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# COLUMBIA FALLS HIGH SCHOOL
# 2024 ROOF WATER LOSS
# REMEDIAL OVERSIGHT REPORT

**COLUMBIA FALLS HIGH SCHOOL**
**601 13TH STREET WEST**
**COLUMBIA FALLS, MONTANA 59912**

Project Number: 244225.00

September 16, 2024

**Prepared for:**

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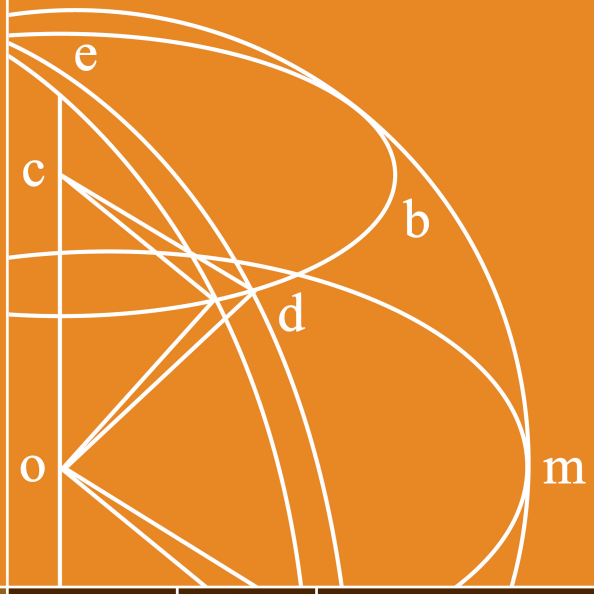

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**Report Integrity:**

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# 1.0 INTRODUCTION



In August of 2024 Fulcrum Environmental Consulting (Fulcrum) was retained by Belfor Property Restoration (Belfor) to provide Industrial Hygiene services in support of the remediation of a water loss event that impacted select portions of the Columbia Falls High School located at 601 13th Street West in Columbia Falls, Montana. Fulcrum conducted a pre-work inspection, prepared a site-specific remedial work plan, provided work-in-progress inspections, and conducted post-work validation inspections as presented in this report.

Following completion of the remedial work, Fulcrum conducted third party validation inspections confirming that the requirements of the water loss had been remediated in accordance with the requirements of the site-specific work plan and industry standard of care. Fulcrum's final inspection confirmed that that there was no residual mold impact within the facility associated with the 2024 water loss.

## 1.1 Background

Fulcrum understands that the east wing of the Columbia Falls High School was identified for roof replacement scheduled for Summer of 2024. In early July of 2024, deconstruction of the existing roof above the east wing began. Work was delayed by periodic rainstorm events over a period of four weeks that resulted in moisture intrusion into the facility. Belfor Property Restoration (Belfor) was retained by the Columbia Falls School District (District) to remediate the water loss. Belfor requested retained Fulcrum to conduct a pre-work assessment by an Indoor Environmental Professional working under the direction of a Certified Industrial Hygienist (CIH) to assist in assessing the nature and extent of moisture impact, prepare a site specific remedial work plan, and to validate the completion of the remedial action.

## 1.2 Building Description

Columbia Falls High School is located at 610 13th Street West in Columbia Falls, Montana. The east wing of the building consists of a main floor, second floor, a basement, and an addition to the south. The addition was not observed to be impacted by the water loss. The east wing is comprised of administrative offices, the lobby, classrooms, and restrooms. Interior walls were observed to consist of plaster walls on brick or wire mesh, finished and unfinished gypsum wallboard, ceramic tile, or brick. Ceilings were observed to be a combination of plaster, 12-inch ceiling tile adhered to gypsum wallboard, and suspended 2-foot by 4-foot ceiling tiles. Flooring was observed to consist of 12-inch vinyl tile, 9-inch vinyl tile, and carpet all over concrete.

## 2.0 SCOPE OF WORK

Fulcrum was retained to provide industrial hygiene services in support of the 2024 water loss associated with roof replacement of the east wing of the Columbia Falls High School. Fulcrum's services were completed under the direction of Travis Trent, a Certified Industrial Hygienist (CIH) with 29 years of applicable experience. Relevant professional certifications are attached in Appendix A. Provided services consisted of the following:

**Initial Assessment –** Fulcrum deployed staff to the site on August 8th and 9th, 2024, to collect information regarding the loss and to complete an initial assessment of the extent of moisture impact utilizing a combination of visual assessment, thermal imaging, and moisture testing with handheld moisture meters.

**Remedial Work Plan –** Fulcrum prepared a site-specific remedial work plan for the loss based on industry best practices. See Appendix B for a copy of the Remedial Work Plan.

**Oversight –** Fulcrum provided intermittent remedial oversight during the remedial process. Intent of the oversight was to a) update and adjust remedial recommendations as new information came to light; b) confirm and document the absence of mold growth associated with the loss; c) document the engineering controls utilized to ensure that the remedial work does not result in potential adverse air quality impact to the balance of the facility; and d) to document the completion of the remediation process. See Appendix C for representative photo documentation during the remediation process and Appendix D for work-in-progress documentation.

**Validation –** As remediation was completed in select work areas, Fulcrum conducted validation inspection to confirm that a) all remedial actions as recommended or warranted had been completed; b) that there was no observed, suspect, or potential mold growth remaining associated with the loss; and c) that debris/dust generated by the remediation had been cleaned from the work area.

**Reporting –** Following the successful conclusion of all validation inspections, Fulcrum prepared this report describing project activities and providing written validation of the remediation process.

## 3.0 PHASING

Remedial work was broken into three phases: Characterization, Remediation and Validation, summarized as follows:

**Characterization Phase** – This phase consisted of identification of the nature and extent of moisture impact. Characterization was completed through a combination of interviews of parties familiar with the loss, visual assessment, and moisture testing using both a thermal imager and handheld moisture meters. Following completion of moisture evaluation Fulcrum provided site-specific moisture remediation recommendations.



Results of the characterization phase and site-specific remedial recommendations were documented in a Remedial Work Plan report dated August 15, 2024 (see Appendix B for copy).

**Remedial Phase –** Belfor conducted the recommended action. Fulcrum completed third-party observations and moisture monitoring during the remediation phase and provided updated remedial recommendations as remedial efforts progressed.

**Validation Phase –** Fulcrum conducted post work validation inspections at the conclusion of remedial actions in each work area. The intent of the validation phase was to provide third-party confirmation that all moisture impacted building materials had been removed or dried down to background moisture content and that no mold impact remained at the conclusion of the remedial process.

## 4.0 CHARACTERIZATION PHASE

On August 8th and 9th, 2024, Fulcrum completed initial inspections of the water loss. Free water extraction had been predominantly completed and drying activities were in process. Fulcrum walked the loss area with Belfor staff and facility staff who were familiar with the nature and extent of the water loss. Fulcrum developed an understanding of the extent of the water loss based on reported information, observed conditions such as moisture staining/presence, and moisture testing using thermal imagining and handheld moisture meters. Select areas and building materials were found to still be wet at the time of Fulcrum's initial assessment. Suspect mold growth was observed on select building materials that were sealed from common spaces.

### 4.1 Moisture Mapping

Fulcrum's initial inspections observed water discharged from the source area in the east wing to have resulted in moisture impact to adjacent ceiling and wall areas and flood impact throughout the 2nd floor of the east wing (Rooms 201 through 224), underlying 1st floor of the east wing (Rooms 101 through 118, 130, 130A-F, 132, 144, and 144A), and select portions of the basement located at the south end of the east wing (Rooms 10 and 11A). To accommodate ongoing site needs the remedial work plan established separate

remediation areas with work sequenced to ensure prompt remedial process. See Figures 1, 3, and 5 for the extent of moisture impact on each floor.

## 4.2 Water Loss Characterization

The water originated as rainwater which would have been best characterized as Category 1 water. The water passed through unknown materials/conditions within the roofing system and through interstitial building spaces in the facility as it spread within the building. The nature and extent of materials or conditions that the intruding water would have encountered are unknown and as such, it is Fulcrum's opinion that the water would be best characterized as Category 2 by the time it spread throughout the impact area. It is Fulcrum's understanding that the moisture intrusion events occurred periodically over a four-week period and the nature and extent of moisture impact to interior building materials over that period of time is unknown further supporting the Category 2 characterization.

It is Fulcrum's professional opinion that the water release would be characterized as Category 2 under the IICRC S-500 Standard. The presence of substantial areas of mold growth indicated that the loss may have progressed to Category 3 in select areas.

## 4.3 Basis for Recommendations

Fulcrum developed site-specific remedial recommendations based on current Best Practices for Water Loss Restoration as represented in the following sources:

- *Dampness and Mold Assessment Tool – General Buildings*, Center for Disease Control 2018
- *Standard and Reference Guide for Professional Water Damage Restoration*, IICRC, S500 Fifth Edition, 2021.
- *Standard and Reference Guide for Professional Mold Remediation*, IICRC, S520 Fourth Edition, 2024.
- *Post – Remediation Verification and Clearance Testing for Mold and Bacteria*, Robert C. Brandys and Gail M. Brandys, Occupational & Environmental Health Consulting Services, Inc., March 2005.

## 4.4 Remedial Recommendations

Fulcrum prepared a site-specific Remedial Work Plan that identified moisture impacted materials/work areas, requisite remedial actions, and engineering controls intended to contain the work areas and to protect the balance of the facility during the remedial action. The remedial design detailed requirements necessary to allow Fulcrum to complete a third-party validation of the work upon completion sufficient to document the absence of any residual mold impact. See Appendix B for a copy of the Remedial Work Plan.

Fulcrum provided the following remedial recommendations:

**Drying –** Fulcrum recommended continued moisture extraction and drying efforts that had been initiated while the loss was assessed and characterized.

**Containment** – Fulcrum recommended closing off the impacted areas to occupants other than those engaged in response to the loss. Fulcrum recommended that airtight barriers be placed separating the east wing from the balance of the facility and that HVAC service to the areas be turned off. Fulcrum recommended placement of HEPA filtered negative air machines throughout the east wing.

Select work actives resulted in contact with 9-inch vinyl tile flooring materials and thermal system insulation associated with plumbing that have been identified as asbestos containing materials (ACM). Fulcrum recommended these materials be protected from disturbance by the following engineering controls.

- Flooring - Tape tight polyethylene sheeting shall be placed over the ACM flooring systems with ram board, or similar product, placed overtop the polyethylene layer to prevent impact to existing Known ACMs.

- Thermal System Insulation – If TSI will be disturbed by planned work activities it must be abated in accordance with applicable regulations. Any location of TSI that are not planned for disturbance but that are located proximal to work activities shall be wrapped with polyethylene sheeting and taped sealed.

**Contents** – Fulcrum recommended that all contents be removed from the impacted area in coordination with the occupants and cleaned or disposed of in accordance with the S500 standard. Any contents retained in the workspace were recommended to be sealed with airtight plastic barriers.

**Deconstruction** - Based on initial observations, Fulcrum recommended deconstruction of building materials within the impact areas as follows:

### 4.4.1 Basement

- B1 (accessed from Room 130)
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Computer Lab (Room 10)
  - Remove visibly moisture-impacted ceiling tile in northeast corner

- Computer Lab Storage
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 11 A
  - Remove visibly moisture-impacted ceiling tile in southeast corner and southwest corner
  - 2-foot flood cut southwest corner (adjacent to transition to kitchenette)

- Library (Room 11)
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

### 4.4.2 Main Floor

- Lobby
  - Remove ceiling areas with visible localized moisture staining
  - Dry-in-place lower 2-feet of trophy cabinet

- Room 132 (Golf storage under main staircase – west side)
  - 2-ft flood cut interior and exterior sides of south wall
  - 2-foot flood cut exterior east wall (accessible from staircase midpoint landing)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Storage Closet – East Side of Main Staircase
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Hallway
  - Remove all remaining lockers between Room 101 and south stairwell
    - Remove all gypsum wall materials from behind lockers
  - Full wall removal of south wall (common space to Girls Restroom (Room 106)) (above tile/brick only)
  - Full wall removal of northeast portion and central portion of north wall (common space to Room 104) (above tile/brick only)

- Room 130
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 130 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 B
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 C
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 D
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 F
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 103
  - Full wall flood cut (from floor to ceiling) of southeast corner on south wall and southwest corner on the south wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 105 A
  - 2-foot flood cut entire south wall and entire west wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 105
  - Full wall removal of the northeast corner (on north wall)
  - Full wall removal on east wall along the pillar and along the southeast corner. 2-foot flood cut remaining portion of east wall
  - 4-foot flood cut south wall (underneath the display case)
  - 2-foot flood cut north wall (from 105A doorway to pillar)
  - 2-foot flood cut entire south wall

- Room 101
  - Remove north portion of ceiling, from west to east wall (approximately 2-feet wide)
  - 2-foot flood cut southwest corner
  - Dry out tunnels

- Room 102 (entry)
  - Dry-in-place north wall
  - Remove north portion of ceiling, from west to east wall (approximately 2-feet wide)

- Room 102
  - Pull FRP from south wall (around sink) to allow for inspection
  - Full wall removal of northwest corner (on west wall)
  - Full wall removal of south central area (on south wall, from sink to east edge of windows to Room 104)
  - 2-foot flood cut southwest area of south wall (from west corner to old doorway to Room 104)
  - 2-foot flood cut south half of the west wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 104
  - Full removal of closet
  - Full wall removal of southwest corner (on west wall)
  - Full wall removal of southeast corner (on south wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 106 (Girls Restroom)
  - Full wall removal of north wall (above bricks only)

