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
149											
150	A-F Interior Finishes										
151											
152	Parking	20	LF								
153	Demo Framed Partition	20	LF			0.571	11.4	\$1,337		\$1,337	\$1,747
154	Repair Soffit	250	SF	\$1.00	\$250	0.057	14.3	\$1,677		\$1,927	\$2,518
155	Paint Soffit/ceiling	4,589	SF	\$0.20	\$918	0.021	96.4	\$10,534		\$11,452	\$17,959
156											
157	Storage B000.1	523	SF								
158	GWB, Fire Taped	523	SF	\$0.60	\$314	0.034	17.8	\$2,098		\$2,412	\$3,782
159											
160	Storage B000.2	234	SF								
161	GWB, Fire Taped	234	SF	\$0.60	\$140	0.034	8.0	\$943		\$1,083	\$1,698
162											
163	Storage B000.3	302	SF								
164	GWB, Fire Taped	302	SF	\$0.60	\$181	0.034	10.3	\$1,214		\$1,395	\$2,188
165											
166	Mechanical Room B102										
167	Replace Lockset	1	EA	\$380.00	\$380	1.500	1.5	\$176		\$556	\$727
168											
169	Lobby Finishes	390	SF								
170	Demo Flooring	390	SF			0.014	5.5	\$513		\$513	\$804
171	Add for ACM	390	SF			0.057	22.2	\$2,170		\$2,170	\$3,403
172	Flooring, Resilient	390	SF	\$4.50	\$1,755	0.029	11.3	\$1,054		\$2,809	\$4,405
173	Resilient Base	120	LF	\$0.75	\$90	0.021	2.5	\$233		\$323	\$507
174											
175	Janitor B105	220	SF								
176											
177	Observation Finishes	259	SF								
178	Recarpet	259	SF	\$4.00	\$1,036	0.043	11.1	\$1,035		\$2,071	\$3,248
179	Paint Doors	2	EA	\$5.00	\$10	1.000	2.0	\$219		\$229	\$359
180											
181	Corridor Finishes	156	SF								
182	Repaint Ceiling	156	SF	\$0.20	\$31	0.021	3.3	\$361		\$392	\$615
183											
184	Stair Finishes	111	SF								
185	Repaint Ceiling	111	SF	\$0.20	\$22	0.021	2.3	\$251		\$273	\$428

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				Unit	Total	Units	Totals				
186											
187	Firing Area Finishes	188	SF								
188	Recarpet	188	SF	\$4.00	\$752	0.043	8.1	\$755		\$1,507	\$2,363
189	Paint Doors	2	EA	\$5.00	\$10	1.000	2.0	\$219		\$229	\$359
190											
191	Apparatus Bay Finishes	4,977	SF								
192	Refinish Walls	6,040	SF	\$0.20	\$1,208	0.020	120.8	\$13,200		\$14,408	\$22,594
193	Prep Floor for Paint	4,977	SF			0.021	104.5	\$11,419		\$11,419	\$17,907
194	Paint Floors	4,977	SF	\$2.00	\$9,954	0.029	144.3	\$15,768		\$25,722	\$40,336
195											
196	Hose Tower Finishes	72	SF								
197	Refinish Walls	900	SF	\$0.20	\$180	0.020	18.0	\$1,967		\$2,147	\$3,367
198											
199	Extinguisher Refill Room Finishes	55	SF								
200	Refinish Walls	138	SF	\$0.20	\$28	0.020	2.8	\$306		\$334	\$524
201	Paint Workbench	1	EA	\$20.00	\$20	2.000	2.0	\$219		\$239	\$375
202											
203	Air Compressor Room Finishes	57	SF								
204	Refinish Walls	138	SF	\$0.20	\$28	0.020	2.8	\$306		\$334	\$524
205											
206	Toilet Room 104 Finishes	28	SF								
207	Refinish Walls	210	SF	\$0.20	\$42	0.020	4.2	\$459		\$501	\$786
208											
209	Stair 105 Finishes	80	SF								
210	Refinish Walls	480	SF	\$0.20	\$96	0.020	9.6	\$1,049		\$1,145	\$1,796
211	Relocate Handrails	1	LS			8.000	8.0	\$945		\$945	\$1,605
212	Wall Repairs			\$50.00		2.000					
213											
214	Stair 110 Finishes	1	LS								
215	Replace VWC	240	SF	\$5.00	\$1,200	0.057	13.7	\$1,497		\$2,697	\$4,229
216	Repaint Stair Railings	54	LF	\$2.00	\$108	0.143	7.7	\$841		\$949	\$1,488
217											
218	Lobby 112 Finishes	452	SF								
219	Replace VWC	36	SF	\$5.00	\$180	0.057	2.1	\$229		\$409	\$641
220	Repaint Door Frames	3	EA	\$5.00	\$15	0.500	1.5	\$176		\$191	\$250
221	Replace Drinking Fountain	1	EA	\$1,600.00	\$1,600	6.000	6.0	\$703		\$2,303	\$3,010
222											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
223	Mens 114	138	SF								
224	Renovate for Clearance	138	SF	\$150.00	\$20,700					\$20,700	\$27,051
225	Grab Bar	1	EA	\$50.00	\$50	1.000	1.0	\$115		\$165	\$259
226											
227	Women 115	148	SF								
228	Renovate for Clearance	148	SF	\$150.00	\$22,200					\$22,200	\$29,011
229	Grab Bar	1	EA	\$50.00	\$50	1.000	1.0	\$115		\$165	\$259
230											
231	Bathroom 116	46	SF								
232	Refinish Walls	280	SF	\$0.20	\$56	0.020	5.6	\$612		\$668	\$1,048
233	Demo SV Flooring	46	SF			0.017	0.8	\$75		\$75	\$118
234	Flooring, Resilient	46	SF	\$6.00	\$276	0.057	2.6	\$242		\$518	\$812
235											
236	Property Storage										
237	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
238											
239	Storage 123	63	SF								
240	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
241											
242	Armory	38	SF								
243	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
244											
245	Evidence Storage/Server	115	SF								
246	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
247											
248	Office 127	107	SF								
249	Refinish Wood Caps	1	EA	\$5.00	\$5	2.000	2.0	\$219		\$224	\$351
250	Refinish Wood Door	1	EA	\$5.00	\$5	1.000	1.0	\$109		\$114	\$179
251	Repaint Metal Frames	2	EA	\$5.00	\$10	1.000	2.0	\$219		\$229	\$359
252	Recarpet	107	SF	\$4.00	\$428	0.043	4.6	\$429		\$857	\$1,344
253											
254	Squad Room	211	SF								
255	Refinish Wood Caps	1	EA	\$10.00	\$10	4.000	4.0	\$437		\$447	\$701
256	Refinish Wood Door	1	EA	\$5.00	\$5	1.000	1.0	\$109		\$114	\$179
257	Repaint Metal Frames	1	EA	\$5.00	\$5	1.000	1.0	\$109		\$114	\$179
258	Recarpet	211	SF	\$4.00	\$844	0.043	9.1	\$848		\$1,692	\$2,653
259											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
260	Booking 129	122	SF								
261	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
262											
263	Sallyport 130	144	SF								
264	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
265	Door Hold	1	EA	\$200.00	\$200	2.000	2.0	\$242		\$442	\$751
266	Circuiting	1	EA	\$100.00	\$100	5.000	5.0	\$606		\$706	\$1,199
267											
268	Storage 131	28	SF								
269	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
270	Replace Lockset	1	EA	\$380.00	\$380	1.500	1.5	\$176		\$556	\$727
271											
272	Jan 132	31	SF								
273	Demo Wainscot	96	SF			0.017	1.6	\$188		\$188	\$246
274	Demo Flooring	31	SF			0.017	0.5	\$47		\$47	\$74
275	Wainscot	96	SF	\$5.00	\$480	0.043	4.1	\$481		\$961	\$1,256
276	Flooring	31	SF	\$6.00	\$186	0.057	1.8	\$168		\$354	\$555
277											
278	Corridor 133	258	SF								
279	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
280											
281	Kitchen 134	141	SF								
282	Demolition	1	EA			4.000	4.0	\$483		\$483	\$821
283	Type 2 Hood & Vent System	1	EA	\$2,500.00	\$2,500	12.000	12.0	\$1,450		\$3,950	\$6,710
284	Transition	1	EA	\$50.00	\$50	2.000	2.0	\$234		\$284	\$371
285											
286	Shower 135	22	SF								
287	Replace Robe Hook - Anti-Ligature	1	EA	\$126.00	\$126	0.500	0.5	\$59		\$185	\$242
288	Replace Access Panel	1	EA	\$150.00	\$150	2.000	2.0	\$234		\$384	\$502
289											
290	Linen 137	29	SF								
291	Replace Washer Box	1	EA	\$150.00	\$150	3.000	3.0	\$354		\$504	\$856
292	Repair Wall	1	EA	\$50.00	\$50	2.000	2.0	\$236		\$286	\$448
293											
294	Prisoner Visit 138	27	SF								
295	Repaint HM Relight Frame	1	EA	\$10.00	\$10	2.000	2.0	\$219		\$229	\$359
296											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
297	Civilian Visit 139	28	SF								
298	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
299											
300	Secure Corridor 144	124	SF								
301	Touchup Paint on Metal Frames and Doors	7	EA	\$5.00	\$35	0.500	3.5	\$382		\$417	\$654
302											
303	Secure Circulation 145	222	SF								
304	Clean and Patch Concrete Floor	222	SF	\$1.00	\$222	0.043	9.5	\$1,114		\$1,336	\$1,746
305											
306	Stair 147	103	SF								
307	Refinish Walls	400	SF	\$0.20	\$80	0.020	8.0	\$874		\$954	\$1,496
308	Repair Window Trim	1	EA	\$50.00	\$50	2.000	2.0	\$234		\$284	\$371
309											
310	Holding 148										
311	Replace Call Button	1	EA	\$300.00	\$300	2.000	2.0	\$234		\$534	\$698
312	Replace Clg Equipment Cover	1	EA	\$150.00	\$150	1.000	1.0	\$117		\$267	\$349
313											
314	Garage 149	677	SF								
315	Shoring	20	LF	\$20.00	\$400	0.400	8.0	\$938		\$1,338	\$1,748
316	Demo Wall Framing	160	SF			0.057	9.1	\$1,067		\$1,067	\$1,394
317	Wall Framing	160	SF	\$2.00	\$320	0.071	11.4	\$1,337		\$1,657	\$2,165
318	GWB	160	SF	\$0.60	\$96	0.034	5.4	\$636		\$732	\$1,148
319	Repair GWB at Ceiling	677	SF	\$0.50	\$339	0.034	23.0	\$2,697		\$3,036	\$3,967
320											
321	Training 200	1,200	SF								
322	Upgrade Kitchenette	1	EA	\$9,000.00	\$9,000	40.000	40.0	\$4,690		\$13,690	\$17,890
323	Replace Flooring	1,200	SF	\$6.00	\$7,200	0.046	55.2	\$5,147		\$12,347	\$19,362
324	Replace VWC	584	SF	\$5.00	\$2,920	0.057	33.3	\$3,904		\$6,824	\$8,918
325	Test Flooring	1	EA	\$350.00	\$350					\$350	\$457
326											
327	Fire Chief Office 202	166	SF								
328	Replace Carpet	166	SF	\$4.50	\$747	0.046	7.6	\$709		\$1,456	\$2,283
329											
330	Records Work 203	143	SF								
331	Remove Cabinets	1	LS			8.000	8.0	\$938		\$938	\$1,226
332	Refinish Walls	540	SF	\$0.60	\$324	0.034	18.4	\$2,168		\$2,492	\$3,908
333	Replace Carpet	143	SF	\$4.50	\$644	0.046	6.6	\$615		\$1,259	\$1,974

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
334											
335	Kitchen 204	68	SF								
336	Replace Countertops	20	LF	\$165.00	\$3,300	0.400	8.0	\$938		\$4,238	\$5,538
337	Replace Range	1	EA	\$700.00	\$700	2.000	2.0	\$242		\$942	\$1,600
338	Replace Refrigerator	1	EA	\$1,600.00	\$1,600	2.000	2.0	\$234		\$1,834	\$2,397
339											
340	Bath 205	39	SF								
341	Replace Countertops	3	LF	\$165.00	\$495	0.400	1.2	\$141		\$636	\$831
342											
343	Toilet 206	17	SF								
344	Refinish Ceiling	17	SF	\$0.60	\$10	0.057	1.0	\$118		\$128	\$201
345	Replace Sheet Vinyl Flooring	17	SF	\$6.00	\$102	0.071	1.2	\$112		\$214	\$336
346											
347	Storage 207	22	SF								
348	Replace Washer Dryer	1	EA	\$1,400.00	\$1,400	4.000	4.0	\$469		\$1,869	\$2,442
349	Refinish Ceiling/Walls	202	SF	\$0.60	\$121	0.057	11.5	\$1,355		\$1,476	\$2,315
350											
351	Hose Tower 208										
352	Refinish Ceiling/Walls	648	SF	\$0.60	\$389	0.057	36.9	\$4,349		\$4,738	\$7,430
353											
354	Bedroom 209	116	SF								
355	Refinish Ceiling/Walls	460	SF	\$0.60	\$276	0.057	26.2	\$3,088		\$3,364	\$5,275
356											
357	Bedroom 210	122	SF								
358	Refinish Ceiling/Walls	466	SF	\$0.60	\$280	0.057	26.6	\$3,135		\$3,415	\$5,355
359											
360	Living 211	157	SF								
361	Refinish Ceiling/Walls	893	SF	\$0.60	\$536	0.057	50.9	\$5,999		\$6,535	\$10,248
362											
363	Dining 212	96	SF								
364	Refinish Ceiling/Walls	608	SF	\$0.60	\$365	0.057	34.7	\$4,089		\$4,454	\$6,985
365	Replace Bar	1	EA	\$3,360.00	\$3,360	4.800	4.8	\$563		\$3,923	\$5,127
366											
367	Stair 213										
368	Refinish Walls	400	SF	\$0.60	\$240	0.057	22.8	\$2,687		\$2,927	\$4,590
369											
370											

Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
371	Stair 214										
372	Refinish Walls	400	SF	\$0.60	\$240	0.057	22.8	\$2,687		\$2,927	\$4,590
373											
374	Hallway 216	300	SF								
375	Refinish Walls	1,260	SF	\$0.60	\$756	0.057	71.8	\$8,462		\$9,218	\$14,455
376	Replace Carpet	300	SF	\$4.50	\$1,350	0.046	13.8	\$1,287		\$2,637	\$4,135
377	Replace Rubber Base	126	LF	\$0.75	\$95	0.021	2.6	\$242		\$337	\$528
378											
379	Lobby 217	816	SF								
380	Modify Railing	26	LF	\$150.00	\$3,900					\$3,900	\$6,116
381	Replace GWB Walls	1,035	SF	\$0.60	\$621	0.057	59.0	\$6,953		\$7,574	\$11,877
382	Replace Wood Slat Ceiling	816	SF	\$35.00	\$28,560	0.200	163.2	\$21,111		\$49,671	\$64,910
383	Replace Carpet	816	SF	\$4.50	\$3,672	0.046	37.5	\$3,496		\$7,168	\$11,241
384											
385	Clerks Office 219	153	SF								
386	Reconstruct Exterior Wall	396	SF	\$6.50	\$2,574	0.279	110.5	\$12,956		\$15,530	\$20,295
387	Windows	5	EA	\$1,400.00	\$7,000	6.000	30.0	\$3,517		\$10,517	\$13,744
388	Replace Flooring	153	SF	\$6.00	\$918	0.046	7.0	\$653		\$1,571	\$2,464
389	Replace Ceilings	153	SF	\$4.00	\$612	0.043	6.6	\$854		\$1,466	\$1,916
390											
391	Entry 220										
392	Add Door Operator	2	EA	\$6,000.00	\$12,000	16.000	32.0	\$3,752		\$15,752	\$20,585
393											
394	Toilet 225	30	SF								
395	Refinish Walls	220	SF	\$0.60	\$132	0.057	12.5	\$1,473		\$1,605	\$2,517
396	Replace Flooring, Coved	30	SF	\$6.00	\$180	0.071	2.1	\$196		\$376	\$590
397											
398	Toilet 226	30	SF								
399	Refinish Walls	220	SF	\$0.60	\$132	0.057	12.5	\$1,473		\$1,605	\$2,517
400	Replace Flooring, Coved	30	SF	\$6.00	\$180	0.071	2.1	\$196		\$376	\$590
401											
402	Court Room 228	1,136	SF								
403	Refinish Walls/Ceilings	3,236	SF	\$0.60	\$1,942	0.057	184.5	\$21,743		\$23,685	\$37,142
404											
405	Corridor 229										
406	Mag Door Holds & Circuiting	1	EA	\$250.00	\$250	4.000	4.0	\$484		\$734	\$1,247
407	Refinish Walls	550	SF	\$0.60	\$330	0.057	31.4	\$3,701		\$4,031	\$6,321

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
408											
409	Vestibule 230	125	SF								
410	Mag Door Holds & Circuiting	6	EA	\$250.00	\$1,500	4.000	24.0	\$2,907		\$4,407	\$7,487
411	Refinish Walls	620	SF	\$0.60	\$372	0.057	35.3	\$4,160		\$4,532	\$7,107
412	Replace Flooring	125	SF	\$4.50	\$563	0.046	5.8	\$541		\$1,104	\$1,731
413	Replace Rubber Base	62	LF	\$0.75	\$47	0.021	1.3	\$121		\$168	\$263
414											
415	Corridor 231	79	SF								
416	Refinish Walls	400	SF	\$0.60	\$240	0.057	22.8	\$2,687		\$2,927	\$4,590
417	Replace Carpeting	79	SF	\$4.50	\$356	0.046	3.6	\$336		\$692	\$1,085
418	Replace Rubber Base	40	LF	\$0.75	\$30	0.021	0.8	\$75		\$105	\$165
419											
420	DMV 232	521	SF								
421	Replace Carpeting	521	SF	\$4.50	\$2,345	0.046	24.0	\$2,238		\$4,583	\$7,187
422	Replace Ceiling Tile	4	SF	\$2.00	\$8	0.014	0.1	\$12		\$20	\$26
423											
424	Records 232A	137	SF								
425	Replace Carpeting	137	SF	\$4.50	\$617	0.046	6.3	\$587		\$1,204	\$1,888
426											
427	Janitor 234	47	SF								
428	Replace Flooring	47	SF	\$6.00	\$282	0.046	2.2	\$205		\$487	\$764
429											
430	Customs 235	390	SF								
431	Replace Carpeting	390	SF	\$4.50	\$1,755	0.046	17.9	\$1,669		\$3,424	\$5,369
432	Replace Baseboard Heating	24	LF	\$65.00	\$1,560	0.600	14.4	\$1,701		\$3,261	\$5,540
433											
434	Stair 236										
435	Replace Door Latchset	1	EA	\$350.00	\$350	1.500	1.5	\$176		\$526	\$687
436	Refinish Walls	380	SF	\$0.60	\$228	0.057	21.7	\$2,557		\$2,785	\$4,367
437											
438	Break 237										
439	Replace Carpeting	166	SF	\$4.50	\$747	0.046	7.6	\$709		\$1,456	\$2,283
440	Replace Baseboard Heating	12	LF	\$65.00	\$780	0.600	7.2	\$851		\$1,631	\$2,771
441											
442	Toilet 239										
443	Refinish Walls	220	SF	\$0.60	\$132	0.057	12.5	\$1,473		\$1,605	\$2,517
444											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
445	Police Chief 240										
446	Replace Carpeting	244	SF	\$4.50	\$1,098	0.046	11.2	\$1,044		\$2,142	\$3,359
447	Replace Baseboard Heating	40	LF	\$65.00	\$2,600	0.600	24.0	\$2,835		\$5,435	\$9,233
448											
449	Server 241	153	SF								
450	Replace Baseboard Heating	12	LF	\$65.00	\$780	0.600	7.2	\$851		\$1,631	\$2,771
451											
452	Toilet 242	27	SF								
453	Refinish Walls	240	SF	\$0.60	\$144	0.057	13.7	\$1,615		\$1,759	\$2,758
454	Replace Flooring, Coved	27	SF	\$6.00	\$162	0.071	1.9	\$177		\$339	\$532
455											
456	Magistrate's Office 243	182	SF								
457	Replace Carpeting	182	SF	\$4.50	\$819	0.046	8.4	\$783		\$1,602	\$2,512
458	Replace Baseboard Heating	21	LF	\$65.00	\$1,365	0.600	12.6	\$1,488		\$2,853	\$4,847
459											
460	Lounge 244	196	SF								
461	Remove/Replace ACT	196	SF	\$4.00	\$784	0.051	10.0	\$1,294		\$2,078	\$2,716
462	Remove/Replace GWB	440	SF	\$0.60	\$264	0.057	25.1	\$2,958		\$3,222	\$5,053
463	Replace Flooring	196	SF	\$4.50	\$882	0.046	9.0	\$839		\$1,721	\$2,699
464	Replace Sink	1	EA	\$700.00	\$700	6.000	6.0	\$709		\$1,409	\$2,394
465	Reconstruct Exterior Wall	120	SF	\$6.50	\$780	0.279	33.5	\$3,928		\$4,708	\$6,152
466											
467	Court Clerk 245	109	SF								
468	Remove/Replace ACT	109	SF	\$4.00	\$436	0.051	5.6	\$724		\$1,160	\$1,516
469	Remove/Replace GWB	430	SF	\$0.60	\$258	0.057	24.5	\$2,887		\$3,145	\$4,932
470	Replace Flooring	109	SF	\$4.50	\$491	0.046	5.0	\$466		\$957	\$1,501
471	Reconstruct Exterior Wall	115	SF	\$6.50	\$748	0.279	32.1	\$3,764		\$4,512	\$5,896
472											
473	Storage 246	80	SF								
474	Refinish Walls	360	SF	\$0.60	\$216	0.057	20.5	\$2,416		\$2,632	\$4,127
475											
476	Mechanical M300										
477	Repair GWB	15	SF	\$6.67	\$100	0.533	8.0	\$938		\$1,038	\$1,356
478											
479	Interior Doors - Wood	82	EA								
480	Paint/Seal Doors	82	EA	\$15.00	\$1,230	1.000	82.0	\$8,960		\$10,190	\$15,980
481											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
482	Overall Finishes										
483	Paint Interior	54,350	SF	\$0.25	\$13,588	0.029	1,576.2	\$184,808		\$198,396	\$259,264
484	Cover/Protect devices	34,844	SF	\$0.20	\$6,969	0.014	487.8	\$57,194		\$64,163	\$83,848
485											
486											
487	Subtotal: A-F Interior Finishes				\$220,845		4,662.7	\$536,927		\$757,772	\$1,069,752
488											
489											
490											
491	A-G Life Safety										
492											
493	Repair Fire Walls	1	LS	\$1,000.00	\$1,000	80.000	80.0	\$9,380		\$10,380	\$13,565
494											
495	Elevator Shutters										
496	Repair OH Fire Shutter	3	EA	\$5,000.00	\$15,000					\$15,000	\$19,602
497											
498	Office 127										
499	Shutter Assemble at Window	1	EA	\$2,550.00	\$2,550	40.000	40.0	\$3,812		\$6,362	\$9,977
500											
501	Egress Windows										
502	Bedroom 209,210										
503	Install Egress Window	2	EA	\$1,725.00	\$3,450	6.000	12.0	\$1,407		\$4,857	\$6,347
504											
505	Mag Door Holds and Circuiting	6	EA	\$250.00	\$1,500	6.000	36.0	\$4,360		\$5,860	\$9,955
506											
507	Seismic Brace Ceilings	34,844	SF	\$0.30	\$10,453	0.020	696.9	\$81,711		\$92,164	\$120,440
508											
509	Replace Robe Hooks, Anti-Ligature	5	EA	\$56.00	\$280	1.000	5.0	\$586		\$866	\$1,132
510											
511	Replace Cell Ceiling Device Covers	5	EA	\$100.00	\$500	1.500	7.5	\$879		\$1,379	\$1,802
512											
513											
514											
515	Subtotal: A-G Life Safety				\$34,733		877.4	\$102,135		\$136,868	\$182,820
516	Average Unit Price for this division is: \$55.40 per SF based on 3,300 SF										
517											
518											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
519	A-H Accessibility										
520											
521	Stair Handrails										
522	Demo Handrails	24	LF			0.100	2.4	\$281		\$281	\$367
523	New Handrails	26	LF	\$35.00	\$910	0.200	5.2	\$610		\$1,520	\$1,986
524	Wall Repairs	26	SF			0.007	0.2	\$24		\$24	\$38
525	Paint	260	SF	\$0.20	\$52	0.021	5.5	\$601		\$653	\$1,024
526											
527	Women's Room	82	SF								
528	Renovate for Clearance	1	EA	\$15,000.00	\$15,000					\$15,000	\$19,602
529	Repaint Walls	410	SF	\$0.20	\$82	0.021	8.6	\$940		\$1,022	\$1,603
530	Demo Flooring	82	SF			0.014	1.1	\$103		\$103	\$162
531	Add for ACM	82	SF			0.057	4.7	\$459		\$459	\$720
532	Flooring, Resilient	82	SF	\$4.50	\$369	0.029	2.4	\$224		\$593	\$930
533	Resilient Base	41	LF	\$0.75	\$31	0.021	0.9	\$84		\$115	\$180
534											
535	Men's Room	120	SF								
536	Renovate for Clearance	1	EA	\$15,000.00	\$15,000					\$15,000	\$19,602
537	Repaint Walls	510	SF	\$0.20	\$102	0.021	10.7	\$1,169		\$1,271	\$1,993
538	Demo Flooring	120	SF			0.014	1.7	\$158		\$158	\$248
539	Add for ACM	120	SF			0.057	6.8	\$665		\$665	\$1,043
540	Flooring, Resilient	120	SF	\$4.50	\$540	0.029	3.5	\$326		\$866	\$1,358
541	Resilient Base	51	LF	\$0.75	\$38	0.021	1.1	\$103		\$141	\$221
542											
543	Bathroom 116	46	SF								
544	Replace Fixture Hardware	2	EA	\$200.00	\$400	2.000	4.0	\$473		\$873	\$1,483
545	Add Grab Bars	1	SET	\$150.00	\$150	2.000	2.0	\$234		\$384	\$502
546	Adjust Fixtures for ADA	2	EA	\$200.00	\$400	6.000	12.0	\$1,418		\$1,818	\$3,088
547											
548	Court Room 228	1,136	SF								
549	Remodel for Accessibility	300	SF	\$150.00	\$45,000					\$45,000	\$58,806
550											
551	Elevator										
552	Repair Elevator Controls	3	EA	\$5,000.00	\$15,000					\$15,000	\$19,602
553											
554											
555											

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				Unit	Total	Units	Totals				
556	Vestibule 113										
557	Add Door Operator	1	EA	\$6,000.00	\$6,000					\$6,000	\$7,841
558	Renovate Service Counter	1	EA	\$2,500.00	\$2,500	16.000	16.0	\$1,876		\$4,376	\$5,719
559											
560	Public Records 218										
561	Renovate Service Counter	1	EA	\$2,500.00	\$2,500	16.000	16.0	\$1,876		\$4,376	\$5,719
562											
563	Office 127										
564	Shutter Assemble at Window	1	EA	\$2,550.00	\$2,550	40.000	40.0	\$3,812		\$6,362	\$9,977
565	Renovate Counter for Accessibility	1	EA	\$400.00	\$400	4.000	4.0	\$469		\$869	\$1,136
566											
567	Women 222	148	SF								
568	Renovate for Clearance	148	SF	\$150.00	\$22,200					\$22,200	\$29,011
569											
570	Mens 223	137	SF								
571	Renovate for Clearance	137	SF	\$150.00	\$20,550					\$20,550	\$26,855
572											
573	Toilet 225	30	SF								
574	Add Grab Bars	1	SET	\$150.00	\$150	2.000	2.0	\$234		\$384	\$502
575	Add Mixing Valve	1	EA	\$125.00	\$125	1.000	1.0	\$118		\$243	\$413
576											
577	Jury Room 227										
578	Add Accessible Bathroom	1	EA	\$35,000.00	\$35,000					\$35,000	\$45,738
579											
580	Toilet 239										
581	Grab Bars	1	SET	\$150.00	\$150	3.000	3.0	\$352		\$502	\$656
582											
583	Toilet 242	27	SF								
584	Add Grab Bars	1	SET	\$150.00	\$150	2.000	2.0	\$234		\$384	\$502
585	Add Mixing Valve	1	EA	\$125.00	\$125	1.000	1.0	\$118		\$243	\$413
586											
587	Replace Drinking Fountain	1	EA	\$1,600.00	\$1,600	6.000	6.0	\$709		\$2,309	\$3,923
588											
589	Lounge 244	196	SF								
590	Remove Casework/Replace	1	LS	\$150.00	\$150	18.000	18.0	\$2,110		\$2,260	\$2,953
591											
592											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
593	Court Clerk 245	109	SF								
594	Remove Casework/Replace	1	LS	\$400.00	\$400	16.000	16.0	\$1,876		\$2,276	\$2,974
595											
596	Vestibule 220										
597	Replace Pairs of Doors	2	EA	\$4,150.00	\$8,300	20.000	40.0	\$4,690		\$12,990	\$16,975
598											
599											
600											
601	Subtotal: A-H Accessibility				\$195,924		237.8	\$26,346		\$222,270	\$295,865
602											
603											
604											
605	E-L1 Emergency Lighting										
606	Replace 1200 VA Lighting Inverters	3	EA	\$10,000.00	\$30,000	3.000	9.0	\$1,090		\$31,090	\$52,817
607											
608											
609	Subtotal: E-L1 Emergency Lighting				\$30,000		9.0	\$1,090		\$31,090	\$52,817
610	Average Unit Price for this division is: \$283.96 per LF based on 186 LF										
611											
612											
613	E-L2 Emergency Lighting										
614	Rewire Exterior Lights, connect to inverter	8	EA	\$50.00	\$400	3.000	24.0	\$2,907		\$3,307	\$5,618
615											
616											
617	Subtotal: E-L2 Emergency Lighting				\$400		24.0	\$2,907		\$3,307	\$5,618
618											
619											
620											
621	E-L3 Fan Room Lighting										
622	Replace 1x4 LED Fixtures	15	EA	\$180.00	\$2,700	1.750	26.3	\$3,186		\$5,886	\$9,999
623											
624											
625	Subtotal: E-L3 Fan Room Lighting				\$2,700		26.3	\$3,186		\$5,886	\$9,999
626											
627											
628											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
629	E-L4 Jail Cell General Lighting										
630	Replace with Penal Style Lights	25	EA	\$400.00	\$10,000	2.000	50.0	\$6,056		\$16,056	\$27,277
631											
632											
633	Subtotal: E-L4 Jail Cell General Lighting				\$10,000		50.0	\$6,056		\$16,056	\$27,277
634											
635											
636											
637	E-L5 Replace Receptalces and Switches - See Power										
638											
639											
640	Subtotal: E-L5 Replace Receptalces and Switches - See Power										
641											
642											
643											
644	E-P1 Replace Electrical Equipment										
645	Replace GDP 400A	1	EA	\$6,500.00	\$6,500	56.000	56.0	\$6,783		\$13,283	\$22,566
646	Replace MDP 1000A	1	EA	\$15,000.00	\$15,000	120.000	120.0	\$14,535		\$29,535	\$50,175
647	Replace Panelboards 200A	12	EA	\$2,000.00	\$24,000	16.000	192.0	\$23,256		\$47,256	\$80,280
648											
649											
650	Subtotal: E-P1 Replace Electrical Equipment				\$45,500		368.0	\$44,574		\$90,074	\$153,021
651											
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
666	E-P2 Replace Generator Distribution System										
667	Demo Feeders	100	LF			0.143	14.3	\$1,732		\$1,732	\$2,942
668	Demo Generator	1				60.000	60.0	\$7,267		\$7,267	\$12,345
669	Replace ATS 1000A	1	EA	\$19,000.00	\$19,000	30.000	30.0	\$3,634		\$22,634	\$38,452
670	Genset 250 KW, Backup	1	EA	\$145,000.00	\$145,000	90.000	90.0	\$10,901		\$155,901	\$264,851
671	Feeder 1000A	100	LF	\$144.47	\$14,447	1.608	160.8	\$19,477		\$33,924	\$57,631
672											
673											
674	Subtotal: E-P2 Replace Generator Distribution System				\$178,447		355.1	\$43,011		\$221,458	\$376,221
675											
676											
677											
678	E-P3 Short Circuit Analysis, Arc Flash Study										
679	Arc Flash Study	1	LS	\$7,000.00	\$7,000	20.000	20.0	\$2,422		\$9,422	\$16,006
680											
681											
682	Subtotal: E-P3 Short Circuit Analysis, Arc Flash Study				\$7,000		20.0	\$2,422		\$9,422	\$16,006
683											
684											
685											
686	E-P4 Exterior Fused Service Disconnects										
687	Add a 400A Service Disconnect	1	EA	\$3,000.00	\$3,000	14.000	14.0	\$1,696		\$4,696	\$7,978
688	Add a 1000A Service Disconnect	1	EA	\$7,000.00	\$7,000	28.000	28.0	\$3,391		\$10,391	\$17,653
689											
690											
691	Subtotal: E-P4 Exterior Fused Service Disconnects				\$10,000		42.0	\$5,087		\$15,087	\$25,631
692											
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
703	E-P5 Signage at Service Entrance										
704	ID Signage	2	EA	\$15.00	\$30	0.250	0.5	\$61		\$91	\$155
705											
706											
707	Subtotal: E-P5 Signage at Service Entrance				\$30		0.5	\$61		\$91	\$155
708											
709											
710											
711	E-P6 Replace Receptacles and Light Switches										
712	Replace Duplex Outlet	260	EA	\$3.50	\$910	0.250	65.0	\$7,873		\$8,783	\$14,921
713	Replace Duplex Outlet GFCI	10	EA	\$14.00	\$140	0.250	2.5	\$303		\$443	\$753
714	Replace Light Switches	80	EA	\$3.50	\$280	0.250	20.0	\$2,422		\$2,702	\$4,590
715											
716											
717	Subtotal: E-P6 Replace Receptacles and Light Switches				\$1,330		87.5	\$10,598		\$11,928	\$20,264
718											
719											
720											
721	E-SS1 Replace Fire Alarm System										
722	Replace Fire Alarm - Estimated by SF	34,844	SF	\$4.50	\$156,798					\$156,798	\$204,904
723											
724											
725	Subtotal: E-SS1 Replace Fire Alarm System				\$156,798					\$156,798	\$204,904
726											
727											
728											
729	E-SS2 Upgrade Telecommunication Distribution										
730	Telecom Room Equipment	3	EA	\$7,500.00	\$22,500	40.000	120.0	\$14,535		\$37,035	\$62,917
731	Telecom Outlets and Cabling	120	EA	\$161.56	\$19,387	6.793	815.2	\$98,740		\$118,127	\$200,679
732											
733											
734	Subtotal: E-SS2 Upgrade Telecommunication Distribution				\$41,887		935.2	\$113,275		\$155,162	\$263,596
735											
736											
737											
738											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
739	H-F Hazardous Material Recommendations										
740	No Quantities - Allowances										
741	Demo Sinks ACM	5	EA			1.000	5.0	\$586		\$586	\$766
742	Demo Floor Tile - Allow 50%	17,422	SF	\$3.50	\$60,977					\$60,977	\$79,685
743	Replace Flooring	17,422	SF	\$4.50	\$78,399	0.029	505.2	\$47,102		\$125,501	\$196,806
744	Ducts Assumed not Disturbed										
745											
746											
747	Subtotal: H-F Hazardous Material Recommendations				\$139,376		510.2	\$47,688		\$187,064	\$277,257
748											
749											
750											
751	M-P1 Domestic Hot Water Tempering Valve										
752	Add Tempering Valve 2"	1	EA	\$2,500.00	\$2,500	6.000	6.0	\$709		\$3,209	\$5,452
753	Thermostatic Mixing Valves	17	EA	\$125.00	\$2,125	1.000	17.0	\$2,008		\$4,133	\$7,021
754											
755											
756	Subtotal: M-P1 Domestic Hot Water Tempering Valve				\$4,625		23.0	\$2,717		\$7,342	\$12,473
757											
758											
759											
760	M-P2 Replace Penal Fixtures										
761	Replace Combi Fixtures	2	EA	\$4,000.00	\$8,000	16.000	32.0	\$3,780		\$11,780	\$20,012
762											
763											
764	Subtotal: M-P2 Replace Penal Fixtures				\$8,000		32.0	\$3,780		\$11,780	\$20,012
765											
766											
767											
768	M-P3 Replace Roof Drains										
769	Replace Roof Drains	3	EA	\$500.00	\$1,500	6.000	18.0	\$2,126		\$3,626	\$6,160
770											
771											
772	Subtotal: M-P3 Replace Roof Drains				\$1,500		18.0	\$2,126		\$3,626	\$6,160
773											
774											