- Room 108 (Boys Restroom)
  - Full wall removal (above bricks only) in central area of south wall (approximately 4-foot wide section)

- Room 110
  - 2-foot flood cut entire north wall

- Room 112
  - Full wall removal on north wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 112 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 112 Storage
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 144
  - Remove entire ceiling
  - Full wall removal of northeast corner (north wall and east wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 144 A
  - Remove visually moisture-impacted ceiling tile in northwest corner

- Room 146
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 146 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 146 B
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 D – Bathroom
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 E – Laundry
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 A
  - Full wall removal of north half of the east wall (from northeast corner to middle pillar)
  - 2-foot flood cut along southwest corner of wall common to Room 113C
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 113 F – Pantry
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 C
  - Remove ceiling along west wall (visible moisture staining)

- Room 113 B
  - 2-foot flood cut west wall of desk cubby (cubby located in northeast corner of room)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 114
    - Remove 12-inch vinyl tile flooring on elevated platform (south half of Room 114)
    - 2-foot flood cut from west doorway (Room 114 entrance doorway) to ramp
    - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
        - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
            - If interstitial wall space evidence mold impact, then remove cabinets from interior space
        - Potential full wall removal of south wall – moisture identified above south wall cabinets

- Room 115
    - Full removal of closet

- Room 116
    - Full removal of closet
    - Full wall removal of west half of the north wall
    - Full wall removal of southwest corner of south wall
    - Remove and replace visibly moisture-impacted ceiling

- Room 117
    - 2-foot flood cut along center portion of south wall floor (approximately 5-feet wide)
    - 1-foot flood cut a long center portion of south wall ceiling (approximately 5-feet wide)

- Room 118
    - 2-foot flood cut west wall

- Room 119
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120 A
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120 B
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 121
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

### 4.4.3 Second Floor

- Hallway
  - Pull all lockers
  - Full wall removal of west wall from north end of Room 205 to south end of Room 213 (above tile/brick only)
  - Full wall removal of east wall from north end of Room 204 to south end of Room 214 (above tile/brick only)

- Room 201
  - Pull all cabinets
  - Full wall removal of north, east, south, and west walls
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 201 A
  - Full wall removal of east and west walls
  - 2-foot flood cut of south wall

- Room 202
  - Pull all cabinets from south wall
  - Full wall removal of south and west walls
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 203
  - Remove damaged plaster on north wall
  - Full wall removal of south wall
  - Full wall removal of southeast corner (east wall from doorway to south wall)
  - Full wall removal of east wall for portion common to Room 201 A
  - 2-foot flood cut central area of west wall (adjacent to doorway – north side)

- Room 204
  - Full wall removal of north, south, and west walls (exception of portion of gypsum enclosing HVAC ducts in north central area)
  - 2-foot flood cut portion of gypsum enclosing HVAC ducts in north central area
    - Will need to inspect interior of HVAC enclosed space

- Room 205
  - Full wall removal of east wall
  - Full removal of closet
  - 2-foot flood cut along floor of north wall and south wall
  - 1-foot flood cut along ceiling of north wall and south wall

- Room 206
  - Pull all cabinets from north wall
  - Full wall removal of south and west wall
  - Full wall removal of east half of north wall (from cabinet to east wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 208 (Girls Restroom)
  - Remove rest of ceiling (southeast corner) (above tile/brick only)
  - Full wall removal of north and east walls of entry to bathroom (above tile/brick only)
  - Full wall removal of north wall (above tile/brick only)
  - Full wall removal of central portion of the south wall (above tile/brick only)

- Room 210 (Boys Restroom)
  - Full wall removal of north, east, and south walls of entry to bathroom (above tile/brick only)
  - Full wall removal of north wall from entry to closet door (above tile/brick only)
  - Full wall removal of south wall (above tile/brick only)

- Room 209
  - Full wall removal of east and south wall
  - 2-foot flood cut of north wall along floor
  - 1-foot flood cut of north wall along ceiling

- Room 212
  - Full wall removal of north, south, and west walls

- Room 213
  - Full wall removal of north and east walls (pull cabinets from east wall with wall)
  - 2-foot flood cut of south wall
  - 2-foot flood cut of southeast corner (of east wall)

- Room 213 A
  - Full wall removal of north wall
  - Remove remaining ceiling materials
  - 2-foot flood cut of east wall

- Room 213 B
  - Full wall removal of east and south walls
  - Remove rest of ceiling materials (west half of room)

- Room 214
  - Remove full closet
  - Full wall removal of west and north wall
  - 2-foot flood cut of south wall

- Room 217
  - Full wall removal of east wall from east door to 1st pillar (north of door)
    - No identified impact to closet
  - 4-foot flood cut along ceiling of north wall from west windows to center of door
  - 2-foot flood cut along floor of north wall from west windows to east wall

See Figures 2, 4, and 6 for a visual representation of all remedial recommendations. See Appendix D for work-in-progress documentation with any additional remedial recommendations.

## 5.0 REMEDIAL PHASE

Remediation of moisture impacted materials associated with the historic water intrusion events began August of 2024 and was completed on September 4th, 2024. Work occurred in select portions of the Columbia Falls High School as summarized in the Remedial Work Plan. Work consisted of removal of all identified areas of moisture/mold impacted materials and cleaning of wooden framing. Work was conducted within restricted work areas that were sealed from the balance of the facility by airtight barriers. HEPA filtered negative air machines were placed within the work areas to create negative pressure relative to the balance of the facility.

Workers completed the removal of building materials while wearing construction attire with work boots, protective goggles/glasses, cut resistant gloves. Tyvek suits with N95 face masks were worn when impacting building materials with identified microbial growth.

Mold impact was identified during the remedial phase. Fulcrum deployed industrial hygiene staff to the site during a substantial portion of the deconstruction phase to be available to observe conditions as exposed and to be able to provide remedial recommendations regarding nature and extent of cleaning and/or additional deconstruction.

## 6.0 VALIDATION PHASE

Following remediation of each work area, an Industrial Hygienist with Fulcrum conducted an inspection to validate the completion of the recommended work and the absence of any remaining mold impact. Fulcrum conducted a validation inspection for each work area. See Appendix D for work-in-progress documentation.

### 6.1 Validation Inspections

Following completion of remediation in each of the work areas, an industrial hygienist with Fulcrum acting in the role of an Indoor Environmental Professional (IEP) as identified in the IICRC S-520 Standard conducted a validation inspection. Each inspection consisted of a visual inspection to confirm that all required remedial deconstruction and cleaning work was complete in each contained work area and that no suspect mold or any construction related dust or debris were present. Concurrent with the visual inspection, thermal imaging and handheld moisture meters were used to confirm that all remaining building materials had been returned to background dryness.

Table 1 presents a summary of validation inspections by work area and the date at which each remedial work in work area was validated.

**Table 1: Post Work Validation Inspections**

| Date | Floor | Location | Comments |
|---|---|---|---|
| 08/27/2024 | Basement | 10 | Fulcrum validated completion of the remedial work. |
| 08/27/2024 | Basement | 11A | Fulcrum validated completion of the remedial work. |
| 08/21/2024 | Main Floor | Lobby | Fulcrum validated completion of the remedial work. |
| 08/14/2024 | Main Floor | North Hallway | Fulcrum validated completion of the remedial work. |
| 08/15/2024 | Main Floor | South Hallway | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | East Hallway | Fulcrum validated completion of the remedial work. |
| 08/13/2024 | Main Floor | 130 | Fulcrum validated completion of the remedial work. |
| 08/14/2024 | Main Floor | 103 | Fulcrum validated completion of the remedial work. |
| 08/14/2024 | Main Floor | 101 | Fulcrum validated completion of the remedial work. |
| 08/15/2024 | Main Floor | 102 Entry | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 102 | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 105 | Fulcrum validated completion of the remedial work. |
| 08/21/2024 | Main Floor | 105A | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 104 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | Main Floor | 132 (Key Club) | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | Main Floor | 145 (Janitor Storage) | Fulcrum validated completion of the remedial work. |
| 08/14/2024 | Main Floor | 144 | Fulcrum validated completion of the remedial work. |
| 08/14/2024 | Main Floor | 144A | Fulcrum validated completion of the remedial work. |
| 08/15/2024 | Main Floor | 106 (Women's BR) | Fulcrum validated completion of the remedial work. |
| 08/15/2024 | Main Floor | 108 (Men's BR) | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 110 | Fulcrum validated completion of the remedial work. |

| Date | Floor | Location | Comments |
|---|---|---|---|
| 08/23/2024 | Main Floor | 112 | Fulcrum validated completion of the remedial work. |
| 08/15/2024 | Main Floor | 112A | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 113 | Fulcrum validated completion of the remedial work. |
| 08/21/2024 | Main Floor | 113A | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | Main Floor | 113B | Fulcrum validated completion of the remedial work. |
| 08/20/2024 | Main Floor | 113C | Fulcrum validated completion of the remedial work. |
| 08/26/2024 | Main Floor | 114A | Fulcrum validated completion of the remedial work. |
| 09/04/2024 | Main Floor | 114 | Fulcrum validated completion of the remedial work. |
| 08/26/2024 | Main Floor | 115 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | Main Floor | 116 | Fulcrum validated completion of the remedial work. |
| 08/26/2024 | Main Floor | 117 | Fulcrum validated completion of the remedial work. |
| 08/26/2024 | 2nd Floor | Hallway | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 201 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 201A | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 202 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 203 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 204 | Fulcrum validated completion of the remedial work. |
| 08/27/2024 | 2nd Floor | 205 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 206 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 208 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 210 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 210A | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 209 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 212 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 214 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 213 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 213A | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 213B | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 216 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 217 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 218 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 219 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 220 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 221 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 222 | Fulcrum validated completion of the remedial work. |
| 08/22/2024 | 2nd Floor | 224 | Fulcrum validated completion of the remedial work. |

As of Fulcrum's final inspection on September 4, 2024, validation inspections confirmed that all remedial actions as recommended had been completed, that all remaining building materials were returned to background dryness, and that there was no observable or suspect mold growth associated with the 2024 water loss. Fulcrum recommended that the work areas be released for reconstruction activities.

## 6.0 CONCLUSION

In August of 2024 Fulcrum was retained by Belfor to provide Industrial Hygiene services in support of the 2024 water loss that impacted the east wing of the Columbia Falls High School located at 601 13th Street West in Columbia Falls, Montana. Fulcrum conducted a pre-work inspection, prepared a site-specific remedial work plan, and conducted work-in-progress and post-work validation inspections as presented in this report. Following completion of the remedial work, Fulcrum conducted third party validation inspections confirming that the requirements of the remedial work plan had been met and that there was no residual mold impact associated with the 2024 water loss.

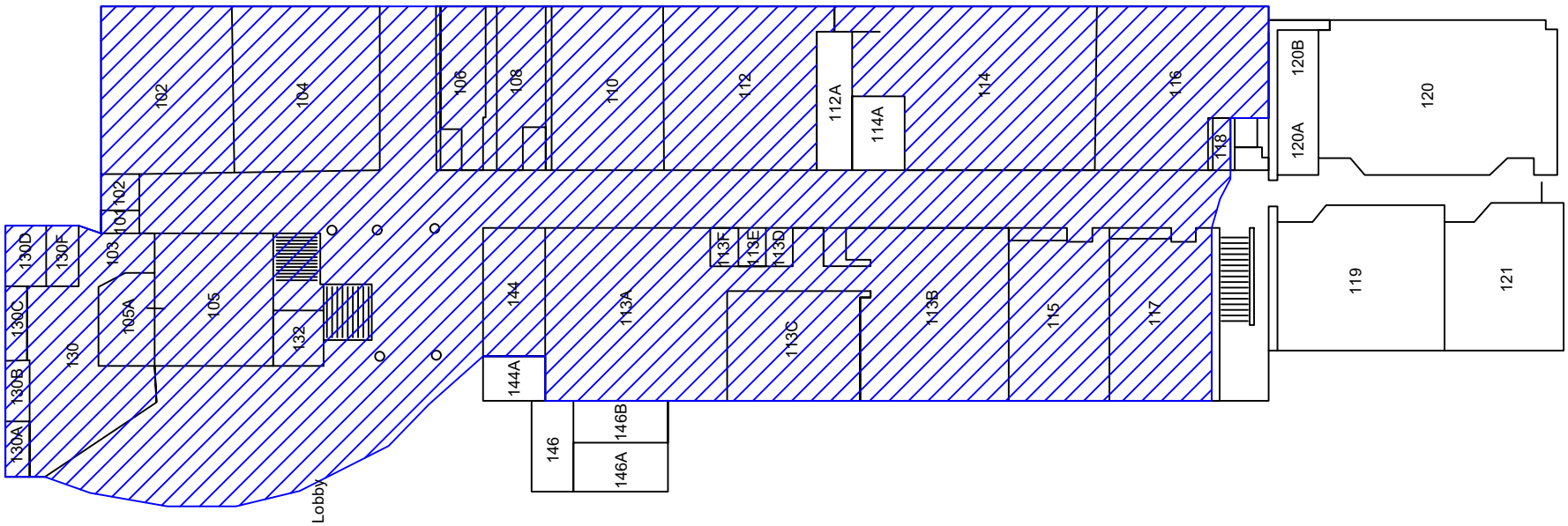
It is Fulcrum's professional opinion that the remedial action at the Columbia Falls High School as described in this report was completed in a professional manner that met or exceeded applicable standards of industrial hygiene in place at the time of the remediation associated with the 2024 water loss.

## 7.0 LIMITATIONS

Fulcrum's scope of service for this project was limited to those services outlined in the Scope of Work for this report. Fulcrum's investigation did not include inspection of non-readily accessible areas, such as sealed wall cavities, beneath wall or floor coverings, or locations obscured by contents or furnishings except those specifically noted in the report. Results are specific to the time and day of inspection and may not reflect conditions at other times. Fulcrum performed project services in accordance with generally accepted industrial hygiene standards of care at the time of the inspection.

## FIGURES

Figure 1 Main Floor Moisture Impact Map
Figure 2 Main Floor Remedial Recommendations Map
Figure 3 Basement Moisture Impact Map
Figure 4 Basement Remedial Recommendations Map
Figure 5 Second Floor Moisture Impact Map
Figure 6 Second Floor Remedial Recommendations Map




## LEGEND

Area of Identified Moisture-Impact

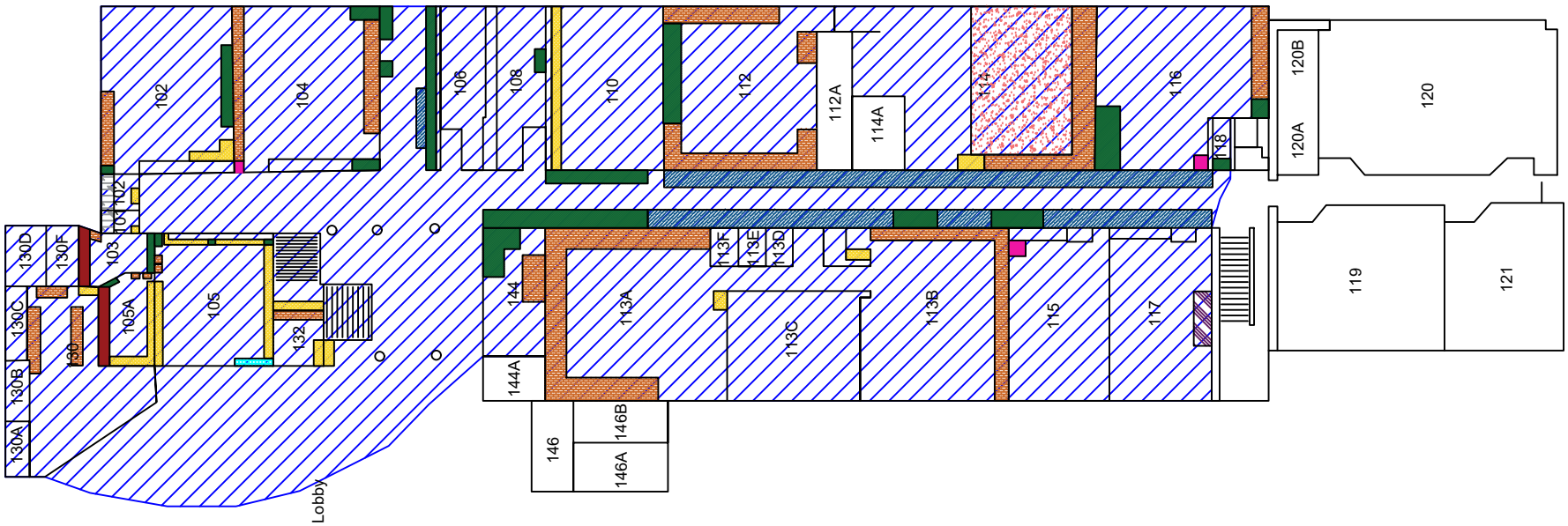
N

# Figure 1: Main Floor Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Floor to ceiling flood cut
- 4-foot flood cut
- 2-foot flood cut
- 2-foot flood cut along floor and 1-foot flood cut along ceiling
- Dry in place
- Drill toe kicks of cabinets and inspect for impact
- Remove lockers
- Remove moisture impacted flooring
- Remove moisture impacted ceiling materials
- Remove walls and ceiling materials associated with closet

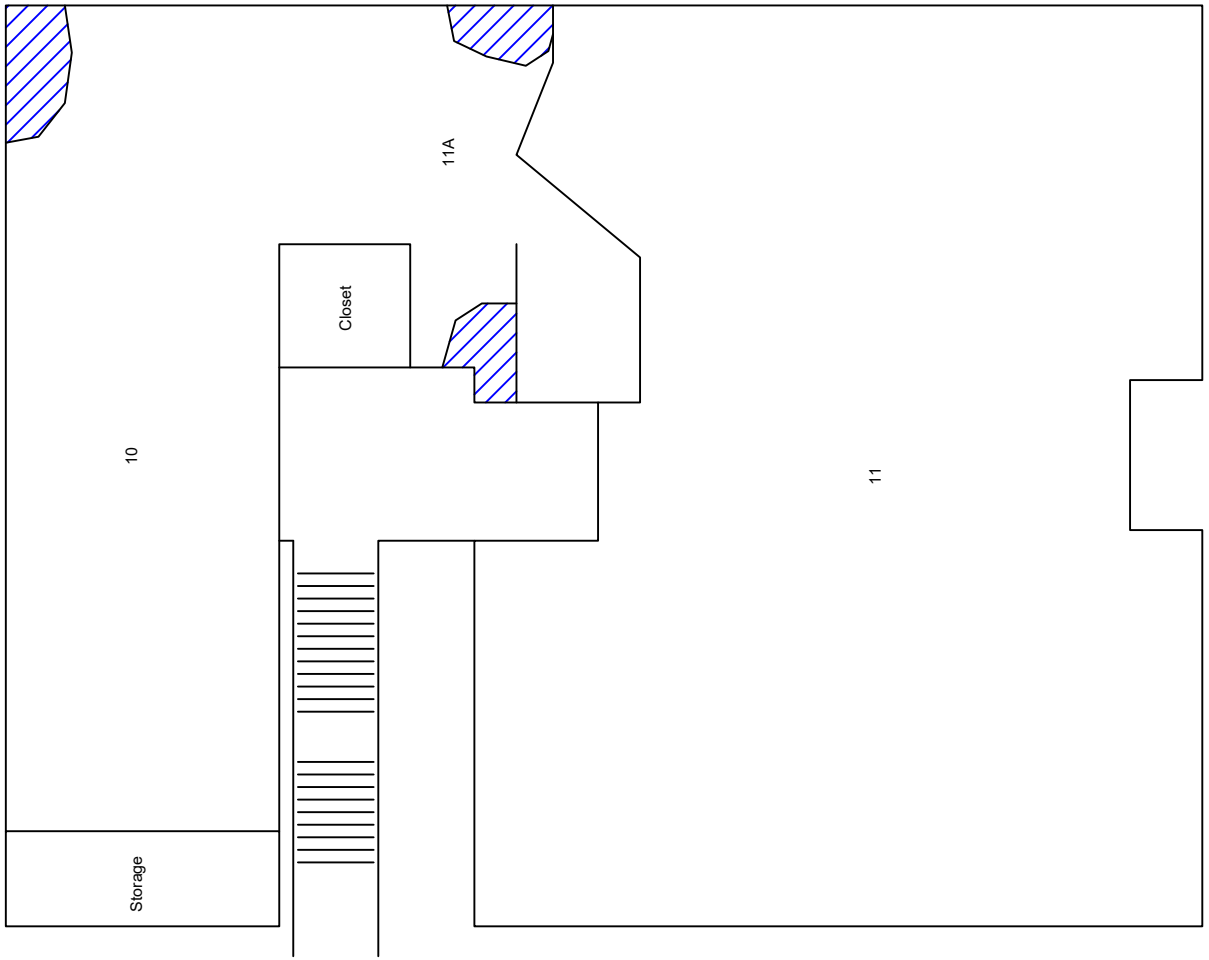
N

# Figure 2: Main Floor Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




LEGEND

N

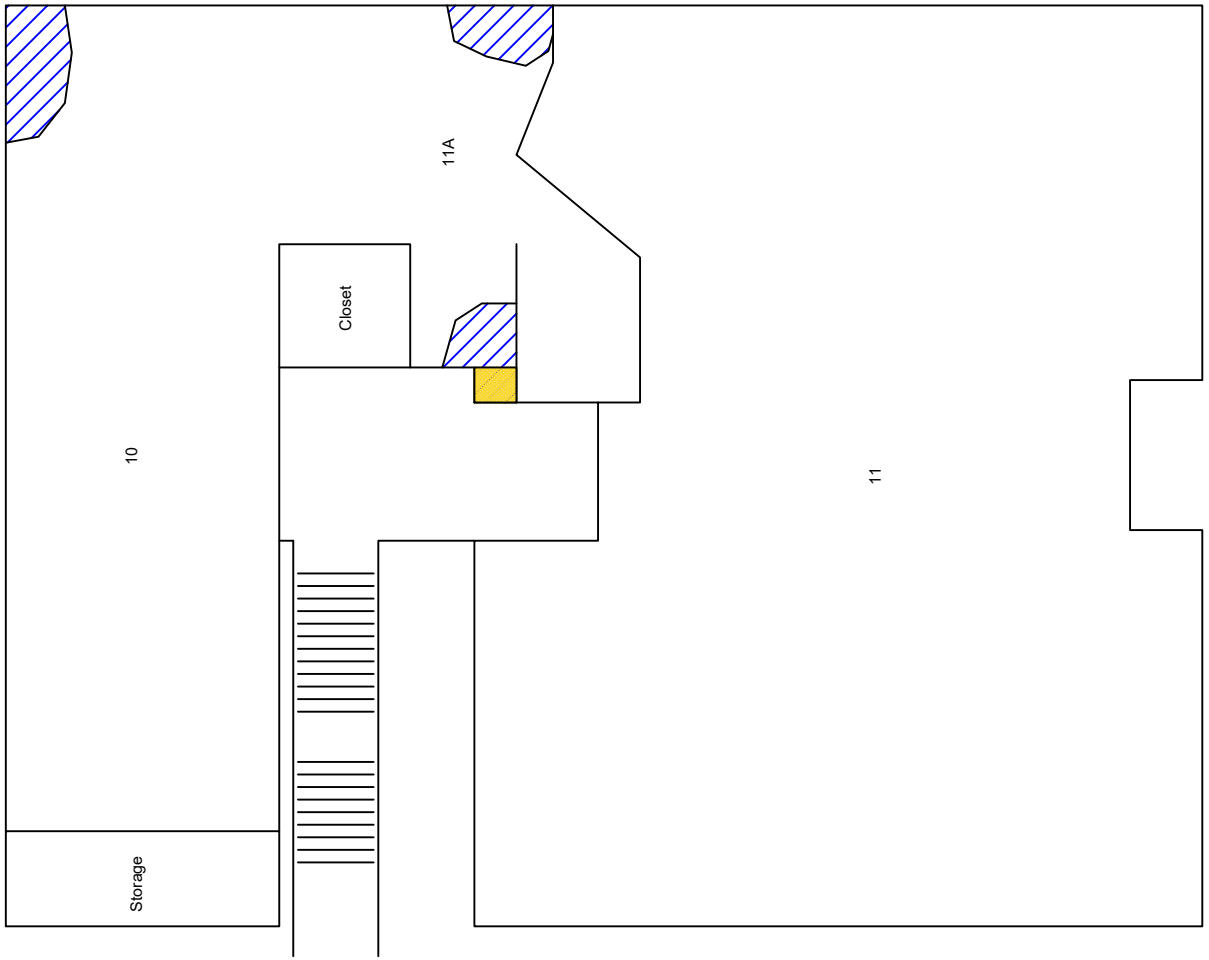
Area of Identified Moisture-Impact

# Figure 3: Basement Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244195.00 |
| DATE: August 7, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

N

2-foot flood cut

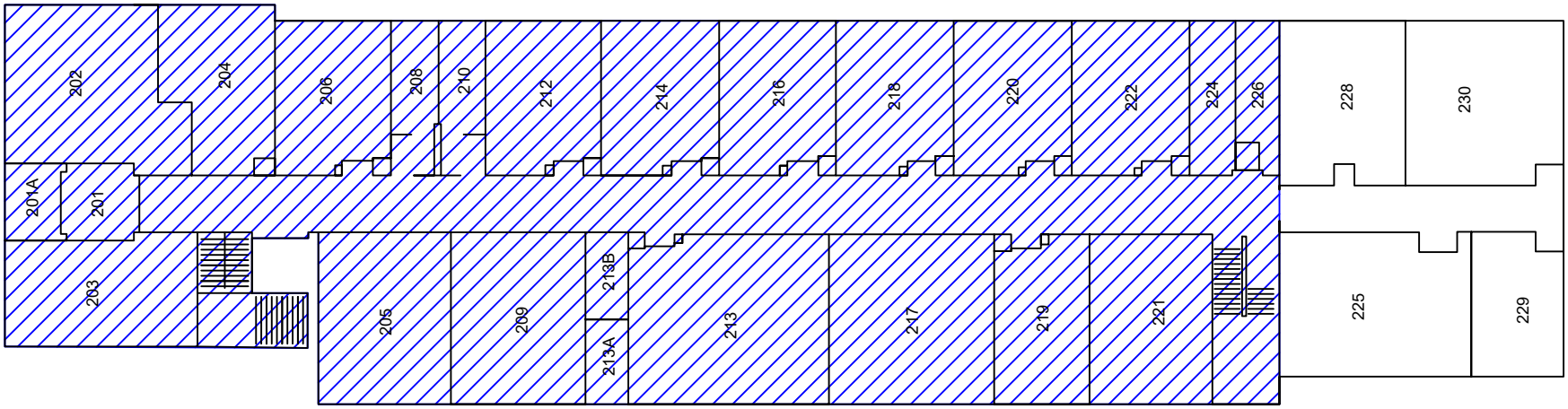
Remove moisture impacted ceiling materials