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Line No.	Description	Qty	UNITS	Material Costs Unit	Material Costs Total	Labor Hours Units	Labor Hours Totals	Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
775											
776	M-FO1 Replace Underground Fuel Tank										
777	Remove Tank	1	EA			160.000	160.0	\$18,900	\$10,000	\$28,900	\$49,096
778	Disposal	1	EA	\$2,000.00	\$2,000					\$2,000	\$3,398
779	AST 1500 Gal	1	EA	\$18,000.00	\$18,000	40.000	40.0	\$4,725		\$22,725	\$38,606
780	Day Tank	1	EA	\$12,000.00	\$12,000	8.000	8.0	\$945		\$12,945	\$21,991
781	Tigerloops	3	EA	\$150.00	\$450	2.000	6.0	\$709		\$1,159	\$1,969
782	Piping 3/4 and 1"	100	LF	\$4.25	\$425	0.195	19.5	\$2,303		\$2,728	\$4,634
783											
784											
785	Subtotal: M-FO1 Replace Underground Fuel Tank				\$32,875		233.5	\$27,582	\$10,000	\$70,457	\$119,694
786											
787											
788											
789	M-FP1 New Air Compressor										
790	3/4 HP Air Compressor and Dryer	1	EA	\$1,500.00	\$1,500	16.000	16.0	\$1,890		\$3,390	\$5,759
791											
792											
793	Subtotal: M-FP1 New Air Compressor				\$1,500		16.0	\$1,890		\$3,390	\$5,759
794											
795											
796											
797	M-FP2 New Life Safety Plan and Fire Sprinkler Update										
798	Life Safety Plan	1	EA	\$10,000.00	\$10,000					\$10,000	\$13,068
799	Fire Alarm Upgrades	34,844	SF	\$3.00	\$104,532					\$104,532	\$136,602
800											
801											
802	Subtotal: M-FP2 New Life Safety Plan and Fire Sprinkler Update				\$114,532					\$114,532	\$149,670
803											
804											
805											
806											
807											
808											
809											
810											
811											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
812											
813	M-H1 Expansion Tank										
814	Expansion Tank	1	EA	\$2,000.00	\$2,000	8.000	8.0	\$945		\$2,945	\$5,003
815											
816											
817	Subtotal: M-H1 Expansion Tank				\$2,000		8.0	\$945		\$2,945	\$5,003
818											
819											
820											
821	M-H2 Repace Circulation Pumps and Control Valves										
822	Replace Pumps 130 GPM	2	EA	\$3,400.00	\$6,800	12.000	24.0	\$2,835		\$9,635	\$16,368
823	Replace Pumps 50 GPM	2	EA	\$3,000.00	\$6,000	8.000	16.0	\$1,890		\$7,890	\$13,404
824	Replace Control Valves	35	EA	\$225.00	\$7,875	3.000	105.0	\$12,403		\$20,278	\$34,449
825											
826											
827	Subtotal: M-H2 Repace Circulation Pumps and Control Valves				\$20,675		145.0	\$17,128		\$37,803	\$64,221
828											
829											
830											
831	M-V1 Engineering Study - SF-3	1	LS	\$3,000.00	\$3,000					\$3,000	\$3,920
832											
833											
834	Subtotal: M-V1 Engineering Study - SF-3				\$3,000					\$3,000	\$3,920
835	Average Unit Price for this division is: \$3920.00 per LS based on 1 LS										
836											
837											
838	M-V2 Duct Cleaning										
839	Duct Cleaning	1	LS	\$20,000.00	\$20,000					\$20,000	\$26,136
840											
841											
842	Subtotal: M-V2 Duct Cleaning				\$20,000					\$20,000	\$26,136
843											
844											
845											
846											
847											

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
848	M-V3 Engineering Study - Outside Air										
849	Engineering Study	1	EA	\$5,000.00	\$5,000					\$5,000	\$6,534
850											
851											
852	Subtotal: M-V3 Engineering Study - Outside Air					\$5,000				\$5,000	\$6,534
853											
854											
855											
856	M-V4 Ventilation Fans										
857	Demolition	1	LS								
858	AHU - SA/RA Fan	41,800	CFM	\$3.50	\$146,300	0.007	292.6	\$35,345		\$181,645	\$308,586
859	VAV Boxes with Reheat	15	EA	\$400.00	\$6,000	4.000	60.0	\$7,248		\$13,248	\$22,506
860	Hydronic Piping to Reheat Coils, Insulated	600	LF	\$11.96	\$7,176	0.266	159.6	\$18,853		\$26,029	\$44,219
861	Valving at Reheat	15	EA	\$225.00	\$3,375	2.000	30.0	\$3,544		\$6,919	\$11,754
862											
863											
864	Subtotal: M-V4 Ventilation Fans					\$162,851	542.2	\$64,990		\$227,841	\$387,065
865											
866											
867											
868	M-V5 Engineering Study - Firing Range	1	LS	\$5,000.00	\$5,000					\$5,000	\$6,534
869											
870											
871	Subtotal: M-V5 Engineering Study - Firing Range					\$5,000				\$5,000	\$6,534
872	Average Unit Price for this division is: \$6534.00 per LS based on 1 LS										
873											
874											
875											
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
885	M-HC1 Add Cooling Coils										
886	Cooling Coils and Valving	2	EA	\$6,500.00	\$13,000	40.000	80.0	\$9,664		\$22,664	\$38,503
887	Condenser	60	TONS	\$1,500.00	\$90,000	4.000	240.0	\$28,991		\$118,991	\$202,147
888	Refrigerant Piping	1	LS	\$10,000.00	\$10,000					\$10,000	\$16,988
889											
890											
891	Subtotal: M-HC1 Add Cooling Coils				\$113,000		320.0	\$38,655		\$151,655	\$257,638
892											
893											
894											
895	M-BC1 Replace Control System with BAS										
896											
897	BAS Control System - by SF	34,844	SF	\$7.00	\$243,908					\$243,908	\$318,739
898											
899											
900	Subtotal: M-BC1 Replace Control System with BAS				\$243,908					\$243,908	\$318,739
901											
902											
903											
904	M-G1 Seismic Restraints										
905	Allow for Seismic Restraints - Equipment	10	EA	\$200.00	\$2,000	4.000	40.0	\$4,725		\$6,725	\$11,425
906	Allow for Seismic Restraints - Pipe	30	EA	\$70.00	\$2,100	2.000	60.0	\$7,088		\$9,188	\$15,609
907											
908											
909	Subtotal: M-G1 Seismic Restraints				\$4,100		100.0	\$11,813		\$15,913	\$27,034
910											
911											
912											
913	S-1 Replace Framing										
914	Exterior Walls & Parapets										
915	Shoring	1,400	SF			0.043	60.2	\$7,058	\$1,400	\$8,458	\$11,053
916	Demolition	1,400	SF	\$0.25	\$350	0.034	47.6	\$5,581		\$5,931	\$7,751
917	Framing	1,400	SF	\$1.80	\$2,520	0.034	47.6	\$5,581		\$8,101	\$10,586
918	Sheathing	1,400	SF	\$1.20	\$1,680	0.017	23.8	\$2,791		\$4,471	\$5,843
919											
920											
921											

Wrangell Public Safety Building
Renovation of Existing PSB Building
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Condition Survey Submittal
January 29, 2021

Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P	
				Unit	Total	Units	Totals					
922	Level 2 Floor Framing Grid 1/3-C/F	874	SF									
923	Demolition	874	SF	\$0.25	\$219	0.100	87.4	\$10,248		\$10,467	\$13,678	
924	Framing	874	SF	\$9.00	\$7,866	0.100	87.4	\$10,248		\$18,114	\$23,671	
925	Sheathing	874	SF	\$2.00	\$1,748	0.021	18.4	\$2,157		\$3,905	\$5,103	
926												
927	Roof Framing Grid 1/3-C/F	874	SF									
928	Demolition	874	SF	\$0.25	\$219	0.100	87.4	\$10,248		\$10,467	\$13,678	
929	Framing including GLBs	874	SF	\$15.00	\$13,110	0.200	174.8	\$20,495		\$33,605	\$43,915	
930	Sheathing	874	SF	\$2.00	\$1,748	0.021	18.4	\$2,157		\$3,905	\$5,103	
931												
932												
933	Subtotal: S-1 Replace Framing					\$29,460		653.0	\$76,564	\$1,400	\$107,424	\$140,381
934												
935												
936												
937	S-2 Replace Glulam Beams											
938	Shoring	88	LF			0.643	56.6	\$6,636	\$1,320	\$7,956	\$10,397	
939	GLB Demo	88	LF	\$2.25	\$198	0.171	15.0	\$1,759		\$1,957	\$2,557	
940	GLB New	88	LF	\$45.00	\$3,960	0.600	52.8	\$6,191		\$10,151	\$13,265	
941												
942	Exterior Walls	2,200	SF									
943	Shoring	2,200	SF			0.043	94.6	\$11,092	\$2,200	\$13,292	\$17,370	
944	Demolition	2,200	SF	\$0.25	\$550	0.034	74.8	\$8,770		\$9,320	\$12,179	
945	Framing	2,200	SF	\$1.80	\$3,960	0.034	74.8	\$8,770		\$12,730	\$16,636	
946	Sheathing	2,200	SF	\$1.20	\$2,640	0.017	37.4	\$4,385		\$7,025	\$9,180	
947												
948												
949	Subtotal: S-2 Replace Glulam Beams					\$11,308		406.0	\$47,603	\$3,520	\$62,431	\$81,584
950												
951												
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Wrangell Public Safety Building
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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P	
				Unit	Total	Units	Totals					
959	S-3 Level 2 Floor Framing and Sheathing											
960	Replace Sheathing at perimeter, 24"w	1,080	SF	\$2.13	\$2,300	0.040	43.2	\$5,065		\$7,365	\$9,625	
961	Replace Sheathing at Grid 4.5/7-C/F	1,300	SF	\$2.13	\$2,769	0.040	52.0	\$6,097		\$8,866	\$11,586	
962	Replace Framing at Grid 4.5/7-C/F	1,300	SF	\$9.00	\$11,700	0.100	130.0	\$15,242		\$26,942	\$35,208	
963												
964												
965	Subtotal: S-3 Level 2 Floor Framing and Sheathing					\$16,769		225.2	\$26,404	\$43,173	\$56,419	
966												
967												
968												
969	S-4 Roof Sheathing											
970	Replace Sheathing at Grid 3/7-C/F	2,600	SF	\$2.13	\$5,538	0.040	104.0	\$12,194		\$17,732	\$23,172	
971												
972												
973	Subtotal: S-4 Roof Sheathing					\$5,538		104.0	\$12,194	\$17,732	\$23,172	
974												
975												
976												
977	S-5 Exterior Wall											
978	Exterior Walls & Parapets	540	SF									
979	Shoring	36	LF			0.643	23.1	\$2,708	\$540	\$3,248	\$4,244	
980	Demolition	540	SF	\$0.25	\$135	0.034	18.4	\$2,157		\$2,292	\$2,995	
981	Framing	540	SF	\$1.80	\$972	0.034	18.4	\$2,157		\$3,129	\$4,089	
982	Sheathing	540	SF	\$1.20	\$648	0.017	9.2	\$1,079		\$1,727	\$2,257	
983												
984												
985	Subtotal: S-5 Exterior Wall					\$1,755		69.1	\$8,101	\$540	\$10,396	\$13,585
986												
987												
988												
989												
990												
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995												

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Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
996	S-6 Exterior Wall Grids C/F Gable Roof to Flat Roof										
997	Exterior Walls & Parapets	625	SF								
998	Shoring	125	LF			0.643	80.4	\$9,427	\$1,875	\$11,302	\$14,769
999	Demolition	625	SF	\$0.25	\$156	0.034	21.3	\$2,497		\$2,653	\$3,467
1,000	Framing	625	SF	\$1.80	\$1,125	0.034	21.3	\$2,497		\$3,622	\$4,733
1,001	Sheathing	625	SF	\$1.20	\$750	0.017	10.6	\$1,243		\$1,993	\$2,604
1,002											
1,003											
1,004	Subtotal: S-6 Exterior Wall Grids C/F Gable Roof to Flat Roof				\$2,031		133.6	\$15,664	\$1,875	\$19,570	\$25,573
1,005											
1,006											
1,007											
1,008	S-7 Exterior Wall Grid H										
1,009	Exterior Walls & Parapets	3,087	SF								
1,010	Shoring	3,087	SF			0.043	132.7	\$15,559	\$3,087	\$18,646	\$24,367
1,011	Demolition	3,087	SF	\$0.15	\$463	0.017	52.5	\$6,156		\$6,619	\$8,650
1,012	Framing, Sister Studs	792	BF	\$1.80	\$1,426	0.071	56.2	\$6,589		\$8,015	\$10,474
1,013	Remove 24" of bottom of original Studs	66	EA			0.500	33.0	\$3,869		\$3,869	\$5,056
1,014	Sheathing	3,087	SF	\$1.20	\$3,704	0.017	52.5	\$6,156		\$9,860	\$12,885
1,015											
1,016											
1,017	Subtotal: S-7 Exterior Wall Grid H				\$5,593		326.9	\$38,329	\$3,087	\$47,009	\$61,432
1,018											
1,019											
1,020											
1,021	S-8 Exterior Wall										
1,022	Exterior Walls & Parapets	8,100	SF								
1,023	Demolition	8,100	SF	\$0.15	\$1,215	0.017	137.7	\$16,145		\$17,360	\$22,686
1,024	Sheathing	8,100	SF	\$1.20	\$9,720	0.017	137.7	\$16,145		\$25,865	\$33,800
1,025											
1,026											
1,027	Subtotal: S-8 Exterior Wall				\$10,935		275.4	\$32,290		\$43,225	\$56,486
1,028											
1,029											
1,030											
1,031											
1,032											

Wrangell Public Safety Building
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Construction Cost Estimate
Condition Survey Submittal
January 29, 2021

Line No.	Description	Qty	UNITS	Material Costs		Labor Hours		Labor Cost	Equip Cost	Total Cost	Total Cost w/ OH & P
				Unit	Total	Units	Totals				
1,033	S-9 Gutter/Soffit at North										
1,034	Gutters/Soffit	75	LF								
1,035	Demo Soffit & Framing	488	SF	\$0.25	\$122	0.043	21.0	\$2,462		\$2,584	\$3,377
1,036	Framing	488	SF	\$1.80	\$878	0.034	16.6	\$1,946		\$2,824	\$3,690
1,037	Sheathing	488	SF	\$1.20	\$585	0.017	8.3	\$973		\$1,558	\$2,036
1,038											
1,039											
1,040	Subtotal: S-9 Gutter/Soffit at North					\$1,585		45.9	\$5,381	\$6,966	\$9,103
1,041											
1,042											
1,043											
1,044	S-10 Roof Sheathing										
1,045											
1,046	Demo Sheathing	2,000	SF	\$0.25	\$500	0.043	86.0	\$10,083		\$10,583	\$13,830
1,047	Sheathing	2,000	SF	\$1.20	\$2,400	0.021	42.0	\$4,924		\$7,324	\$9,571
1,048											
1,049											
1,050	Subtotal: S-10 Roof Sheathing					\$2,900		128.0	\$15,007	\$17,907	\$23,401
1,051											
1,052											

Wrangell Public Safety Building
New Facility on PSB Site, Includes Demoliton of PSB
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description				Estimated Cost		Div.
Gross Building Area	34,500	SF				
01 - GENERAL REQUIREMENTS				\$2,983,920	\$86.49	1
Project Management, Equipment, Etc.	34,500	SF	\$65.67	\$2,265,770		
Room & Board	3,341	MDAY	\$200.00	\$668,150		
Mob/Demob	1	EA	\$50,000.00	\$50,000		
02 - EXISTING CONDITIONS				\$981,438	\$28.45	2
Demo WMC	34,844	SF	\$9.00	\$313,596		
Hazmat Abatement	34,844	SF	\$7.96	\$277,257		
Haul Off Waste Stream (Barging to off site disposal)	1,307	TONS	\$250.00	\$326,663		
Concrete Disposal, Local	871	CY	\$20.00	\$17,422		
Fill Basement	1,550	CY	\$30.00	\$46,500		
03 - CONCRETE	34,500	SF	\$26.00	\$897,000	\$26.00	3
05 - METALS				\$1,562,850	\$45.30	5
Structural Steel & Metal Decks	34,500	SF	\$37.90	\$1,307,550		
Misc Metals	34,500	SF	\$7.40	\$255,300		
06 - WOOD AND PLASTIC		SF		\$390,885	\$11.33	6
Rough Carpentry and Misc Fabrications	34,500	SF	\$5.00	\$172,500		
Casework	34,500	SF	\$6.33	\$218,385		
07 - THERMAL & MOISTURE PROTECTION	29,920	Ext SF	\$60.00	\$1,795,200	\$52.03	7
08 - OPENINGS				\$501,700	\$14.54	8
Entrances	10	LV	\$7,200.00	\$72,000		
OH Doors	3	EA	\$8,400.00	\$25,200		
Doors	100	EA	\$2,300.00	\$230,000		
Windows (Curtainwall and punched windows)	1,800	SF	\$90.00	\$162,000		
Security Window at Reception	1	EA	\$5,000.00	\$5,000		
Interior Glazing	200	SF	\$37.50	\$7,500		
09 - FINISHES				\$1,633,500	\$47.35	9
Partitions	46,667	SF	\$18.00	\$840,000		
Finishes	34,500	SF	\$23.00	\$793,500		
10 - SPECIALTIES	34,500	SF	\$9.00	\$310,500	\$9.00	10

Wrangell Public Safety Building
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Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description			Estimated Cost		Div.
Gross Building Area	34,500	SF			
11 - EQUIPMENT			\$135,000	\$3.91	11
Residential Equipment	1	LS	\$6,000.00	\$6,000	
Detention Equipment, Including Cells	4	EA	\$15,000.00	\$60,000	
Security Equip, Gun Lockers, etc	34,500	SF	\$2.00	\$69,000	
12 - FURNISHINGS			\$10,000	\$0.29	12
Window shades, miscellaneous	1	LS	\$10,000.00	\$10,000	
20 - MECHANICAL			\$483,000	\$14.00	20
Geneal Mechanical, Insulation, Commissioning	34,500	SF	\$14.00	\$483,000	
21 - FIRE SUPPRESSION			\$155,250	\$4.50	21
Sprinklers	34,500	SF	\$4.50	\$155,250	
22 - PLUMBING			\$592,889	\$17.19	22
Plumbing Fixtures and Roughin	40	EA	\$12,000.00	\$480,000	
Water Heater	1	EA	\$11,000.00	\$11,000	
Roof Drains and Rain leaders	28	EA	\$3,638.89	\$101,889	
23 - HVAC			\$1,639,000	\$47.51	23
Testing and Balancing	34,500	SF	\$1.50	\$51,750	
Heating System	34,500	SF	\$18.50	\$638,250	
3,000 Gal Fuel Oil Storage, Piping and 50 Gal Day Tank	1	EA	\$49,500.00	\$49,500	
Ventilation and Exhaust	34,500	SF	\$21.00	\$724,500	
Cooling	50.0	TONS	\$3,500.00	\$175,000	
25 - INTEGRATED AUTOMATION			\$241,500	\$7.00	25
DDC controls and VFDs	34,500	SF	\$7.00	\$241,500	
26 - ELECTRICAL			\$1,921,470	\$55.69	26
General Electical	34,500	SF	\$10.00	\$345,000	
Power Service and Distribution Panels	1,200	AMP	\$301.88	\$362,250	
Convenience Power	34,500	SF	\$4.80	\$165,600	
Motor Controls and Circuiting	34,500	SF	\$1.85	\$63,825	
Lighting	34,500	SF	\$17.00	\$586,500	
Exterior Lighting	15	EA	\$10,062.50	\$150,938	
Lighting Controls	34,500	SF	\$1.95	\$67,357	
Generator and ATS	150	KW	\$1,200.00	\$180,000	

Wrangell Public Safety Building
New Facility on PSB Site, Includes Demoliton of PSB
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Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description			Estimated Cost	Div.
Gross Building Area	34,500	SF		
27 - COMMUNICATIONS			\$334,054	\$9.68 27
Telecom distribution and Outlets	420	EA	\$795.37	\$334,054
28 - ELECTRONIC SAFETY & SECURITY			\$434,650	\$12.60 28
Access Control and Intrusion Detection	34,500	SF	\$5.53	\$190,900
CCTV	25	EA	\$6,300.00	\$157,500
Fire Alarm	34,500	SF	\$2.50	\$86,250
31 - EARTHWORK			\$586,500	\$17.00 31
Earthwork	34,500	SF	\$17.00	\$586,500
32 - EXTERIOR IMPROVEMENTS			\$498,750	\$14.46 32
Parking and Drives	6,000	SY	\$30.00	\$180,000
Walks and Curbs	750	SY	\$125.00	\$93,750
Fencing	500	LF	\$50.00	\$25,000
Landscaping	1	LS	\$200,000.00	\$200,000
33 - UTILITIES			\$140,000	\$4.06 33
Water & Sewer	400	LF	\$350.00	\$140,000
Subtotal			\$18,229,055	\$528.38 <<<<<
Contractor Insurance			1.5%	\$273,436
Contractor Bond			0.6%	\$111,015
Contractor Fee			7.0%	\$1,302,945
Subtotal, Contractors Cost			\$19,916,452	\$577.29
Estimating Contingency:			15.0%	\$2,987,468
Escalation For Inflation: (2022)	18 Mths	@ 4.0%	6.1%	\$1,387,887
Subtotal, Construction Cost Estimate			\$24,291,807	\$704.11
Design & Construction Administration		14% percent of Construction		\$3,400,853
Construction Contingency		10% percent of Construction		\$2,429,181
Total Project Cost			\$30,121,840	\$873.10

HAZARDOUS MATERIALS ASSESSMENT

WRANGELL MEDICAL CENTER EVALUATION

WRANGELL, ALASKA

Surveyed
September 15, 17, 18, 2020

Report Date
February 9, 2021

EHS, ALASKA, INC.
ENGINEERING, HEALTH & SAFETY CONSULTANTS
11901 BUSINESS BLVD., SUITE 208
EAGLE RIVER, ALASKA 99577-7701

**HAZARDOUS MATERIALS ASSESSMENT
WRANGELL MEDICAL CENTER EVALUATION**

WRANGELL, ALASKA

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HAZARDOUS MATERIALS ASSESSMENT WRANGELL MEDICAL CENTER EVALUATION

WRANGELL, ALASKA

OVERVIEW

The Wrangell Medical Center, located in Wrangell, Alaska, was surveyed for the presence of asbestos-containing materials (ACM), and other potentially hazardous materials as a part of the design services for the Wrangell Medical Center Evaluation Project for the Wrangell Facilities Department. The survey also provided a “good faith” inspection for hazardous materials that may be disturbed during renovation, construction, or demolition. The proposed work will likely include the disturbance, demolition, removal and disposal of lead-containing paints and/or lead-containing materials that is incidental to the renovation, remodeling or demolition project. Mr. Brandon W. Hill, and Mr. Robert A. French, P.E. of EHS-Alaska, Inc. (EHS-Alaska) conducted the inspections in September 2020. It will be the contractor’s responsibility to take this baseline data, and to conduct hazardous materials removal in compliance with all regulatory requirements.

A. GENERALIZED REQUIREMENTS FOR HAZARDOUS MATERIALS

Potentially hazardous materials have been identified in Wrangell Medical Center that will affect both ongoing maintenance operations, as well as possible future renovations or demolition. Those materials include asbestos, lead, polychlorinated bi-phenyls (PCBs), mercury, and radioactive materials. Not all materials were tested for potentially hazardous components, other potentially hazardous materials, including those exterior to the building, such as contamination from underground fuel tanks may be present, but are not part of this report.

Buildings or portions of buildings that were constructed prior to 1978 which are residences, or contain day care facilities, kindergarten classes or other activities frequently visited by children under 6 years of age are classified as *child occupied facilities*. All work classified as “renovations” or disturbing more than 6 square feet of lead-based painted surfaces per room for interior activities or more than 20 square feet for exterior activities in child occupied facilities must comply with the requirements of 40 CFR 745. Portions of this building may be classified as a *child occupied facility* if children under 6 years of age spend long lengths of time in the facility, and it is the Owner’s responsibility to ensure the requirements of 40 CFR 745 are met. See lead testing results for locations of lead-based paints present in the project areas.

Only the materials that will be directly affected or disturbed are subject to OSHA and EPA regulations. It will be the Owner’s responsibility to take this baseline data to coordinate and fully develop a hazardous materials removal design that will identify the presence, locations and quantities of asbestos and/or other hazardous materials that will be affected by future projects. The removal and disposal of potentially hazardous materials are highly regulated, and it is anticipated that removal and disposal of asbestos, lead and chemical hazards will be conducted by a subcontractor to the general contractor who is qualified for such removal. It is anticipated that the general contractor and other trades will be able to conduct their work using engineering controls and work practices to control worker exposure and to keep airborne contaminants out of occupied areas of the building.

Settled and concealed dusts in areas not subject to routine cleaning are present throughout the building, including the roof, and inside and on top of architectural, mechanical, electrical, and structural elements, and those dusts are assumed to contain regulated air contaminants. This should not be read to imply that there is an existing hazard to building occupants (normal occupants of the building as opposed to construction workers working in the affected areas). However, depending on the specific work items involved and on the means and methods employed when working in the affected areas, construction workers could be exposed to regulated air contaminants from those dusts in excess of the OSHA Permissible Exposure Limits (PELs).

The settled and concealed dusts were examined by an EPA Certified Building Inspector but were not sampled. The inspector determined that the dusts are not "asbestos debris" from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM). Reference 40 CFR 763.83.

NOTE: Asbestos-containing debris was noted from damaged pipe insulation, damaged joint compound of the gypsum wall board, and damaged roofing materials in the attic areas, and above the suspended ceiling system in the 1964 and 1974 eras, and it is likely that the dusts in these areas may contain more than one percent (1%) asbestos by weight, and therefore would be classified as an asbestos-containing material (ACM). Reference 40 CFR 763.83. The dirt floor of the crawl space under the 1974 portion of the building was also contaminated by debris from damaged pipe insulation, and the soil is considered to be contaminated.

"Awareness training" (typically 2 hours) and possibly respiratory protection will be required for all Contractor Personnel who will be disturbing the dusts. The extent of the training and protective measures will depend upon the airborne concentrations measured during air monitoring of the contractors work force, which depends on the means and methods employed to control the dusts. The air monitoring may be discontinued following a "negative exposure assessment" showing that worker exposures are below the OSHA permissible exposure limits for the type of work and means and methods employed. Previous air monitoring from similar jobs with similar conditions may be used as historical data to establish a "negative exposure assessment".

B. BUILDING DESCRIPTION

The Wrangell Medical Center was originally constructed in many different phases with many different renovations through the years. It is important to understand the boundaries and materials of each era of construction, as many materials have been removed or covered over by subsequent renovations.

The single story original portion was built in 1967 and includes much of the service functions of the building, as well as Operating rooms, etc. The original portion had a dirt floored crawl space with concrete foundation walls that were supported on what appeared to be driven steel piles. The original building was mainly of wood framed construction, with a slightly pitched, built-up roofing (beneath the metal roof) that contained asbestos.

The two story 1974 era consists of the current long-term care wing, with a lower level that mainly had storage, laundry, mortuary, and other service functions. The lower level had a slab-on grade foundation with truss joist framing supporting the main floor and a slightly sloped plywood roof deck with built-up roofing (beneath the metal roof) that contained asbestos.

A large addition and renovation was constructed in 1988 that was mostly of a modular construction that wrapped around the original core of the building. The "as-built" drawings from that construction are inconsistent, and appear to have a fair amount of errors, or undocumented changes. The 1988 work included renovations to areas of the original construction and 1974 wing. The 1988 renovation included installing a pitched metal roof over the entire building. The existing roofs were mostly left in place, with a large attic structure over the top of the existing structures, which also included an existing shallow attic over the original portion of the building. The 1988 addition also included an Exterior Insulation Finish Systems (EIFS) around the entire building. The 1988 addition had a dirt floored crawl space with concrete perimeter foundation walls and glue-laminated beams, supported by creosote piles, in a similar fashion to the original construction.

There was a maintenance/storage addition that was constructed sometime between 1992 and 1995, with the dates not being entirely clear. The 1992 addition was a pre-engineered metal building supported on concrete pads supported by piers, with a metal skirting around the perimeter of the building.

There were a couple of "infill" or "addition" rooms that were installed at an unknown date.

A Magnetic Resonance Imaging (MRI) instrument was located in a moveable trailer to the north of the main building. The MRI trailer was on lease, and was not inspected as part of this project.

The Building is built on a site that slopes down to the south, and is reported to be built on “muskeg” which has resulted in soil settling in several locations, most notable at the perimeter of the original construction and at the 1992 addition.

Interior portions of the building typically consisted of the following:

- Floor finishes: vinyl composition floor tiles, carpeting, sheet vinyl, ceramic mosaic floor tiles, laminate floors, and bare concrete. Most of the older portions had more than one layer of flooring present, and had wood substrates with multiple layers of plywood or particle board subflooring.
- Wall finishes: gypsum wall board, decorative ceramic wall tiles, and fiber reinforced plastic wall panels. It appeared that many walls in the older portions would have concealed materials beneath the current finish.
- Ceiling finishes: gypsum wall board, lay-in ceiling tiles, glued-on ceiling tiles, and exposed structure. The ceiling systems in the older portions often had concealed materials.

Heating and ventilation at the building is provided by various air handling systems, with hydronic heating, and oil fired boilers.

C. SAMPLING AND ANALYSIS

1. Asbestos-Containing Materials

The survey included sampling of suspect ACM materials that had not been sampled in prior asbestos surveys, or samples of materials where previous sampling had been inconsistent. The design has relied heavily on previous sampling conducted in the building, especially in areas that were closed to this survey due to COVID-19 restrictions. Refer to the previous asbestos survey report, available for review in the Wrangell Medical Center offices, for information on previous sampling which is not included in this report. Additional testing of materials pertinent to the project, including asbestos and lead was conducted and is included in this report.

The samples were analyzed for the presence of asbestos by polarized light microscopy (PLM), the method of analysis recommended by the U.S. Environmental Protection Agency (EPA) to determine the composition of suspected asbestos-containing materials (EPA method 600/M4-82-020). Only materials containing more than 1% total asbestos were classified as “asbestos-containing” based on EPA and the Occupational Safety and Health Administration (OSHA) criteria. Samples that were analyzed to have less than 10% asbestos were “point-counted” by the laboratory for more accuracy. Samples that are listed as having a “Trace by Point Count” had asbestos fibers found in the material, but the fibers were not present at the counting grids. Table 1 in Part D below contains a summary list of the asbestos bulk samples and the applicable results.

The Bulk Asbestos samples were analyzed for asbestos content by International Asbestos Testing Laboratories (IATL), Mt. Laurel, New Jersey a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

EPA regulations under 40 CFR 763 requires the use of Polarized Light Microscopy (PLM) to determine whether or not a material contains asbestos. While PLM analysis does a good job for most materials, it does have some limitations, both in the size of the fibers that are visible under a standard optical microscope, and because the organic matrix that the fibers are bound within can obscure the fibers. At the discretion of the building inspector and the client, some types of samples may be analyzed or re-analyzed by what is called TEM NOB, or Transmission Electron Microscopy for Non-Friable Organically Bound materials, for “asbestos in bulk building materials by TEM Gravimetry”. TEM NOB is the definitive method for determining if asbestos is present, but TEM NOB use is not required by the EPA. TEM NOB analysis was not done for this project.

Field survey data sheets and laboratory reports of the bulk samples are included in Appendix A. Drawings showing sample locations are included as Appendix C.

2. Lead-Containing Materials

Nearly all surfaces in the building were coated with paint and most surfaces had been repainted. EHS-Alaska tested representative paints throughout the affected areas of the building using an Heuresis Pb200i X-Ray Fluorescence (XRF) lead paint analyzer (Serial # 1770 with software version 4.0-21). The lead testing conducted was not a Lead-Based Paint Inspection or Screening as defined by HUD or EPA regulations, but was done to test surfaces that may be representative of those likely to be affected by this project. If surfaces and materials other than those tested are identified, it is presumed that additional testing may be appropriate. Refer to the Lead Analyzer Test Results Table in Appendix B that identifies the surfaces tested, and the results. All surfaces affected by this project may not have been tested and therefore additional sampling may be required to refute the presence of lead-based paints in child occupied facilities regulated by 40 CFR 745. The Lead Test Locations are shown in Appendix C.

EPA and the Department of Housing and Urban Development (HUD) have defined lead-based paint as any paint or other surface coating that contains lead equal to or in excess of 1.0 milligram per square centimeter (mg/cm²) or 0.5 percent by weight. XRF results are classified as positive (lead is present at 1.0 mg/cm² or greater), negative (less than 1.0 mg/cm² of lead was present) or inconclusive (the XRF could not make a conclusive positive or negative determination). Tests that were invalid due to operator error are shown as void tests.

A Performance Characteristic Sheet (PCS) for the Heuresis Pb200i is available upon request. This PCS data provides supplemental information to be used in conjunction with Chapter 7 of the "HUD Guidelines". Performance parameters provided in the PCS are applicable when operating the instrument using the manufacturer's instructions and the procedures described in Chapter 7 of the "HUD Guidelines". The instrument was operated in accordance with manufacturer's instructions and Chapter 7 of the HUD Guidelines. No substrate correction is required for this instrument. There is no inconclusive classification for this instrument when using the 1.0 mg/cm² threshold.

D. SURVEY RESULTS

1. Asbestos-Containing Materials

The following Table 1A lists the samples taken in September 2020, and the results of the laboratory analysis. Asbestos field survey data sheets and laboratory reports are included as Appendix A. Refer to Appendix C for sample locations.

TABLE 1A

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMS0920-A01	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. On white pipe above fan unit near Hatch. Photo B72	3.2% chrysotile, 2.2% crocidolite, 1% amosite
WMS0920-A02	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. On loose yellow painted insulation in plastic box near Hatch. Photo B73	3.4% chrysotile, 2.4% crocidolite, 1.2% amosite
WMS0920-A03	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. Broken elbow near fan-coil. Photo B74	30% chrysotile, 6% amosite

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMS0920-A04	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber downstream of the Heat Recovery Wheel. Photo R575	3.4% chrysotile
WMS0920-A05	Joint compound at Ceiling	Attic Fan room in 1967 Era. Ceiling above Fan Unit Photo B75	1.6% chrysotile
WMS0920-A06	GCT-1; 12x12 Ceiling tiles with dark brown mastic	Attic Fan room in 1967 Era. Loose, stored tiles "in case they are needed". Photo B76	None Detected, both layers
WMS0920-A07	GCT-1; 12x12 Ceiling tiles with dark brown mastic	Attic Fan room in 1967 Era. Loose, stored tiles "in case they are needed". Photo B77	None Detected, both layers
WMS0920-A08	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber downstream of the Heat Recovery Wheel. No photo	3.2% chrysotile
WMS0920-A09	Gray sticky sealant at ductwork	Attic Fan room in 1967 Era. At shiny ducts of Kitchen Exhaust Fan. Photo B78	3.4% chrysotile
WMS0920-A10	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber for Fan 10016. Photos R601, 602	3.4% chrysotile
WMS0920-A11	Dark Brown mastic for TJI Wood joists. Ignore wood layer!	Attic, Joists of the 1988 roof structure. Near peak of the roof above the 1967 era. Photo B88	None Detected
WMS0920-A12	Dark Brown mastic for TJI Wood joists. Ignore wood layer!	Attic, Joists of the 1988 roof structure. Near peak of the roof above the 1967 era. Photo B89	None Detected
WMS0920-A13	Joint Compound	Attic. On exterior "wall" of the 1967 fan rom, but likely installed in 1988. Photo B90	None Detected
WMS0920-A14	Tar Paper under 1988 metal Roof	Attic, at hole for Boiler stack through the 1988 roof. Photo R 639	None Detected
WMS0920-A15	Brown hard insulation of "Van Packer" boiler stack	Attic. Appears to be original 1967 stack. Photo R 640 & 41	40% chrysotile
WMS0920-A16	White fabric and Black Tar sealant	Attic above PT. Remnant of temporary roof over 1988 modular buildings. At Duct penetration. Photo B91	3.4% chrysotile
WMS0920-A17	White fabric and Black Tar sealant	Attic above PT. Remnant of temporary roof over 1988 modular buildings. At Duct penetration. Photo R655 & 656	None Detected
WMS0920-A18	GCT 12x12 Ceiling tiles with dark brown mastic. "PyROTECT on back.	Attic above PT. Loose, stored tiles "in case they are needed". Photo B95	None Detected, both layers

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMS0920-A19	GCT 12x12 Ceiling tiles with dark brown mastic. "PyROTECT on back.	Attic above PT. Loose, stored tiles "in case they are needed". Photo B97	None Detected, both layers
WMS0920-A20	Black tarry coating inside old Pace Exhaust Fan	Attic above boiler room. Fan appears to be abandoned. Photo R633 & 638	5.2% chrysotile
WMS0920-A21	Cream Window Frame Sealant, between frame and (missing) siding (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R670	4.1% chrysotile
WMS0920-A22	Cream Window Frame Sealant, between frame and (missing) siding (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R670	3.8% chrysotile
WMS0920-A23	Lighter yellow-white window glazing compound at edge of glass (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R671 & 2	1.3% chrysotile
WMS0920-A24	Gray sticky window glazing compound at edge of glass (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R671 & 2	2.4% chrysotile
WMS0920-A25	Cream, hard window glazing compound at edge of glass (10" x 7'-8")	Attic above PT. Loose stored glass. Photo R676 & 7	4.2% chrysotile
WMS0920-A26	White sealant at round adjustable duct.	Attic above PT. Loose stored duct. Photo R678	None Detected
WMS0920-A27	White sealant at round adjustable duct.	Attic above Reception Area. Active Duct. Photo B100	None Detected
WMS0920-A28	Chalky white hard fitting insulation	Attic above Surgery Area. Debris on Ceiling. Photo B101	15% chrysotile, 5% amosite
WMS0920-A29	Tarry craft paper from behind cedar shingle siding	Attic. Former exterior wall of 1974 era. Photo B102	None Detected
WMS0920-A30	Red duct sealant	Attic above 1967 era. Loose duct in attic space. Photo R734	4.4% chrysotile
WMC920-A31	Gray-green mastic of Stainless Corner Guard	Attic near 1974 era. Loose stored corner guard. Photo B103	None Detected
WMC920-A32	Built-up Roofing of 1974 era flat roof, with brown perlite board insulation	Attic of 1974 era. Under loose fiberglass at exhaust duct penetration through old roof into attic. Photo B104	20% chrysotile in BUR, None Detected in perlite
WMC920-A33	Tarry vapor barrier and tar and fesco board	Attic of 1974 era. Bottom of roof assembly at exhaust duct penetration through old roof into attic. Photo R745 & 746	None Detected, both layers

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SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A34	Probably hot mop and fesco board	Attic of 1974 era. Middle layer of fesco board insulation at exhaust duct penetration through old roof into attic. Photo R747	None Detected, both layers
WMC920-A35	Built-up Roofing of 1974 era flat roof with brown perlite board insulation	Attic of 1974 era. Under loose fiberglass at supply duct penetration through old roof into attic. Photo R749	20% chrysotile in 3 of the BUR layers , None Detected in perlite
WMC920-A36	Tarry vapor barrier and tar and fesco board	Attic of 1974 era. Bottom of roof assembly at supply duct penetration through old roof into attic. Photo R750	None Detected
WMC920-A37	ATCO Roof patch tar	Attic near 1974 era. Loose 5 gal. can of Part # 1823. Photo R733	6.2% chrysotile
WMC920-A38	Tar paper under T&G Siding	Attic at "exterior" side of original 1967 Fan Room. Photo R762	None Detected
WMC920-A39	Tar paper and GWB sheathing under T&G Siding	Attic at "exterior" side of original 1967 Fan Room. Photo R763 & 4	None Detected all three layers
WMC920-A40	White silicone sealant at roofing	Metal Roof under valley flashing canopy near main entrance. Photo R782 & 783	None Detected
WMC920-A41	Gray rubbery roof sealant	Metal Roof sealant under edge flashing, near main entrance. Photo R782 & 783	None Detected
WMC920-A42	Clear silicone sealant at fascia of roofing	Metal Roof at lap joint of metal drip ledge over EFIS. Photo R787	None Detected
WMC920-A43	Clear yellow sealant at roofing	Metal Roof, sealant between roofing and metal angle edge flashing into gutter. Photo R786	None Detected
WMC920-A44	Tar paper under metal roofing	Metal roof, under main roof, over decking. Photo R789	None Detected
WMC920-A45	Foam Robber filler at roofing	Metal roof, at edge box of roofing. B105	None Detected
WMC920-A46	Gray sticky putty sealant at roofing	Under metal roof, at edge flashing. B106	None Detected
WMC920-A47	EFIS Stucco & sealant	At column of main entrance drive-through. Photo B109	None Detected, both layers
WMC920-A48	GWB of Soffit	At water damaged at underside of soffit at main entrance drive-through. Photo R791-793	None Detected
WMC920-A49	Joint compound of soffit	At water damaged at underside of soffit at main entrance drive-through. Photo R791-793	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A50	Concrete Sacking	Exterior Foundation wall of 1974 Addition, At snap-tie hole. Photo B110	None Detected
WMC920-A51	Gypsum wall board, joint compound & tape	Ceiling of exterior soffit of walkway going to "morgue door". Photo R807	None Detected, both layers
WMC920-A52	Gray sticky sealant with black foam backer rod	Between door frame and concrete of "morgue door" to 1974 era. Photos R805 & 806	None Detected, both layers
WMC920-A53	White window frame sealant	Between window frame and EFIS. Photo B111	None Detected
WMC920-A54	Harder cream sealant	Sealant at plywood of boarded up window around Air Conditioning Unit. Photo B112 & 113	None Detected
WMC920-A55	Black Tarry Waterproofing at foundation	In crawl space. At former exterior wall of 1974 addition. Photo R836 & 837	None Detected
WMC920-A56	Cement asbestos pipe	In crawl space. At capped pipe coming out of soil. Photo B114, R832	10% chrysotile, 10% crocidolite
WMC920-A57	Cement asbestos pipe	In crawl space. At active sewer pipe. Photo B118, R841	12% chrysotile, 8% crocidolite
WMC920-A58	Hard Fitting insulation	In crawl space. Probably on a hot water pipe. Photo R843 & 845	0.5% chrysotile, 1.2% crocidolite
WMC920-A59	Hard Fitting insulation	In crawl space, on ground. Photo R855	20% chrysotile, 1.5% crocidolite
WMC920-A60	Black Tarry Waterproofing at foundation	At exterior wall of 1974 addition. Photo R885	None Detected
WMC920-A61	Sticky cream sealant at EFIS	At EFIS over 1974 addition. Between metal frame of louver & EFIS. Photo B119	None Detected
WMC920-A62	Sticky cream sealant at EFIS	At EFIS over 1988 addition. Between metal frame of window & EFIS. Photo R1674 & 1675	None Detected
WMC920-A63	Black rubbery glazing at alum windows	Aluminum framed window of 1988 addition. Photo R1674 & 1675	4.5 % chrysotile
WMC920-A64	Sticky cream sealant at EFIS	At EFIS over 1988 addition. Between GWB soffit & EFIS. Photo R1677	None Detected
WMC920-A65	Whiter caulking at EFIS	At EFIS over 1988 addition. Between metal generator louver & EFIS. Photo R1678	None Detected
WMC920-A66	Pinkish caulking	At 1988 addition. Between metal generator louver & louver frame. Photo R1679	None Detected

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A67	EFIS Stucco & fiberglass mesh	At 1988 addition. At drip edge of EFIS. Photo R1692	None Detected
WMC920-A68	Clear sealant at window	At 1992 addition. At wood frame to plastic window joint. Photo R1693	None Detected
WMC920-A69	White sealant at siding	At 1992 addition. At vent pipe penetration of metal siding. Photo R1719	None Detected
WMC920-A70	White sealant at soffit fascia	At 1992 addition. At lap joint of lower soffit flashing. Photo R1721	None Detected
WMC920-A71	White sealant at standing seam roof.	At 1992 addition. At folded top seam of rib joints. Photo R1722	None Detected
WMC920-A72	Tar paper under metal roofing	At 1992 addition. Under main metal roofing. Photo R1724	None Detected
WMC920-A73	Gray sealant at metal roofing	At 1992 addition. At flashing between metal siding and transition flashing over vestibule roof. Photo R1725	None Detected
WMC920-A74	Sticky cream sealant at EFIS	At EFIS over 1988 addition. At Fire Dept. Connection. Photo R1680 R 1726 and B223	None Detected
WMC920-A75	Sticky cream sealant at EFIS	At EFIS over 1967 Orig. Between GWB soffit & EFIS. Photo B224	None Detected
WMC920-A76	Gypsum board & Joint compound	1992 Addition. Corner of Rm 25, Bulk Storage. Photo R1850	None Detected all three layers
WMC920-A77	CB-1, 4" gray cove base with cream mastic, joint compound and gypsum wall board	1992 Addition. Corner of Rm 29, Vestibule. Photo R1859	None Detected all five layers
WMC920-A78	Gypsum wall board & joint compound	1967 era, Sprinkler Room 30, but wall supposedly built with 1988 addition. Photo R1870	None Detected all three layers
WMC920-A79	Gypsum wall board & joint compound	1967 era, Sprinkler Room 30, 1967 exterior wall. Photo R1871	None Detected in gypsum bd, 2.8% chrysotile in joint
WMC920-A80	CB-2, 4" green (painted) cove base with dark brown mastic.	1967 era, Sprinkler Room 30, 1967 exterior wall. Appears original. Photo R1871	None Detected, both layers
WMC920-A81	Hard fitting insulation	1967 era, Boiler Rm. 108. On yellow boiler supply pipe. Photo R1918	10% chrysotile
WMC920-A82	Hard fitting insulation	1967 era, Boiler Rm. 108. On yellow boiler supply pipe. Photo R1919	10% chrysotile, trace amosite

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A83	Hard fitting insulation	1967 era, Boiler Rm. 108. On blue cold water supply. Photos R1908 & 1925	10% chrysotile, trace amosite
WMC920-A84	Black tarry coating inside ceiling speaker box	1988 era. Staff Lounge, 115. Inside red speaker box. Photos R1940 & 1941	None Detected
WMC920-A85	LCT-2, 2' x 4' "Galaxy" pattern suspended ceiling tile. Random small fissures	1988 era. Staff Lounge, 115. Main tile in room. Photo R1938	None Detected
WMC920-A86	CB-2, 4" green (painted) cove base with dark brown mastic & old (on back of CB) & newer Joint Compound (on face of CB)	1967 era, Elec Rm 34, Possible 1988 wall, but appears original. Photo B229	None Detected in three layers, 2.6% chrysotile in joint compound
WMC920-A87	LCT-1, 2' x 4' shallow directional fissures, 1/16" & 1/8" holes	1967 era, but newer tile. Hallway to 1992 addition. Photo B230	None Detected
WMC920-A88	SV-1, cream sheet vinyl with white shading and tiny brown specks	1967 era, but newer flooring. Hallway to 1992 addition. Photo B231	None Detected, both layers
WMC920-A89	CB-3, Gray 4" cove base with light tan mastic	1988 addition, Janitor Closet 109. Photo R1958 & 1959	None Detected, both layers
WMC920-A90	SV-2, Cream with small 3/8" & smaller light tan & gray chips, tan mastic	1988 addition, Janitor Closet 109. Photo R1959	None Detected, both layers
WMC920-A91	"Ventglas" Black neoprene duct flexible connector	1967 Penthouse Fan Rm. At exhaust fan #10019. Photo B232 & 233	None Detected
WMC920-A92	"Ventglas" Black neoprene duct flexible connector	1967 Penthouse Fan Rm. At central AHU. Photo B234	None Detected
WMC920-A93	SV-1, cream sheet vinyl with white shading and tiny brown specks, brown mastic	1967 era, but newer flooring. Store Rm 102. Photo R1966	None Detected, both layers
WMC920-A94	Leveling compound or "Float" over concrete	1967 era. Store Rm 102. Appears to be 1/2" thick over painted concrete. Photo R1966 & 1967	None Detected
WMC920-A95	Tar paper between layers of plywood (ignore wood)	1967 era. At hatch in Janitor Closet 38. Appears to be original slip-sheet between plywood subfloor and plywood underlayment. Photo R1975	None Detected
WMC920-A96	Tar mastic? under particle board (ignore wood)	1967 era. At hatch in Janitor Closet 38. Appears to be original black mastic under particle board underlayment. Photo R1975	4.1% chrysotile

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A97	SV-1, cream sheet vinyl with white shading and tiny brown specks, brown mastic, particle board (ignore wood)	1967 era. At hatch in Janitor Closet 38. Top layer over particle board. Photo R1975	None Detected, both layers
WMC920-A98	SV-3, fake wood sheet flooring, white leveling compound, sticky brown contact cement	1988 era, PT Room, 132. At in-floor duct grille by entrance. Photo R1992	None Detected all three layers
WMC920-A99	White leveling compound, brown mastic	1988 era, PT Room, 132. At in-floor duct grille by entrance. Photo R1992	None Detected, both layers
WMC920-A100	Brown mastic on side of metal duct	1988 era, PT Room, 132. Probably original flooring mastic. At in-floor duct grille by entrance. Photo R1993	None Detected
WMC920-A101	White seal at ductwork	1988 era, PT Room, 132. At opposed blade damper in relief. Photo R1998	None Detected
WMC920-A102	Gypsum wall board and joint compound	1988 era, PT Room, 132. At wall above ceiling grid. Nailed on. Photo R2001	None Detected, both layers
WMC920-A103	SV-2, Cream with small 3/8" & smaller light tan & gray chips, tan mastic (ignore wood)	1988 era, Closet 143. At hatch to crawl space. Photo R2052, 2062	None Detected, both layers
WMC920-A104	CB-3, Gray 4" cove base with cream mastic.	1988 era, Exam Rm 151. Photo R2090	None Detected, both layers
WMC920-A105	Yellow carpet mastic	1988 era, Hallway outside Restroom 142. Photo R2091	None Detected
WMC920-A106	Yellow carpet mastic & gray leveling compound	1988 Era, Waiting Area 81, by vestibules. Photo B260	None Detected, both layers
WMC920-A107	Joint compound	1988 Era, Waiting Area 81, by corner near Admin 79. Photo B261	None Detected
WMC920-A108	Gypsum wall board	1988 Era, Waiting Area 81, by corner near Admin 79. Photo B262	None Detected, both layers
WMC920-A109	Exterior stucco of EFIS at added walls around Dining/Activity 69	Unknown date, reportedly within the past 10 years. Photo B263	None Detected, both layers
WMC920-A110	Exterior stucco, red sealant of EFIS at added walls around Dining/Activity 69	Unknown date, reportedly within the past 10 years. Photo R2251	None Detected
WMC920-A111	Black rubber stair tread with brown mastic	1974 era. Base of stairs. Photo R2262	None Detected, both layers
WMC920-A112	Black rubber stair stringer with brown mastic	1974 era. Base of stairs. Photo R2263	1% chrysotile in rubber, None Detected in mastic

HAZARDOUS MATERIALS ASSESSMENT

SAMPLE NUMBER	MATERIAL	LOCATION	ASBESTOS CONTENT
WMC920-A113	Black Sink undercoating	1974 era. Break Rm. 9 Stainless steel sink. Photo R2272	2.6% chrysotile
WMC920-A114	"Marlite" and brown mastic	1974 era. Restroom 12. At cleanout. Photo R2277	None detected in marlite, trace chrysotile in mastic
WMC920-A115	White, chalky fire door insulation	1974 era. Door between back hallway and Laundry 15. UL listed 1.5 hour rating. Photo R2279	60% chrysotile
WMC920-A116	Red duct sealant	1974 era. Mech/fan Rm. 3 on Mixing side of plenum wall. Photo R2289	5.2% chrysotile
WMC920-A117	Red duct sealant	1974 era. Mech/fan Rm. 3 at bare steel flange. Photo B264	5% chrysotile
WMC920-A118	Gray sealant at Fan sections	1974 era. Mech/fan Rm. 3. Fan 10013. Photo R2290	None Detected
WMC920-A119	"Ventglas" Black neoprene duct flexible connector	1974 era. Mech/fan Rm. 3. Outlet side of Squirrel cage fan. Photo R2291	None Detected
WMC920-A120	Gray ceramic tile grout	1974 era. Restroom 12. Loose grout in crack in base by door Photo R2278	None Detected
WMC920-A121	GCT-1, 12" x 12" Glued on ceiling tile, groove for concealed grid, directional medium fissures, 1/16" holes, Brown mastic	1974 era. Hallway 6, at Speaker box. Photo B265 & 266	None Detected, both layers
WMC920-A122	Black tarry lining of red speaker box.	1974 era. Hallway 6, at Speaker box. Photo B266 & R 2296	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

A previous limited survey for asbestos-containing materials was conducted in the Wrangell Medical Center in 2018, and this assessment by EHS-Alaska supplemented that previous survey. Many of the samples taken in the 2018 survey were not able to be located, because of the poor quality of the sample location drawings. The following materials have been found to contain asbestos in this or previous surveys, or were assumed to contain asbestos.

1. Built-Up Roofing materials of the original 1967 building (confirmed asbestos)
2. Built-Up Roofing materials of the original 1974 building (confirmed asbestos)
3. Remnants of the temporary roofing materials over the modular buildings of the 1988 addition (confirmed asbestos).
4. Loose container of ATCO roof patching tar found in attic (confirmed asbestos).
5. Patching tars of 1988 metal roofing and 1992 metal roofing (assumed asbestos).
6. Gray sealants at the ductwork of the original 1967 building (confirmed asbestos).
7. Gray, sticky putty-like sealants at joints between sections of AHU's in 1967 building.
8. Red sealant at ductwork. Found in attic above 1967 building, and in 1974 era (confirmed asbestos).

9. Pale green caulking of windows of original 1967 construction (confirmed asbestos).
10. Sealant around stored window frame (appears to be similar to 1974 era windows, confirmed asbestos).
11. Glazing compound of stored windows (appears to be similar to 1974 era windows, confirmed asbestos).
12. Black rubber glazing (likely original from manufacturer) in aluminum windows of 1988 era (confirmed asbestos).
13. Joint compound in gypsum wallboard systems on the ceilings and walls of the original 1967 and 1974 long-term care addition (confirmed asbestos).
14. Black sink undercoatings (confirmed asbestos).
15. Cement asbestos pipe at exterior near 1974 long-term care addition (confirmed asbestos).
16. Cement asbestos pipe abandoned in crawl space under original 1967 building (confirmed asbestos).
17. Cement asbestos waste pipe in crawl space under original 1967 building (confirmed asbestos).
18. Cement asbestos board (CAB) soffits shown on as-built drawings of the 1967 original construction. Not found, but possibly present in multiple layers of concealed and abandoned roof areas (assumed asbestos and assumed to still be present).
19. Cement asbestos board (CAB) siding shown on as-built drawings of the 1967 building and the 1974 long-term care addition but is currently covered by EIFS siding (assumed asbestos and assumed to still be present).
20. Hard and chalky insulation at pipe valves and fittings of original 1967 (confirmed asbestos) and 1974 long-term care addition (assumed asbestos).
21. Debris from the hard and chalky insulation mixed into the soil of the original 1967 crawl space (confirmed asbestos).
22. Boiler gaskets and sealants in original 1967 era Boiler Room (assumed asbestos).
23. Flange gaskets on piping of all eras (assumed asbestos).
24. "Van-Packer" Boiler Stack in original 1967 era Boiler Room (confirmed asbestos).
25. Tarry sound absorption lining of abandoned exhaust fan in attic space (confirmed asbestos).
26. Carpeting mastics (found to be contaminated from original black mastic from vinyl tile, 1967 era and 1974 era).
27. Black rubber stair stringer coving of 1974 era (confirmed asbestos)
28. Various colors of 12" x 12" Floor tiles in 1967 era (some tiles confirmed asbestos, non-asbestos tiles contaminated by black mastic).
29. Mastic to "Marlite" paneling of 1974 restroom (trace of chrysotile found, possible contamination from joint compound of gypsum wall board)
30. Hard and chalky insulation in original wooden fire doors of 1974 era (confirmed asbestos).
31. Insulation board lining of attic access hatches in original 1967 era (assumed asbestos).

The effects of the above asbestos-containing materials on the proposed renovation are discussed below.

Built-Up Roofing of 1967 and 1974 Buildings

The original, near flat roof of the 1967 and 1974 buildings remain underneath the slanted metal roofing installed in 1988. Those roofs have been partially removed in places for new construction or new penetrations, but the existing built-up roofing has been found to contain asbestos, and is non-friable except where cut and damaged. The original vapor barriers at the bottom of the roof assembly are assumed to also contain asbestos. Roofing disturbance or removal is Class II asbestos work, but may be left in place during demolition if the entire roof structure is disposed of as asbestos waste.

Remnants of Roofing Material in 1988 Modular Building

Much of the 1988 portion of the building was of modular construction. Those modules were temporarily covered with a waterproof membrane that was subsequently removed. The original membrane and patching tars were left in place, mostly around duct penetrations and at the joints between modules, and the patching tars were found to contain asbestos. These materials are not friable. Roofing disturbance or removal is Class II asbestos work, but may be left in place during demolition if the entire roof structure is disposed of as asbestos waste, but these materials are likely to be able to be removed separately from the plywood module roof structure.

Patching Tars of 1988 Pitched Metal Roofing and 1992 metal roofing

The entire building (except the 1992 addition) was covered with a pitched metal roof installed in 1988. The roofing was inspected only at the perimeter, due to the lack of fall protection available. The metal roof over the 1992 addition was similar, but not accessible. It is assumed that there are some patching tars that have been used on the roofs, and those patching tars are assumed to contain asbestos. These materials are not friable. Roofing disturbance or removal is Class II asbestos work, but may be left in place during demolition if the entire roof structure is disposed of as asbestos waste, but the patching tars are likely to be able to be removed separately from the metal roofing.

Gray Duct Sealants

Gray Sealants at the joints of the site-built fan plenums, as well as on some larger ducts in the 1967 portion of the building was found to contain asbestos. A similar, but still soft and sticky, gray putty-like sealant was found at the joints between the fan unit sections in the 1967 attic fan room. The sealants were in good condition and were not friable. Any disturbance or removal is Class II asbestos work, but the sealants may be left in place during demolition if the ductwork is disposed of as asbestos waste.

Red Duct Sealants

Red Sealants at the ducts of the 1974 portion of the building was found to contain asbestos. Several loose sections of ductwork with a similar red sealant was found stored in the "attic" above the 1967 portion of the building. The sealant was in good condition and was not friable. Any disturbance or removal is Class II asbestos work, but the sealants may be left in place during demolition if the demolition if the materials they are attached to are disposed of as asbestos waste.

Door, Window and Penetration Sealants and Window Glazing Compounds

The "pale green caulking" at the interior of the windows of the 1967 construction was found by the previous EMI inspection to contain asbestos. It is not clear if that was a glazing compound holding the glass into the frame, or a sealant around the window frame. Both the glazing compounds and the frame sealants were found to contain asbestos in samples taken from loose, stored windows found in the attic space over the 1988 portion of the building. Those loose windows were similar to the windows of the 1974 era, and are assumed to have been removed from that area. The rubber molding between the aluminum window frame and the glass of the 1988 era windows were found to contain asbestos, although the sealants between the window frames and the EIFS siding did not contain asbestos. It is assumed that older sealants at penetrations through the outer walls had an asbestos-containing sealant, including around door and window frames, as well as other penetrations, which, in the 1967 and 1974 eras of construction are covered over by the EIFS of the 1988 construction. Window glazing compounds are assumed to contain asbestos. The sealants are assumed to be not friable and in good condition. Any disturbance or removal is Class II asbestos work, but the sealants and glazing may be left in place during demolition if the materials they are attached to are disposed of as asbestos waste.

Gypsum Board Joint Compound

Gypsum board joint compound in the original walls and ceilings of the 1967 and 1974 portions of the building was asbestos-containing. No asbestos has been detected in the gypsum board. Joint compound was in good condition and is not considered friable unless damaged. There have been fairly extensive renovations in the 1967 portion of the building, with fewer renovations in the 1974 portion, and those newer renovations had gypsum board without asbestos-containing joint compound. Those newer renovations are presumed to have covered over older gypsum board materials with asbestos-containing joint compound where newer finishes were installed at original wall or ceiling locations. Any disturbance or removal is Class II asbestos work, but the joint compound and gypsum board may be left in place during demolition if the gypsum board wastes are disposed of as asbestos waste.

Sink Undercoating

Stainless steel sinks mostly in the 1967 and 1974 portions of the building, but possibly in other areas were coated on the underside with a black spray-applied material containing asbestos. Other white and green sink undercoatings were noted, sampled and found to not contain asbestos. This material was in good condition and is not considered friable. Any disturbance is Class II asbestos work, but the sinks may be

left in place during demolition if the waste stream they are included within, are disposed of as asbestos waste.

Cement Asbestos Piping

Cement asbestos piping, also known as "Transite" piping was commonly used in sewer, roof drain, and low pressure water piping. There was cement asbestos waste piping found in the crawl space under the 1967 portion of the building that was still in use. There was abandoned cement asbestos piping also found within that same crawl space, as well as a possibly abandoned cement asbestos vent or clean-out pipe noted near the east side of the 1974 building. The cement asbestos piping was typically in good condition and was not friable, but is likely to become friable during demolition or removal. Any disturbance or removal is Class II asbestos work, and would be recommended to be removed prior to demolition, with proper care taken during excavation.

Cement Asbestos Board Soffit

The soffit beneath the overhang of the original 1967 roof was called out to be covered with cement asbestos board. That CAB soffit paneling was not found, but is possibly present in the multiple layers of concealed and abandoned roof areas. Any disturbance or removal is Class II asbestos work, and would be recommended to be removed prior to demolition, with proper care taken when doing pre-demolition exploration for concealed materials.

Cement Asbestos Siding

Portions of the siding of the original 1967 and the 1974 eras of the building were called out on original as-built drawings as cement asbestos board. That CAB siding was not found, but is assumed to be present underneath the EIFS siding which was installed in 1988. Any disturbance or removal is Class II asbestos work, and would be recommended to be removed prior to demolition, with proper care taken when doing pre-demolition exploration for concealed materials.

Pipe Fitting Insulation

Piping concealed above the ceilings, in walls, in the attic, and in mechanical spaces of the 1967 and 1974 eras is insulated at fittings with asbestos-containing insulation. The insulation is generally in good condition but is considered friable. It is recommended that pre-demolition exploration for concealed asbestos-containing insulation be conducted, including multiple "attics" and concealed spaces in the 1967 and 1974 eras. If any concealed piping is found to have hard and chalky or other insulation suspected of containing asbestos, those materials shall be sampled or assumed to contain asbestos prior to disturbance. Any disturbance or removal of pipe insulation is Class I asbestos work, and the asbestos-containing pipe insulation is required to be removed prior to demolition.

Contaminated Soil of 1967 Crawl Space

The domestic water and heating piping in the crawl space of the 1967 era had significant damage to the asbestos-containing insulation. The dirt floor of the crawl space had debris from that pipe insulation mixed into the soil, and the raised dusts pose a significant hazard to personnel crawling through the crawl space to perform maintenance. The corrective action in the crawl space could change depending on whether renovation or demolition of the building is proposed, but it is likely that a minimum of two to four inches of the soil would need to be removed to abate the contaminated soils. Removal of the soil is considered Class I asbestos work.

Boiler Gaskets and Sealants

The boilers appeared to have been replaced in 1999. Due to their age, gaskets and sealants on the boilers are assumed to be asbestos-containing. These materials are difficult to sample without disassembly of equipment and no sampling was performed. These materials were in good condition but may become friable during removal for replacement. The gaskets and sealants could be removed and disposed of intact with the rest of the boilers as Class IV asbestos work.

Flange Gaskets and Valve Packing

Due to their age, gaskets and valve packing on mechanical equipment throughout the building, but mostly in mechanical and fan rooms are assumed to be asbestos-containing. These materials are difficult to

sample without disassembly of equipment and no sampling was performed. These materials were in good condition but may become friable during removal for replacement. The gaskets and packings could be removed and disposed of intact with the rest of the piping as Class IV asbestos work.

Boiler Stack Insulation

What appeared to be the original 1967 "Van-Packer" boiler stack was insulated with asbestos-containing insulation. The hard and chalky insulation was covered with a metal jacket, but would become friable if removed or demolished. Removal or demolition of the boiler stack is Class I asbestos work and would be required to be removed prior to demolition of the building.

Exhaust Fan Coatings

Sound dampening coatings on an older, abandoned roof mounted exhaust fan in the attic space contained asbestos. The exhaust fan can be removed as Class IV asbestos work, if it is removed intact. This material was in good condition and was not friable and may be left in place during demolition if the intact fan is disposed of as asbestos waste.

Floor Tiles and Black Mastic, Including Contamination of Newer Flooring

The original as-builts of the 1967 and 1974 eras called for vinyl asbestos floor tiles, or "conductive vinyl tile". Only some of those tiles were still present, and where tested, both the floor tiles and black mastic did contain asbestos. The 1988 renovation appeared to have covered over much of the original flooring on the main floor of the 1967 and 1974 eras. This investigation found the asbestos-containing black flooring mastic underneath both a particle board subflooring, as well as an ~1/2" thick cementitious leveling compound in the 1967 era, as well as a black mastic contamination of carpeting or replacement floor tiles where the original flooring was removed, but the asbestos-containing mastic was left behind during a previous renovation. The newer welded seam sheet vinyl flooring that was located in most areas of the 1967 era and those subfloors covered over the original asbestos black mastic, which are assumed to be present throughout the original 1967 era, except in a few rooms that were called out in the original as-builts to have bare floors, such as the boiler room, generator room, janitor closet and storage rooms. The tile and mastic was typically not friable, and any disturbance or removal would be Class II asbestos work. This material was in good condition and was not friable and may be left in place during demolition if the entire flooring system is disposed of as asbestos waste.

Rubber Stair Stringer of 1974 era

The black rubber stringer of the stairs in the 1974 era contained asbestos, the mastic did not contain asbestos. The rubber stringers were in good condition and were not friable disturbance or removal would be Class II asbestos work. The stringer may be left in place during demolition if the stairs and attached components are disposed of as asbestos waste.

Marlite Mastics

One sample of a mastic used to secure "Marlite" paneling to a bathroom wall in a restroom in the 1974 era contained asbestos. That asbestos could have been in the mastic itself, or could have been a contamination from the asbestos-containing joint compound of that era. Because the "Marlite" mastic is attached to the joint compound, it typically would be removed as Class II asbestos work. Mastics were in good condition and were not friable and the mastics may be left in place during demolition if the gypsum board / Marlite wastes are disposed of as asbestos waste.

Door Insulation

Interior wood doors in the 1974 era were insulated with asbestos. Insulated wood doors were typically located in hallways at entrances to storage rooms or at fire rated walls. Door insulation is considered non friable if completely sealed within the door skin. Damaged doors are considered friable. The doors can be removed as Class IV asbestos work, if the doors remain intact. The doors would be required to be removed prior to demolition.

Access Hatch Insulation Board Lining

A metal ceiling hatch in the 1967 era for the Fan Room access was assumed to be insulated with asbestos. Insulated metal hatch was typically small and provided access to mechanical spaces. Hatch insulation is

considered non friable if completely sealed within the metal skin. Damaged doors are considered friable. The doors can be removed as Class IV asbestos work, if the doors remain intact. The doors would be required to be removed prior to demolition.

2. Asbestos in Dusts

The settled and concealed dusts were examined by an EPA Certified Building Inspector but no samples for asbestos in dusts were authorized for this project. Based on their visual inspection and experience from similar buildings, the inspector determined that the typical settled and concealed dusts are not “asbestos debris” from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM).