# Figure 4: Basement Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244195.00 |
| DATE: August 7, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Area of Identified Moisture-Impact

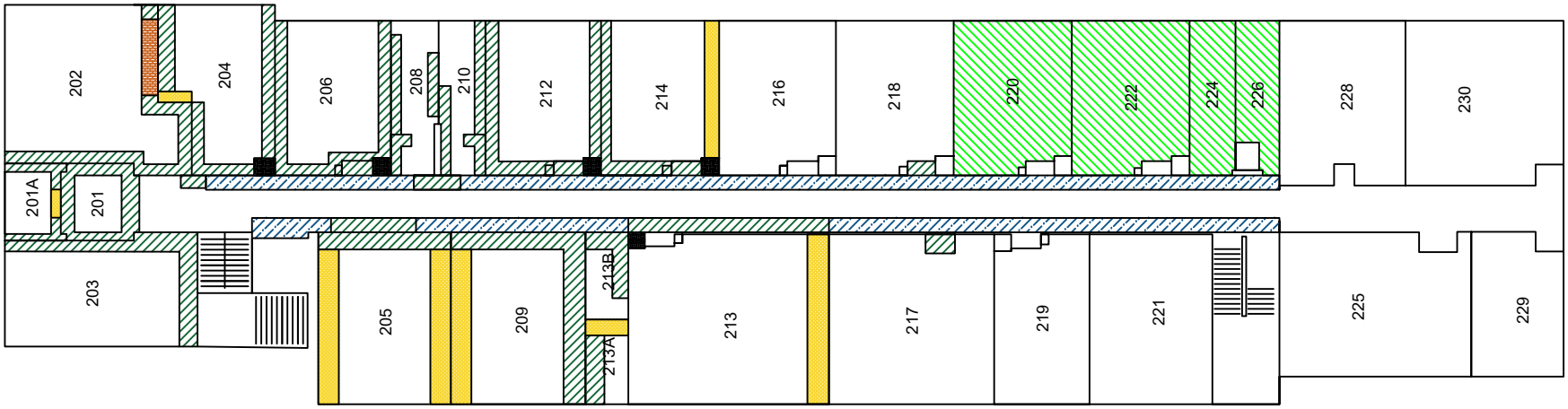
N

# Figure 5: Second Floor Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Floor to ceiling flood cut
- 2-foot flood cut
- 2-foot flood cut along floor and 1-foot flood cut along ceiling
- Drill cabinets for inspection
- Remove lockers
- Remove walls and ceiling materials associated with closet
- Needs to be inspected

*Tape tight polyethylene sheeting with ram board over areas with 9-inch ACM floor tile

N

# Figure 6: Second Floor Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |

## APPENDIX A

Professional Certifications

# The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

# Travis L. Trent

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene®'s (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

## Certified Industrial Hygienist® (CIH®)

The aforenamed individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.

| | |
|---|---|
| Credential Number: | 9850 CP |
| Award Date: | November 19, 2010 |
| Expiration Date: | June 1, 2026 |

Cynthia Hanko, CIH
Chair of the Board of Directors

Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

## APPENDIX B

Remedial Work Plan

FULCRUM
environmental consulting

# Columbia Falls High School
# 2024 Water Loss
# Remedial Work Plan

**610 13th Street West**
**Columbia Falls, Montana 59912**

Project Number: 244225.00

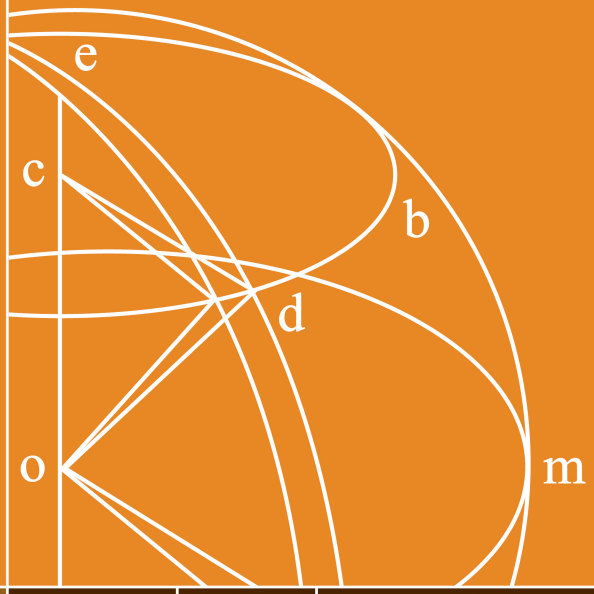
August 15, 2024

**Prepared for:**

Belfor Property Restoration
Attn: Troy Hughes, Project Manager
720 North 16th Avenue, Suite 9
Yakima, Washington 98902

**Prepared by:**

Fulcrum Environmental Consulting, Inc.
207 West Boone Avenue
Spokane, Washington 99201



**Report Title:** Columbia Falls High School 2024 Water Loss Remediation Work Plan

**Project Number:** 244225.00

**Date:** August 15, 2024

**Site:** Columbia Falls High School
610 13th Street West
Columbia Falls, Montana 55912

**Prepared for:** Belfor Property Restoration
Attn: Troy Hughes, Project Manager
720 North 16th Avenue, Suite 9
Yakima, Washington 98902

**Prepared by:** Fulcrum Environmental Consulting, Inc.
207 West Boone Avenue
Spokane, Washington 99201
509.459.9220

The professionals who completed site services, prepared, and reviewed this report include but are not limited to:

**Authored by:** _____ **Date:** 08/15/2024
Roque Reyes, Industrial Hygienist
Fulcrum Environmental Consulting, Inc.

**Reviewed by:** _____ **Date:** 08/15/2024
Travis Trent, CIH, Principal
Fulcrum Environmental Consulting, Inc.




**Report Integrity:**

*Fulcrum Environmental Consulting, Inc.'s scope of service for this project was limited to those services as established in the proposal, contract, verbal direction, and/or agreement. This report is subject to applicable federal, state, and local regulations governing project-specific conditions and was performed using recognized procedures and standards of the industry. Scientific data collected in situ may document conditions that may be specific to the time and day of service, and subject to change as a result of conditions beyond Fulcrum's control or knowledge. Fulcrum makes no warranties, expressed or implied as to the accuracy or completeness of other's work included herein. Fulcrum has performed these services in accordance with generally accepted environmental science standards of care at the time of the inspection. No warranty, expressed or implied, is made.*

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## Appendices


Appendix A Professional Certification

# 1.0 INTRODUCTION

This Remedial Work Plan (RWP) has been prepared by Fulcrum Environmental Consulting, Inc. (Fulcrum) to address the remediation of water impact to a portion of the Columbia Falls High School located at 610 13th Street West in Columbia Falls, Montana. The intent of this plan is to present requirements to remediate the July/August 2024 water loss that are consistent with industry standard of care.

## 1.1 Background

Fulcrum understands that the east wing of the Columbia Falls High School was identified for roof replacement scheduled for Summer of 2024. In early July of 2024, deconstruction of the existing roof above the east wing began. Work was delayed by periodic rainstorm events over a period of four weeks that resulted in moisture intrusion into the facility. Belfor Property Restoration (Belfor) was retained by the Columbia Falls School District (District) to remediate the water loss. Belfor has requested an assessment by an Indoor Environmental Professional working under the direction of a Certified Industrial Hygienist (CIH) to assist in assessing the nature and extent of moisture impact, identify appropriate remedial requirements, and to validate the completion of the remedial action.

Fulcrum was retained to provide industrial hygiene services in support of the remedial effort. Fulcrum conducted a preliminary site visit on August 8 and 9, 2024, documenting the extent of the water loss. Free water had been extracted from the loss area and fans and dehumidifiers had been placed to initiate drying.

## 1.2 Building Description

Columbia Falls High School is located at 610 13th Street West in Columbia Falls, Montana. The east wing of the building consists of a main floor, second floor, a basement, and an addition to the south. The addition was not observed to be impacted by the water loss. The east wing is comprised of administrative offices, the lobby, classrooms, and restrooms. Interior walls were observed to consist of plaster walls on brick or wire mesh, finished and unfinished gypsum wallboard, ceramic tile, or brick. Ceilings were observed to be a combination of plaster, 12-inch ceiling tile adhered to gypsum wallboard, and suspended 2-foot by 4-foot ceiling tiles. Flooring was observed to consist of 12-inch vinyl tile, 9-inch vinyl tile, and carpet all over concrete.

## 1.3 Relevant Guidance

This remedial work plan has been prepared in consideration of reference documents that include, but are not limited to:

- *Standard and Reference Guide for Professional Water Damage Restoration*, IICRC, S500 5th Edition, 2021
- *Standard and Reference Guide for Professional Mold Remediation*, IICRC, S520 4th Edition, 2024
- *Dampness and Mold Assessment Tool – General Buildings*, Center for Disease Control 2018

## 1.4 Guidance Application

The Institute of Inspection, Cleaning, and Restoration Certification Standard (IICRC) S500-2021 *Standard and Reference Guide for Professional Water Damage Restoration* categorizes water quality into three classes of water considering both the originating source and contact with any materials that it may have contacted or migrated through.

**Category 1 "Clean Water"** – Water damage from water originating from a sanitary water source and that does not pose a substantial risk from dermal, ingestion, or inhalation exposure. Examples include broken water supply lines, sink or tub overflow, and melting ice or snow. *The cleanliness of Category 1 water may deteriorate to Category 2 or 3 for many reasons, including but not limited to: contact with building materials, systems and contents. Some factors which influence the potential organic and inorganic load in a structure include the age and history of the structure, previous water losses, general housekeeping, the type of use of the structure (e.g., nursing home, hospital, day care, warehouse, veterinary clinic),* and elapsed time *or elevated temperature.*

**Category 2 "Gray Water"** – Water that contains significant contamination and has the potential to cause discomfort or sickness if contacted or consumed by humans. Category 2 water can contain potentially unsafe levels of microorganisms, as well as organic or inorganic matter. Examples include discharge from washing machines and toilet bowl overflows. Remediation of Category 2 water losses usually consists of work area containment extraction, drying, and removal of some moisture impacted building materials. *Similar to Category 1, the cleanliness of Category 2 water may deteriorate to Category 3 for many reasons, including but not limited to: contact with building materials, systems and contents. Some factors which influence the potential organic and inorganic load in a structure include the age and history of the structure, previous water losses, general housekeeping, the type of use of the structure (e.g., nursing home, hospital, day care, warehouse, veterinary clinic),* and elapsed time *or elevated temperature.*

**Category 3 "Black Water"** – Category 3 water is grossly contaminated and can contain pathogenic, toxigenic or other harmful agents. Examples include sewage, toilet backflows, and all forms of exterior flooding. Category 3 water can also result from a Category 1 or Category 2 water loss that deteriorated due to materials it passed through, came into contact with, or elapsed time sufficient to result in amplification of microorganisms.

## 1.5 Qualifications

Fulcrum Environmental Consulting is one of the Inland Northwest's Premier Industrial Hygiene Services firms with over 30 years of experience in environmental testing, abatement design, and oversight. Travis Trent, a Principal with Fulcrum has reviewed and approved this work plan and will be Fulcrum's Project Manager for the oversight of the remediation. Mr. Trent is a Certified Industrial Hygienist (CIH) and Certified Safety Professional (CSP) with 29-years of applicable experience. See Appendix A for relevant certifications.

## 2.0 FULCRUM SCOPE OF WORK

Fulcrum's scope of work includes a pre-work water loss assessment, preparation of this site-specific remedial work plan, limited remedial oversight, and completion of post work validation inspections for all moisture impacted work areas. At the conclusion of the water loss remediation, Fulcrum will prepare a water loss summary report that documents the nature and extent of the loss, remedial actions completed, and Fulcrum's validation of the absence of any suspect residual mold growth at the conclusion of services.

The objectives of Fulcrum's involvement is to help ensure the following:

- That the remedial work is conducted in a manner that is appropriately protective of facility staff, and remedial staff conducting work.
- That the remedial work will result in the work being completed in a manner compliant with applicable guidance and industry standard of care.
- That remedial activities are conducted in accordance with the requirements of the Remedial Work Plan.
- And, that at the conclusion of the work, the remedial work area would be suitably positioned to meet validation inspection requirements by an Independent Environmental Professional who could confirming completion of the requirements of the Remedial Work Plan and absence of residual mold impact.

This work plan has been prepared based on initial investigation completed on August 8 and 9, 2024. If new or additional conditions are identified that may impact the sufficiency of remedial actions as outlined in this report Fulcrum should be contacted to consult and provide additional recommendations.

## 3.0 INITIAL INVESTIGATION

Fulcrum conducted an initial investigation on August 8 and 9, 2024. Fulcrum's inspection observed visible indications of moisture-impact throughout the loss area as presented in Figures 1, 3, and 5.

### 3.1 Remedial Work Area

The remedial area has been identified as the east wing of Columbia Falls High School. The loss occurred from periodic rainstorm events over a period of four weeks during roof replacement. Rainfall impacted the second floor, main floor, and the basement of the east wing. The addition to the south of the east wing was not impacted at the time of the initial investigation.

## 4.0 WATER LOSS CHARACTERIZATION

Following review of information developed during the initial assessment it is the professional opinion that the loss is best characterized as a Category 2 water loss. The water originated as rainwater which would

have been best characterized as Category 1 water. The water passed through unknown materials/conditions within the roofing system and through interstitial building spaces in the facility as it spread within the building. The nature and extent of materials or conditions that the intruding water would have encountered are unknown and as such, it is Fulcrum's opinion that the water would be best characterized as Category 2 by the time it spread throughout the impact area. It is Fulcrum's understanding that the moisture intrusion events occurred periodically over a four-week period and the nature and extent of moisture impact to interior building materials over that period of time is unknown further supporting the Category 2 characterization. As deconstruction occurs, potential exists for the identification of new or additional information that could elevate Fulcrum's characterization of the loss to Category 3.

This work plan has been developed based on the characterization of the water loss as Category 2. If new conditions warrant a change to Category 3, Fulcrum will prepare an update to this work plan.

## 5.0 WORK AREA PREPARATION

The remedial work areas shall be sealed from the balance of the facility by plastic barriers and airtight seals. High efficiency particulate air (HEPA) filtered negative air machines shall be placed with the remedial work areas sufficient to ensure that the work areas are maintained at a negative pressure relative to the balance of the facility. The HEPA exhaust should be routed to the building exterior to the extent feasible. Any HVAC service to the remedial work areas should be taken offline to the extent possible and duct openings covered with airtight seals. Polyethylene sheeting and temporary floor protection shall be placed as necessary to protect existing flooring.

Contents shall be removed as necessary to facilitate outlined remedial actions. Specific requirements of content disposition is beyond the scope of this work plan. Fulcrum recommends that content handling, cleaning, storage and/or disposition be completed in consultation with the owner and in consideration of applicable portions of the IICRC S-500 and S520 documents.

### Asbestos Awareness

Select work actives will result in contact with 9-inch vinyl tile flooring materials and thermal system insulation associated with plumbing that have been identified as asbestos containing materials (ACM) . These materials shall be protected from disturbance by the following engineering controls.

**Flooring** - Tape tight polyethylene sheeting shall be placed over the ACM flooring systems with ram board, or similar product, placed overtop the polyethylene layer to prevent impact to existing KACMs.

**Thermal System Insulation** – If TSI will be disturbed by planned work activities it must be abated in accordance with applicable regulations. Any location of TSI that are not planned for disturbance but that are located proximal to work activities shall be wrapped with polyethylene sheeting and taped sealed.

## 6.0 REMEDIAL DECONSTRUCTION

Contractor shall complete remedial activities as described herein. If the Contractor identifies moisture impacted building materials or mold growth in areas that exceed the requirements of this plan, Contractor shall stop work in the area and contact Fulcrum for additional direction. Additional remedial services may be necessary based on information developed during remedial activities and supplemental inspections.

The moisture impact occurred on the second floor while the roof was removed and impacted ceiling and wall materials on the second floor, main floor, and basement. See Figures 1, 3, and 5 for a graphic representation. Fulcrums initial inspection identified potential for mold impact to occur within hidden locations including interstitial wall and ceiling cavities, behind cabinets, trim and other layered building products. Remedial deconstruction as outlined in this work plan is recommended to ensure that no areas of mold growth might remain at the conclusion of the project. Required remedial deconstruction is summarized as follows. See Figures 2, 4, and 6 for a graphic representation. In areas where both sides of a wall are identified for deconstruction, Contractor may elect to remove one side such that the interstitial portion of the other side is made possible for direct visual inspection.

Flood cuts are generally recommended to be two feet in all areas except walls and ceilings wetted or as noted in descriptions below. Less than two-foot flood cut are allowed where results will still achieve the remedial requirements of this work plan and would decrease the deconstruction/reconstruction by avoiding disturbance of select components (electrical outlets, fixtures, installed equipment, etc.).

### Basement

- B1 (accessed from Room 130)
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection
- Computer Lab (Room 10)
  - Remove visibly moisture-impacted ceiling tile in northeast corner
- Computer Lab Storage
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection
- Room 11 A
  - Remove visibly moisture-impacted ceiling tile in southeast corner and southwest corner
  - 2-foot flood cut southwest corner (adjacent to transition to kitchenette)
- Library (Room 11)
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

## Main Floor

- Lobby
  - Remove ceiling areas with visible localized moisture staining
  - Dry-in-place lower 2-feet of trophy cabinet

- Room 132 (Golf storage under main staircase – west side)
  - 2-ft flood cut interior and exterior sides of south wall
  - 2-foot flood cut exterior east wall (accessible from staircase midpoint landing)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Storage Closet – East Side of Main Staircase
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Hallway
  - Remove all remaining lockers between Room 101 and south stairwell
    - Remove all gypsum wall materials from behind lockers
  - Full wall removal of south wall (common space to Girls Restroom (Room 106)) (above tile/brick only)
  - Full wall removal of northeast portion and central portion of north wall (common space to Room 104) (above tile/brick only)

- Room 130
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 130 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 B
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 C
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 D
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 130 F
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 103
  - Full wall flood cut (from floor to ceiling) of southeast corner on south wall and southwest corner on the south wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 105 A
  - 2-foot flood cut entire south wall and entire west wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 105
  - Full wall removal of the northeast corner (on north wall)
  - Full wall removal on east wall along the pillar and along the southeast corner. 2-foot flood cut remaining portion of east wall
  - 4-foot flood cut south wall (underneath the display case)
  - 2-foot flood cut north wall (from 105A doorway to pillar)
  - 2-foot flood cut entire south wall

- Room 101
  - Remove north portion of ceiling, from west to east wall (approximately 2-feet wide)
  - 2-foot flood cut southwest corner
  - Dry out tunnels

- Room 102 (entry)
  - Dry-in-place north wall
  - Remove north portion of ceiling, from west to east wall (approximately 2-feet wide)

- Room 102
  - Pull FRP from south wall (around sink) to allow for inspection
  - Full wall removal of northwest corner (on west wall)
  - Full wall removal of south central area (on south wall, from sink to east edge of windows to Room 104)
  - 2-foot flood cut southwest area of south wall (from west corner to old doorway to Room 104)
  - 2-foot flood cut south half of the west wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 104
  - Full removal of closet
  - Full wall removal of southwest corner (on west wall)
  - Full wall removal of southeast corner (on south wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 106 (Girls Restroom)
  - Full wall removal of north wall (above bricks only)

- Room 108 (Boys Restroom)
  - Full wall removal (above bricks only) in central area of south wall (approximately 4-foot wide section)

- Room 110
  - 2-foot flood cut entire north wall

- Room 112
  - Full wall removal on north wall
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 112 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 112 Storage
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 144
  - Remove entire ceiling
  - Full wall removal of northeast corner (north wall and east wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 144 A
  - Remove visually moisture-impacted ceiling tile in northwest corner

- Room 146
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 146 A
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 146 B
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 D – Bathroom
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 E – Laundry
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 A
  - Full wall removal of north half of the east wall (from northeast corner to middle pillar)
  - 2-foot flood cut along southwest corner of wall common to Room 113C
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 113 F – Pantry
  - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 113 C
  - Remove ceiling along west wall (visible moisture staining)

- Room 113 B
  - 2-foot flood cut west wall of desk cubby (cubby located in northeast corner of room)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

- Room 114
  - Remove 12-inch vinyl tile flooring on elevated platform (south half of Room 114)
  - 2-foot flood cut from west doorway (Room 114 entrance doorway) to ramp
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection
    - If toe-kicks evidence mold impact, then flood-cut backside of interstitial wall space for direct visual inspection
      - If interstitial wall space evidence mold impact, then remove cabinets from interior space

        - Potential full wall removal of south wall – moisture identified above south wall cabinets

- Room 115
    - Full removal of closet

- Room 116
    - Full removal of closet
    - Full wall removal of west half of the north wall
    - Full wall removal of southwest corner of south wall
    - Remove and replace visibly moisture-impacted ceiling

- Room 117
    - 2-foot flood cut along center portion of south wall floor (approximately 5-feet wide)
    - 1-foot flood cut a long center portion of south wall ceiling (approximately 5-feet wide)

- Room 118
    - 2-foot flood cut west wall

- Room 119
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120 A
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 120 B
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

- Room 121
    - No remedial recommendations – all inspected materials identified to be dry at time of inspection

## Second Floor

- Hallway
  - Pull all lockers
  - Full wall removal of west wall from north end of Room 205 to south end of Room 213 (above tile/brick only)
  - Full wall removal of east wall from north end of Room 204 to south end of Room 214 (above tile/brick only)

- Room 201
  - Pull all cabinets
  - Full wall removal of north, east, south, and west walls
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 201 A
  - Full wall removal of east and west walls
  - 2-foot flood cut of south wall

- Room 202
  - Pull all cabinets from south wall
  - Full wall removal of south and west walls
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 203
  - Remove damaged plaster on north wall
  - Full wall removal of south wall
  - Full wall removal of southeast corner (east wall from doorway to south wall)
  - Full wall removal of east wall for portion common to Room 201 A
  - 2-foot flood cut central area of west wall (adjacent to doorway – north side)

- Room 204
  - Full wall removal of north, south, and west walls (exception of portion of gypsum enclosing HVAC ducts in north central area)
  - 2-foot flood cut portion of gypsum enclosing HVAC ducts in north central area
    - Will need to inspect interior of HVAC enclosed space
    -

- Room 205
  - Full wall removal of east wall
  - Full removal of closet
  - 2-foot flood cut along floor of north wall and south wall
  - 1-foot flood cut along ceiling of north wall and south wall

- Room 206
  - Pull all cabinets from north wall
  - Full wall removal of south and west wall
  - Full wall removal of east half of north wall (from cabinet to east wall)
  - Drill holes in toe-kicks of cabinets or lay cabinets on sides to allow for direct visual inspection

- Room 208 (Girls Restroom)
  - Remove rest of ceiling (southeast corner) (above tile/brick only)
  - Full wall removal of north and east walls of entry to bathroom (above tile/brick only)
  - Full wall removal of north wall (above tile/brick only)
  - Full wall removal of central portion of the south wall (above tile/brick only)

- Room 210 (Boys Restroom)
  - Full wall removal of north, east, and south walls of entry to bathroom (above tile/brick only)
  - Full wall removal of north wall from entry to closet door (above tile/brick only)
  - Full wall removal of south wall (above tile/brick only)

- Room 209
  - Full wall removal of east and south wall
  - 2-foot flood cut of north wall along floor
  - 1-foot flood cut of north wall along ceiling

- Room 212
  - Full wall removal of north, south, and west walls

- Room 213
  - Full wall removal of north and east walls (pull cabinets from east wall with wall)
  - 2-foot flood cut of south wall
  - 2-foot flood cut of southeast corner (of east wall)

- Room 213 A
  - Full wall removal of north wall
  - Remove remaining ceiling materials
  - 2-foot flood cut of east wall

- Room 213 B
  - Full wall removal of east and south walls
  - Remove rest of ceiling materials (west half of room)

- Room 214
  - Remove full closet

- Full wall removal of west and north wall
- 2-foot flood cut of south wall

- Room 217
  - Full wall removal of east wall from east door to 1st pillar (north of door)
    - No identified impact to closet
  - 4-foot flood cut along ceiling of north wall from west windows to center of door
  - 2-foot flood cut along floor of north wall from west windows to east wall

See Figures 2, 4, and 6 for a visual representation of all remedial recommendations.

## 7.0 REMEDIAL CLEANING

Potential exists for minor areas of residual mold presence on remaining building materials following completion of remedial deconstruction as outlined in Section 6.0 above. If areas in excess of 2 square feet are encountered, Fulcrum should be notified to document and consult. Cleaning of any residual mold growth shall be conducted in accordance with this work plan.

### 7.1 Cleaning of Mold Impact

Any mold growth not addressed by deconstruction as outlined in Section 6.0 of this work plan shall be cleaned as follows:

Mold cleaning methodology shall be by either abrasive blasting to a clean wood surface or by hand cleaning. If the Contractor elects to hand clean, the following process applies.

1. The Contractor shall clean mold impacted building components with abrasive scrubbing pads, wire brushes, or similar as necessary to remove mold impact from the affected surfaces. Cleaning shall be accomplished utilizing a quaternary ammonia solution or equivalent sanitizer to remove mold growth. Dilution of cleaner shall be completed as specified by the manufacturer. Allow for a minimum of 15 minutes of contact time between the surface cleaning and the sanitizer. Damp-wipe the cleaned surfaces using sponges, rags, or towels as described to remove mold growth and dust so that no growth, dust, or debris remains.
2. The contractor shall not be required to remove residual mold-type staining from cleaned wood surfaces but may be required to apply a tinted encapsulant following acceptable third-party visual inspection.
3. All work areas shall be vacuumed clean with HEPA filtered vacuum.