3. Lead-Containing Materials

Lead-Testing

EHS-Alaska tested paint and other materials throughout the accessible areas of the building using a Heuresis XRF lead paint analyzer. Lead in paints tested varied from a trace amount to 0.36 mg/cm². Lead in other materials tested varied from a trace amount to 21.34 mg/cm². Refer to the Lead Analyzer Test Results Table in Appendix B that identifies the surfaces tested, and the results. The Lead Test Locations are shown in the Drawings in Appendix C.

Paints

There were varying lead contents found in the paints, based on what surfaces they are on, with most surfaces containing little lead (but are still classified as lead-containing materials by OSHA). The highest levels of lead were found on doors, walls, structural members and miscellaneous steel, with lower levels on walls and other painted surfaces, and lowest levels on pre-finished materials.

Lead based paints (paint containing more than 1.0 mg/cm² of lead) were not identified. It is anticipated that other items, including older structural steels which are hidden, concealed, or otherwise not tested may be painted with lead-based paint. Lead was detected at very low levels in most of the painted floor, wall and ceiling surfaces. XRF testing is not able to “prove” that “no” lead exists in the paint. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead. However, these paints may not present a hazard to occupants or workers performing renovation or demolition if lead-safe work practices are followed.

Ceramic Wall Tile and Glazing

Relatively high concentrations of lead were found in the glazing of ceramic plumbing fixtures. The glazing of bathroom sinks, toilets, etc. contained high lead levels. The concentrations of lead in ceramic glazing compounds should not be compared to lead-based paint criteria, as the glazing is inherently less likely to cause lead to be present in dusts or on surfaces, where it can be ingested. Lead in ceramic tile glazing may not pose a hazard to occupants, or workers performing renovation or demolition if lead-safe work practices are followed. All ceramic tiles and fixtures in the facility should be assumed to contain lead.

Plastic Components

Relatively high concentrations of lead were found in plastic components, such as “Formica” plastic laminate panels. The concentrations of lead in plastic compounds should not be compared to lead-based paint criteria. Lead in plastic compounds may have surface deterioration and if not cleaned regularly, lead may be present in dusts or on surfaces, where it can be ingested. Lead in plastic compounds may not pose a hazard to occupants, or workers performing renovation or demolition if good work practices are followed.

Metallic Lead in X-Ray Shielding, Batteries, Pipe Solder and Flashing

Metallic lead items identified in the building included sheet lead x-ray shielding around x-ray rooms, including at doors, and high-lead content window glass, lead soldering at the sheet metal roof flashings, lead solder at copper piping, and poured lead sealants at bell and spigot joints of waste and vent piping and lead acid batteries in emergency lights and other battery backup equipment. If removed during renovation or demolition they should be recycled or disposed of as hazardous waste.

Settled and Concealed Dust

The settled and concealed dusts were examined but no samples for lead in dusts were authorized for this project. Based on their visual inspection and similar sampling from similar buildings, the inspector also determined that the dusts are likely to have measurable concentrations of lead in the dusts.

4. PCB-Containing Materials**Light Ballasts**

Older fluorescent lights typically have PCB-containing ballasts. PCB-containing ballasts in fluorescent lights were banned in 1978, but manufacturers were allowed to use up existing stocks, and lights may have been reused from other facilities. The survey included examination of what were considered to be representative light fixtures, but not all fixtures were able to be accessed. All lights shall be inspected during removal or relocation. Unless ballasts were marked "No PCBs," they must be assumed to contain PCBs and must be disposed of as a hazardous waste when removed for disposal. Fluorescent light fixtures with PCB-containing ballasts are assumed to be present in the building in the older portions. If removed during renovation or demolition, the fluorescent light fixtures will need to be inspected for PCB-containing ballasts or contamination, and disposed of accordingly.

Older HID lights may have PCB-containing ballasts. Due to height restrictions and sealed ballast enclosures, the HID fixtures were not able to be accessed. All HID lights shall be inspected during removal or relocation. If ballasts are not marked "No PCBs," we suggest contacting the manufacturer of the lights to determine if the ballasts contain PCB's, or assume that they contain PCB's and be disposed of as a hazardous waste. If removed during renovation or demolition, the HID Lights will need to be inspected for PCB-containing ballasts or contamination, and disposed of accordingly.

Bulk Products

Some older paints, sealants and other building materials may contain measurable amounts of PCB's. PCB use in paints and sealants was supposed to have been discontinued in 1979. The EPA does not require the sampling of bulk products, and no sampling of "Bulk Products" were authorized for this project.

5. Mercury-Containing Materials**Fluorescent Lamps**

Fluorescent lamps use mercury to excite the phosphor crystals that coat the inside of the lamp. These lamps contain from 15 to 48 milligrams of mercury depending on their age and manufacturer. If removed during renovation or demolition, the mercury-containing compact or linear tube lamps should be disposed of as Universal Wastes.

Thermostats

Older thermostats or other electrical switches that may contain mercury were noted in the building.

High Intensity Discharge Lamps

High Intensity Discharge (HID) lamps use mercury and sodium vapors in the lamp, and also typically have lead-containing solders at the bases. These lamps contain varying amounts of mercury depending on their age and manufacturer. If removed during renovation or demolition, the mercury-containing HID lamps should be disposed of as Universal Wastes..

All mercury-containing items being removed by this project are required to be disposed of as hazardous waste or recycled.

6. Other Hazardous Materials

Self-Illuminating Exit Signs and Smoke Detectors

Several radioactive, self-illuminating exit signs and smoke detectors were found in the building. If any radioactive items are removed, they are required be disposed of as hazardous waste or recycled.

Hydraulic Lifts

There was one hydraulic elevator in the 1974 portion. The hydraulic fluids shall be removed and properly disposed of prior to disposal of the metallic portions, or the entire unit may be reused or recycled by the contractor.

Household Chemicals

Common household chemicals, including quantities of construction repair materials, acids, paint products, paint thinners, caustics, cleaners, pesticides, herbicides, disinfectants, poisons, printing and photographic chemicals, , or s (antifreeze), floor or furniture wax, furniture or paint strippers, solvents, fuel, new or used lubrication products, wood preservatives, old medications, resins, adhesives were present in the building. It cannot be determined what will be the fate of those materials at this time.

Soil Contamination

The scope of work for EHS-Alaska, Inc. did not include investigation of soils for petroleum or other contaminations. The dirt soil of the crawl space under the original portion of the building was noted to be contaminated by asbestos debris from the asbestos-containing pipe insulation.

Refrigerants

Refrigerators, freezers, ice machines, and water coolers were identified in the building that may contain ozone depleting refrigerants. Air conditioning units may also be present. Ozone depleting substances (ODS) are regulated by the EPA and must be removed by certified technicians prior to equipment disposal.

Heat Transfer Fluids

The existing heating and cooling system is assumed to contain heat transfer fluids, including glycol or other boiler treatment chemicals. Any heat transfer fluids removed from the heating system shall be recovered and properly disposed of or recycled.

E. REGULATORY CONSTRAINTS

1. Asbestos-Containing Materials

The Federal Occupational Safety and Health Administration (29 CFR 1926.1101) and the State of Alaska Department of Labor (8 AAC 61) have promulgated regulations requiring testing for airborne asbestos fibers; setting allowable exposure limits for workers potentially exposed to airborne asbestos fibers; establishing contamination controls, work practices, and medical surveillance; and setting worker certification and protection requirements. These regulations apply to all workplace activities involving asbestos-containing materials.

The EPA regulations, issued as Title 40 of the Code of Federal Regulations, Part 61 (40 CFR 61), Subpart M under the National Emission Standards for Hazardous Air Pollutants (NESHAP), established procedures for handling ACM during asbestos removal and waste disposal. It is recommended that clearance sampling which complies with the EPA's Asbestos Hazard Emergency Response Act (AHERA) protocol be required following removal of asbestos-containing materials to document that the asbestos has been properly removed.

The EPA regulations require an owner (or the owner's contractor) to notify the EPA of asbestos removal operations and to establish responsibility for the removal, transportation, and disposal of asbestos-containing materials.

The disposal of asbestos waste is regulated by the EPA, the Alaska Department of Environmental Conservation, and the disposal site operator. Wastes being transported to the disposal site must be sealed in leak tight containers prior to disposal and must be accompanied by disposal permits and waste manifests.

2. Dusts with Asbestos

Settled and concealed dusts above ceilings, and at other areas that are not routinely cleaned (such as inside ducts and at roofs, etc.) are assumed to have measurable concentrations of asbestos. Based on sampling of similar settled and concealed dusts at similar buildings, those dusts are assumed to contain less than 1 percent asbestos. Normal settled and concealed dusts are distinct and treated differently from debris resulting from damaged asbestos-containing materials.

Background levels of asbestos in dusts for a particular location will depend on many factors, including whether or not asbestos occurs naturally in soils in the area.

Likely sources of asbestos in dusts include natural occurrences of asbestos

The types of asbestos found in settled and concealed dusts often contain actinolite, anthophyllite and tremolite forms of asbestos which are not commonly found in bulk samples taken of materials from buildings. Those forms of asbestos may come from natural occurrences of asbestos in an outside source, such as rock or ore deposits, which appear to be common in Alaska.

Because the type of disturbance, concentration of asbestos in the dusts, cohesiveness of the dusts and room sizes will change, the airborne asbestos levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of asbestos in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard". All dusts will likely be required to be removed from the areas where asbestos-containing materials are being removed (abatement areas) in order to achieve clearances. The dusts in the other areas are to be controlled so as to limit worker exposures and prevent contamination of occupied areas of the building.

There is no established correlation between settled or adhered dusts with measurable concentrations of asbestos and airborne concentrations. The definition in the OSHA regulations of asbestos-containing materials as those materials that contain 1 percent or more asbestos by weight, apply to cohesive materials and not to dusts. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

3. Lead-Containing Materials

The EPA Standard 40 CFR 745, Lead-Based Paint Poisoning Prevention in Certain Residential Structures, defines lead-based paint hazards and regulates lead based paint activities in target housing and child-occupied facilities. The requirements of this regulation include training certification, pre-work notifications, work practice standards and record keeping. Areas typically classified as child occupied facilities may include but are not limited to: day care facilities, preschools, kindergarten classrooms, restrooms, multipurpose rooms, cafeterias, gyms, libraries and other areas routinely used by children under 6 years of age. Training requirements for Firms (Contractors) and Renovators (Workers) became effective on April 22, 2010. The building is not classified as a child occupied facility, therefore the requirements of 40 CFR 745 do not apply.

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead. The disturbance of any surfaces painted with lead-containing paint requires lead-trained personnel, personnel protective procedures, and air monitoring until exposure levels can be determined. If initial monitoring verifies that the work practices being used are not exposing workers, monitoring and protection procedures may be relaxed. Experience has shown that some paints in most buildings will contain low concentrations of lead and disturbance of those paints are still regulated under the OSHA lead standard, 29 CFR 1926.62. Low

levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead, and OSHA regulations apply anytime measurable amounts of lead are present in paints.

Settled and concealed dust above ceilings, and at other areas that are not routinely cleaned are assumed to have measurable concentrations of lead. Background levels of lead in dusts for a particular location will depend on many factors, including whether or not engines utilizing leaded gasoline were run in or near a building, and upon the age of the building, and thus the age of the dusts. Because the type of disturbance, quantity of lead dusts, cohesiveness of the dusts and room sizes will change, the airborne lead levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of lead in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard".

There is no established correlation between settled or adhered lead dust concentrations and airborne concentrations. The OSHA regulations are essentially "performance based", if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

The EPA requires that actual construction or demolition debris that contains lead or lead-containing paint or other heavy metals be tested using the TCLP test to determine if the waste must be treated as hazardous waste. All federal, state and local standards regulating lead and lead-containing wastes are required to be followed during the renovation or demolition of portions of this building.

If the TCLP tests done on the waste stream(s) that are produced by the contractor are found to be classified as hazardous wastes, then those waste stream(s) will have to be packaged for shipping and disposal in accordance with hazardous waste and transportation regulations. Because there are no hazardous waste landfills in Alaska, this report assumes that disposal will take place in Seattle or elsewhere in the Pacific Northwest.

4. PCB-Containing Materials

The EPA has promulgated regulations (40 CFR Part 761) that cover the proper handling and disposal of PCB-containing materials. PCB-containing equipment was found by this survey, and any removed PCB-containing equipment is required to be disposed of at fully permitted hazardous waste facilities. The EPA regulates liquid PCBs differently from non-liquid materials. Workers who remove or handle PCB-containing or PCB-contaminated materials or who transport or dispose of PCB wastes must be trained and certified in hazardous waste operations and emergency response (HAZWOPER) as required by 29 CFR 1910.120 and the State of Alaska Department of Labor (8 AAC 61). The Department of Transportation under 49 CFR Parts 100-199 regulates the marking, packaging, handling and transportation of hazardous materials. All federal, state and local standards regulating PCBs and PCB waste must be followed during this project.

5. Mercury-Containing Materials

Thermostats and mercury-containing lamps are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273. Mercury and mercury-containing products are considered hazardous waste if TCLP testing of the waste for mercury confirms the mercury content to be greater than the EPA criteria of 0.2 mg/l.

6. Other Hazardous Materials

Refrigerants

Refrigerators, freezers, ice machines, and water coolers were present in the building. Air conditioning systems were also present. Typically, refrigeration and air conditioning systems with ODS shall be maintained in order to prevent discharge of ODS. Systems that are to be removed, or dismantled shall have refrigerants containing ODS recovered and disposed of or recycled in accordance with 40 CFR 82.

Chemical Hazards

The EPA has promulgated regulations (40 CFR Parts 260 to 299 amongst others) that cover the proper handling and disposal of waste chemicals, including listed wastes, which are ignitable, corrosive, reactive, toxic, or an acute hazardous waste or wastes that exhibit the characteristics of toxicity. All construction workers who are required to remove or handle chemical hazards or to transport or dispose of chemical wastes shall be trained and certified as required by the U.S. Department of Labor (29 CFR 1910.120) and the State of Alaska Department of Labor (8 AAC 61). Transportation of chemical hazards are regulated by Department of Transportation regulations under 49 CFR Parts 171 to 178 amongst others.

Waste heat transfer fluids (such as used heating/cooling system glycol or other circulating heating/cooling fluids) are a potentially hazardous waste and are required to be TCLP tested prior to disposal to determine if the fluids are classified as hazardous or non-hazardous waste per the EPA's RCRA regulations governing hazardous wastes. According to a study performed by the University of Northern Iowa, standard TCLP analysis using ICP SW 6010 testing procedures commonly report levels of Arsenic and Selenium over regulatory thresholds due to interferences in the matrix. That report concluded that additional analysis should be performed to refute the presence of Arsenic or Selenium over the regulatory levels by either mass spectrometry using method SW 6020, or by graphite furnace using method SW 7060. Some heat transfer fluids may also contain potentially hazardous additives that modify the properties of the fluids for use in a particular system. It is recommended that the contractor consult with the persons responsible for maintaining the system to determine if any additives that may be potentially hazardous were used in the system to further determine disposal requirements.

Radioactive Materials

Self-luminous products that contain Tritium, Krypton-85, or Promethium-147 are considered radioactive. There are special disposal requirements for products that contain Tritium, Krypton-85, or Promethium-147 that are generally licensed. Data from the Nuclear Regulatory Commission (NRC) indicates that most all Tritium powered exit signs are generally licensed and therefore must be disposed of at a licensed disposal facility or returned to the manufacturer/distributor for disposal. Licensed radioactive products are regulated by Nuclear Regulatory Commission standard 10 CFR 20 and 10 CFR 32. Smoke detectors were present in the project area that may contain a radioactive material. If the detectors are of the ionization type they typically contain a small amount of Americium. If removed during renovation, the detectors should be returned to the owner for reuse or returned to the manufacturer for disposal or recycling. There are no licensed disposal facilities for radioactive wastes in Alaska.

F. RECOMMENDATIONS

Disposal of hazardous materials is often difficult and expensive in Rural Alaska. It is possible to obtain a one-time permit to dispose of non-friable, non-RACM asbestos materials from the Alaska Department of Environmental Conservation, however that process is neither fast nor inexpensive, and is highly dependent on getting permission for an asbestos monofill from a landowner, and may not be financially feasible at many locations. Because Wrangell receives barge services, it is likely to be less expensive to barge out asbestos materials. Lead-containing materials, if they are not also asbestos-containing materials are often possible to dispose of locally, but in general, painted materials, with lead at measurable concentrations, are not allowed to be burned. Lead-containing materials which have been classified as hazardous waste, and chemical hazards are required to be disposed of at permitted landfills, which will require air freight or barge for disposal.

1. Asbestos-Containing Materials

The asbestos-containing materials identified in the building are typically in intact condition and are classified as both friable and non-friable ACM. All asbestos-containing materials that will be disturbed by the planned renovation work are required to be removed by trained asbestos workers.

2. Dusts with Asbestos

Dusts with measurable concentrations of asbestos are assumed to be present, but are not classified as asbestos-containing materials, or as debris from asbestos-containing materials. Workers disturbing dusts

are required to have hazard communication training in accordance with OSHA regulations, but are not required to receive 40 hours of training, which is required for asbestos workers. The contractor will need to choose means and methods to control worker exposures to airborne contaminants. At least an initial exposure assessment or data from previous air monitoring is needed to show that worker exposures are maintained below the OSHA permissible exposure limits (PELs).

3. Lead-Containing Materials

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead, including disturbance of paints with low concentrations of lead.

Worker exposure to lead may be able to be controlled below the OSHA permissible exposure limit if proper engineering controls and procedures are used during renovation. Lead is a potentially hazardous waste and the EPA requires that all wastes that contains lead be tested to determine if they must be treated as hazardous waste. A TCLP test of the waste stream(s) produced by the Contractor's means and methods are required to be performed to determine if those wastes will be classified as hazardous or non-hazardous.

4. PCB-Containing Materials

PCB-containing ballasts scheduled for removal or replacement will need to be removed, handled, packaged and disposed of in accordance with all regulations. If any PCB-containing ballasts are discovered, and they are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

5. Mercury-Containing Materials

If any mercury-containing materials are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations. If mercury-containing lamps and thermostats are handled and disposed of in accordance with the Universal Waste Regulations, no TCLP test is required. If the Contractor chooses to perform a TCLP test of fluorescent lamps, the test shall be conducted in accordance with the requirements of ANSI/NEMA Standard Procedure for Fluorescent Lamp Sample Preparation and Toxicity Characteristic Leaching Procedure, C78.LL 1256-2003 or latest version.

6. Other Hazardous Materials

If any radioactive materials are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any ODS are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any hydraulic fluids are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

If any heat transfer fluids are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations.

G. LIMITATIONS

The conclusions and recommendations contained in this report are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted environmental consulting and engineering standards and practices and are subject to the following inherent limitations:

1. Accuracy of Information

The laboratory reports utilized in this assessment were provided by the accredited laboratories cited in this report. Although the conclusions, opinions, and recommendations are based in part, on such information, our services did not include the verification of accuracy or authenticity of such reports. Should such information provided be found to be inaccurate or unreliable, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

2. Site Conditions

This limited survey did not include investigation of the entire site and may not be valid outside the survey area. The intent of this survey was to identify common hazardous materials that may be disturbed during routine maintenance or renovations. This survey is not intended to be utilized as the sole design document for abatement. This survey was conducted while the site was occupied. All inspections were performed with furniture, equipment and/or stored items in place. The scope of work for this survey did not include identification of all potentially hazardous materials that may be present at this site, and was limited to the scope of work agreed upon with our client. Although a concerted effort was made to identify those common hazardous materials likely to be affected by this project, some hazardous materials may have been hidden by furniture, equipment or stored items and may not have been identified. The survey investigated representative materials and items, such as lights and mechanical components. Variations may occur between materials and items that appear to be the same, but are actually of different construction or materials. Other asbestos-containing or potentially hazardous materials may be present in the facilities that were concealed by structural members, walls, ceilings or floor coverings, or in materials where testing was not conducted.

3. Changing Regulatory Constraints

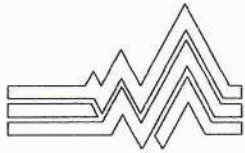
The regulations concerning hazardous materials are constantly changing, including the interpretations of the regulations by the local and national regulating agencies. Should the regulations or their interpretation be changed from our current understanding, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

APPENDIX A

Asbestos Bulk Sample Field Survey Data Sheets and Laboratory Reports

RECEIVED

OCT 08 2020



EHS-ALASKA, INC.

EHS ALASKA
INCORPORATED

EHS-Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577

(907) 694-1383 • (907) 694-1382 fax

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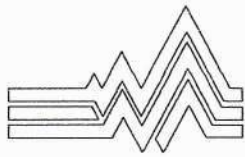
PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-14-2020
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CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED:	<input type="checkbox"/> PLM BULK <input type="checkbox"/> LEAD DUST <input type="checkbox"/> TEM MICROVAC DUST (ASTM 5756)	<input type="checkbox"/> PLM DUST <input type="checkbox"/> LEAD TCLP	<input type="checkbox"/> TEM BULK <input type="checkbox"/> LEAD PPM	TYPE:	TURNAROUND:	DISPOSAL:	QUANTITY:
				<input type="checkbox"/> ASBESTOS <input type="checkbox"/> LEAD	2 DAYS	NORMAL	100 30
COLLECTED BY (signature) Robert A. French PRINTED NAME 1564 88IMP-0028 CERT# / AHERA# Fed Ex SHIPPING METHOD 7716 1864 9898 COURIER (signature) DATE/TIME		IATL SELECTED LABORATORY SAMPLES ACCEPTED BY DATE/TIME SEP 25 2020 ANALYST'S SIGNATURE DATE 9/25/20		SPECIAL INSTRUCTIONS / COMMENTS: LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations. 70 Asbestos			

FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WMS0920-A01 7067217	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. On white pipe above fan unit near Hatch. Photo B72	3.2% Chrysotile 2.2% Crocidolite 1% amosite
WMS0920-A02 7067218	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. On loose yellow painted insulation in plastic box near Hatch. Photo B73	3.4% Chrysotile 2.4% Crocidolite 1.2% amosite
WMS0920-A03 7067219	White, Chalky "Hard Fitting" insulation	Attic Fan room in 1967 Era. Broken elbow near fan-coil. Photo B74	3.0% Chrysotile 6% amosite
WMS0920-A04 7067220	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber downstream of the Heat Recovery Wheel. Photo R575	3.4% Chrysotile
WMS0920-A05 7067221	Joint compound at Ceiling	Attic Fan room in 1967 Era. Ceiling above Fan Unit Photo B75	1.6% Chrysotile
WMS0920-A06 7067222	GCT-1; 12x12 Ceiling tiles with dark brown mastic	Attic Fan room in 1967 Era. Loose, stored tiles "in case they are needed". Photo B76	None Detected both layers
WMS0920-A07 7067223	GCT-1; 12x12 Ceiling tiles with dark brown mastic	Attic Fan room in 1967 Era. Loose, stored tiles "in case they are needed". Photo B77	None Detected both layers
WMS0920-A08 7067224	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber downstream of the Heat Recovery Wheel. No photo	3.2% Chrysotile
WMS0920-A09 7067225	Gray sticky sealant at ductwork	Attic Fan room in 1967 Era. At shiny ducts of Kitchen Exhaust Fan. Photo B78	3.4% Chrysotile



EHS ALASKA
INCORPORATED

EHS Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577

(907) 694-1383 • (907) 694-1382 fax

e-mail • ehsak@ehs-alaska.com

PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-14-2020
-------------------------------	---	---	---------------------------------------

FIELD SURVEY DATA

% asbestos

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WMS0920-A10 7067226	Gray sticky sealant in HVAC Unit	Attic Fan room in 1967 Era. Filter bank chamber for Fan 10016. Photos R601, 602	<i>3.4% Chrysotile</i>
WMS0920-A11 7067227	Dark Brown mastic for TJI Wood joists Ignore wood layer!	Attic, Joists of the 1988 roof structure. Near peak of the roof above the 1967 era. Photo B88	<i>None Detected</i>
WMS0920-A12 7067228	Dark Brown mastic for TJI Wood joists Ignore wood layer!	Attic, Joists of the 1988 roof structure. Near peak of the roof above the 1967 era. Photo B89	<i>None Detected</i>
WMS0920-A13 7067229	Joint Compound	Attic. On exterior "wall" of the 1967 fan rom, but likely installed in 1988. Photo B90	<i>None Detected</i>
WMS0920-A14 7067230	Tar Paper under 1988 metal Roof	Attic, at hole for Boiler stack through the 1988 roof. Photo R 639	<i>None Detected</i>
WMS0920-A15 7067231	Brown hard insulation of "Van Packer" boiler stack	Attic. Appears to be original 1967 stack. Photo R 640 & 41	<i>40% Chrysotile</i>
WMS0920-A16 7067232	White fabric and Black Tar sealant	Attic above PT. Remnant of temporary roof over 1988 modular buildings. At Duct penetration. Photo B91	<i>3.4% Chrysotile</i>
WMS0920-A17 7067233	White fabric and Black Tar sealant	Attic above PT. Remnant of temporary roof over 1988 modular buildings. At Duct penetration. Photo R655 & 656	<i>None Detected</i>
WMS0920-A18 7067234	GCT 12x12 Ceiling tiles with dark brown mastic. "PyROTECT on back.	Attic above PT. Loose, stored tiles "in case they are needed". Photo B95	<i>None Detected both layers</i>
WMS0920-A19 7067235	GCT 12x12 Ceiling tiles with dark brown mastic. "PyROTECT on back.	Attic above PT. Loose, stored tiles "in case they are needed". Photo B97	<i>None Detected both layers</i>
WMS0920-A20 7067236	Black tarry coating inside old Pace Exhaust Fan	Attic above boiler room. Fan appears to be abandoned. Photo R633 & 638	<i>5.2% Chrysotile</i>
WMS0920-A21 7067237	Cream Window Frame Sealant, between frame and (missing) siding (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R670	<i>4.1% Chrysotile</i>
WMS0920-A22 7067238	Cream Window Frame Sealant, between frame and (missing) siding (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R670	<i>3.8% Chrysotile</i>
WMS0920-A23 7067239	Lighter yellow-white window glazing compound at edge of glass (21" x 5'-6")	Attic above PT. Loose stored windows. Likely to be from the 1974 Dayroom. Photo R671 & 2	<i>1.6% Chrysotile</i>

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067217
Client No.: WMS0920-A01

Analyst Observation: White Insulation
Client Description: White, Chalky "Hard Fitting" Insulation

Location: Attic Fan Room in 1967 Era. On White Pipe Above Fan Unit Near Hatch. - Photo B72

Percent Asbestos:
PC 3.2 Chrysotile
PC 2.2 Crocidolite
PC 1 Amosite

Percent Non-Asbestos Fibrous Material:
30 Fibrous Glass

Facility:
Percent Non-Fibrous Material:
63.6

Lab No.: 7067218
Client No.: WMS0920-A02

Analyst Observation: White Insulation
Client Description: White, Chalky "Hard Fitting" Insulation

Location: Attic Fan Room in 1967 Era. On Loose Yellow Painted Insulation in Plastic Box Near Hatch. - Photo B7

Percent Asbestos:
PC 3.4 Chrysotile
PC 2.4 Crocidolite
PC 1.2 Amosite

Percent Non-Asbestos Fibrous Material:
30 Fibrous Glass

Facility:
Percent Non-Fibrous Material:
63

Lab No.: 7067219
Client No.: WMS0920-A03

Analyst Observation: White/Yellow Insulation
Client Description: White, Chalky "Hard Fitting" Insulation

Location: Attic Fan Room in 1967 Era. Broken Elbow Near Fan-Coil. - Photo B74

Percent Asbestos:
30 Chrysotile
PC 6 Amosite

Percent Non-Asbestos Fibrous Material:
30 Fibrous Glass

Facility:
Percent Non-Fibrous Material:
34

Lab No.: 7067220
Client No.: WMS0920-A04

Analyst Observation: Grey/Black Caulk
Client Description: Grey Sticky Sealant In HVAC Unit


Location: Attic Fan Room in 1967 Era. Filter Bank Chamber Downstream of the Heat Recovery Wheel. - Photo R575

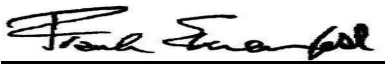
Percent Asbestos:
PC 3.4 Chrysotile

Percent Non-Asbestos Fibrous Material:
2 Talc

Facility:
Percent Non-Fibrous Material:
94.6

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067221 **Analyst Observation:** White Joint Compound
Client No.: WMS0920-A05 **Client Description:** Joint Compound at Ceiling
Location: Attic Fan Room in 1967 Era.
Ceiling Above Fan Unit. - Photo B75
Facility:
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:**
PC 1.6 Chrysotile None Detected **Percent Non-Fibrous Material:**
98.4


Lab No.: 7067222 **Analyst Observation:** Beige Ceiling Tile
Client No.: WMS0920-A06 **Client Description:** GCT-1; 12x12 Ceiling Tiles With Dark
Brown Mastic
Location: Attic Fan Room in 1967 Era.
Loose Stored Tiles "In Case They Are
Needed". - Photo B77
Facility:
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:**
None Detected 50 Fibrous Glass **Percent Non-Fibrous Material:**
30 Cellulose 20

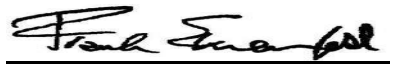
Lab No.: 7067222(L2) **Analyst Observation:** Brown Mastic
Client No.: WMS0920-A06 **Client Description:** GCT-1; 12x12 Ceiling Tiles With Dark
Brown Mastic
Location: Attic Fan Room in 1967 Era.
Loose Stored Tiles "In Case They Are
Needed". - Photo B77
Facility:
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:**
None Detected 2 Fibrous Glass **Percent Non-Fibrous Material:**
98

Lab No.: 7067223 **Analyst Observation:** Beige Ceiling Tile
Client No.: WMS0920-A07 **Client Description:** GCT-1; 12x12 Ceiling Tiles With Dark
Brown Mastic
Location: Attic Fan Room in 1967 Era.
Loose Stored Tiles "In Case They Are
Needed". - Photo B77
Facility:
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:**
None Detected 50 Fibrous Glass **Percent Non-Fibrous Material:**
30 Cellulose 20

Lab No.: 7067223(L2) **Analyst Observation:** Brown Mastic
Client No.: WMS0920-A07 **Client Description:** GCT-1; 12x12 Ceiling Tiles With Dark
Brown Mastic
Location: Attic Fan Room in 1967 Era.
Loose Stored Tiles "In Case They Are
Needed". - Photo B77
Facility:
Percent Asbestos: **Percent Non-Asbestos Fibrous Material:**
None Detected 2 Fibrous Glass **Percent Non-Fibrous Material:**
98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS


Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 9/25/2020 Report No.: 620075 - PLM Project: Wrangell Medical Center Project No.: 7795-03
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067224 Client No.: WMS0920-A08	Analyst Observation: Grey Sealant Client Description: Grey Sticky Sealant In HVAC Unit	Location: Attic Fan Room in 1967 Era. Filter Bank Chamber Downstream of the Heat Recovery Wheel. - No Photo Facility: Percent Non-Fibrous Material: 96.8
<u>Percent Asbestos:</u> PC 3.2 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067225 Client No.: WMS0920-A09	Analyst Observation: Grey Sealant Client Description: Grey Sticky Sealant at Duct Work	Location: Attic Fan Room in 1967 Era. At Shiny Ducts of Kitchen Exhaust Fan. - Photo B78 Facility: Percent Non-Fibrous Material: 96.6
<u>Percent Asbestos:</u> PC 3.4 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067226 Client No.: WMS0920-A10	Analyst Observation: Grey Sealant Client Description: Grey Sticky Sealant in HVAC Unit	Location: Attic Fan Room in 1967 Era. Filter Bank Chamber for Fam 10016. - Photo's R601, 602 Facility: Percent Non-Fibrous Material: 96.6
<u>Percent Asbestos:</u> PC 3.4 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067227 Client No.: WMS0920-A11	Analyst Observation: Dk Brown Mastic Client Description: Dark Brown Mastic for TJI Wood Joists (Ignore Wood Layer))	Location: Attic Joists of the 1988 Roof Structure. Near Peak of the Roof Above the 1967 Era. - Photo B88 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067228 Client No.: WMS0920-A12	Analyst Observation: Dk Brown Mastic Client Description: Dark Brown Mastic for TJI Wood Joists (Ignore Wood Layer))	Location: Attic Joists of the 1988 Roof Structure. Near Peak of the Roof Above the 1967 Era. - Photo B88 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

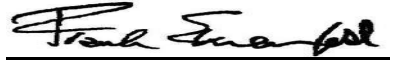
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 9/25/2020 Report No.: 620075 - PLM Project: Wrangell Medical Center Project No.: 7795-03
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067229 Client No.: WMS0920-A13	Analyst Observation: White Joint Compound Client Description: Joint Compound	Location: Attic. On Exterior "Wall" of the 1967 Fan Room, But Likely Installed in 1988. - Photo B90 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067230 Client No.: WMS0920-A14	Analyst Observation: Black Tar Paper Client Description: Tar Paper Under 1988 Metal Roof	Location: Attic, at Hole for Boiler Stack Through the 1988 Roof. - Photo R639 Facility: Percent Non-Fibrous Material: 70
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	
Lab No.: 7067231 Client No.: WMS0920-A15	Analyst Observation: Grey/Tan Insulation Client Description: Brown Hard Insulation of "Van Packer" Boiler Stack	Location: Attic, Appears to be Original 1967 Stack. - Photo 640 & 41 Facility: Percent Non-Fibrous Material: 60
<u>Percent Asbestos:</u> <i>40 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067232 Client No.: WMS0920-A16	Analyst Observation: Black/White Sealant Client Description: White Fabric and Black Tar Sealant	Location: Attic, Above PT. Remnant of Temporary Roof Over 1988 Modular Buildings. At Duct Penetration. - Photo Facility: Percent Non-Fibrous Material: 96.6
<u>Percent Asbestos:</u> <i>PC 3.4 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7067233 Client No.: WMS0920-A17	Analyst Observation: Black Sealant Client Description: White Fabric and Black Tar Sealant	Location: Attic, Above PT. Remnant of Temporary Roof Over 1988 Modular Buildings. At Duct Penetration. - Photo Facility: Percent Non-Fibrous Material: 98
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067234 **Analyst Observation:** White/Tan Ceiling Tile
Client No.: WMS0920-A18 **Client Description:** GCT 12x12 Ceiling Tiles With Dark Brown Mastic "PyROTECT" on Back **Location:** Attic, Above PT. Loose Stored Tiles "In Case They Are Needed". - Photo B95

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 80 Cellulose Percent Non-Fibrous Material:
20

Lab No.: 7067234(L2) **Analyst Observation:** Brown Mastic
Client No.: WMS0920-A18 **Client Description:** GCT 12x12 Ceiling Tiles With Dark Brown Mastic "PyROTECT" on Back **Location:** Attic, Above PT. Loose Stored Tiles "In Case They Are Needed". - Photo B95