The project cleaning standard shall require that no visible mold growth be present on any surfaces, that wiping of surfaces is not evidence any dust or source of discoloration, and that no settled dust or debris be observable. The project cleaning standard anticipates that residual discoloration to wood building materials associated with digestive enzymes from the mold may be present following the completion of mold remediation and that such areas will be covered with a white tinted encapsulant following visual inspection.

### 7.2 General Cleaning

Following completion of remedial deconstruction and any mold cleaning, the Contractor shall clean the work area free of any residual mold impact, debris, or dust (white glove clean) prior to requesting validation inspection.

The work area will then be released to a General Contractor for reconstruction. Post construction cleaning prior to re-occupancy by staff and patients should be completed as required by the owner and is beyond the scope of this remedial work plan.

## 8.0 VALIDATION INSPECTION

Once removal, cleaning, and drying is completed as outlined in this work plan, and prior to any coating application or reconstruction that would limit the visual inspection, an Indoor Environmental Professional (IEP) should conduct a validation inspection in accordance with the IICRC S520 Standard. Fulcrum will provide an IEP for the final inspection and will be available to provide validation inspections as needed to best accelerate the release of work areas to the reconstruction contractor. Contractor shall provide access to the work area and have at least one employee, or supervisor, or foreman level standing onsite during inspection. At a minimum, the validation inspection will include:

- Completion of a visual inspection to confirm that the requirements of the RWP have been met and that no residual moisture or mold impact is present in remaining building materials.
- At the discretion of the CIH, and in consideration of conditions identified during the remedial action, Fulcrum may supplement the visual inspection with air testing. Work area concentrations shall be considered passed if test results find conditions within the work area to be consent with concurrently tested non-impacted background areas or exterior conditions.

## 9.0 WORKER SAFETY AND HEALTH

Contractor shall hold the sole burden for the evaluation of safety and health of workers, subcontractors, etc. Nothing within this remedial work plan shall substitute, supersede, or otherwise limit the requirements of Contractor for safety and health under pertinent regulations. Contractor is responsible for determining requisite worker protection requirements. Fulcrum recommends that Contractor consider the following actions that are commonly utilized for microbial remediation projects.

- Full-bodied disposable coveralls (Tyvek or equivalent) worn over normal work clothing and boots.
- Half-face, negative pressure air-purifying respirators equipped with HEPA cartridges and safety glasses. Full-face negative pressure, air-purifying respirators should be made available to all workers upon request. If respirators are required or requested, use and selection shall be completed in accordance with a Written Respiratory Protection Plan and the requirements of Federal, State, and Local regulations.

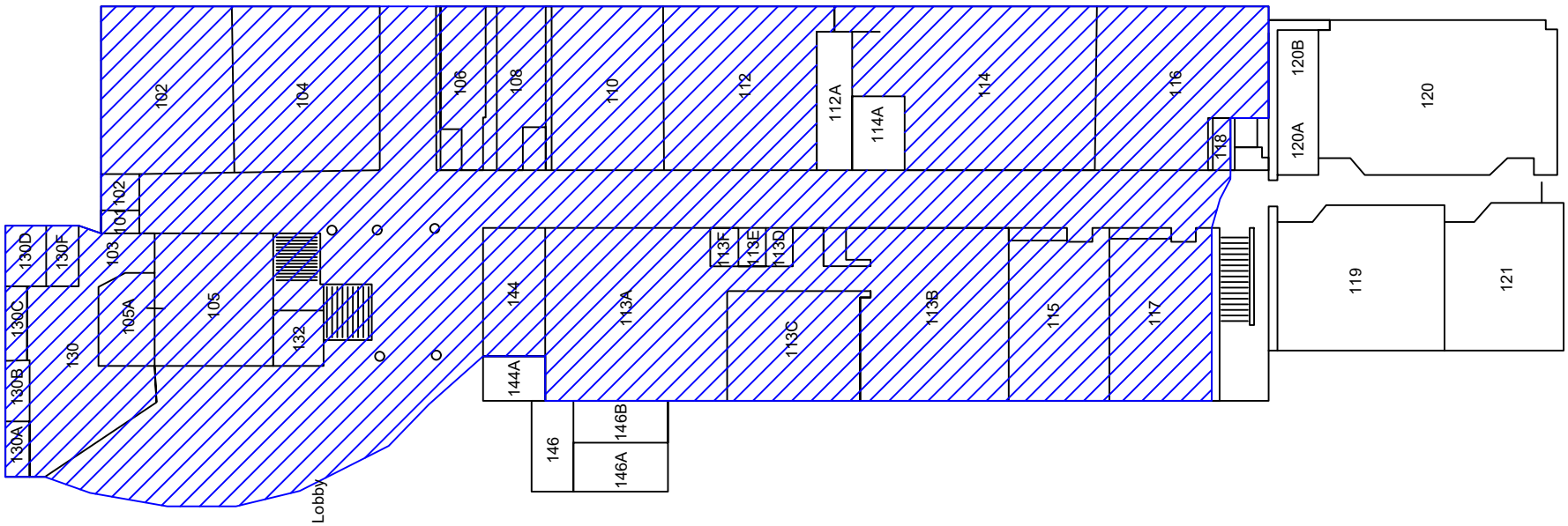
- Use cotton or equivalent work gloves over rubber or nitrile-type gloves to prevent cuts.
- Clean coveralls by HEPA-vacuuming as part of decontamination procedures prior to changing coveralls or changing back to street clothes.
- Wash hands and faces at breaks, including lunch, and at the end of the day prior to eating, drinking, chewing gum or tobacco, smoking, or applying cosmetics.
- Prohibit eating, drinking, chewing gum or tobacco, smoking or applying cosmetics in the work area.

## 10.0 LIMITATIONS

Fulcrum's scope of work for this project was limited to the preparation of an RWP for the remediation and cleaning of moisture and mold impacted building materials present in the work area. Conditions present at the time of the preliminary inspection were used to prepare this RWP. Conditions may have changed since the initial inspection was completed and additional areas of work may be necessary. Fulcrum has performed these services in accordance with generally accepted industrial hygiene standards of care that exist for environmental professionals at the time of the survey. No warranty, expressed or implied, is made.

## Figures

Figure 1: Main Floor Moisture Impact Map
Figure 2: Main Floor Remedial Recommendations Map
Figure 3: Basement Moisture Impact Map
Figure 4: Basement Remedial Recommendations Map
Figure 5: Second Floor Moisture Impact Map
Figure 6: Second Floor Remedial Recommendations Map




## LEGEND

Area of Identified Moisture-Impact

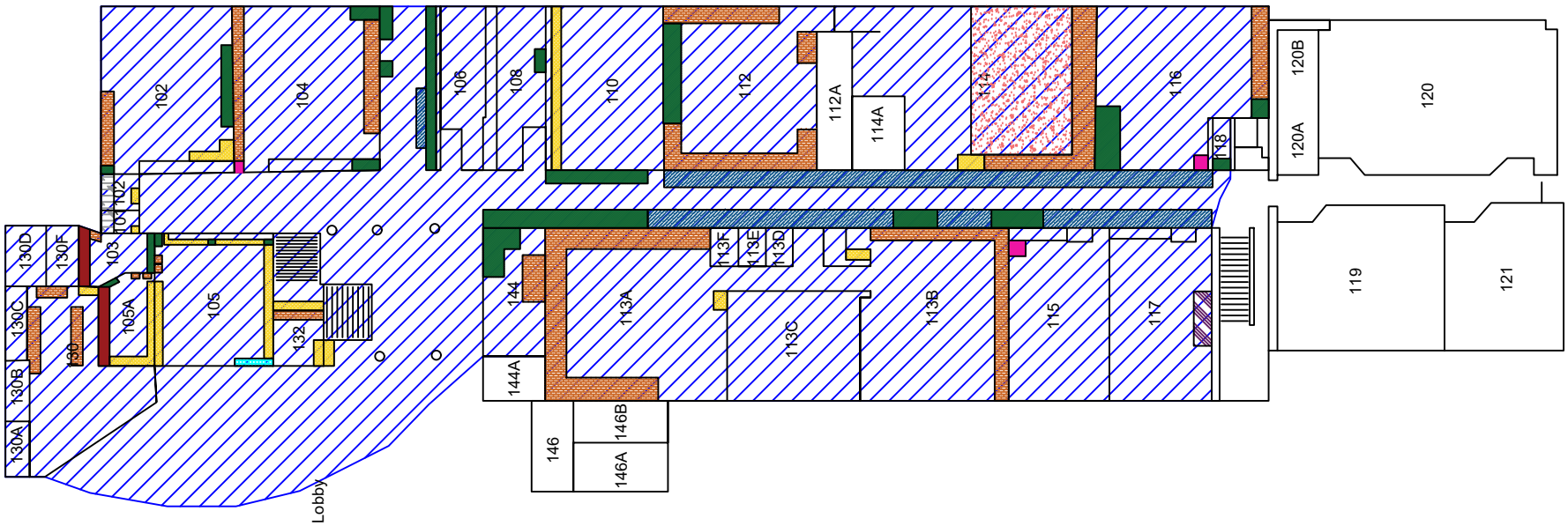
N

# Figure 1: Main Floor Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Floor to ceiling flood cut
- 4-foot flood cut
- 2-foot flood cut
- 2-foot flood cut along floor and 1-foot flood cut along ceiling
- Dry in place
- Drill toe kicks of cabinets and inspect for impact
- Remove lockers
- Remove moisture impacted flooring
- Remove moisture impacted ceiling materials
- Remove walls and ceiling materials associated with closet

N

# Figure 2: Main Floor Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
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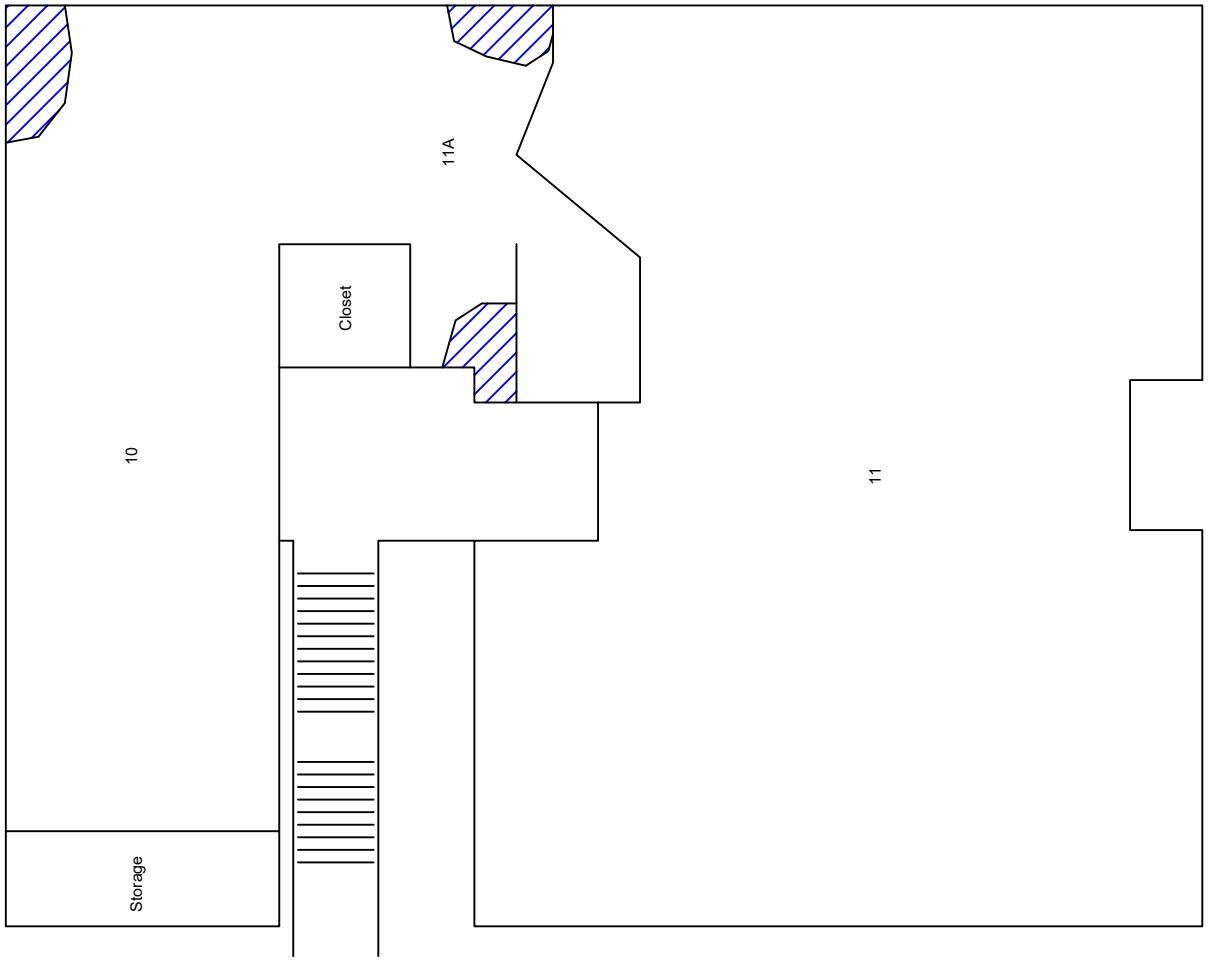
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