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 5 Talc Percent Non-Fibrous Material:
95

Lab No.: 7067235 **Analyst Observation:** White/Tan Ceiling Tile
Client No.: WMS0920-A19 **Client Description:** GCT 12x12 Ceiling Tiles With Dark Brown Mastic "PyROTECT" on Back **Location:** Attic, Above PT. Loose Stored Tiles "In Case They Are Needed". - Photo B97

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 80 Cellulose Percent Non-Fibrous Material:
20


Lab No.: 7067235(L2) **Analyst Observation:** Brown Mastic
Client No.: WMS0920-A19 **Client Description:** GCT 12x12 Ceiling Tiles With Dark Brown Mastic "PyROTECT" on Back **Location:** Attic, Above PT. Loose Stored Tiles "In Case They Are Needed". - Photo B97

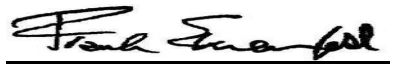
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
None Detected 5 Talc Percent Non-Fibrous Material:
95

Lab No.: 7067236 **Analyst Observation:** Black Tar
Client No.: WMS0920-A20 **Client Description:** Black Tarry Coating Inside Old Pace Exhaust Fan **Location:** Attic Above Boiler Room. Fan Appears to be Abandoned. - Photo R633 & 638

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Facility:
PC 5.2 Chrysotile None Detected Percent Non-Fibrous Material:
94.8

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067237 **Analyst Observation:** Off-White Sealant **Location:** Attic Above PT. Loose Stored
Client No.: WMS0920-A21 **Client Description:** Cream Window Frame Sealant, Between Windows. Likely to be From the 1974
Frame and (Missing) Siding (21" x 5' - 6") Dayroom. - Photo R670

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 4.1 Chrysotile None Detected 95.9

Lab No.: 7067238 **Analyst Observation:** Off-White Sealant **Location:** Attic Above PT. Loose Stored
Client No.: WMS0920-A22 **Client Description:** Cream Window Frame Sealant, Between Windows. Likely to be From the 1974
Frame and (Missing) Siding (21" x 5' - 6") Dayroom. - Photo R670

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 3.8 Chrysotile None Detected 96.2

Lab No.: 7067239 **Analyst Observation:** Off-White Glazing **Location:** Attic Above PT. Loose Stored
Client No.: WMS0920-A23 **Client Description:** Lighter Yellow-White Window Glazing Windows. Likely to be From the 1974
Compound at Edge of Glass (21" x 5'-6") Dayroom. - Photo R671 & 2

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 1.6 Chrysotile None Detected 98.4


Lab No.: 7067240 **Analyst Observation:** Grey/White Glazing **Location:** Attic Above PT. Loose Stored
Client No.: WMS0920-A24 **Client Description:** Grey Sticky Window Glazing Compound Windows. Likely to be From the 1974
at Edge of Glass (21" x 5'-6") Dayroom. - Photo R671 & 2

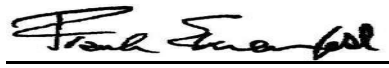
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 2.4 Chrysotile None Detected 97.6

Lab No.: 7067241 **Analyst Observation:** Off-White Glazing **Location:** Attic Above PT. Loose Stored
Client No.: WMS0920-A25 **Client Description:** Cream, Hard Window Glazing Compound Glass. - Photo R676 & 7
at Edge of Glass (21" x 7'-8")

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
PC 4.2 Chrysotile None Detected 95.8

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 9/25/2020 Report No.: 620075 - PLM Project: Wrangell Medical Center Project No.: 7795-03
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7067242 Client No.: WMS0920-A26	Analyst Observation: White Sealant Client Description: White Sealant at Round Adjustable Duct	Location: Attic Above PT. Loose Stored Duct. - Photo R678 Facility: Percent Non-Fibrous Material: 90
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: 10 Talc	


Lab No.: 7067243 Client No.: WMS0920-A27	Analyst Observation: White Sealant Client Description: White Sealant at Round Adjustable Duct	Location: Attic Above Reception Area. Active Duct. - Photo B100 Facility: Percent Non-Fibrous Material: 90
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: 10 Talc	


Lab No.: 7067244 Client No.: WMS0920-A28	Analyst Observation: White Insulation Client Description: Chalky White Hard Fitting Insulation	Location: Attic Above Surgery Area. Debris on Ceiling. - Photo B101 Facility: Percent Non-Fibrous Material: 80
Percent Asbestos: <i>15 Chrysotile</i> <i>PC 5 Amosite</i>	Percent Non-Asbestos Fibrous Material: None Detected	

Lab No.: 7067245 Client No.: WMS0920-A29	Analyst Observation: Black Tar Paper Client Description: Tarry Craft Paper From Behind Cedar Shingle Siding	Location: Attic. Former Exterior Wall of 1974 Era. - B102 Facility: Percent Non-Fibrous Material: 70
Percent Asbestos: <i>None Detected</i>	Percent Non-Asbestos Fibrous Material: 30 Cellulose	

Lab No.: 7067246 Client No.: WMS0920-A30	Analyst Observation: Red Sealant Client Description: Red Duct Sealant	Location: Attic Above 1967 Era. Loose Duct in Attic Space. - Photo R734 Facility: Percent Non-Fibrous Material: 92.6
Percent Asbestos: <i>PC 4.4 Chrysotile</i>	Percent Non-Asbestos Fibrous Material: 3 Talc	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/25/2020
Date Analyzed: 09/25/2020
Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

Client: EHS511

Appendix to Analytical Report

Customer Contact: Cali Swatowski

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

CERTIFICATE OF ANALYSIS

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Project No.: 7795-03

Client: EHS511

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Client: EHS511

Report Date: 9/25/2020
Report No.: 620075 - PLM
Project: Wrangell Medical Center
Project No.: 7795-03

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



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PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-17-2020
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CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED:	<input checked="" type="checkbox"/> PLM BULK <input type="checkbox"/> PLM DUST <input type="checkbox"/> TEM BULK <input type="checkbox"/> LEAD DUST <input type="checkbox"/> LEAD TCLP <input type="checkbox"/> LEAD PPM <input type="checkbox"/> TEM MICROVAC DUST (ASTM 5756)	TYPE:	TURNAROUND:	DISPOSAL:	QUANTITY:
		<input checked="" type="checkbox"/> ASBESTOS <input type="checkbox"/> LEAD	3 DAYS	NORMAL	92
COLLECTED BY (signature) <i>Robert A. French</i>	SELECTED LABORATORY IATL	SPECIAL INSTRUCTIONS / COMMENTS:			
PRINTED NAME Robert A. French.	SAMPLES ACCEPTED BY	LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-ALASKA, INC. See sample location drawing for more detailed explanation of exact locations.			
CERT# / AHERA# 1564 88IMP-0028	DATE/TIME	<i>9% Asbestos None Detected = ND</i>			
SHIPPING METHOD Fed Ex	ANALYST'S SIGNATURE				
COURIER (signature) 7716 9397 3267	DATE				
DATE/TIME Oct 2, 2020, 14:00					

FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A31 7072792	Gray-green mastic of Stainless Corner Guard	Attic near 1974 era. Loose stored corner guard. Photo B103	None Detected
WMC920-A32 7072793	Built-up Roofing of 1974 era flat roof, with brown perlite board insulation	Attic of 1974 era. Under loose fiberglass at exhaust duct penetration through old roof into attic. Photo B104	20% chrysotile ND in Perlite
WMC920-A33 7072794	Tarry vapor barrier and tar and fesco board	Attic of 1974 era. Bottom of roof assembly at exhaust duct penetration through old roof into attic. Photo R745 & 746	None Detected Both layers
WMC920-A34 7072795	Probably hot mop and fesco board	Attic of 1974 era. Middle layer of fesco board insulation at exhaust duct penetration through old roof into attic. Photo R747	None Detected both layers
WMC920-A35 7072796	Built-up Roofing of 1974 era flat roof with brown perlite board insulation	Attic of 1974 era. Under loose fiberglass at supply duct penetration through old roof into attic. Photo R749	20% Chrysotile in 3 BUR layers. ND in perlite
WMC920-A36 7072797	Tarry vapor barrier and tar and fesco board	Attic of 1974 era. Bottom of roof assembly at supply duct penetration through old roof into attic. Photo R750	None Detected
WMC920-A37 7072798	ATCO Roof patch tar	Attic near 1974 era. Loose 5 gal can of Part # 1823. Photo R733	6.2% chrysotile
WMC920-A38 7072799	Tar paper under T&G Siding	Attic at "exterior" side of original 1967 Fan Room. Photo R762	None Detected
WMC920-A39 7072800	Tar paper and GWB sheathing under T&G Siding	Attic at "exterior" side of original 1967 Fan Room. Photo R763 & 4	None Detected Three layers



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PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-17-2020
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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A40 7072801	White silicone sealant at roofing	Metal Roof under valley flashing canopy near main entrance. Photo R782 & 783	None Detected
WMC920-A41 7072802	Gray rubbery roof sealant	Metal Roof sealant under edge flashing, near main entrance. Photo R782 & 783	None Detected
WMC920-A42 7072803	Clear silicone sealant at fascia of roofing	Metal Roof at lap joint of metal drip ledge over EFIS. Photo R787	None Detected
WMC920-A43 7072804	Clear yellow sealant at roofing	Metal Roof, sealant between roofing and metal angle edge flashing into gutter. Photo R786	None Detected
WMC920-A44 7072805	Tar paper under metal roofing	Metal roof, under main roof, over decking. Photo R789	None Detected
WMC920-A45 7072806	Foam Robber filler at roofing	Metal roof, at edge box of roofing. B105	None Detected
WMC920-A46 7072807	Gray sticky putty sealant at roofing	Under metal roof, at edge flashing. B106	None Detected
WMC920-A47 7072808	EFIS Stucco & sealant	At column of main entrance drive-through. Photo B109	None Detected Both layers
WMC920-A48 7072809	GWB. of Soffit	At water damaged at underside of soffit at main entrance drive-through. Photo R791-793	None Detected
WMC920-A49 7072810	Joint compound of soffit	At water damaged at underside of soffit at main entrance drive-through. Photo R791-793	None Detected
WMC920-A50 7072811	Concrete Sacking	Exterior Foundation wall of 1974 Addition, At snap-tie hole. Photo B110	None Detected
WMC920-A51 7072812	Gypsum wall board, joint compound & tape	Ceiling of exterior soffit of walkway going to "morgue door". Photo R807	None Detected Both layers
WMC920-A52 7072813	Gray sticky sealant	Between door frame and concrete of "morgue door" to 1974 era. Photos R805 & 806	None Detected Both layers



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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A53 7072814	White window frame sealant	Between window frame and EFIS. Photo B111	<i>None Detected</i>
WMC920-A54 7072815	Harder cream sealant	Sealant at plywood of boarded up window around Air Conditioning Unit. Photo B112 & 113	<i>None Detected</i>
WMC920-A55 7072816	Black Tarry Waterproofing at foundation	In crawl space. At former exterior wall of 1974 addition. Photo R836 & 837	<i>None Detected</i>
WMC920-A56 7072817	Cement asbestos pipe	In crawl space. At capped pipe coming out of soil. Photo B114, R832	<i>10% Chrysotile 10% Crocidolite</i>
WMC920-A57 7072818	Cement asbestos pipe	In crawl space. At active sewer pipe. Photo B118, R841	<i>12% Chrysotile 8% Crocidolite</i>
WMC920-A58 7072819	Hard Fitting insulation	In crawl space. Probably on a hot water pipe. Photo R843 & 845	<i>0.5% Chrysotile 1.2% Crocidolite ND in yellow fiberglass</i>
WMC920-A59 7072820	Hard Fitting insulation	In crawl space, on ground. Photo R855	<i>20% Chrysotile 1.5% Crocidolite</i>
WMC920-A60 7072821	Black Tarry Waterproofing at foundation	At exterior wall of 1974 addition. Photo R885	<i>None Detected</i>
WMC920-A61 7072822	Sticky cream sealant at EFIS	At EFIS over 1974 addition. Between metal frame of louver & EFIS. Photo B119	<i>None Detected</i>
WMC920-A62 7072823	Sticky cream sealant at EFIS	At EFIS over 1988 addition. Between metal frame of window & EFIS. Photo R1674 & 1675	<i>None Detected</i>
WMC920-A63 7072824	Black rubbery glazing at alum windows	Aluminum framed window of 1988 addition. Photo R1674 & 1675	<i>4.5% Chrysotile</i>
WMC920-A64 7072825	Sticky cream sealant at EFIS	At EFIS over 1988 addition. Between GWB soffit & EFIS. Photo R1677	<i>None Detected</i>
WMC920-A65 7072826	Whiter caulking at EFIS	At EFIS over 1988 addition. Between metal generator louver & EFIS. Photo R1678	<i>None Detected</i>



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
7795-03	Wrangell Medical Center	Wrangell Medical Center	09-17-2020
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A66 7072827	Pinkish caulking	At 1988 addition. Between metal generator louver & louver frame. Photo R1679	None Detected
WMC920-A67 7072828	EFIS Stucco & fiberglass mesh	At 1988 addition. At drip edge of EFIS. Photo R1692	None Detected
WMC920-A68 7072829	Clear sealant at window	At 1992 addition. At wood frame to plastic window joint. Photo R1693	None Detected
WMC920-A69 7072830	White sealant at siding	At 1992 addition. At vent pipe penetration of metal siding. Photo R1719	None Detected
WMC920-A70 7072831	White sealant at soffit fascia	At 1992 addition. At lap joint of lower soffit flashing. Photo R1721	None Detected
WMC920-A71 7072832	White sealant at standing seam roof.	At 1992 addition. At folded top seam of rib joints. Photo R1722	None Detected
WMC920-A72 7072833	Tar paper under metal roofing	At 1992 addition. Under main metal roofing. Photo R1724	None Detected
WMC920-A73 7072834	Gray sealant at metal roofing	At 1992 addition. At flashing between metal siding and transition flashing over vestibule roof. Photo R1725	None Detected
WMC920-A74 7072835	Sticky cream sealant at EFIS	At EFIS over 1988 addition. At Fire Dept. Connection. Photo R1680 R 1726 and B223	None Detected
WMC920-A75 7072836	Sticky cream sealant at EFIS	At EFIS over 1967 Orig. Between GWB soffit & EFIS. Photo B224	None Detected
WMC920-A76 7072837	Gypsum board & Joint compound	1992 Addition. Corner of Rm 25, Bulk Storage. Photo R1850	None Detected Three layers
WMC920-A77 7072838	CB-1, 4" gray cove base with cream mastic, joint compound and gypsum wall board	1992 Addition. Corner of Rm 29, Vestibule. Photo R1859	None Detected Five layers
WMC920-A78 7072839	Gypsum wall board & joint compound	1967 era, Sprinkler Room 30, but wall supposedly built with 1988 addition. Photo R1870	None Detected Three layers



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PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
7795-03	Wrangell Medical Center	Wrangell Medical Center	09-17-2020
FIELD SURVEY DATA			
EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A79 7072840	Gypsum wall board & joint compound	1967 era, Sprinkler Room 30, 1967 exterior wall. Photo R1871 <i>Composite 0.25%</i>	ND in GWB 2.8% chrysotile in JC
WMC920-A80 7072841	CB-2, 4" green (painted) cove base with dark brown mastic.	1967 era, Sprinkler Room 30, 1967 exterior wall. Appears original. Photo R1871	None Detected both layers
WMC920-A81 7072842	Hard fitting insulation	1967 era, Boiler Rm. 108. On yellow boiler supply pipe. Photo R1918	10% Chrysotile
WMC920-A82 7072843	Hard fitting insulation	1967 era, Boiler Rm. 108. On yellow boiler supply pipe. Photo R1919	10% Chrysotile, Trace Amosite
WMC920-A83 7072844	Hard fitting insulation	1967 era, Boiler Rm. 108. On blue cold water supply. Photos R1908 & 1925	10% Chrysotile, Trace Amosite
WMC920-A84 7072845	Black tarry coating inside ceiling speaker box	1988 era. Staff Lounge, 115. Inside red speaker box. Photos R1940 & 1941	None Detected
WMC920-A85 7072846	LCT-2, 2' x 4' "Galaxy" pattern suspended ceiling tile. Random small fissures	1988 era. Staff Lounge, 115. Main tile in room. Photo R1938	None Detected
WMC920-A86 7072847	CB-2, 4" green (painted) cove base with dark brown mastic & old (on back of CB) & newer Jo(on face of CB) int Compound	1967 era, Elec Rm 34, Possible 1988 wall, but appears original. Photo B229	ND - 3 layers 2.6% chrysotile in joint Comp.
WMC920-A87 7072848	LCT-1, 2' x 4' shallow directional fissures, 1/16" & 1/8" holes	1967 era, but newer tile. Hallway to 1992 addition. Photo B230	None Detected
WMC920-A88 7072849	SV-1, cream sheet vinyl with white shading and tiny brown specks	1967 era, but newer flooring. Hallway to 1992 addition. Photo B231	None Detected both layers
WMC920-A89 7072850	CB-3, Gray 4" cove base with light tan mastic.	1988 addition, Janitor Closet 109. Photo R1958 & 1959	None Detected both layers
WMC920-A90 7072851	SV-2, Cream with small 3/8" & smaller light tan & gray chips, tan mastic	1988 addition, Janitor Closet 109. Photo R1959	None Detected both layers
WMC920-A91 7072852	"Ventglas" Black neoprene duct flexible connector	1967 Penthouse Fan Rm. At exhaust fan #10019. Photo B232 & 233	None Detected
WMC920-A92 7072853	"Ventglas" Black neoprene duct flexible connector	1967 Penthouse Fan Rm. At central AHU. Photo B234	None Detected



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PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-17-2020
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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A93 7072854	SV-1, cream sheet vinyl with white shading and tiny brown specks, brown mastic	1967 era, but newer flooring. Store Rm 102. Photo R1966	None Detected both layers
WMC920-A94 7072855	Leveling compound or "Float" over concrete	1967 era. Store Rm 102. Appears to be 1/2" thick over painted concrete. Photo R1966 & 1967	None Detected
WMC920-A95 7072856	Tar paper between layers of plywood (ignore wood)	1967 era. At hatch in Janitor Closet 38. Appears to be original slipsheet between plywood subfloor and plywood underlayment. Photo R1975	None Detected
WMC920-A96 7072857	Tar mastic? under particle board (ignore wood)	1967 era. At hatch in Janitor Closet 38. Appears to be original black mastic under particle board underlayment. Photo R1975	4.1% Chrysotile
WMC920-A97 7072858	SV-1, cream sheet vinyl with white shading and tiny brown specks, brown mastic, particle board (ignore wood)	1967 era. At hatch in Janitor Closet 38. Top layer over particle board. Photo R1975	None Detected both layers
<i>fast</i> → WMC920-A98 7072859	SV-3, fake wood sheet flooring, white leveling compound, sticky brown contact cement	1988 era, PT Room, 132. At in-floor duct grille by entrance. Photo R1992	None Detected Three layers
WMC920-A99 7072860	White leveling compound, brown mastic	1988 era, PT Room, 132. At in-floor duct grille by entrance. Photo R1992	None Detected both layers
WMC920-A100 7072861	Brown mastic on side of metal duct	1988 era, PT Room, 132. Probably original mastic. At in-floor duct grille by entrance. Photo R1993	None Detected
WMC920-A101 7072862	White seal at ductwork	1988 era, PT Room, 132. At opposed blade damper in relief. Photo R1998	None Detected
WMC920-A102 7072863	Gypsum wall board and joint compound	1988 era, PT Room, 132. At wall above ceiling grid. Nailed-on. Photo R2001	None Detected both layers
WMC920-A103 7072864	SV-2, Cream with small 3/8" & smaller light tan & gray chips, tan mastic (ignore wood)	1988 era, Closet 143. At hatch to crawl space. Photo R2052, 2062	None Detected both layers
WMC920-A104 7072865	CB-3, Gray 4" cove base with cream mastic.	1988 era, Exam Rm 151. Photo R2090	None Detected both layers
WMC920-A105 7072866	Yellow carpet mastic	1988 era, Hallway outside Restroom 142. Photo R2091	None Detected
WMC920-A106 7072867	Yellow carpet mastic & gray leveling compound	1988 Era, Waiting Area 81, by vestibules. Photo B260	None Detected both layers



EHS ALASKA
INCORPORATED

EHS Alaska, Inc.

11901 Business Blvd., Suite 208, Eagle River, AK 99577

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PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-17-2020
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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A107 7072868	Joint compound	1988 Era, Waiting Area 81, by corner near Admin 79. Photo B261	None Detected
WMC920-A108 7072869	Gypsum wall board and Joint Compound	1988 Era, Waiting Area 81, by corner near Admin 79. Photo B262	None Detected Both layers
WMC920-A109 7072870	Exterior stucco of EFIS at added walls around Dining/Activity 69 w/white foam	Unknown date, reportedly within the past 10 years. Photo B263	None Detected both layers
WMC920-A110 7072871	Exterior stucco, red sealant of EFIS at added walls around Dining/Activity 69	Unknown date, reportedly within the past 10 years. Photo R2251	None Detected
WMC920-A111 7072872	Black rubber stair tread with brown mastic	1974 era. Base of stairs. Photo R2262	None Detected both layers
WMC920-A112 7072873	Black rubber stair stringer with brown mastic	1974 era. Base of stairs. Photo R2263	10% Chrysotile in Stringer ND in Mastic
WMC920-A113 7072874	Black Sink undercoating	1974 era. Break Rm. 9 Stainless steel sink. Photo R2272	2.6% Chrysotile
WMC920-A114 7072875	"Marlite" and brown mastic	1974 era. Restroom 12. At cleanout. Photo R2277	ND in Marlite trace chrys. in Mastic
WMC920-A115 7072876	White, chalky fire door insulation	1974 era. Door between back hallway and Laundry 15. UL listed 1.5 hour rating. Photo R2279	60% Chrysotile
WMC920-A116 7072877	Red duct sealant	1974 era. Mech/fan Rm. 3 on Mixing side of plenum wall. Photo R2289	5.2% Chrysotile
WMC920-A117 7072878	Red duct sealant	1974 era. Mech/fan Rm. 3 at bare steel flange. Photo B264	5.0% Chrysotile
WMC920-A118 7072879	Gray sealant at Fan sections	1974 era. Mech/fan Rm. 3. Fan 10013. Photo R2290	None Detected
WMC920-A119 7072880	"Ventglas" Black neoprene duct flexible connector	1974 era. Mech/fan Rm. 3. Outlet side of Squirrel fan. Photo R2291	None Detected
WMC920-A120 7072881	Gray ceramic tile grout	1974 era. Restroom 12. Loose grout in crack in base by door Photo R2278	None Detected



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PROJECT NO: 7795-03	PROJECT NAME: Wrangell Medical Center	FACILITY: Wrangell Medical Center	COLLECTION DATE: 09-17-2020
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FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION. (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/REF)	RESULTS FOR EHS-ALASKA USE ONLY
WMC920-A121 7072882	GCT-1, 12" x 12" Glued on ceiling tile, groove for concealed grid, directional medium fissures, 1/16" holes, Brown mastic	1974 era. Hallway 6, at Speaker box. Photo B265 & 266	None Detected both layers
WMC920-A122 7072883	Black tarry lining of red speaker box.	1974 era. Hallway 6, at Speaker box. Photo B266 & R 2296	None Detected
	END		

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072792	Analyst Observation: Tan Mastic	Location: Attic Near 1974 Era, Loose Store
Client No.: WMC920-A31	Client Description: Gray-Green Mastic Of Stainless Corner Guard	Corner Guard
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 7072793	Analyst Observation: Black Roof Material	Location: Attic Of 1974 Era, Under Loose
Client No.: WMC920-A32	Client Description: Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation	Fiberglass At Exhaust Duct Penetration Through Old Roof Into Attic
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>20 Chrysotile</i>	10 Cellulose	70

Lab No.: 7072793(L2)	Analyst Observation: Brown Roof Material	Location: Attic Of 1974 Era, Under Loose
Client No.: WMC920-A32	Client Description: Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation	Fiberglass At Exhaust Duct Penetration Through Old Roof Into Attic
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	25 Cellulose 10 Fibrous Glass	65

Lab No.: 7072794	Analyst Observation: Black Tar	Location: Attic Of 1974 Era, Bottom Of
Client No.: WMC920-A33	Client Description: Tarry Vapor Barrier And Tar And Fesco Board	Roof Assembly At Exhaust Duct Penetration Through Old Roof Into Attic
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 7072794(L2)	Analyst Observation: Brown Roof Material	Location: Attic Of 1974 Era, Bottom Of
Client No.: WMC920-A33	Client Description: Tarry Vapor Barrier And Tar And Fesco Board	Roof Assembly At Exhaust Duct Penetration Through Old Roof Into Attic
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	30 Cellulose	70

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/5/2020
Date Analyzed: 10/06/2020
Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072795 **Analyst Observation:** Black Tar **Location:** Attic Of 1974 Era, Middle Layer Of Fesco Board Insulation At Exhaust Duct Penetration Through Old Ro
Client No.: WMC920-A34 **Client Description:** Probably Hot Mop And Fesco Board

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7072795(L2) **Analyst Observation:** Brown Insulation **Location:** Attic Of 1974 Era, Middle Layer Of Fesco Board Insulation At Exhaust Duct Penetration Through Old Ro
Client No.: WMC920-A34 **Client Description:** Probably Hot Mop And Fesco Board

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 30 Cellulose 70

Lab No.: 7072796 **Analyst Observation:** Black Roof Material **Location:** Attic Of 1974 Era, Under Loose Fiberglass At Supply Duct Penetration Through Old Roof Into Attic
Client No.: WMC920-A35 **Client Description:** Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
20 Chrysotile 10 Cellulose 70


Lab No.: 7072796(L2) **Analyst Observation:** Black Roof Material **Location:** Attic Of 1974 Era, Under Loose Fiberglass At Supply Duct Penetration Through Old Roof Into Attic
Client No.: WMC920-A35 **Client Description:** Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation

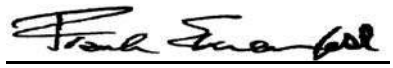
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
20 Chrysotile 10 Cellulose 70

Lab No.: 7072796(L3) **Analyst Observation:** Black Roof Material **Location:** Attic Of 1974 Era, Under Loose Fiberglass At Supply Duct Penetration Through Old Roof Into Attic
Client No.: WMC920-A35 **Client Description:** Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
20 Chrysotile 10 Cellulose 70

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Date Received: 10/5/2020
Date Analyzed: 10/06/2020
Signature: 
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Frank E. Ehrenfeld, III
Laboratory Director


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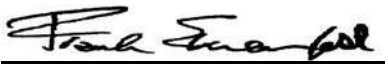
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072796(L4) Client No.: WMC920-A36	Analyst Observation: Brown Roof Material Client Description: Built-Up Roofing Of 1974 Era Flat Roof W/Brown Perlite Board Insulation	Location: Attic Of 1974 Era, Under Loose Fiberglass At Supply Duct Penetration Through Old Roof Into Attic Facility: Percent Non-Fibrous Material: 70
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	
Lab No.: 7072797 Client No.: WMC920-A36	Analyst Observation: Black Roof Material Client Description: Tarry Vapor Barrier And Tar And Fesco Board	Location: Attic Of 1974 Era, Bottom Of Roof Assembly At Supply Duct Penetration Through Old Roof Into Attic Facility: Percent Non-Fibrous Material: 70
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose	
Lab No.: 7072798 Client No.: WMC920-A37	Analyst Observation: Black Tar Client Description: ATCO Roof Patch Tar	Location: Attic Near 1974 Era, Loose 5 Gal Can Of Part #1823 Facility: Percent Non-Fibrous Material: 91.8
<u>Percent Asbestos:</u> <i>PC 6.2 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Fibrous Glass	
Lab No.: 7072799 Client No.: WMC920-A38	Analyst Observation: Grey Tar Paper Client Description: Tar Paper Under T And G Siding	Location: Attic At Exterior Side Of Original 1967 Fan Rm Facility: Percent Non-Fibrous Material: 75
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	
Lab No.: 7072800 Client No.: WMC920-A39	Analyst Observation: Grey Tar Paper Client Description: Tar Paper And GWB Sheathing Under T And G Siding	Location: Attic At Exterior Side Of Original 1967 Fan Rm Facility: Percent Non-Fibrous Material: 75
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	

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Date Received: 10/5/2020
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072800(L2) **Analyst Observation:** Black Tar **Location:** Attic At Exterior Side Of Original
Client No.: WMC920-A39 **Client Description:** Tar Paper And GWB Sheathing Under T 1967 Fan Rm
And G Siding **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7072800(L3) **Analyst Observation:** Tan Drywall **Location:** Attic At Exterior Side Of Original
Client No.: WMC920-A39 **Client Description:** Tar Paper And GWB Sheathing Under T 1967 Fan Rm
And G Siding **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 10 Cellulose 90


Lab No.: 7072801 **Analyst Observation:** White Sealant **Location:** Metal Roof Under Valley
Client No.: WMC920-A40 **Client Description:** White Silicone Sealant At Roofing Flashing Canopy Near Main Entrance
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

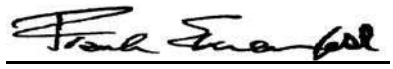
Lab No.: 7072802 **Analyst Observation:** Grey Sealant **Location:** Metal Roof Sealant Under Edge
Client No.: WMC920-A41 **Client Description:** Gray Rubbery Roof Sealant Flashing, Near Main Entrance
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7072803 **Analyst Observation:** Clear Sealant **Location:** Metal Roof At Lap Joint Of
Client No.: WMC920-A42 **Client Description:** Clear Silicone Sealant At Fascia Of Metal Drip Ledge Over EFIS
Roofing **Facility:**
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7072804 **Analyst Observation:** Yellow Sealant **Location:** Metal Roof, Sealant Between
Client No.: WMC920-A43 **Client Description:** Clear Yellow Sealant At Roofing Roofing And Metal Angle Edge Flashing
Into Gutter
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Analyst: Sarah Lipiecki

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Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072805 Client No.: WMC920-A44	Analyst Observation: Black Tar Paper Client Description: Tar Paper Under Metal Roofing	Location: Metal Roof, Under Main Roof, Over Decking Facility: Percent Non-Fibrous Material: 80
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose	

Lab No.: 7072806 Client No.: WMC920-A45	Analyst Observation: Grey Foam Client Description: Foam Robber Filler At Roofing	Location: Metal Roof, At Edge Box Of Roofing Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7072807 Client No.: WMC920-A46	Analyst Observation: Grey Sealant Client Description: Gray Sticky Putty Sealant At Roofing	Location: Under Metal Roof, At Edge Flashing Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

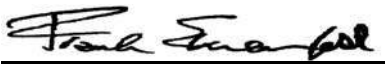
Lab No.: 7072808 Client No.: WMC920-A47	Analyst Observation: Grey Sealant Client Description: EFIS Stucco And Sealant	Location: At Column Of Main Entrance Drive-Through Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072808(L2) Client No.: WMC920-A47	Analyst Observation: Tan Stucco Client Description: EFIS Stucco And Sealant	Location: At Column Of Main Entrance Drive-Through Facility: Percent Non-Fibrous Material: 90
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Fibrous Glass	

Lab No.: 7072809 Client No.: WMC920-A48	Analyst Observation: White Drywall Client Description: GWB Of Soffit	Location: At Water Damaged At Underside Of Soffit At Main Entrance Drive-Through Facility: Percent Non-Fibrous Material: 90
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose 8 Fibrous Glass	

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Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072810 **Analyst Observation:** White Joint Compound
Client No.: WMC920-A49 **Client Description:** Joint Compound Of Soffit
Location: At Water Damaged At Underside Of Soffit At Main Entrance Drive-Through
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

Lab No.: 7072811 **Analyst Observation:** Grey Concrete
Client No.: WMC920-A50 **Client Description:** Concrete Sacking
Location: Exterior Foundation Wall Of 1974 Addition, At Snap-Tie Hole
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100


Lab No.: 7072812 **Analyst Observation:** White Joint Compound
Client No.: WMC920-A51 **Client Description:** Gypsum Wallboard/Joint Compound/Tape
Location: Ceiling Of Exterior Soffit Of Walkway Going To Morgue Door
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

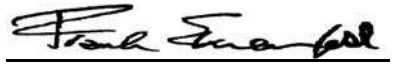
Lab No.: 7072812(L2) **Analyst Observation:** White Tape
Client No.: WMC920-A51 **Client Description:** Gypsum Wallboard/Joint Compound/Tape
Location: Ceiling Of Exterior Soffit Of Walkway Going To Morgue Door
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 75 Cellulose 25

Lab No.: 7072813 **Analyst Observation:** Grey Sealant
Client No.: WMC920-A52 **Client Description:** Gray Sticky Sealant
Location: Between Door Frame And Concrete Of Morgue Door To 1974 To Era
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected 2 Cellulose 98

Lab No.: 7072813(L2) **Analyst Observation:** Black Foam
Client No.: WMC920-A52 **Client Description:** Gray Sticky Sealant
Location: Between Door Frame And Concrete Of Morgue Door To 1974 To Era
Facility:
Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:
None Detected None Detected 100

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Date Received: 10/5/2020
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Analyst: Sarah Lipiecki

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Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072814 Client No.: WMC920-A53	Analyst Observation: White Sealant Client Description: White Window Frame Sealant	Location: Between Window Frame And EFIS Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072815 Client No.: WMC920-A54	Analyst Observation: Cream Sealant Client Description: Harder Cream Sealant	Location: Sealant At Plywood Of Boarded Up Window Around Air Conditioning Unit Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072816 Client No.: WMC920-A55	Analyst Observation: Black Sealant Client Description: Black Tarry Waterproofing At Foundation	Location: In Crawl Space, At Former Exterior Wall Of 1974 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072817 Client No.: WMC920-A56	Analyst Observation: Grey Cement Product Client Description: Cement Asbestos Pipe	Location: In Crawl Space, At Capped Pipe Coming Out Of Soil Facility:
<u>Percent Asbestos:</u> 10 Chrysotile 10 Crocidolite	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 80
Lab No.: 7072818 Client No.: WMC920-A57	Analyst Observation: Grey Cement Product Client Description: Cement Asbestos Pipe	Location: In Crawl Space, At Active Sewer Pipe Facility:
<u>Percent Asbestos:</u> 12 Chrysotile PC 8 Crocidolite	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 80

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Date Received: 10/5/2020
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Signature:
Analyst: Sarah Lipiecki

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072819 Client No.: WMC920-A58	Analyst Observation: White Insulation Client Description: Hard Fitting Insulation	Location: In Crawl Space, Probably On A Hot Water Pipe Facility: Percent Non-Fibrous Material: 73.3
<u>Percent Asbestos:</u> PC 0.5 Chrysotile PC 1.2 Crocidolite	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Fibrous Glass	


Lab No.: 7072819(L2) Client No.: WMC920-A58	Analyst Observation: Yellow Insulation Client Description: Hard Fitting Insulation	Location: In Crawl Space, Probably On A Hot Water Pipe Facility: Percent Non-Fibrous Material: 10
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 90 Fibrous Glass	


Lab No.: 7072820 Client No.: WMC920-A59	Analyst Observation: White Insulation Client Description: Hard Fitting Insulation	Location: In Crawl Space, On Ground Facility: Percent Non-Fibrous Material: 65.5
<u>Percent Asbestos:</u> 20 Chrysotile PC 1.5 Crocidolite	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose 10 Fibrous Glass	

Lab No.: 7072821 Client No.: WMC920-A60	Analyst Observation: Black Sealant Client Description: Black Tarry Waterproofing At Foundation Addition	Location: At Exterior Wall Of 1974 Addition Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072822 Client No.: WMC920-A61	Analyst Observation: Cream Sealant Client Description: Sticky Cream Sealant At EFIS	Location: At EFIS Over 1974 Addition, Between Metal Frame Of Louver And EFIS Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/5/2020
Date Analyzed: 10/06/2020
Signature: 
Analyst: Sarah Lipiecki

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

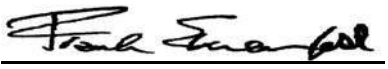
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072823 Client No.: WMC920-A62	Analyst Observation: Clear Sealant Client Description: Sticky Cream Sealant At EFIS	Location: At EFIS Over 1988 Addition, Between Metal Frame Of Window And EFIS Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072824 Client No.: WMC920-A63	Analyst Observation: Black Glazing Client Description: Black Rubbery Glazing At Alum Windows	Location: Aluminum Framed Window Of 1988 Addition Facility:
<u>Percent Asbestos:</u> <i>PC 4.5 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 95.5
Lab No.: 7072825 Client No.: WMC920-A64	Analyst Observation: Cream Sealant Client Description: Sticky Cream Sealant At EFIS	Location: At EFIS Over 1988 Addition, Between GWB Soffit And EFIS Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Talc	<u>Percent Non-Fibrous Material:</u> 97
Lab No.: 7072826 Client No.: WMC920-A65	Analyst Observation: White Sealant Client Description: Whiter Caulking At EFIS	Location: At EFIS Over 1988 Addition, Between Metal Generator Louver And EFIS Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072827 Client No.: WMC920-A66	Analyst Observation: Pink Caulk Client Description: Pinkish Caulking	Location: At 1988 Addition, Between Metal Generator Louver And Louver Frame Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072828 Client No.: WMC920-A67	Analyst Observation: Tan/Grey Stucco Client Description: EFIS Stucco And Fiberglass Mesh	Location: At 1988 Addition, At Drip Edge Of EFIS Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 88

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Frank E. Ehrenfeld, III
Laboratory Director


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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072829 Client No.: WMC920-A68	Analyst Observation: Clear Sealant Client Description: Clear Sealant At Window	Location: At 1992 Addition, At Wood Frame To Plastic Window Joint Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072830 Client No.: WMC920-A69	Analyst Observation: White Sealant Client Description: White Sealant At Siding	Location: At 1992 Addition, At Vent Pipe Penetration Of Metal Siding Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072831 Client No.: WMC920-A70	Analyst Observation: White Sealant Client Description: White Sealant At Soffit Fascia	Location: At 1992 Addition, At Lap Joint Of Lower Soffit Flashing Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Frank E. Ehrenfeld, III
Laboratory Director

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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072832 Client No.: WMC920-A71	Analyst Observation: White Sealant Client Description: White Sealant At Standing Seam Roof	Location: At 1992 Addition, At Folded Top Seam Of Rib Joints Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7072833 Client No.: WMC920-A72	Analyst Observation: Black Tar Paper Client Description: Tar Paper Under Metal Roofing	Location: At 1992 Addition, Under Main Metal Roofing Facility: Percent Non-Fibrous Material: 35
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 65 Cellulose	


Lab No.: 7072834 Client No.: WMC920-A73	Analyst Observation: Grey Sealant Client Description: Gray Sealant At Metal Roofing	Location: At 1992 Addition, At Flashing Between Metal Siding And Transition Flashing Over Vestibule Roof Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072835 Client No.: WMC920-A74	Analyst Observation: Off-White Sealant Client Description: Sticky Cream Sealant At EFIS	Location: At EFIS Over 1988 Addition, At Fire Dept Connection Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072836 Client No.: WMC920-A75	Analyst Observation: Off-White Sealant Client Description: Sticky Cream Sealant At EFIS	Location: AT EFIS Over 1967 Orig, Between GWB Soffit And EFIS Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Analyst: Rebecca Hargrove

Approved By: 
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Laboratory Director

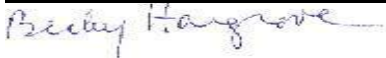
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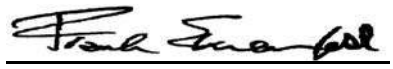
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072837 Client No.: WMC920-A76	Analyst Observation: Pink/Tan Drywall Client Description: Gypsum Board And Joint Compound	Location: 1992 Addition, Corner Of Rm 25, Bulk Storage Facility: Percent Non-Fibrous Material: 65
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose Trace Fibrous Glass	
Lab No.: 7072837(L2) Client No.: WMC920-A76	Analyst Observation: Off-White Joint Compound Client Description: Gypsum Board And Joint Compound	Location: 1992 Addition, Corner Of Rm 25, Bulk Storage Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7072837(L3) Client No.: WMC920-A76	Analyst Observation: Composite Client Description: Gypsum Board And Joint Compound	Location: 1992 Addition, Corner Of Rm 25, Bulk Storage Facility: Percent Non-Fibrous Material: 68
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 32 Cellulose Trace Fibrous Glass	
Lab No.: 7072838 Client No.: WMC920-A77	Analyst Observation: Pink/Tan Drywall Client Description: CB-1-4" Gray Cove Base With Cream Mastic/Joint Compound And Gypsum Wallboard	Location: 1992 Addition, Corner Of Rm 29, Vestibule Facility: Percent Non-Fibrous Material: 63
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Cellulose 2 Fibrous Glass	
Lab No.: 7072838(L2) Client No.: WMC920-A77	Analyst Observation: Off-White Joint Compound Client Description: CB-1-4" Gray Cove Base With Cream Mastic/Joint Compound And Gypsum Wallboard	Location: 1992 Addition, Corner Of Rm 29, Vestibule Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072838(L3) Client No.: WMC920-A77	Analyst Observation: Composite Client Description: CB-1-4" Gray Cove Base With Cream Mastic/Joint Compound And Gypsum Wallboard	Location: 1992 Addition, Corner Of Rm 29, Vestibule Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 68


Lab No.: 7072838(L4) Client No.: WMC920-A77	Analyst Observation: Grey Cove Base Client Description: CB-1-4" Gray Cove Base With Cream Mastic/Joint Compound And Gypsum Wallboard	Location: 1992 Addition, Corner Of Rm 29, Vestibule Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

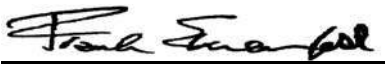
Lab No.: 7072838(L5) Client No.: WMC920-A77	Analyst Observation: Tan Mastic Client Description: CB-1-4" Gray Cove Base With Cream Mastic/Joint Compound And Gypsum Wallboard	Location: 1992 Addition, Corner Of Rm 29, Vestibule Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7072839 Client No.: WMC920-A78	Analyst Observation: White/Tan Drywall Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, But Wall Supposedly Built With 1988 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 78

Lab No.: 7072839(L2) Client No.: WMC920-A78	Analyst Observation: Off-White Joint Compound Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, But Wall Supposedly Built With 1988 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Laboratory Director

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Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072839(L3) Client No.: WMC920-A78	Analyst Observation: Composite Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, But Wall Supposedly Built With 1988 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Cellulose 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 78

Lab No.: 7072840 Client No.: WMC920-A79	Analyst Observation: White/Tan Drywall Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, 1967 Exterior Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 25 Cellulose	<u>Percent Non-Fibrous Material:</u> 75

Lab No.: 7072840(L2) Client No.: WMC920-A79	Analyst Observation: White Joint Compound Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, 1967 Exterior Wall Facility:
<u>Percent Asbestos:</u> PC 2.8 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.2

Lab No.: 7072840(L3) Client No.: WMC920-A79	Analyst Observation: Composite Client Description: Gypsum Wallboard And Joint Compound	Location: 1967 Era, Sprinkler Rm 30, 1967 Exterior Wall Facility:
<u>Percent Asbestos:</u> PC 0.25 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> 23 Cellulose	<u>Percent Non-Fibrous Material:</u> 76.75

Lab No.: 7072841 Client No.: WMC920-A80	Analyst Observation: Green Cove Base Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic	Location: 1967 Era, Sprinkler Rm 30, 1967 Exterior Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7072841(L2) Client No.: WMC920-A80	Analyst Observation: Brown Mastic Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic	Location: 1967 Era, Sprinkler Rm 30, 1967 Exterior Wall Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Date Received: 10/5/2020
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Signature: *Rebecca Hargrove*
Analyst: Rebecca Hargrove

Approved By: *Frank E. Ehrenfeld*
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072842 Client No.: WMC920-A81	Analyst Observation: Tan Insulation Client Description: Hard Fitting Insulation	Location: 1967 Era, Boiler Rm 108, On Yellow Boiler Supply Pipe Facility:
<u>Percent Asbestos:</u> 10 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 50

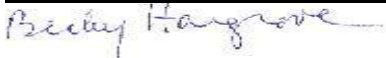
Lab No.: 7072843 Client No.: WMC920-A82	Analyst Observation: Tan Insulation Client Description: Hard Fitting Insulation	Location: 1967 Era, Boiler Rm 108, On Yellow Boiler Supply Pipe Facility:
<u>Percent Asbestos:</u> 10 Chrysotile PC Trace Amosite	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 50

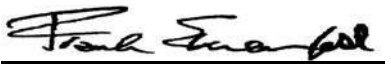
Lab No.: 7072844 Client No.: WMC920-A83	Analyst Observation: Off-White Insulation Client Description: Hard Fitting Insulation	Location: 1967 Era, Boiler Rm 108, On Blue Cold Water Supply Facility:
<u>Percent Asbestos:</u> 10 Chrysotile PC Trace Amosite	<u>Percent Non-Asbestos Fibrous Material:</u> 20 Fibrous Glass 20 Cellulose	<u>Percent Non-Fibrous Material:</u> 50

Lab No.: 7072845 Client No.: WMC920-A84	Analyst Observation: Black Coating Client Description: Black Tarry Coating Inside Ceiling Speaker Box	Location: 1988 Era, Staff Lounge, Inside Red Speaker Box Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

Lab No.: 7072846 Client No.: WMC920-A85	Analyst Observation: Grey/White Ceiling Tile Client Description: LCT-2, 2x4 Galaxy Pattern Suspended Ceiling Tile, Random Small Fisures	Location: 1988 Era, Staff Lounge 115, Main Tile In Rm Facility:
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 45 Fibrous Glass 40 Cellulose	<u>Percent Non-Fibrous Material:</u> 15

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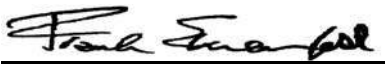
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072847 Client No.: WMC920-A86	Analyst Observation: Green Cove Base Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic And Old On Back Of CB Newer Jo On Face Of CB	Location: 1967 Era, Elec Rm 34, Possible 1988 Wall, But Appears Original Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072847(L2) Client No.: WMC920-A86	Analyst Observation: Brown Mastic Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic And Old On Back Of CB Newer Jo On Face Of CB	Location: 1967 Era, Elec Rm 34, Possible 1988 Wall, But Appears Original Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072847(L3) Client No.: WMC920-A86	Analyst Observation: White Joint Compound Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic And Old On Back Of CB Newer Jo On Face Of CB	Location: 1967 Era, Elec Rm 34, Possible 1988 Wall, But Appears Original Facility:
<u>Percent Asbestos:</u> PC 2.6 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.4
Lab No.: 7072847(L4) Client No.: WMC920-A86	Analyst Observation: White Joint Compound Client Description: CB-2, 4" Green Painted Cove Base With Dark Brown Mastic And Old On Back Of CB Newer Jo On Face Of CB	Location: 1967 Era, Elec Rm 34, Possible 1988 Wall, But Appears Original Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072848 Client No.: WMC920-A87	Analyst Observation: Grey/White Ceiling Tile Client Description: LCT-1, 2x4 Shallow Directional Fissures 1/16" And 1/8" Holes	Location: 1967 Era, But Newer Tile, Hallway To 1992 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Fibrous Glass 30 Cellulose	<u>Percent Non-Fibrous Material:</u> 20

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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577


Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

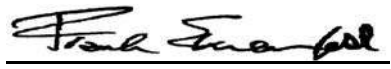
Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072849 Client No.: WMC920-A88	Analyst Observation: Off-White Vinyl Sheet Flooring Client Description: SV-1, Cream Sheet Vinyl With White Shading And Tiny Brown Specks	Location: 1967 Era, But Newer Flooring, Hallway To 1992 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 95
Lab No.: 7072849(L2) Client No.: WMC920-A88	Analyst Observation: Tan Mastic Client Description: SV-1, Cream Sheet Vinyl With White Shading And Tiny Brown Specks	Location: 1967 Era, But Newer Flooring, Hallway To 1992 Addition Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072850 Client No.: WMC920-A89	Analyst Observation: Grey Cove Base Client Description: CB-3, Gray 4" Cove Base With Light Tan Mastic	Location: 1988 Addition, Janitor Closet 109 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072850(L2) Client No.: WMC920-A89	Analyst Observation: Tan Mastic Client Description: CB-3, Gray 4" Cove Base With Light Tan Mastic	Location: 1988 Addition, Janitor Closet 109 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072851 Client No.: WMC920-A90	Analyst Observation: Off-White Vinyl Sheet Flooring Client Description: SV-2, Cream With Small 3/8" And Smaller Light Tan And Gray Chips, Tan Mastic	Location: 1988 Addition, Janitor Closet 109 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072851(L2) Client No.: WMC920-A90	Analyst Observation: Tan Mastic Client Description: SV-2, Cream With Small 3/8" And Smaller Light Tan And Gray Chips, Tan Mastic	Location: 1988 Addition, Janitor Closet 109 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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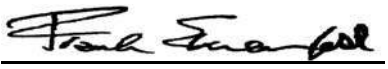
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072852 Client No.: WMC920-A91	Analyst Observation: Black Connector Client Description: Ventglas Black Neoprene Duct Flexible Connector	Location: 1967 Penthouse Fan Rm, At Exhaust Fan #10019 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60
Lab No.: 7072853 Client No.: WMC920-A92	Analyst Observation: Black Connector Client Description: Ventglas Black Neoprene Duct Flexible Connector	Location: 1967 Penthouse Fan Rm, At Central AHU Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60
Lab No.: 7072854 Client No.: WMC920-A93	Analyst Observation: Off-White Vinyl Sheet Flooring Client Description: SV-1, Cream Sheet Vinyl With White Shading And Tiny Brown Specks, Brown Mastic	Location: 1967 Era, But Newer Flooring, Store Rm 102 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 90
Lab No.: 7072854(L2) Client No.: WMC920-A93	Analyst Observation: Brown Mastic Client Description: SV-1, Cream Sheet Vinyl With White Shading And Tiny Brown Specks, Brown Mastic	Location: 1967 Era, But Newer Flooring, Store Rm 102 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072855 Client No.: WMC920-A94	Analyst Observation: Grey Leveling Compound Client Description: Leveling Compound Or Float Over Concrete	Location: 1967 Era, Store Rm 102, Appears To Be 1/2" Thick Over Painted Concrete Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
Lab No.: 7072856 Client No.: WMC920-A95	Analyst Observation: Black Tar Paper Client Description: Tar Paper Between Layers Of Plywood Ignore Wood	Location: 1967 Era, At Hatch In Janitor Closet 38, Appears To Be Original Slipsheet Between Plywood Subfloor A Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose	<u>Percent Non-Fibrous Material:</u> 50

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/5/2020
Date Analyzed: 10/07/2020
Signature: 
Analyst: Rebecca Hargrove

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072857	Analyst Observation: Black Mastic	Location: 1967 Era, At Hatch In Janitor Closet 38, Appears To Be Original Black Mastic Under Particle Board Un
Client No.: WMC920-A96	Client Description: Tar Mastic Under Particle Board Ignore Wood	Facility:

<u>Percent Asbestos:</u> PC 4.1 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 95.9
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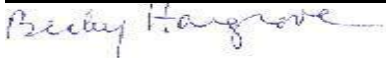
Lab No.: 7072858	Analyst Observation: Tan Vinyl Sheet Flooring	Location: 1967 Era, At Hatch In Janitor Closet 38, Top Layer Over Particle Board
Client No.: WMC920-A97	Client Description: SV-1, Cream Sheet Vinyl With Whit Shading And Tiny Brown Specks, Brown Mastic, Particle Board Ignore	Facility:


<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 95
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Lab No.: 7072858(L2)	Analyst Observation: Brown Mastic	Location: 1967 Era, At Hatch In Janitor Closet 38, Top Layer Over Particle Board
Client No.: WMC920-A97	Client Description: SV-1, Cream Sheet Vinyl With Whit Shading And Tiny Brown Specks, Brown Mastic, Particle Board Ignore	Facility:

<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
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Date Received: 10/5/2020
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Signature: 
Analyst: Rebecca Hargrove

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072859	Analyst Observation: Brown Vinyl Sheet Flooring	Location: 1988 Era, Pt Rm 132, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A98	Client Description: SV-3, Fake Wood Sheet Flooring, White Leveling Compound, Sticky Brown Contact Cement	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 7072859(L2)	Analyst Observation: Clear/Yellow Mastic	Location: 1988 Era, Pt Rm 132, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A98	Client Description: SV-3, Fake Wood Sheet Flooring, White Leveling Compound, Sticky Brown Contact Cement	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100


Lab No.: 7072859(L3)	Analyst Observation: Grey/White Leveling Compound	Location: 1988 Era, Pt Rm 132, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A98	Client Description: SV-3, Fake Wood Sheet Flooring, White Leveling Compound, Sticky Brown Contact Cement	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	2 Cellulose	98

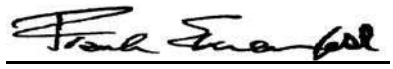
Lab No.: 7072860	Analyst Observation: Grey/White Leveling Compound	Location: 1988 Era, PT Rm 132, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A99	Client Description: White Leveling Compound, Brown Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 7072860(L2)	Analyst Observation: Yellow/Brown Mastic	Location: 1988 Era, PT Rm 132, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A99	Client Description: White Leveling Compound, Brown Mastic	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

Lab No.: 7072861	Analyst Observation: Yellow/Brown Mastic	Location: 1988 Era, PT Rm 132, Probably Original Mastic, At In-Floor Duct Grille By Entrance
Client No.: WMC920-A100	Client Description: Brown Mastic On Side Of metal Duct	Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	2 Cellulose	98

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Signature: 
Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director


CERTIFICATE OF ANALYSIS

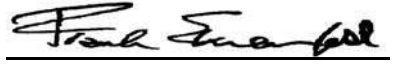
Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072862 Client No.: WMC920-A101	Analyst Observation: White Sealant Client Description: White Seal At Ductwork	Location: 1988 Era, PT Rm 132, At Opposed Blade Damper In Relief Facility: Percent Non-Fibrous Material: 90
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Talc	
Lab No.: 7072863 Client No.: WMC920-A102	Analyst Observation: White Drywall Client Description: Gypsum Wallboard And Joint Compound	Location: 1988 Era, PT Rm 132, At Wall Above Ceiling Grid Facility: Percent Non-Fibrous Material: 96
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose 2 Fibrous Glass	
Lab No.: 7072863(L2) Client No.: WMC920-A102	Analyst Observation: White Joint Compound Client Description: Gypsum Wallboard And Joint Compound	Location: 1988 Era, PT Rm 132, At Wall Above Ceiling Grid Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7072864 Client No.: WMC920-A103	Analyst Observation: Cream Vinyl Sheet Flooring Client Description: SV-2, Cream With Small 3/8" And Smaller Light Tan And Gray Chips, Tan Mastic Ignore Wood	Location: 1988 Era, Closet 143, At Hatch To Crawl Space Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	
Lab No.: 7072864(L2) Client No.: WMC920-A103	Analyst Observation: Yellow Mastic Client Description: SV-2, Cream With Small 3/8" And Smaller Light Tan And Gray Chips, Tan Mastic Ignore Wood	Location: 1988 Era, Closet 143, At Hatch To Crawl Space Facility: Percent Non-Fibrous Material: 97
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose	
Lab No.: 7072865 Client No.: WMC920-A104	Analyst Observation: Grey Cove Base Client Description: CB-3, Gray 4" Cove Base With Cream Mastic	Location: 1988 Era, Exam Rm 151 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072865(L2) Client No.: WMC920-A104	Analyst Observation: Beige Mastic Client Description: CB-3, Gray 4" Cove Base With Cream Mastic	Location: 1988 Era, Exam Rm 151 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100


Lab No.: 7072866 Client No.: WMC920-A105	Analyst Observation: Yellow Mastic Client Description: Yellow Carpet Mastic	Location: 1988 Era, Hallway Outside Restroom 142 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose Trace Synthetic	<u>Percent Non-Fibrous Material:</u> 98

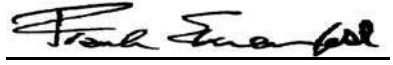
Lab No.: 7072867 Client No.: WMC920-A106	Analyst Observation: Grey Leveling Compound Client Description: Yellow Carpet Mastic And Gray Leveling Compound	Location: 1988 Era, Waiting Area 81, By Vestibules Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7072867(L2) Client No.: WMC920-A106	Analyst Observation: Clear/Yellow Mastic Client Description: Yellow Carpet Mastic And Gray Leveling Compound	Location: 1988 Era, Waiting Area 81, By Vestibules Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7072868 Client No.: WMC920-A107	Analyst Observation: White Joint Compound Client Description: Joint Compound	Location: 1988 Era, Waiting Area 81, By Corner Near Admin 79 Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072869 Client No.: WMC920-A108	Analyst Observation: White Drywall Client Description: Gypsum Wallboard	Location: 1988 Era, Waiting Area 81, By Corner Near Admin 79 Facility: Percent Non-Fibrous Material: 95
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Cellulose 2 Fibrous Glass	

Lab No.: 7072869(L2) Client No.: WMC920-A108	Analyst Observation: White Joint Compound Client Description: Gypsum Wallboard	Location: 1988 Era, Waiting Area 81, By Corner Near Admin 79 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	


Lab No.: 7072870 Client No.: WMC920-A109	Analyst Observation: Grey/Tan Stucco Client Description: Exterior Stucco Of EFIS At Added Walls Around Dining/Activity 69	Location: Unknown Date, Reportedly Within The Past 10 Years Facility: Percent Non-Fibrous Material: 95
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 5 Fibrous Glass	

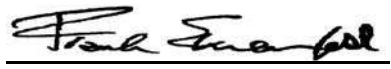
Lab No.: 7072870(L2) Client No.: WMC920-A109	Analyst Observation: White Foam Client Description: Exterior Stucco Of EFIS At Added Walls Around Dining/Activity 69	Location: Unknown Date, Reportedly Within The Past 10 Years Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072871 Client No.: WMC920-A110	Analyst Observation: Brown/Grey Sealant Client Description: Exterior Stucco, Red Sealant Of EFIS At Added Walls Around Dining/Activity 69	Location: Unknown Date, Reportedly Within The Past 10 Years Facility: Percent Non-Fibrous Material: 98
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Fibrous Glass	

Lab No.: 7072872 Client No.: WMC920-A111	Analyst Observation: Black Stair Tread Client Description: Black Rubber Stair Tread With Brown Mastic	Location: 1974 Era, Base Of Stairs Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Analyst: Michael Moore

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072872(L2)	Analyst Observation: Brown Mastic	Location: 1974 Era, Base Of Stairs
Client No.: WMC920-A111	Client Description: Black Rubber Stair Tread With Brown Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Cellulose	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7072873	Analyst Observation: Black Stair Tread	Location: 1974 Era, Base Of Stairs
Client No.: WMC920-A112	Client Description: Black Rubber Stair Stringer With Brown Mastic	Facility:
<u>Percent Asbestos:</u> <i>PC 1 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 99


Lab No.: 7072873(L2)	Analyst Observation: Brown Mastic	Location: 1974 Era, Base Of Stairs
Client No.: WMC920-A112	Client Description: Black Rubber Stair Stringer With Brown Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 3 Talc	<u>Percent Non-Fibrous Material:</u> 97

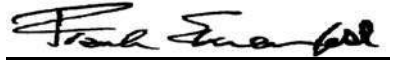
Lab No.: 7072874	Analyst Observation: Black Undercoating	Location: 1974 Era, Break Rm 9, Stainless Steel Sink
Client No.: WMC920-A113	Client Description: Black Sink Undercoating	Facility:
<u>Percent Asbestos:</u> <i>PC 2.6 Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 97.4

Lab No.: 7072875	Analyst Observation: White/Brown Flooring	Location: 1974 Era, Restroom 12, At Cleanout
Client No.: WMC920-A114	Client Description: Marlite And Brown Mastic	Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 80 Cellulose	<u>Percent Non-Fibrous Material:</u> 20

Lab No.: 7072875(L2)	Analyst Observation: Brown Mastic	Location: 1974 Era, Restroom 12, At Cleanout
Client No.: WMC920-A114	Client Description: Marlite And Brown Mastic	Facility:
<u>Percent Asbestos:</u> <i>PC Trace Chrysotile</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072876 Client No.: WMC920-A115	Analyst Observation: White Insulation Client Description: White, Chalky Fire Door Insulation	Location: 1974 Era, Door Between Back Hallway And Laundry 15, UL Listed 1.5 Hour Rating Facility: Percent Non-Fibrous Material: 40
<u>Percent Asbestos:</u> 60 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072877 Client No.: WMC920-A116	Analyst Observation: Red Sealant Client Description: Red Duct Sealant	Location: 1974 Era, Mech/Fan Rm 3, On Mixing Side Of Plenum Wall Facility: Percent Non-Fibrous Material: 84.8
<u>Percent Asbestos:</u> PC 5.2 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Talc	


Lab No.: 7072878 Client No.: WMC920-A117	Analyst Observation: Red Sealant Client Description: Red Duct Sealant	Location: 1974 Era, Mech/Fan Rm 3, At Bar Steel Flange Facility: Percent Non-Fibrous Material: 85
<u>Percent Asbestos:</u> PC 5.0 Chrysotile	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Talc	

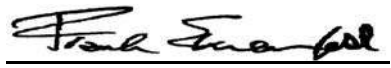
Lab No.: 7072879 Client No.: WMC920-A118	Analyst Observation: Grey Sealant Client Description: Gray Sealant At Fan Sections	Location: 1974 Era, Mech/Fan Rm 3, Fan 10013 Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

Lab No.: 7072880 Client No.: WMC920-A119	Analyst Observation: Black Duct Material Client Description: Ventglas Black Neoprene Duct Flexible Connector	Location: 1974 Era, Mech/Fan Rm 3, Outlet Side Of Squirrel Fan Facility: Percent Non-Fibrous Material: 85
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 15 Fibrous Glass	

Lab No.: 7072881 Client No.: WMC920-A120	Analyst Observation: Grey Grout Client Description: Gray Ceramic Tile Grout	Location: 1974 Era, Restroom 12, Loose Grout In Crack In Base By Door Facility: Percent Non-Fibrous Material: 100
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	

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Approved By: 
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Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated 11901 Business Blvd., Ste 208 Eagle River AK 99577	Report Date: 10/7/2020 Report No.: 620590 - PLM Project: Wrangell Medical Center Project No.: 7795-02
Client: EHS511	

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7072882 Client No.: WMC920-A121	Analyst Observation: Tan Ceiling Tile Client Description: GCT-1, 12x12 Glued On Ceiling Tile, Groove For Concealed Grid, Directional Medium Fissures, 1/16" Ho	Location: 1974 Era, Hallway 6, At Speaker Box Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Fibrous Glass 30 Cellulose	<u>Percent Non-Fibrous Material:</u> 20

Lab No.: 7072882(L2) Client No.: WMC920-A121	Analyst Observation: Brown Mastic Client Description: GCT-1, 12x12 Glued On Ceiling Tile, Groove For Concealed Grid, Directional Medium Fissures, 1/16" Ho	Location: 1974 Era, Hallway 6, At Speaker Box Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 2 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 98

Lab No.: 7072883 Client No.: WMC920-A122	Analyst Observation: Black/Red Lining Client Description: Black Tarry Lining Of Red Speaker Box	Location: 1974 Era, Hallway 6, At Speaker Box Facility:
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 30 Cellulose 15 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 55

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Date Received: 10/5/2020
Date Analyzed: 10/07/2020
Signature:
Analyst: Michael Moore

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

Appendix to Analytical Report

Customer Contact: Cali Swatowski

Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, and USEPA 600, R93-116 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: wchampion@iatl.com

iATL Account Representative: Semih Kocahasan

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Bulk Building Materials

Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

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

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

Client: EHS511

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
- 16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: "ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite."

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Client: EHS511

Report Date: 10/7/2020
Report No.: 620590 - PLM
Project: Wrangell Medical Center
Project No.: 7795-02

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.

**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

APPENDIX B

Lead Analyzer Test Results

LEAD ANALYZER TEST RESULTS

Heuresis Pb200i, Serial No. 1770

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
READINGS PRIOR TO 216 ARE FROM A DIFFERENT FACILITY AND NOT INCLUDED HERE													
216	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 19:14:50	POSITIVE	1	0.1
217	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 19:15:22	POSITIVE	1	0.1
218	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 19:15:35	POSITIVE	1	0.1
219	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	DOOR FRAME	METAL	INTACT	BROWN	5.73	9/17/20 19:23:27	NEGATIVE	0.16	0.12
220	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	DOOR	WOOD	INTACT	BROWN	5.85	9/17/20 19:26:51	NEGATIVE	0.05	0.12
221	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WINDOW CASING	WOOD	INTACT	BROWN	1.57	9/17/20 19:29:17	NEGATIVE	0.35	0.24
222	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	TANK	METAL	INTACT	RED	2.81	9/17/20 19:31:42	NEGATIVE	0.24	0.18
223	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	BOLLARD	METAL	INTACT	YELLOW	5.94	9/17/20 19:32:56	NEGATIVE	0.09	0.12
224	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WALL	METAL	INTACT	RED	5.84	9/17/20 19:34:30	NEGATIVE	0.15	0.12
225	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	DOOR	METAL	INTACT	BROWN	4.33	9/17/20 19:37:28	NEGATIVE	0.03	0.14
226	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	EQUIPMENT	METAL	INTACT	BEIGE	4.79	9/17/20 19:38:37	NEGATIVE	0.1	0.14
227	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	BOLLARD	METAL	INTACT	RED	4.95	9/17/20 19:41:09	NEGATIVE	0.06	0.13
228	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WALL	METAL	INTACT	RED	6.44	9/17/20 19:43:11	NEGATIVE	-0.19	0.12
229	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	EQUIPMENT	METAL	INTACT	WHITE	5.63	9/17/20 19:45:17	NEGATIVE	0.08	0.13
230	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WALL	EFIS	INTACT	DK BROWN	5.96	9/17/20 19:47:35	NEGATIVE	0.11	0.12
231	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WALL	EFIS	INTACT	DK BROWN	5.68	9/17/20 19:49:02	NEGATIVE	0.11	0.13
232	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	DOOR	WOOD	INTACT	DK BROWN	5.95	9/17/20 19:50:06	NEGATIVE	0.12	0.12
233	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	EXTERIOR	WALL	EFIS	INTACT	BEIGE	5.16	9/17/20 19:51:36	NEGATIVE	0.14	0.13
234	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	EXTERIOR	WALL	CONCRETE	INTACT	BEIGE	5.43	9/17/20 19:53:02	NEGATIVE	0.11	0.13
235	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	EXTERIOR	BEAM	WOOD	INTACT	BROWN	6.13	9/17/20 19:55:20	NEGATIVE	0.07	0.12
236	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	EXTERIOR	COLUMN	EFIS	INTACT	BEIGE	5.65	9/17/20 19:58:05	NEGATIVE	0.05	0.13
237	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	EXTERIOR	PIPE	METAL	INTACT	RED	6.01	9/17/20 20:00:56	NEGATIVE	0.09	0.12
238	WRANGELL MEDICAL CENTER	FRENCH	FIRST	95	DOOR FRAME	WOOD	INTACT	VARNISH	5.91	9/17/20 20:03:48	NEGATIVE	0.04	0.12
239	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	WINDOW CASING	METAL	INTACT	BROWN	5.65	9/17/20 20:05:14	NEGATIVE	0.43	0.13
240	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	COLUMN	EFIS	INTACT	BEIGE	5.88	9/17/20 20:07:17	NEGATIVE	0.17	0.12
241	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	DOOR	WOOD	INTACT	BROWN	5.92	9/17/20 20:09:34	NEGATIVE	0.02	0.12
242	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	FASCIA	EFIS	INTACT	BLACK	2.89	9/17/20 20:57:37	NEGATIVE	0.11	0.18
243	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	FASCIA	WOOD	INTACT	BEIGE	6.74	9/17/20 20:59:41	NEGATIVE	0.15	0.12
244	WRANGELL MEDICAL CENTER	FRENCH	FIRST	EXTERIOR	FASCIA	DRYWALL	INTACT	BEIGE	5.86	9/17/20 21:00:46	NEGATIVE	0.13	0.12
245	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 21:04:51	POSITIVE	1	0.1
246	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 21:05:03	POSITIVE	1	0.1
247	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/17/20 21:05:16	POSITIVE	1	0.1
READINGS 248 THRU 280 ARE FROM A DIFFERENT FACILITY AND NOT INCLUDED HERE													
281	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/18/20 12:41:39	POSITIVE	1	0.1
282	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/18/20 12:41:51	POSITIVE	1	0.1
283	WRANGELL MEDICAL CENTER	FRENCH	-	-	CALIBRATION	-	-	GREEN	5	9/18/20 12:42:03	POSITIVE	1	0.1
284	WRANGELL MEDICAL CENTER	FRENCH	FIRST	22	WALL	DRYWALL	INTACT	WHITE	2	9/18/20 12:43:22	NEGATIVE	0.2	0.3
285	WRANGELL MEDICAL CENTER	FRENCH	FIRST	22	CABINET	FORMICA	INTACT	BEIGE	5.49	9/18/20 12:44:22	NEGATIVE	0.13	0.13
286	WRANGELL MEDICAL CENTER	FRENCH	FIRST	22	DOOR FRAME	METAL	INTACT	BEIGE	5.27	9/18/20 12:45:54	NEGATIVE	0.09	0.13
287	WRANGELL MEDICAL CENTER	FRENCH	FIRST	27	DOOR FRAME	METAL	INTACT	GRAY	4.77	9/18/20 12:47:45	NEGATIVE	0.5	0.14
288	WRANGELL MEDICAL CENTER	FRENCH	FIRST	27	DOOR	WOOD	INTACT	VARNISH	5.49	9/18/20 12:48:57	NEGATIVE	0.03	0.13
289	WRANGELL MEDICAL CENTER	FRENCH	FIRST	26	LOCKER	METAL	INTACT	BLUE	5.64	9/18/20 12:51:43	NEGATIVE	0.09	0.13
290	WRANGELL MEDICAL CENTER	FRENCH	FIRST	26	WALL	DRYWALL	INTACT	WHITE	5.82	9/18/20 12:53:12	NEGATIVE	0.22	0.12
291	WRANGELL MEDICAL CENTER	FRENCH	FIRST	23	DOOR	METAL	INTACT	BROWN	6.6	9/18/20 12:55:42	NEGATIVE	0.11	0.12
292	WRANGELL MEDICAL CENTER	FRENCH	FIRST	23	DOOR FRAME	WOOD	INTACT	WHITE	6.02	9/18/20 12:56:12	NEGATIVE	0.1	0.12
293	WRANGELL MEDICAL CENTER	FRENCH	FIRST	24	WALL	DRYWALL	INTACT	WHITE	5.51	9/18/20 12:58:02	NEGATIVE	0.11	0.13
294	WRANGELL MEDICAL CENTER	FRENCH	FIRST	24	FLOOR	CONCRETE	INTACT	GRAY	5.6	9/18/20 12:59:09	NEGATIVE	0.21	0.13
295	WRANGELL MEDICAL CENTER	FRENCH	FIRST	25	DOOR	WOOD	INTACT	YELLOW	3.72	9/18/20 13:01:30	NEGATIVE	0.09	0.16
296	WRANGELL MEDICAL CENTER	FRENCH	FIRST	25	HAND RAIL	WOOD	INTACT	WHITE	6.18	9/18/20 13:03:23	NEGATIVE	0.07	0.12
297	WRANGELL MEDICAL CENTER	FRENCH	FIRST	25	BEAM	METAL	INTACT	WHITE	5.51	9/18/20 13:05:01	NEGATIVE	0.14	0.13
298	WRANGELL MEDICAL CENTER	FRENCH	SECOND	25	WALL	DRYWALL	INTACT	WHITE	5.45	9/18/20 13:06:26	NEGATIVE	0.09	0.13
299	WRANGELL MEDICAL CENTER	FRENCH	SECOND	25	WALL	DRYWALL	INTACT	WHITE	5.48	9/18/20 13:08:20	NEGATIVE	0.13	0.13