LEGEND

N

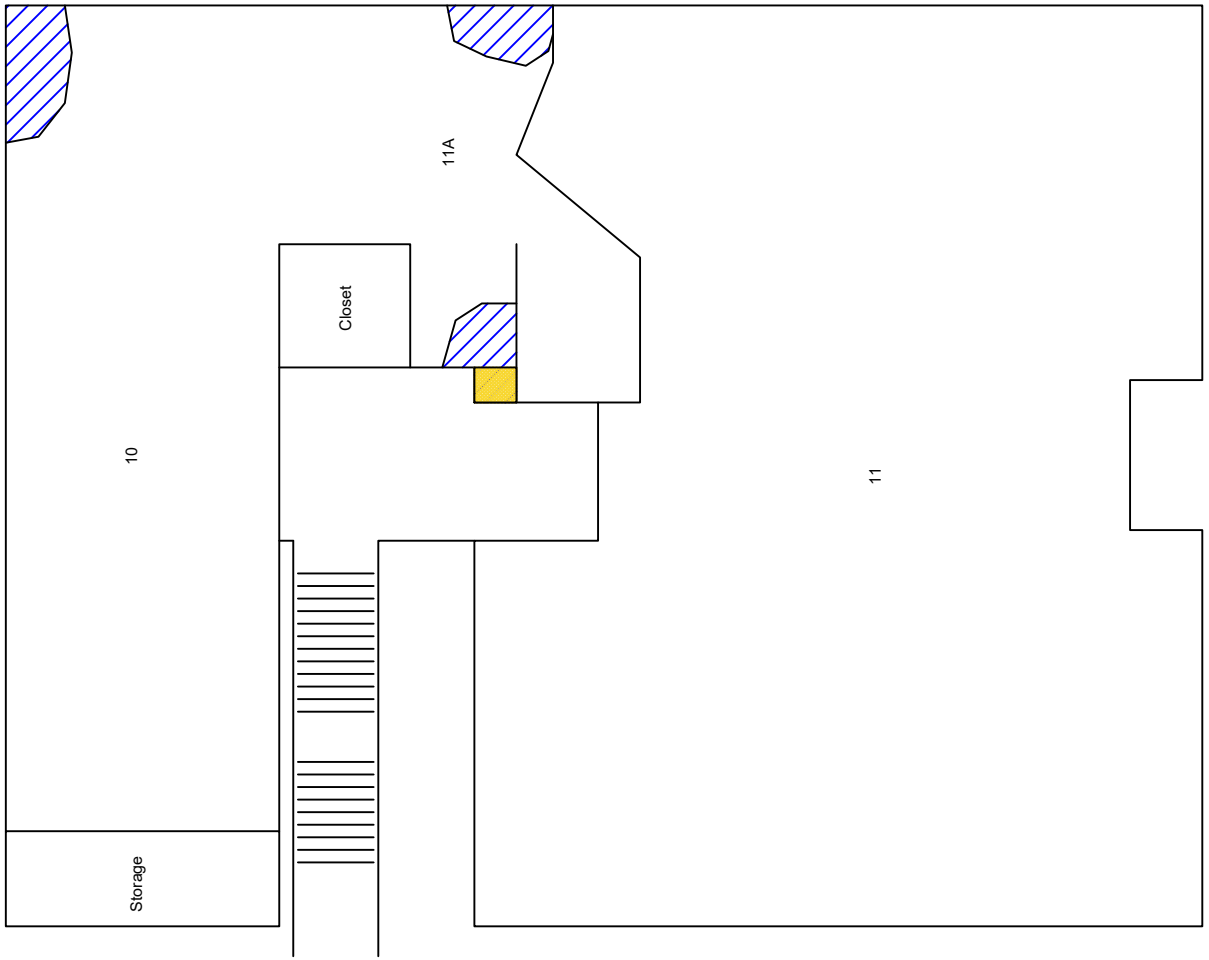
Area of Identified Moisture-Impact

# Figure 3: Basement Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244195.00 |
| DATE: August 7, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

N

2-foot flood cut

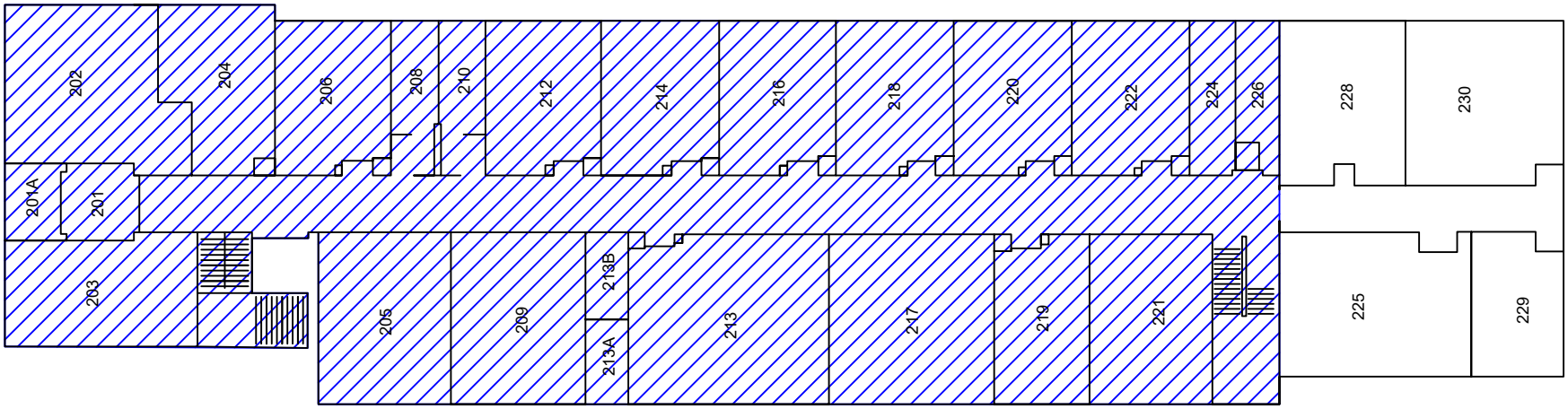
Remove moisture impacted ceiling materials

# Figure 4: Basement Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244195.00 |
| DATE: August 7, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Area of Identified Moisture-Impact

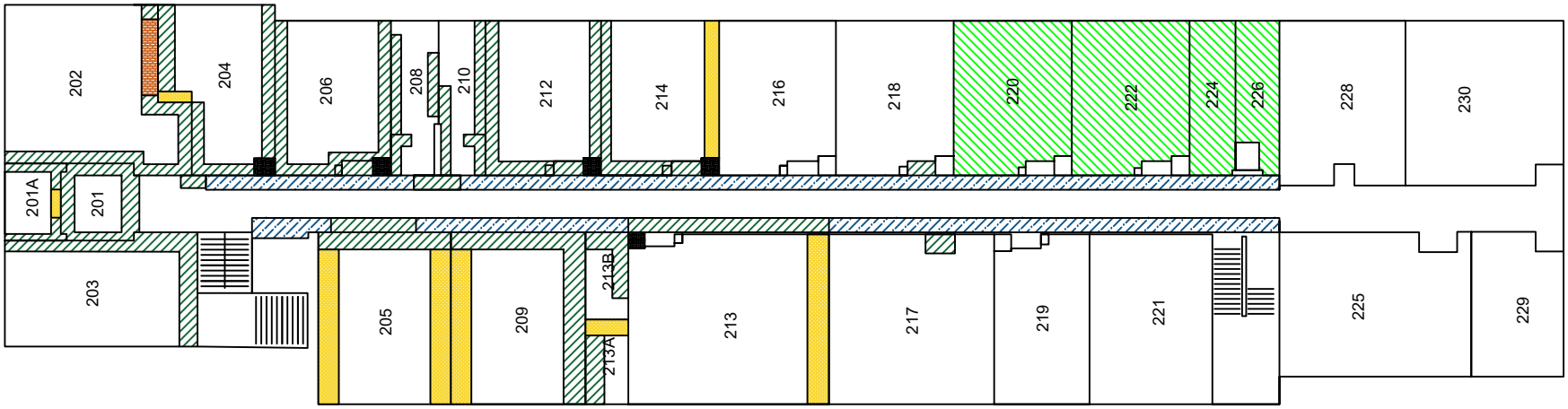
N

# Figure 5: Second Floor Moisture Impact Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Floor to ceiling flood cut
- 2-foot flood cut
- 2-foot flood cut along floor and 1-foot flood cut along ceiling
- Drill cabinets for inspection
- Remove lockers
- Remove walls and ceiling materials associated with closet
- Needs to be inspected

*Tape tight polyethylene sheeting with ram board over areas with 9-inch ACM floor tile

N

# Figure 6: Second Floor Remedial Recommendations Map

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Nick Hays | PROJECT NUMBER: 244225.00 |
| DATE: August 12, 2024 | REVIEWED BY: Roque Reyes |

## APPENDIX A

Professional Certifications

# The Board for Global EHS Credentialing (BGC)

through its vested authority, hereby confirms that

# Travis L. Trent

has met all requirements of education, experience, and examination, and on-going maintenance set forth through the BGC's American Board of Industrial Hygiene®'s (ABIH®) credentialing division for re-certification in the Comprehensive Practice of Industrial Hygiene and is thereby conferred the credential of

## Certified Industrial Hygienist® (CIH®)

The aforenamed individual is given all rights, privileges, and responsibilities as both a diplomate of the BGC and holder of the CIH credential, provided that the credential is not suspended or revoked, and it is renewed annually. Moreover, the holder must meet all recertification requirements, including the obligation to practice ethically as prescribed by the BGC.

| | |
|---|---|
| Credential Number: | 9850 CP |
| Award Date: | November 19, 2010 |
| Expiration Date: | June 1, 2026 |

Cynthia Hanko, CIH
Chair of the Board of Directors

Ulric K. Chung, MCS, PhD
Chief Executive Officer and Secretary

## APPENDIX C

Photograph Documentation



**Photograph #1: 08/08/2024**

**Pre-Work Inspection**
View of the Columbia Falls High School located at 601 13th Street West in Columbia Falls, Montana.



**Photograph #2: 08/08/2024**

**Pre-Work Inspection**
View of the 2nd floor of the East Wing. Replacement of the roof system began in July of 2024 and was completed in September of 2024. Rain water was introduced to the East Wing during the replacement process.



**Photograph #3: 08/09/2024**

**Pre-Work Inspection**
Typical view of work debris in classrooms during the roof replacement process.



**Photograph #4: 08/09/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings along the lower wall area on the second floor.



**Photograph #5: 08/09/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings along the upper walls observed on the second floor.



**Photograph #6: 08/09/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed above impacted closets on the 2nd floor.



**Photograph #7: 08/09/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed inside impacted closets on the 2nd floor.



**Photograph #8: 08/09/2024**

**Pre-Work Inspection**
Typical view of moisture impacted flooring delaminating on the 2nd floor.



**Photograph #9: 08/09/2024**

**Pre-Work Inspection**
View of moisture impacted ceiling materials within the 2nd floor women's bathroom (Room 208).



**Photograph #10: 08/09/2024**

**Pre-Work Inspection**
View of moisture-impacted ceiling debris within Room 208.



**Photograph #11: 08/09/2024**

**Pre-Work Inspection**
View of moisture-impacted delaminated TSI and miscellaneous debris within the 2nd floor men's bathroom storage closet (Room 210A).