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
300	WRANGELL MEDICAL CENTER	FRENCH	SECOND	29	COUNTERTOP	WOOD	INTACT	GRAY	6.45	9/18/20 13:12:38	NEGATIVE	0.12	0.12
301	WRANGELL MEDICAL CENTER	FRENCH	FIRST	29	DOOR	METAL	INTACT	BLACK	5.3	9/18/20 13:13:53	NEGATIVE	0.36	0.13
302	WRANGELL MEDICAL CENTER	FRENCH	FIRST	29	WALL	DRYWALL	INTACT	WHITE	5.61	9/18/20 13:21:20	NEGATIVE	0.11	0.13
303	WRANGELL MEDICAL CENTER	FRENCH	FIRST	30 (IN HALLWAY)	WALL	DRYWALL	INTACT	WHITE	5.26	9/18/20 13:25:18	NEGATIVE	0.14	0.13
304	WRANGELL MEDICAL CENTER	FRENCH	FIRST	30	WALL	DRYWALL	INTACT	WHITE	6	9/18/20 13:26:52	NEGATIVE	0.16	0.12
305	WRANGELL MEDICAL CENTER	FRENCH	FIRST	30	PIPE	METAL	INTACT	GREEN	5.23	9/18/20 13:27:58	NEGATIVE	0.09	0.13
306	WRANGELL MEDICAL CENTER	FRENCH	FIRST	30	PIPE	METAL	INTACT	BLUE	4.08	9/18/20 13:28:55	NEGATIVE	0.1	0.15
307	WRANGELL MEDICAL CENTER	FRENCH	FIRST	30	PIPE	METAL	INTACT	RED	4.81	9/18/20 13:29:54	NEGATIVE	0.16	0.14
308	WRANGELL MEDICAL CENTER	FRENCH	FIRST	34 (IN HALLWAY)	WALL	DRYWALL	INTACT	GREEN	1.93	9/18/20 13:32:01	NEGATIVE	0.09	0.22
309	WRANGELL MEDICAL CENTER	FRENCH	FIRST	31 (IN HALLWAY)	WALL	DRYWALL	INTACT	WHITE	5.58	9/18/20 13:33:34	NEGATIVE	0.17	0.13
310	WRANGELL MEDICAL CENTER	FRENCH	FIRST	115	RADIATOR	METAL	INTACT	WHITE	5.91	9/18/20 13:35:29	NEGATIVE	0.13	0.12
311	WRANGELL MEDICAL CENTER	FRENCH	FIRST	115	WINDOW CASING	WOOD	INTACT	VARNISH	5.65	9/18/20 13:36:47	NEGATIVE	0	0.13
312	WRANGELL MEDICAL CENTER	FRENCH	FIRST	115	COUNTERTOP	FORMICA	INTACT	BEIGE	5.78	9/18/20 13:37:54	NEGATIVE	0.16	0.12
313	WRANGELL MEDICAL CENTER	FRENCH	FIRST	108	FLOOR	CONCRETE	INTACT	GRAY	5.55	9/18/20 13:41:18	NEGATIVE	0.21	0.13
314	WRANGELL MEDICAL CENTER	FRENCH	FIRST	108	ELECTRICAL PANEL	METAL	INTACT	GRAY	5.55	9/18/20 13:42:07	NEGATIVE	0.14	0.13
315	WRANGELL MEDICAL CENTER	FRENCH	FIRST	109	SINK	CERAMIC	INTACT	WHITE	5.62	9/18/20 13:49:27	POSITIVE	21.34	0.13
316	WRANGELL MEDICAL CENTER	FRENCH	FIRST	109	DOOR	WOOD	INTACT	VARNISH	6.16	9/18/20 13:50:24	NEGATIVE	0.08	0.12
317	WRANGELL MEDICAL CENTER	FRENCH	FIRST	114	WALL	VINYL	INTACT	BEIGE	5.75	9/18/20 14:05:19	NEGATIVE	0.1	0.12
318	WRANGELL MEDICAL CENTER	FRENCH	FIRST	114	COUNTERTOP	FORMICA	INTACT	BEIGE	5.5	9/18/20 14:07:37	NEGATIVE	0.23	0.13
319	WRANGELL MEDICAL CENTER	FRENCH	FIRST	35	COUNTERTOP	FORMICA	INTACT	BEIGE	5.75	9/18/20 14:10:06	NEGATIVE	0.06	0.12
320	WRANGELL MEDICAL CENTER	FRENCH	FIRST	35	WALL	DRYWALL	INTACT	BEIGE	5.7	9/18/2020 14:11	NEGATIVE	0.3	0.13
321	WRANGELL MEDICAL CENTER	FRENCH	FIRST	35	CABINET	FORMICA	INTACT	OFF-WHITE	5.64	9/18/20 14:12:53	NEGATIVE	0.18	0.13
322	WRANGELL MEDICAL CENTER	FRENCH	FIRST	37	WALL	FRP	INTACT	WHITE	5.62	9/18/20 14:15:13	NEGATIVE	0.13	0.13
323	WRANGELL MEDICAL CENTER	FRENCH	FIRST	38	DOOR FRAME	METAL	INTACT	WHITE	5.58	9/18/20 14:16:55	NEGATIVE	0.09	0.13
324	WRANGELL MEDICAL CENTER	FRENCH	FIRST	35 (IN HALLWAY)	LADDER	METAL	INTACT	WHITE	5.57	9/18/20 14:18:25	NEGATIVE	0.21	0.13
325	WRANGELL MEDICAL CENTER	FRENCH	FIRST	38 (IN HALLWAY)	DOOR FRAME	METAL	INTACT	BEIGE	5.71	9/18/20 14:19:51	NEGATIVE	0.11	0.13
326	WRANGELL MEDICAL CENTER	FRENCH	FIRST	103	WALL	METAL	INTACT	WHITE	5.44	9/18/20 14:21:34	NEGATIVE	0.14	0.13
327	WRANGELL MEDICAL CENTER	FRENCH	FIRST	132	WALL	DRYWALL	INTACT	RED	3.3	9/18/20 14:34:18	NEGATIVE	0.3	0.16
328	WRANGELL MEDICAL CENTER	FRENCH	FIRST	125	WALL	DRYWALL	INTACT	BLUE	5.36	9/18/20 14:35:15	NEGATIVE	0.11	0.13
329	WRANGELL MEDICAL CENTER	FRENCH	FIRST	125	DOOR	METAL	INTACT	BLACK	5.63	9/18/20 14:36:10	NEGATIVE	0.07	0.13
330	WRANGELL MEDICAL CENTER	FRENCH	FIRST	136 (IN HALLWAY)	CABINET	FORMICA	INTACT	BEIGE	6.58	9/18/20 14:41:13	NEGATIVE	0.18	0.12
331	WRANGELL MEDICAL CENTER	FRENCH	FIRST	136	WALL	VINYL	INTACT	OFF-WHITE	4.26	9/18/20 14:42:34	NEGATIVE	0.2	0.14
332	WRANGELL MEDICAL CENTER	FRENCH	FIRST	137	RADIATOR	METAL	INTACT	TAN	5.47	9/18/20 14:43:24	NEGATIVE	0.11	0.13
333	WRANGELL MEDICAL CENTER	FRENCH	FIRST	139 (IN HALLWAY)	DOOR	WOOD	INTACT	VARNISH	6.25	9/18/20 14:44:54	NEGATIVE	0.11	0.12
334	WRANGELL MEDICAL CENTER	FRENCH	FIRST	140	SINK	CERAMIC	INTACT	WHITE	5.25	9/18/20 14:46:36	NEGATIVE	0	0.13
335	WRANGELL MEDICAL CENTER	FRENCH	FIRST	135	DOOR FRAME	METAL	INTACT	PINK	4.9	9/18/20 14:48:08	NEGATIVE	0.22	0.14
336	WRANGELL MEDICAL CENTER	FRENCH	FIRST	135	WALL	FORMICA	INTACT	BEIGE	5.69	9/18/20 14:49:45	NEGATIVE	0.12	0.13
337	WRANGELL MEDICAL CENTER	FRENCH	FIRST	131	SINK	CERAMIC	INTACT	WHITE	3.83	9/18/20 14:52:10	POSITIVE	19.26	0.15
338	WRANGELL MEDICAL CENTER	FRENCH	FIRST	128	WALL	VINYL	INTACT	ORANGE	4.43	9/18/20 14:54:50	NEGATIVE	0.09	0.14
339	WRANGELL MEDICAL CENTER	FRENCH	FIRST	143	WALL	DRYWALL	INTACT	WHITE	5.45	9/18/20 14:58:09	NEGATIVE	0.11	0.13
340	WRANGELL MEDICAL CENTER	FRENCH	FIRST	144	WALL	DRYWALL	INTACT	GRAY	5.7	9/18/20 14:59:01	NEGATIVE	0.15	0.13
341	WRANGELL MEDICAL CENTER	FRENCH	FIRST	147	WALL	DRYWALL	INTACT	OFF-WHITE	4.14	9/18/20 15:02:36	NEGATIVE	0.15	0.15
342	WRANGELL MEDICAL CENTER	FRENCH	FIRST	147	DOOR	WOOD	INTACT	VARNISH	5.82	9/18/20 15:03:43	NEGATIVE	0.02	0.12
343	WRANGELL MEDICAL CENTER	FRENCH	FIRST	151	DOOR	METAL	INTACT	BLACK	5.67	9/18/20 15:05:12	NEGATIVE	0.09	0.13
344	WRANGELL MEDICAL CENTER	FRENCH	FIRST	141	CABINET	FORMICA	INTACT	PINK	5.68	9/18/20 15:06:30	NEGATIVE	0.25	0.13
345	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	21 (IN HALLWAY)	DOOR	METAL	INTACT	BEIGE	5.38	9/18/20 15:27:22	NEGATIVE	0.12	0.13
346	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	21	FLOOR	CONCRETE	INTACT	GRAY	5.81	9/18/20 15:41:48	NEGATIVE	0.19	0.12
347	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	1 (IN HALLWAY)	WALL	DRYWALL	INTACT	OFF-WHITE	5.16	9/18/20 15:43:04	NEGATIVE	0.25	0.13
348	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	20 (IN HALLWAY)	DOOR FRAME	METAL	INTACT	WHITE	5.47	9/18/20 15:43:54	NEGATIVE	0.5	0.13
349	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	2	COUNTERTOP	FORMICA	INTACT	BROWN	5.65	9/18/20 15:44:58	NEGATIVE	0.25	0.13
350	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	2	CABINET	FORMICA	INTACT	WHITE	5.47	9/18/20 15:45:34	NEGATIVE	0.18	0.13
351	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	2	WALL	DRYWALL	INTACT	PINK	6.34	9/18/20 15:46:27	NEGATIVE	0.36	0.12
352	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	1	WALL	DRYWALL	INTACT	PINK	6.03	9/18/20 15:48:22	NEGATIVE	0.15	0.12
353	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	167	WALL	MARLITE	INTACT	GREEN	5.97	9/18/20 15:49:44	NEGATIVE	0.19	0.12

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm ²	+/- ERROR
354	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	167	FLOOR	CONCRETE	INTACT	GRAY	5.62	9/18/20 15:50:50	NEGATIVE	0.26	0.13
355	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	3	DUCT	METAL	INTACT	PINK	5.44	9/18/20 15:53:42	NEGATIVE	0.11	0.13
356	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	3	DUCT	METAL	INTACT	GRAY	5.42	9/18/20 15:54:16	NEGATIVE	0.06	0.13
357	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	3	PIPE	METAL	INTACT	YELLOW	4.43	9/18/20 15:55:14	NEGATIVE	0.18	0.14
358	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	4	DOOR	METAL	INTACT	GRAY	5.5	9/18/20 15:57:48	NEGATIVE	0.06	0.13
359	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	4	WALL	DRYWALL	INTACT	OFF-WHITE	6.14	9/18/20 15:58:40	NEGATIVE	0.05	0.12
360	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	164	DOOR	WOOD	INTACT	VARNISH	5.85	9/18/20 16:00:28	NEGATIVE	0.04	0.12
361	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	165	WALL	DRYWALL	INTACT	TAN	5.64	9/18/20 16:02:58	NEGATIVE	0.2	0.13
362	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	164	WALL	WOOD	INTACT	OFF-WHITE	5.58	9/18/20 16:04:04	NEGATIVE	0.19	0.13
363	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	5	DOOR FRAME	METAL	INTACT	WHITE	2.68	9/18/20 16:05:26	NEGATIVE	0.13	0.18
364	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	5	WALL	DRYWALL	INTACT	RED	5.21	9/18/20 16:06:45	NEGATIVE	0.15	0.13
365	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	6	WALL	DRYWALL	INTACT	BLUE	3.23	9/18/20 16:08:46	NEGATIVE	0.17	0.17
366	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	7	WALL	DRYWALL	INTACT	BLUE	5.51	9/18/20 16:11:06	NEGATIVE	0.12	0.13
367	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	9	CABINET	FORMICA	INTACT	RED	6.14	9/18/20 16:12:51	NEGATIVE	0.43	0.12
368	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	14	CABINET	FORMICA	INTACT	RED	7.52	9/18/20 16:16:16	NEGATIVE	0.5	0.11
369	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	14	COUNTERTOP	FORMICA	INTACT	BROWN	5.74	9/18/20 16:17:29	NEGATIVE	0.15	0.12
370	WRANGELL MEDICAL CENTER	FRENCH	BASEMENT	37	COUNTERTOP	FORMICA	INTACT	WHITE	4.84	9/18/20 16:18:27	NEGATIVE	0.14	0.14

Table Heading Descriptions:

Duration: This is the nominal time in "source" seconds that each sample was analyzed.

LBP: Results are shown as positive (POS \geq 1.0 mg/cm²) or negative (NEG < 1.0 mg/cm²). Positive results are shown in bold print.

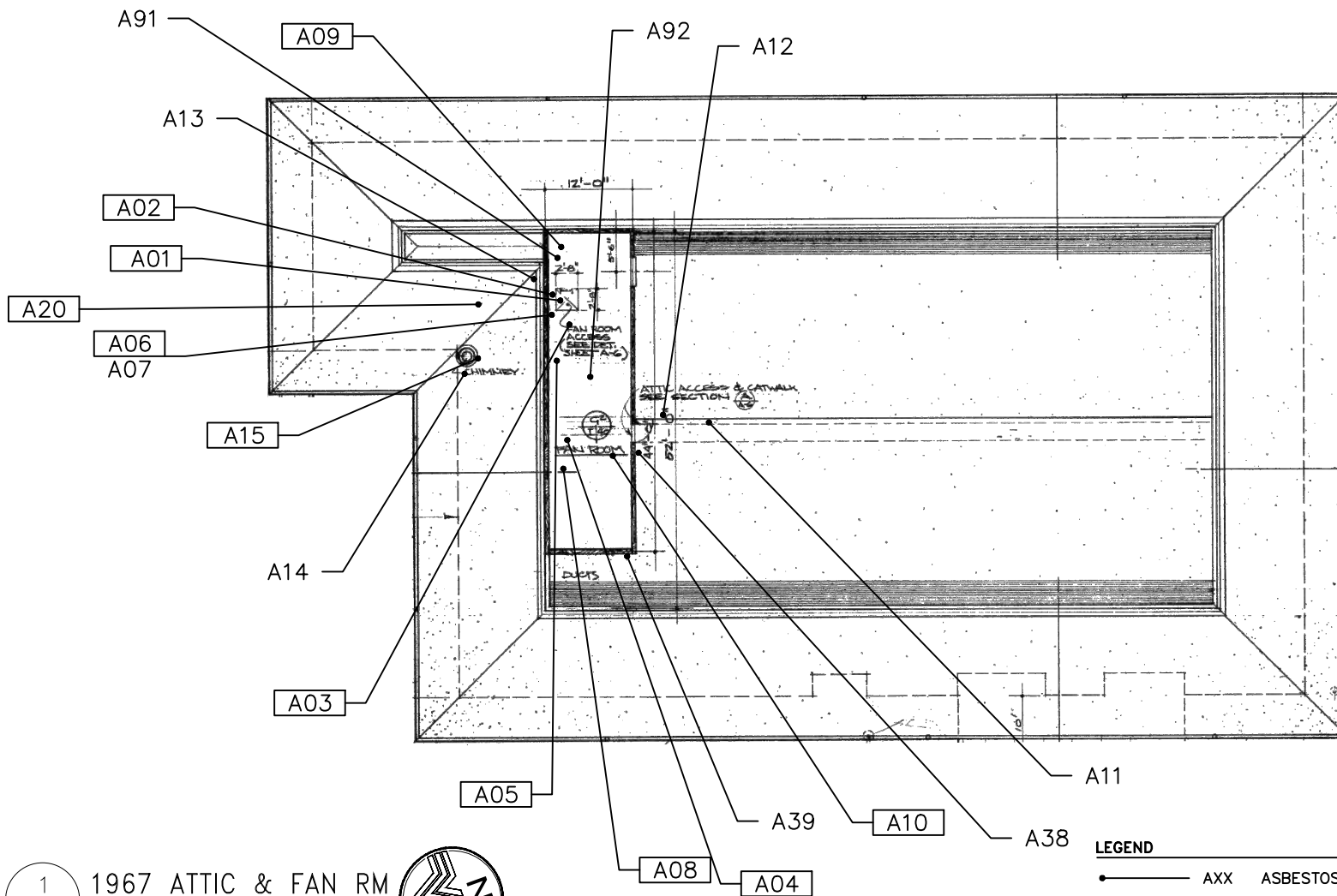
mg/cm²: This is the testing results produced by the Heuresis Pb200i instrument in milligrams of lead per square centimeter (mg/cm²). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm² or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm²) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

Substrate: Where ceramic is shown as a substrate, lead content is typically from the glazing on the tile unless the tile is painted.

APPENDIX C

Drawings of Sample Locations



1
C-1

1967 ATTIC & FAN RM
NTS



LEGEND

- — AXX ASBESTOS TEST LOCATION
- — [AXX] LAB TEST RESULTS POSITIVE FOR ASBESTOS

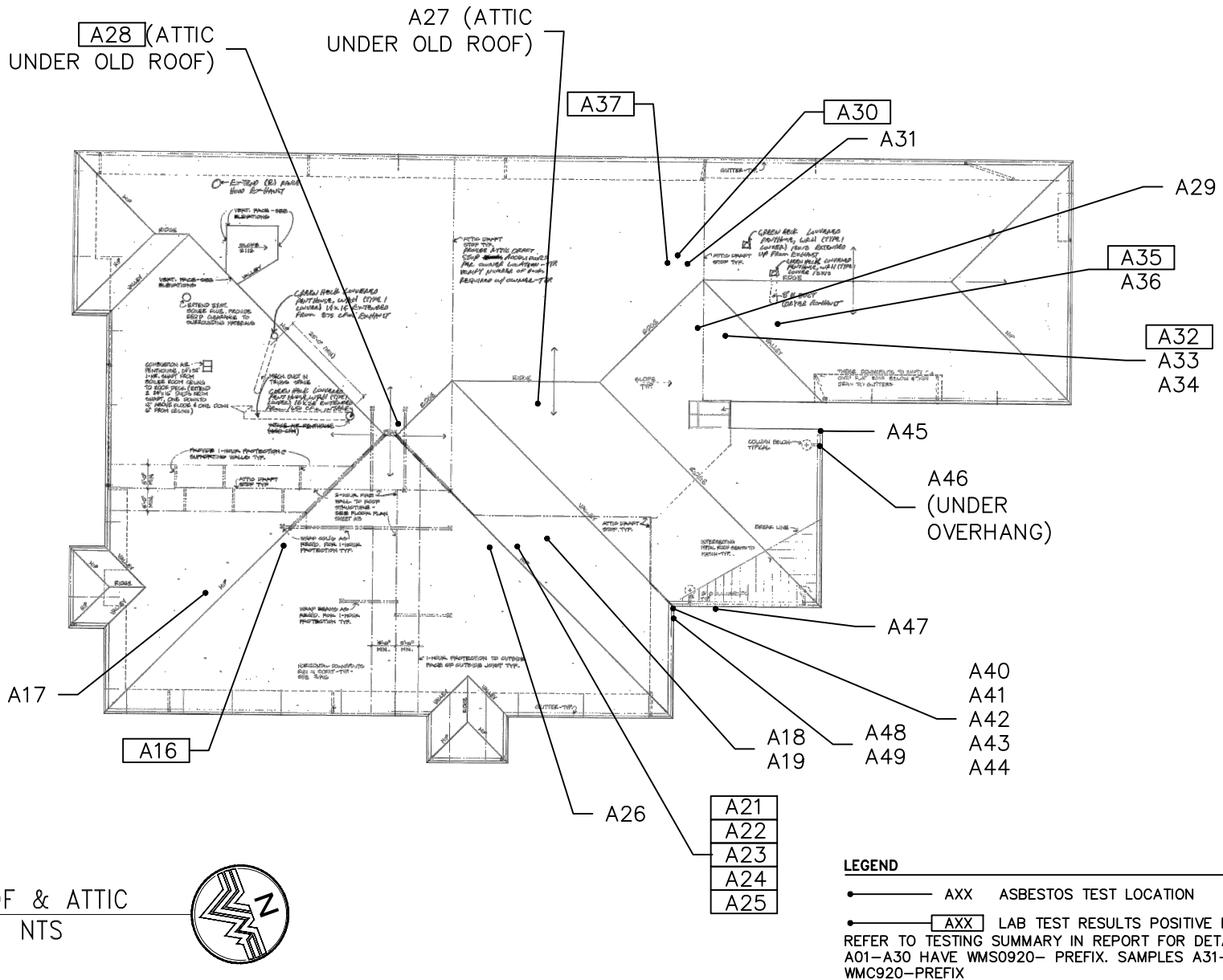
REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	
FILE #:	DWG.NO:
7795-03-SL	C-1



1
C-2

ROOF & ATTIC
NTS

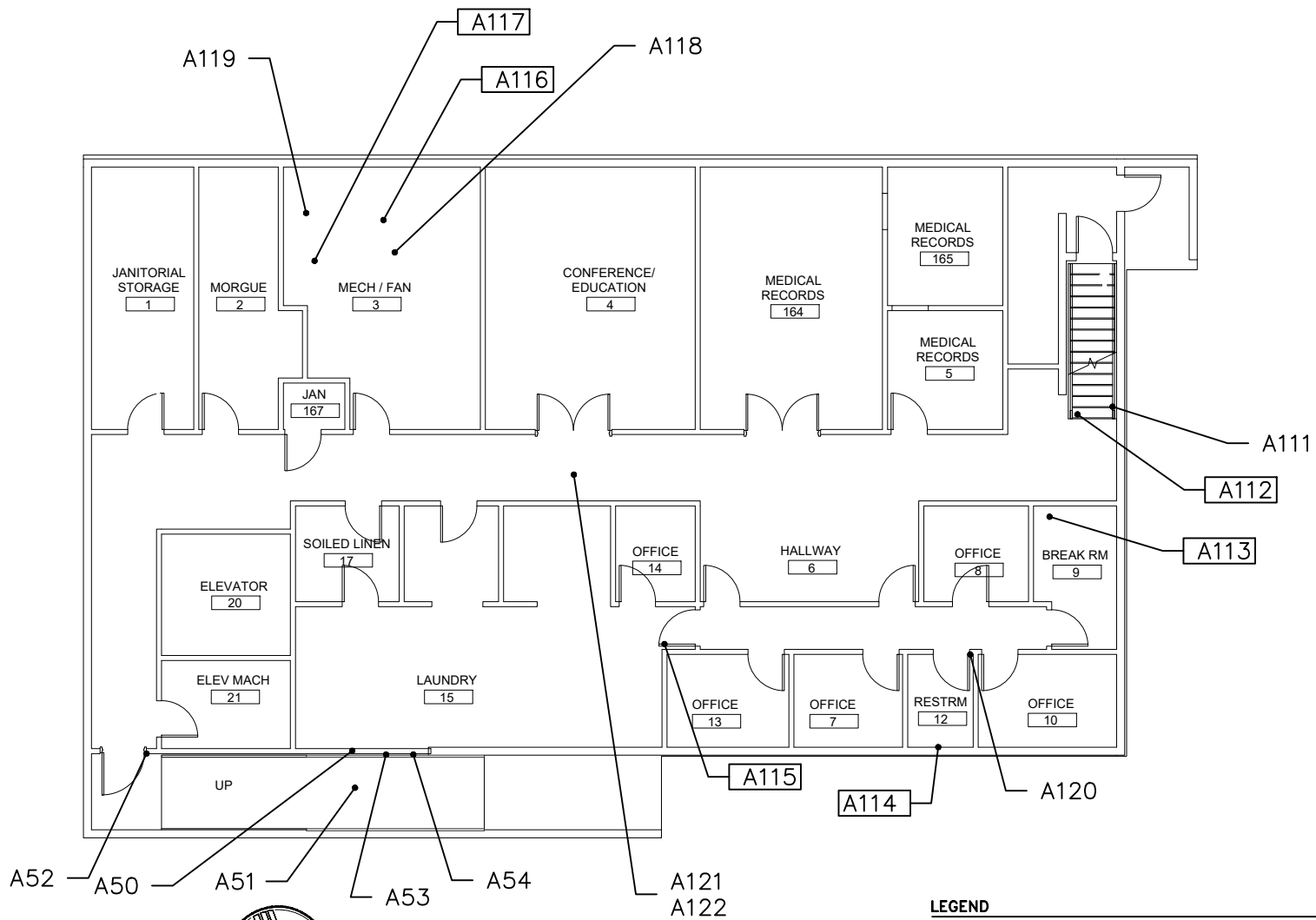


WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-2
FILE #: 7795-03-SL	



1
C-3

1974 ERA BASEMENT
NTS



LEGEND

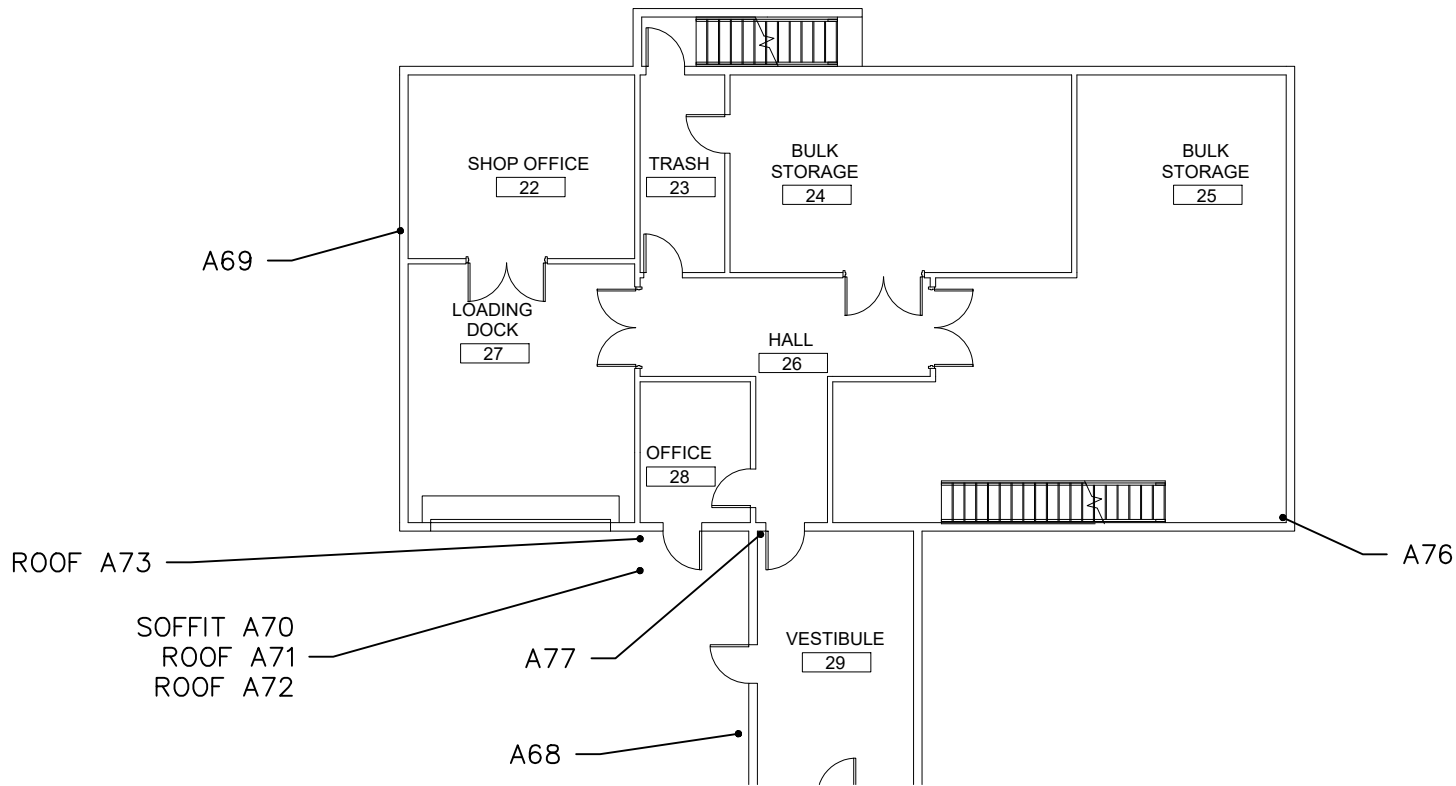
- — AXX ASBESTOS TEST LOCATION
- — AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES
A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE
WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-3
FILE #:	
7795-03-SL	



1
C-4

1992 ADDITION
NTS



LEGEND

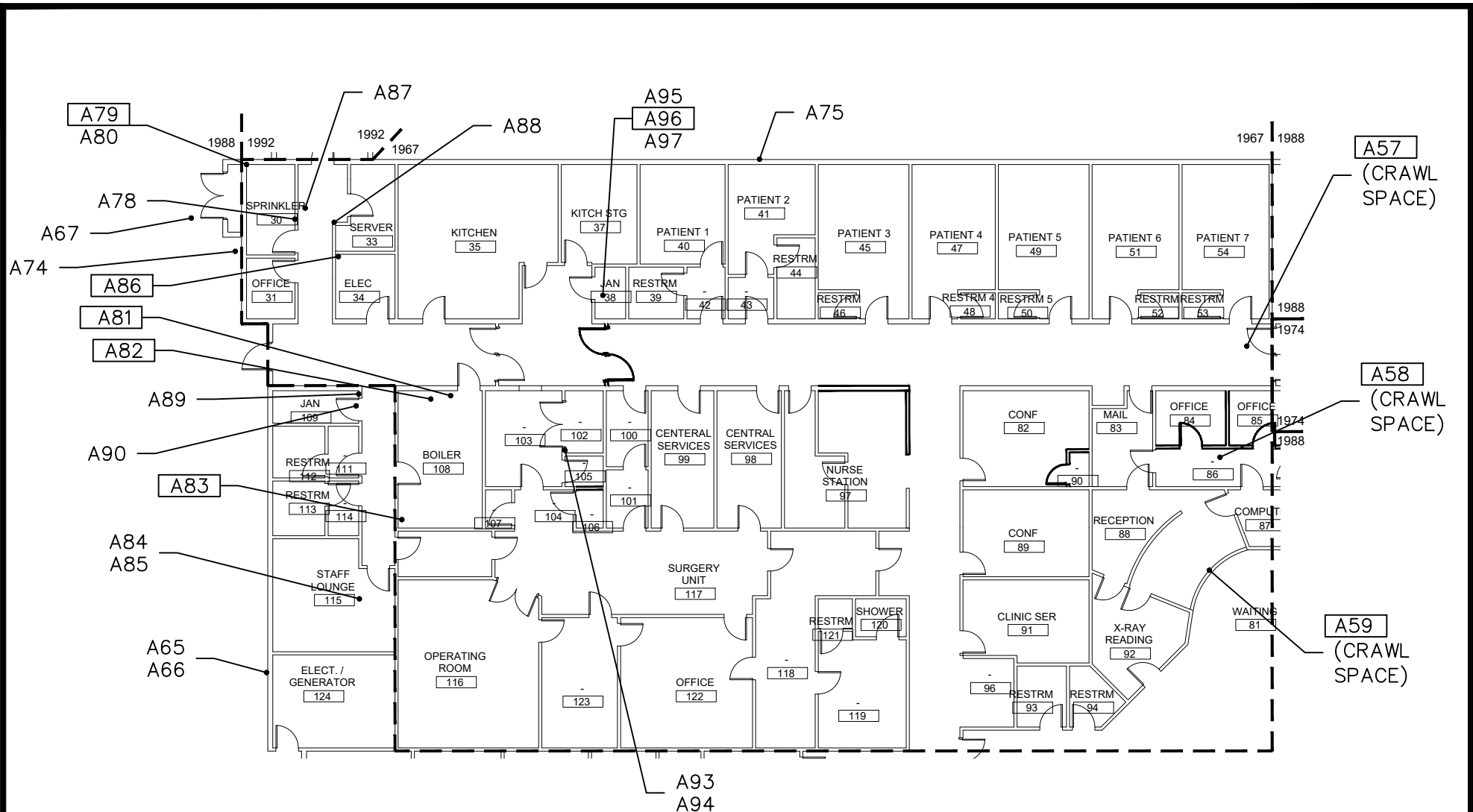
- AXX ASBESTOS TEST LOCATION
- AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS
REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES
A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE
WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	
FILE #:	DWG.NO:
7795-03-SL	C-4



1
C-5

FIRST FLOOR NORTH



LEGEND

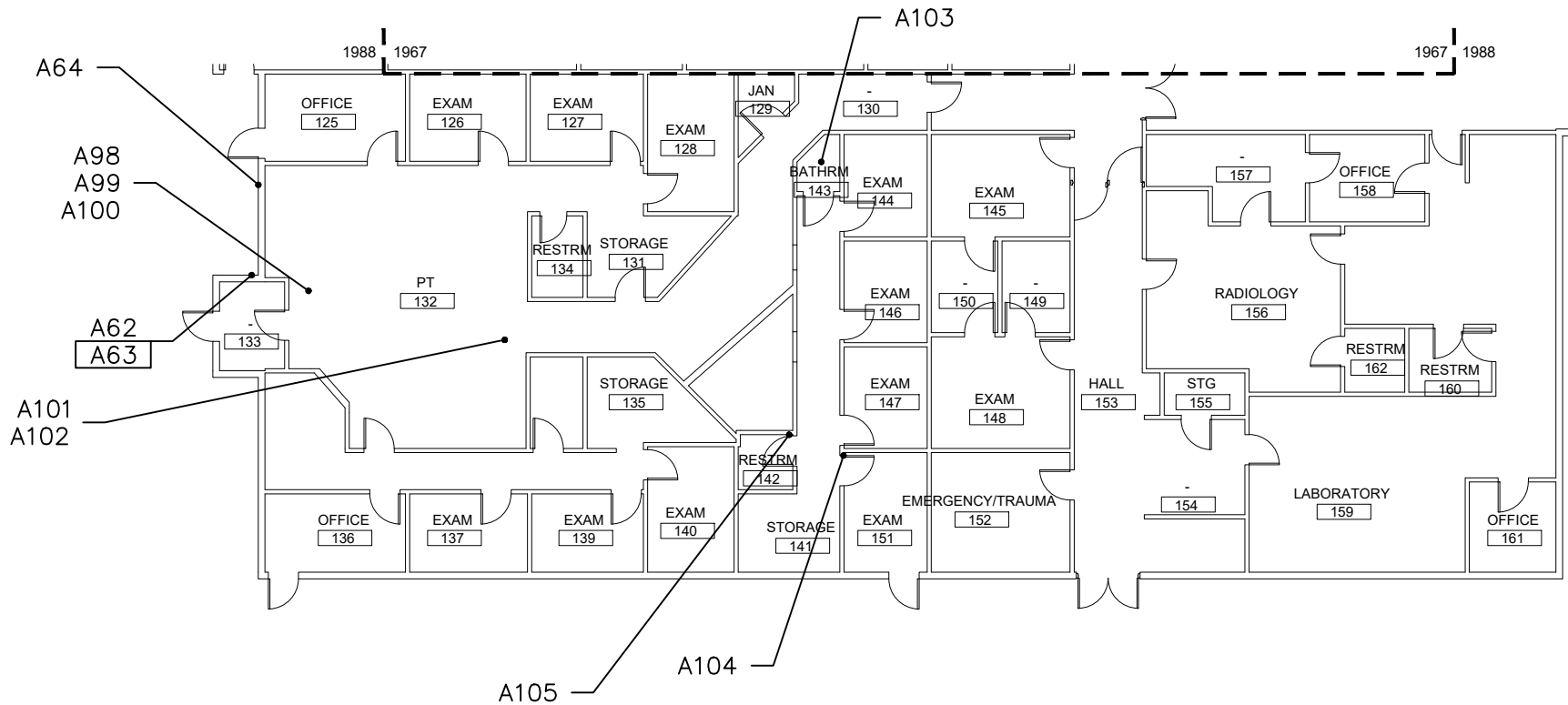
- — AXX ASBESTOS TEST LOCATION
 - — [AXX] LAB TEST RESULTS POSITIVE FOR ASBESTOS
- REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-5
FILE #:	
7795-03-SL	



1
C-6

FIRST FLOOR WEST
NTS



LEGEND

- — AXX ASBESTOS TEST LOCATION
- — [AXX] LAB TEST RESULTS POSITIVE FOR ASBESTOS
REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES
A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE
WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



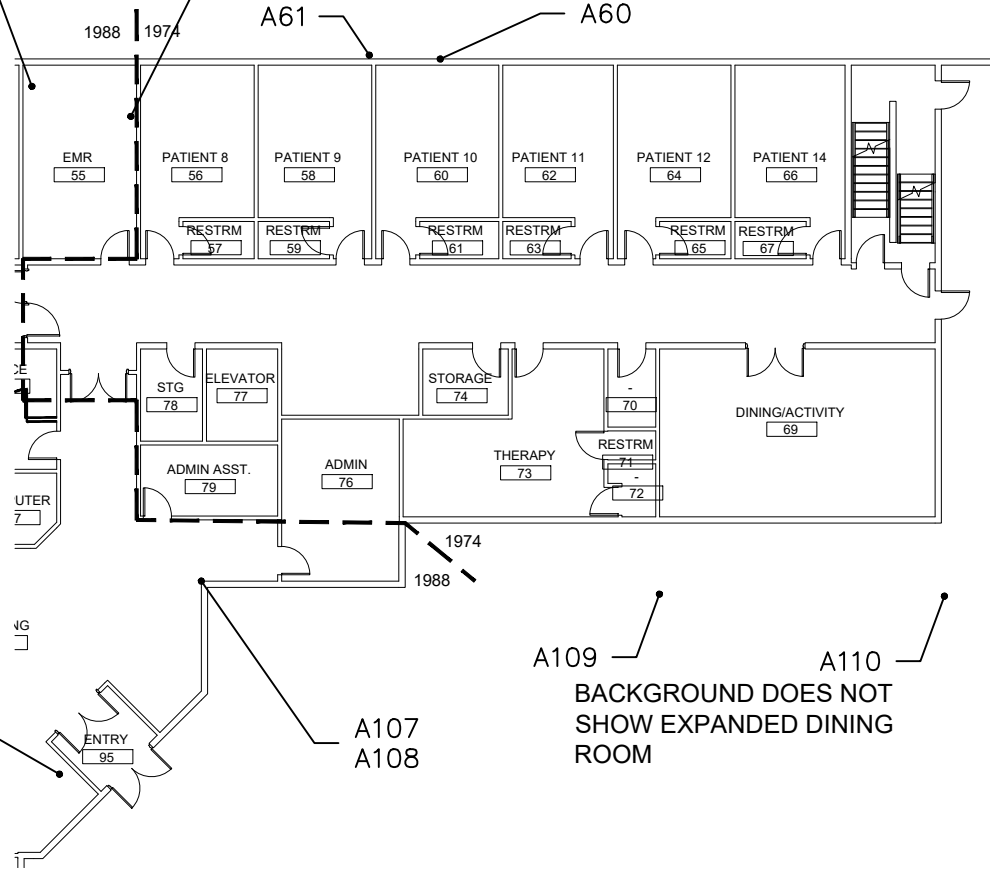
DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	
FILE #:	DWG.NO:
7795-03-SL	C-6

A56 (CRAWL SPACE)

A55 (CRAWL SPACE)

A61

A60



A106

A107
A108

A109

A110

BACKGROUND DOES NOT
SHOW EXPANDED DINING
ROOM

1
C-7

FIRST FLOOR SOUTH
NTS



LEGEND

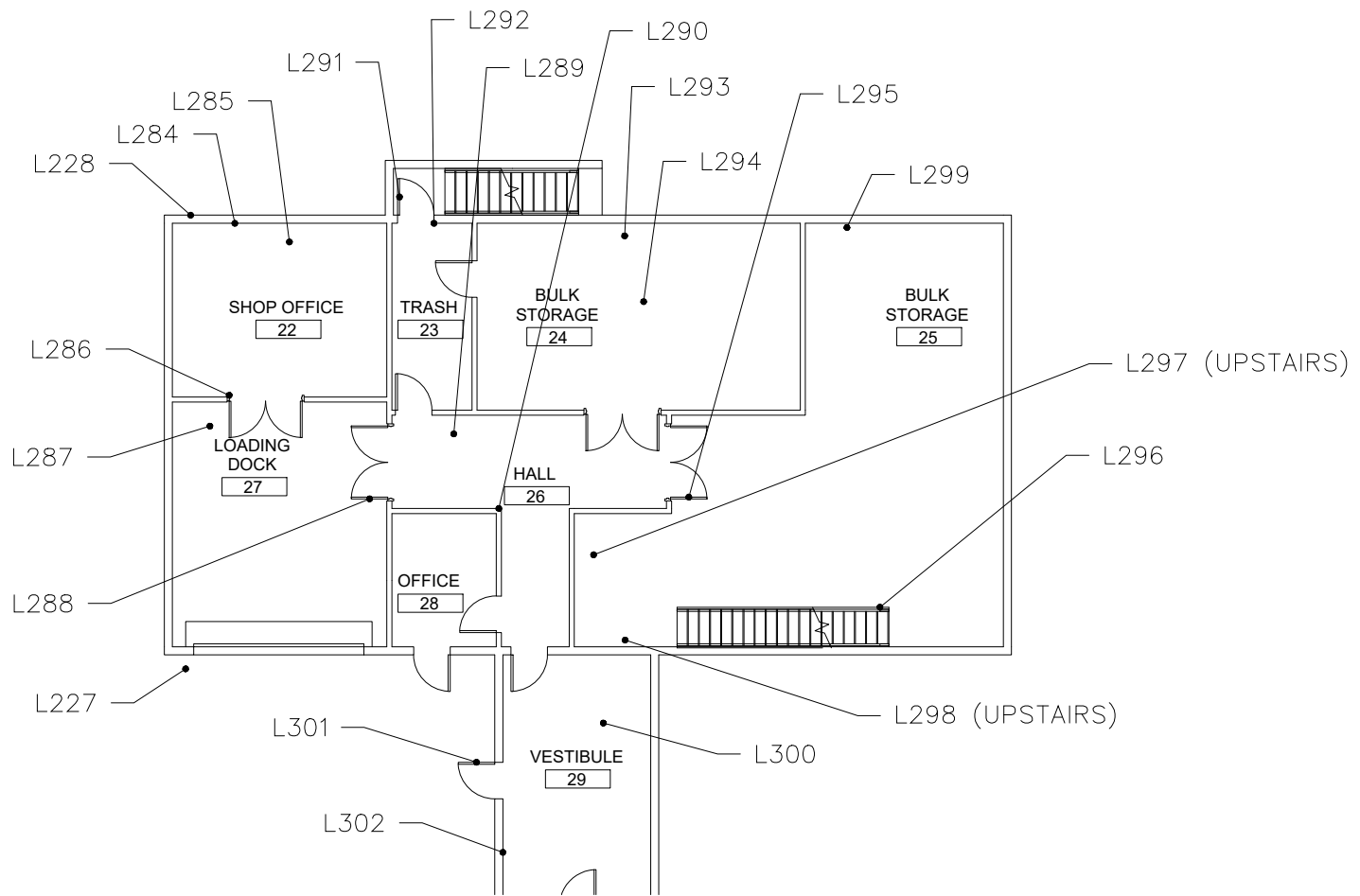
- — AXX ASBESTOS TEST LOCATION
- — [AXX] LAB TEST RESULTS POSITIVE FOR ASBESTOS
REFER TO TESTING SUMMARY IN REPORT FOR DETAILS. SAMPLES
A01-A30 HAVE WMS0920- PREFIX. SAMPLES A31-A122 HAVE
WMC920-PREFIX

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
ASBESTOS SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-7
FILE #:	
7795-03-SL	



1
C-8

1992 ADDITION
NTS



LEGEND

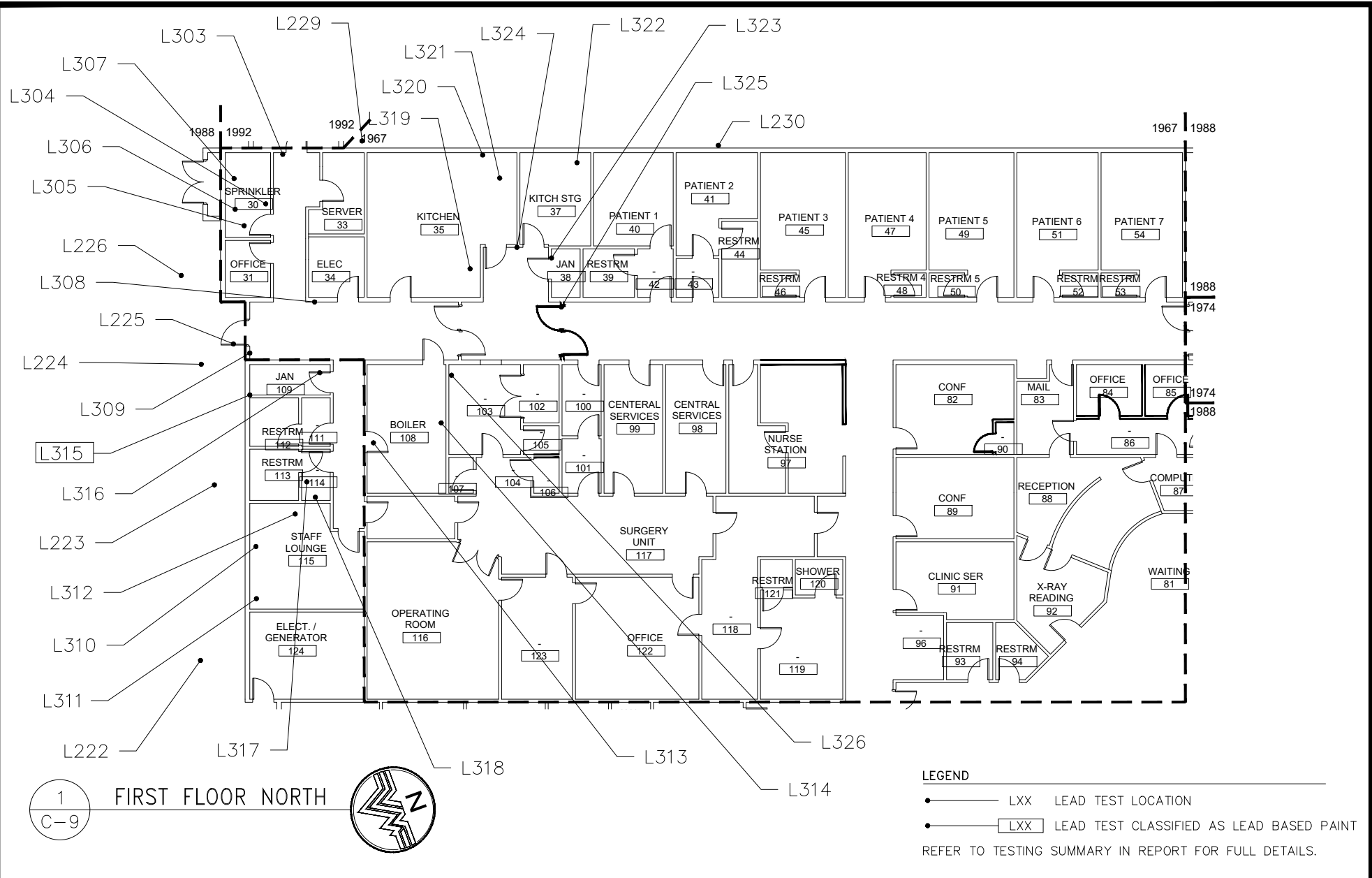
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	
FILE #:	DWG.NO:
7795-03-SL	C-8



1 FIRST FLOOR NORTH
C-9



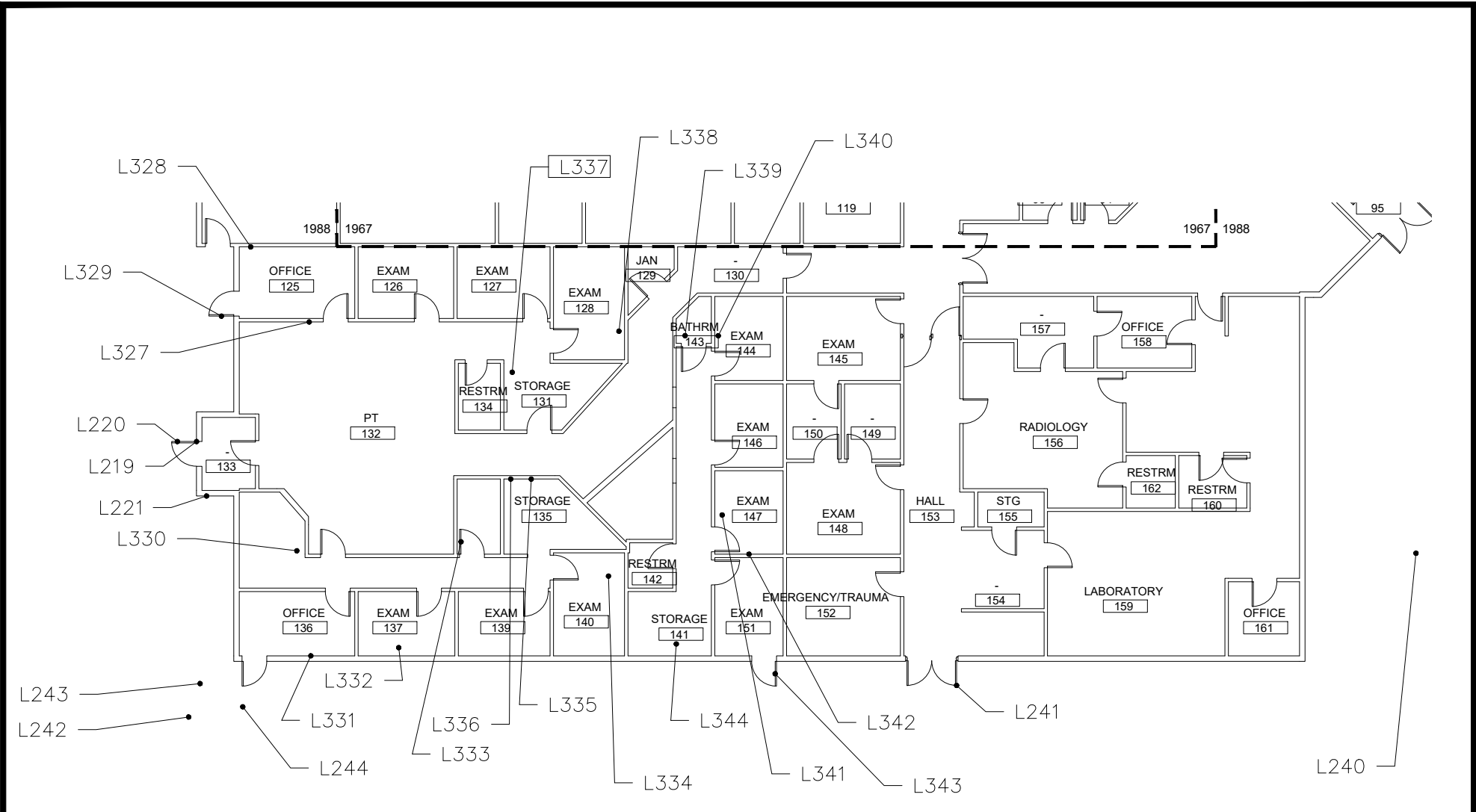
LEGEND
 ● LXX LEAD TEST LOCATION
 ■ LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
 REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

**WRANGELL
CAPITAL FACILITIES
DEPARTMENT**

**WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS**



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-9
FILE #:	
7795-03-SL	



1
C-10

FIRST FLOOR WEST
NTS



LEGEND

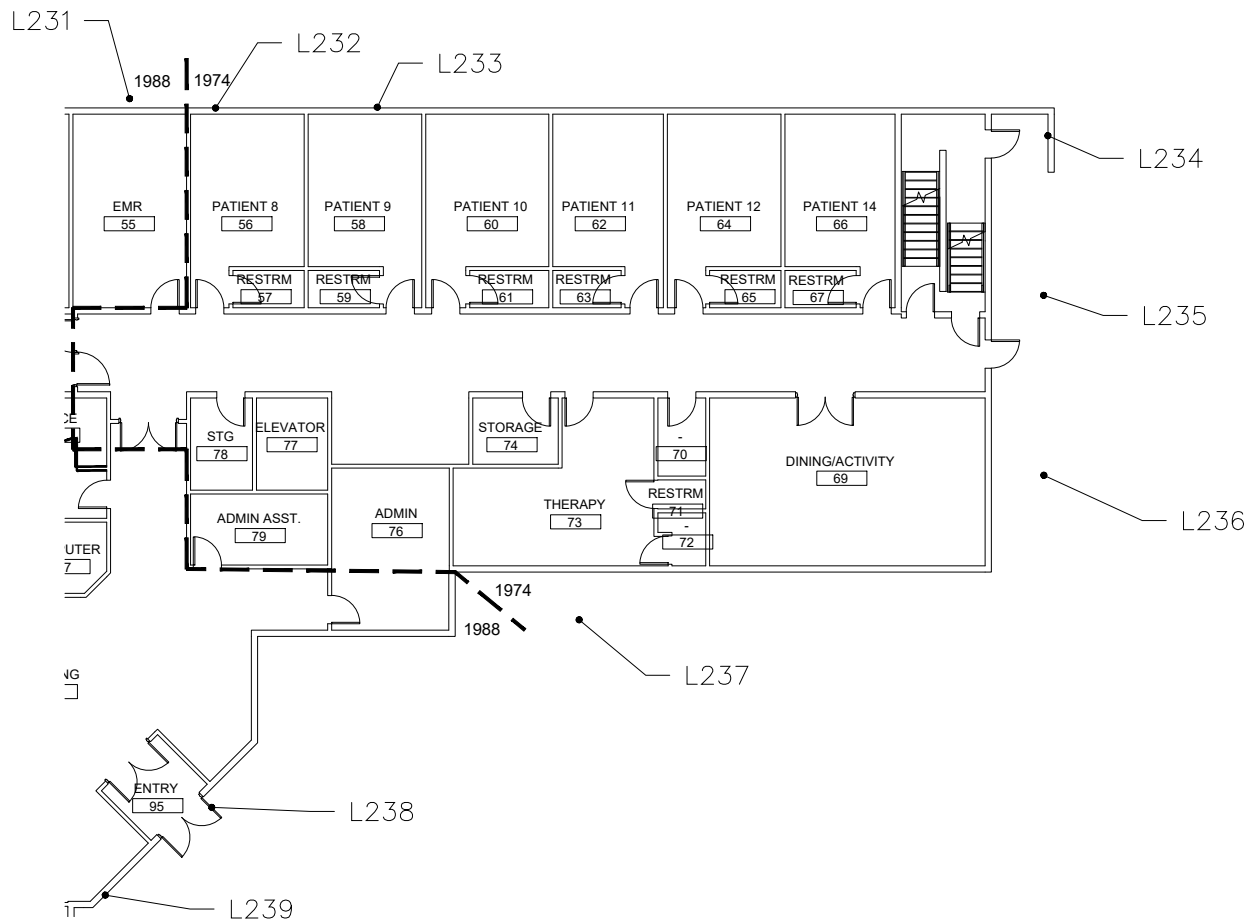
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-10
FILE #:	
7795-03-SL	



1
C-11

FIRST FLOOR SOUTH
NTS



LEGEND

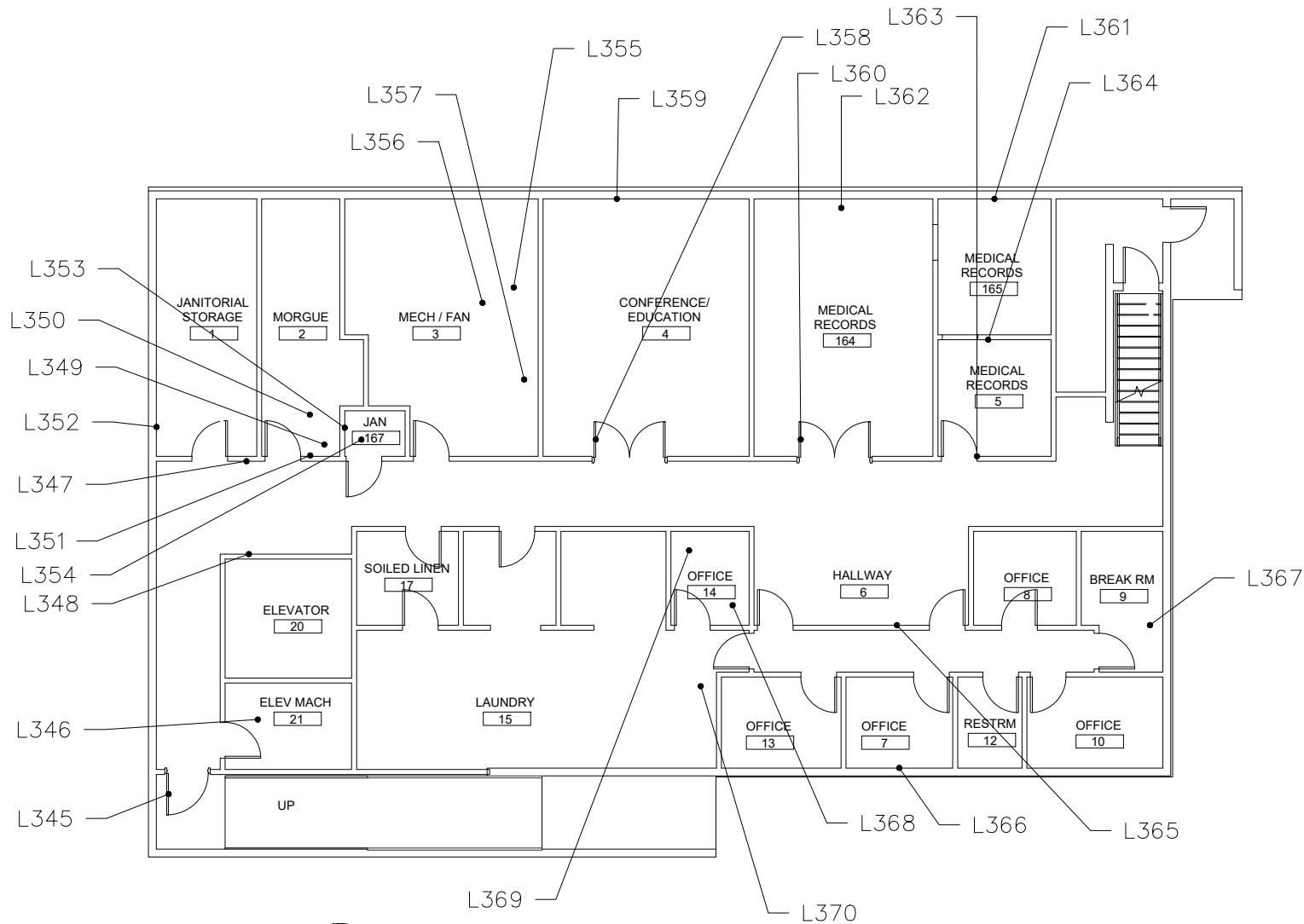
- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	
FILE #:	DWG.NO:
7795-03-SL	C-11



1
C-12

1974 ERA BASEMENT
NTS



LEGEND

- LXX LEAD TEST LOCATION
 - LXX LEAD TEST CLASSIFIED AS LEAD BASED PAINT
- REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS.

WRANGELL
CAPITAL FACILITIES
DEPARTMENT

WRANGELL MEDICAL CENTER
WRANGELL, ALASKA
LEAD SAMPLE LOCATIONS



DRAWN: CTO	DATE: 09/14/2020
CHECK: RAF	DWG.NO: C-12
FILE #:	
7795-03-SL	

Wrangell Public Safety Building
New Facility on WMC Site, Includes Demoliton of WMC
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description				Estimated Cost		Div.
Gross Building Area	34,500	SF				
01 - GENERAL REQUIREMENTS				\$3,016,436	\$87.43	1
Project Management, Equipment, Etc.	34,500	SF	\$66.62	\$2,298,286		
Room & Board	3,341	MDAY	\$200.00	\$668,150		
Mob/Demob	1	EA	\$50,000.00	\$50,000		
02 - EXISTING CONDITIONS				\$1,198,211	\$34.73	2
Demo WMC	29,626	SF	\$9.00	\$266,634		
Hazmat Abatement	29,626	SF	\$20.00	\$592,520		
Haul Off Waste Stream (Barging to off site disposal)	1,111	TONS	\$250.00	\$277,744		
Concrete Disposal, Local	741	CY	\$20.00	\$14,813		
Fill Basement	1,550	CY	\$30.00	\$46,500		
03 - CONCRETE	34,500	SF	\$26.00	\$897,000	\$26.00	3
05 - METALS				\$1,562,850	\$45.30	5
Structural Steel & Metal Decks	34,500	SF	\$37.90	\$1,307,550		
Misc Metals	34,500	SF	\$7.40	\$255,300		
06 - WOOD AND PLASTIC		SF		\$390,885	\$11.33	6
Rough Carpentry and Misc Fabrications	34,500	SF	\$5.00	\$172,500		
Casework	34,500	SF	\$6.33	\$218,385		
07 - THERMAL & MOISTURE PROTECTION	29,920	Ext SF	\$60.00	\$1,795,200	\$52.03	7
08 - OPENINGS				\$501,700	\$14.54	8
Entrances	10	LV	\$7,200.00	\$72,000		
OH Doors	3	EA	\$8,400.00	\$25,200		
Doors	100	EA	\$2,300.00	\$230,000		
Windows (Curtainwall and punched windows)	1,800	SF	\$90.00	\$162,000		
Security Window at Reception	1	EA	\$5,000.00	\$5,000		
Interior Glazing	200	SF	\$37.50	\$7,500		
09 - FINISHES				\$1,633,500	\$47.35	9
Partitions	46,667	SF	\$18.00	\$840,000		
Finishes	34,500	SF	\$23.00	\$793,500		
10 - SPECIALTIES	34,500	SF	\$9.00	\$310,500	\$9.00	10

Wrangell Public Safety Building
New Facility on WMC Site, Includes Demoliton of WMC
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description			Estimated Cost		Div.
Gross Building Area	34,500	SF			
11 - EQUIPMENT			\$135,000	\$3.91	11
Residential Equipment	1	LS	\$6,000.00	\$6,000	
Detention Equipment, Including Cells	4	EA	\$15,000.00	\$60,000	
Security Equip, Gun Lockers, etc	34,500	SF	\$2.00	\$69,000	
12 - FURNISHINGS			\$10,000	\$0.29	12
Window shades, miscellaneous	1	LS	\$10,000.00	\$10,000	
20 - MECHANICAL			\$483,000	\$14.00	20
Geneal Mechanical, Insulation, Commissioning	34,500	SF	\$14.00	\$483,000	
21 - FIRE SUPPRESSION			\$155,250	\$4.50	21
Sprinklers	34,500	SF	\$4.50	\$155,250	
22 - PLUMBING			\$592,889	\$17.19	22
Plumbing Fixtures and Roughin	40	EA	\$12,000.00	\$480,000	
Water Heater	1	EA	\$11,000.00	\$11,000	
Roof Drains and Rain leaders	28	EA	\$3,638.89	\$101,889	
23 - HVAC			\$1,639,000	\$47.51	23
Testing and Balancing	34,500	SF	\$1.50	\$51,750	
Heating System	34,500	SF	\$18.50	\$638,250	
3,000 Gal Fuel Oil Storage, Piping and 50 Gal Day Tank	1	EA	\$49,500.00	\$49,500	
Ventilation and Exhaust	34,500	SF	\$21.00	\$724,500	
Cooling	50.0	TONS	\$3,500.00	\$175,000	
25 - INTEGRATED AUTOMATION			\$241,500	\$7.00	25
DDC controls and VFDs	34,500	SF	\$7.00	\$241,500	
26 - ELECTRICAL			\$1,921,470	\$55.69	26
General Electical	34,500	SF	\$10.00	\$345,000	
Power Service and Distribution Panels	1,200	AMP	\$301.88	\$362,250	
Convenience Power	34,500	SF	\$4.80	\$165,600	
Motor Controls and Circuiting	34,500	SF	\$1.85	\$63,825	
Lighting	34,500	SF	\$17.00	\$586,500	
Exterior Lighting	15	EA	\$10,062.50	\$150,938	
Lighting Controls	34,500	SF	\$1.95	\$67,357	
Generator and ATS	150	KW	\$1,200.00	\$180,000	

Wrangell Public Safety Building
New Facility on WMC Site, Includes Demolition of WMC
Prepared for AMC Engineers by Estimations

Construction Cost Estimate
Rough Order of Magnitude Estimate
January 29, 2021

Description			Estimated Cost	Div.
Gross Building Area	34,500	SF		
27 - COMMUNICATIONS			\$334,054	\$9.68 27
Telecom distribution and Outlets	420	EA	\$795.37	\$334,054
28 - ELECTRONIC SAFETY & SECURITY			\$434,650	\$12.60 28
Access Control and Intrusion Detection	34,500	SF	\$5.53	\$190,900
CCTV	25	EA	\$6,300.00	\$157,500
Fire Alarm	34,500	SF	\$2.50	\$86,250
31 - EARTHWORK			\$586,500	\$17.00 31
Earthwork	34,500	SF	\$17.00	\$586,500
32 - EXTERIOR IMPROVEMENTS			\$498,750	\$14.46 32
Parking and Drives	6,000	SY	\$30.00	\$180,000
Walks and Curbs	750	SY	\$125.00	\$93,750
Fencing	500	LF	\$50.00	\$25,000
Landscaping	1	LS	\$200,000.00	\$200,000
33 - UTILITIES			\$140,000	\$4.06 33
Water & Sewer	400	LF	\$350.00	\$140,000
Subtotal			\$18,478,345	\$535.60 <<<<<
Contractor Insurance			1.5%	\$277,175
Contractor Bond			0.6%	\$112,533
Contractor Fee			7.0%	\$1,320,764
Subtotal, Contractors Cost			\$20,188,817	\$585.18
Estimating Contingency:			15.0%	\$3,028,322
Escalation For Inflation: (2022)	18 Mths	@ 4.0%	6.1%	\$1,406,867
Subtotal, Construction Cost Estimate			\$24,624,006	\$713.74
Design & Construction Administration		14% percent of Construction		\$3,447,361
Construction Contingency		10% percent of Construction		\$2,462,401
Total Project Cost			\$30,533,768	\$885.04