**Photograph #12: 08/09/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings within the 2nd floor hallway.



**Photograph #13: 08/08/2024**

**Pre-Work Inspection**
View of Office 130



**Photograph #14: 08/08/2024**

**Pre-Work Inspection**
View of moisture staining observed within light fixtures located within Room 130.



**Photograph #15: 08/08/2024**

**Pre-Work Inspection**
View of moisture-stained ceiling tiles within Room 130.



**Photograph #16: 08/08/2024**

**Pre-Work Inspection**
Typical view of moisture staining observed on desks within Room 130.



**Photograph #17: 08/08/2024**

**Pre-Work Inspection**
View of Room 103. Drying equipment observed drying moisture impacted carpet.



**Photograph #18: 08/08/2024**

**Pre-Work Inspection**
View of elevated moisture readings along lower portion of walls in Room 103.



**Photograph #19: 08/08/2024**

**Pre-Work Inspection**
View of elevated moisture readings along upper portion of walls in Room 103.



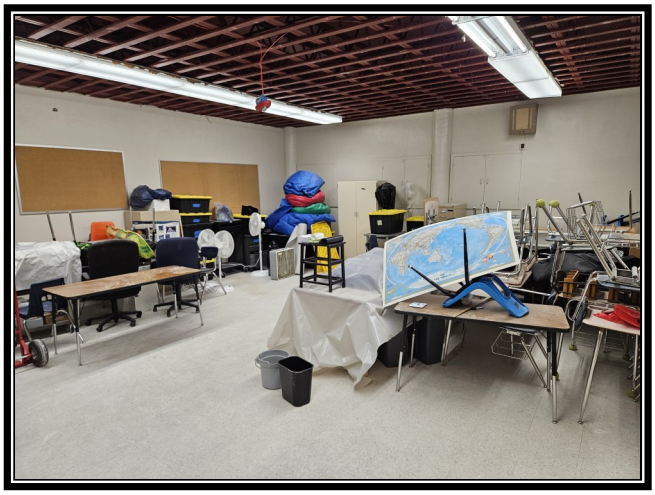
**Photograph #20: 08/08/2024**

**Pre-Work Inspection**
View of Room 105A.



**Photograph #21: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed within Room 105A.



**Photograph #22: 08/08/2024**

**Pre-Work Inspection**
View of Room 105.



**Photograph #23: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed within Room 105.



**Photograph #24: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed along trophy case within Room 105A.




**Photograph #25: 08/08/2024**

**Pre-Work Inspection**
View of Room 101 (janitors closet).



**Photograph #26: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed within Room 101.



**Photograph #27: 08/08/2024**

**Pre-Work Inspection**
View of Room 102 Entry.



**Photograph #28: 08/08/2024**

**Pre-Work Inspection**
View of Room 102.



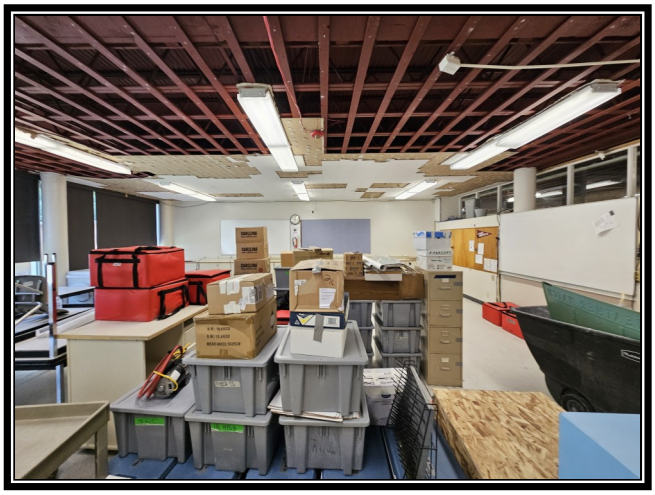
**Photograph #29: 08/08/2024**

**Pre-Work Inspection**
View of delaminated ceiling tiles in Room 102.



**Photograph #30: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings observed within Room 102.



**Photograph #31: 08/08/2024**

**Pre-Work Inspection**
View of Room 104.



**Photograph #32: 08/08/2024**

**Pre-Work Inspection**
View of moisture impacted cabinets within Room 104.



**Photograph #33: 08/08/2024**

**Pre-Work Inspection**
View of moisture staining in the display case within Room 104.



**Photograph #34: 08/08/2024**

**Pre-Work Inspection**
View of standing water and moisture staining within Room 104.



**Photograph #35: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in Room 104.



**Photograph #36: 08/08/2024**

**Pre-Work Inspection**
View of Room 146.



**Photograph #37: 08/08/2024**

**Pre-Work Inspection**
View of moisture staining on ceiling tiles within Room 146.



**Photograph #38: 08/08/2024**

**Pre-Work Inspection**
View of moisture staining on walls within Room 146.



**Photograph #39: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings within Room 146.



**Photograph #40: 08/08/2024**

**Pre-Work Inspection**
View of Room 110.



**Photograph #41: 08/08/2024**

**Pre-Work Inspection**
View of delaminated ceiling tiles within Room 110.



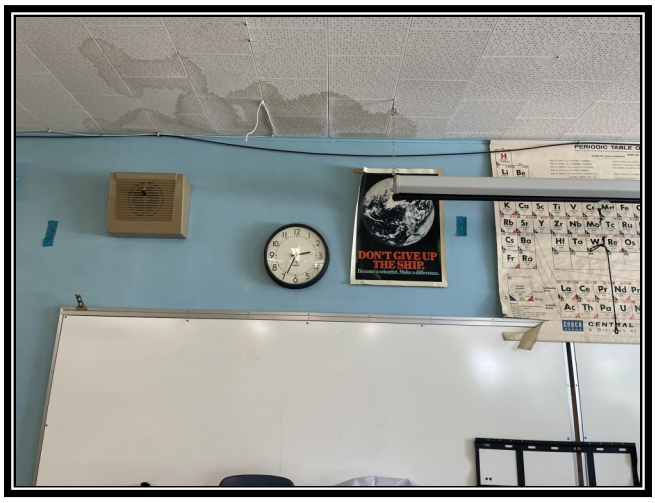
**Photograph #42: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings within Room 110.



**Photograph #43: 08/08/2024**

**Pre-Work Inspection**
View of Room 112.




**Photograph #44: 08/08/2024**

**Pre-Work Inspection**
View of observed moisture staining along the ceiling within Room 112.



**Photograph #45: 08/08/2024**

**Pre-Work Inspection**
View of delaminated ceiling tiles within Room 112.




**Photograph #46: 08/08/2024**

**Pre-Work Inspection**
Typical view of moisture staining on walls within Room 112.



**Photograph #47: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in ceiling materials in Room 112.




**Photograph #48: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in wall materials in Room 112.




**Photograph #49: 08/08/2024**

**Pre-Work Inspection**
View of Room 112A.




**Photograph #50: 08/08/2024**

**Pre-Work Inspection**
View of Room 114A.



**Photograph #51: 08/08/2024**

**Pre-Work Inspection**
View of Room 113.



**Photograph #52: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tiles in Room 113 (see arrow).



**Photograph #53: 08/08/2024**

**Pre-Work Inspection**
View of Room 113A.



**Photograph #54: 08/08/2024**

**Pre-Work Inspection**
View of delaminated ceiling tiles in Room 113A.



**Photograph #55: 08/08/2024**

**Pre-Work Inspection**
View of water collection within Room 113A.



**Photograph #56: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in Room 113A.



**Photograph #57: 08/08/2024**

**Pre-Work Inspection**
View of Room 113F.



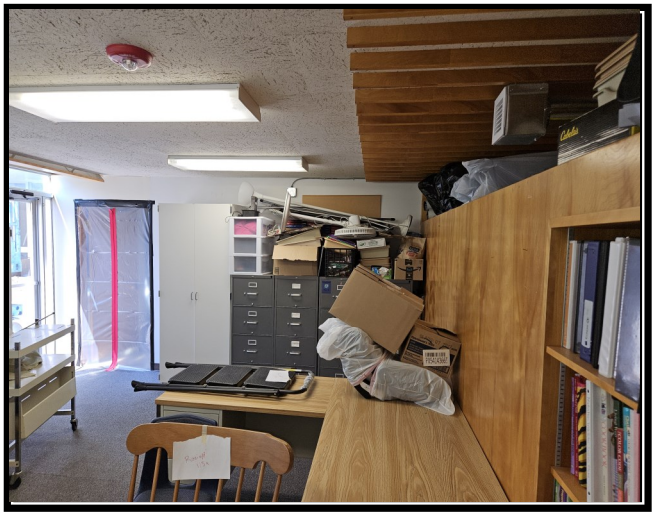
**Photograph #58: 08/08/2024**

**Pre-Work Inspection**
View of Room 113B.



**Photograph #59: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in Room 113B.



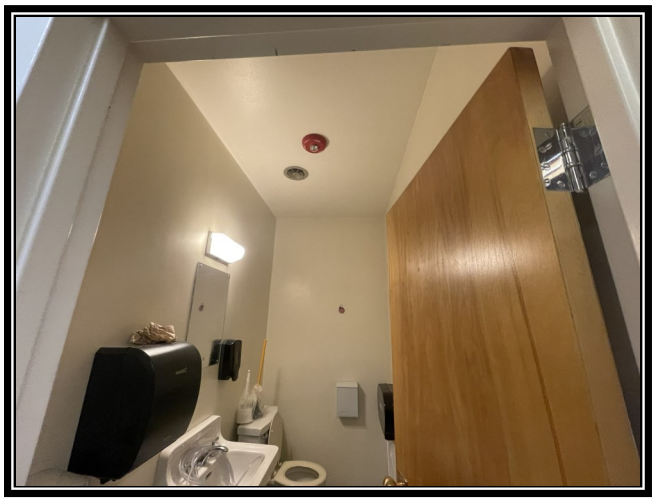
**Photograph #60: 08/08/2024**

**Pre-Work Inspection**
View of Room 113C.



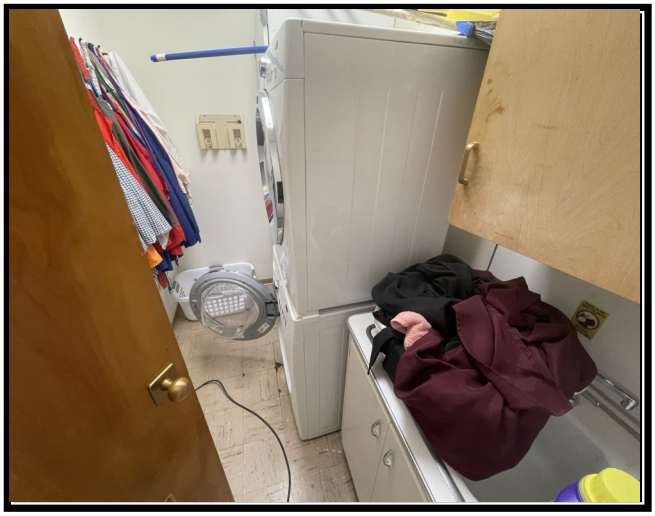
**Photograph #61: 08/08/2024**

**Pre-Work Inspection**
View of observed moisture staining along ceiling tiles in Room 113C.



**Photograph #62: 08/08/2024**

**Pre-Work Inspection**
View of Room 113D (bathroom).



**Photograph #63: 08/08/2024**

**Pre-Work Inspection**
View of Room 113E (laundry room).



**Photograph #64: 08/08/2024**

**Pre-Work Inspection**
View of Room 114.



**Photograph #65: 08/08/2024**

**Pre-Work Inspection**
View of moisture staining along the ceiling in Room 114.



**Photograph #66: 08/08/2024**

**Pre-Work Inspection**
View of elevated moisture readings within the ceiling in Room 114.



**Photograph #67: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in wall materials in Room 114.



**Photograph #68: 08/08/2024**

**Pre-Work Inspection**
View of Room 115.




**Photograph #69: 08/08/2024**

**Pre-Work Inspection**
View of elevated moisture readings within closet of Room 115.



**Photograph #70: 08/08/2024**

**Pre-Work Inspection**
View of Room 117.



**Photograph #71: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tile and elevated moisture readings within Room 117.



**Photograph #72: 08/08/2024**

**Pre-Work Inspection**
View of Room 116.



**Photograph #73: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tile within Room 116.



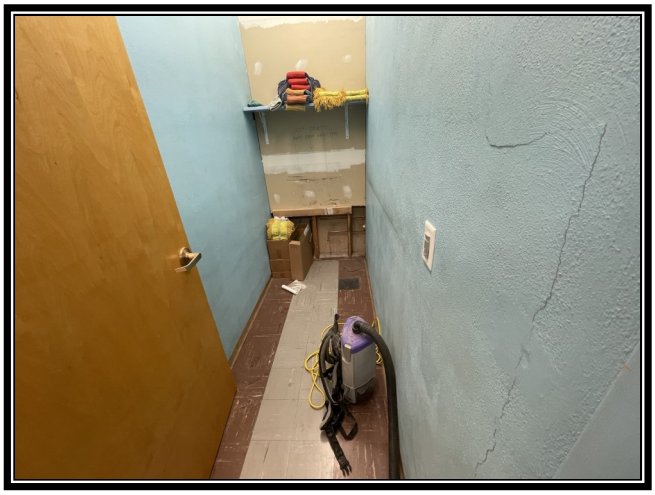

**Photograph #74: 08/08/2024**

**Pre-Work Inspection**
View of and elevated moisture readings within closet of Room 116.



**Photograph #75: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings within Room 116.



**Photograph #76: 08/08/2024**

**Pre-Work Inspection**
View of Room 118.



**Photograph #77: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings in 1st floor hallways.



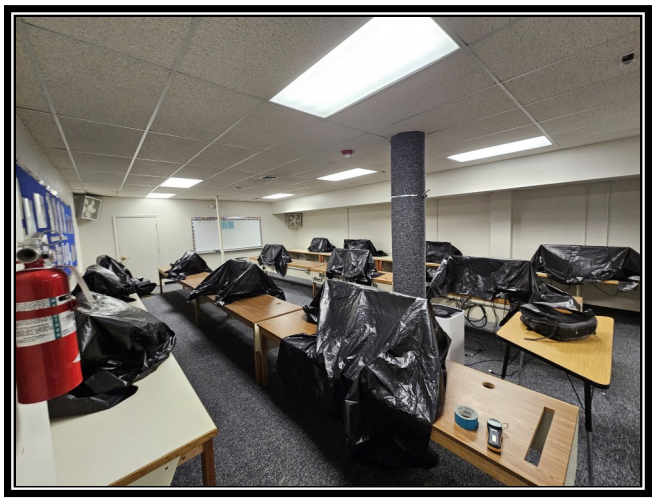
**Photograph #78: 08/08/2024**

**Pre-Work Inspection**
Typical view of elevated moisture readings from behind lockers in the 1st floor hallways.



**Photograph #79: 08/08/2024**

**Pre-Work Inspection**
View of basement lobby area.



**Photograph #80: 08/08/2024**

**Pre-Work Inspection**
View of Room 10.



**Photograph #81: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tile in Room 10.



**Photograph #82: 08/08/2024**

**Pre-Work Inspection**
View of Room 10 Storage.



**Photograph #83: 08/08/2024**

**Pre-Work Inspection**
View of Room 11A.



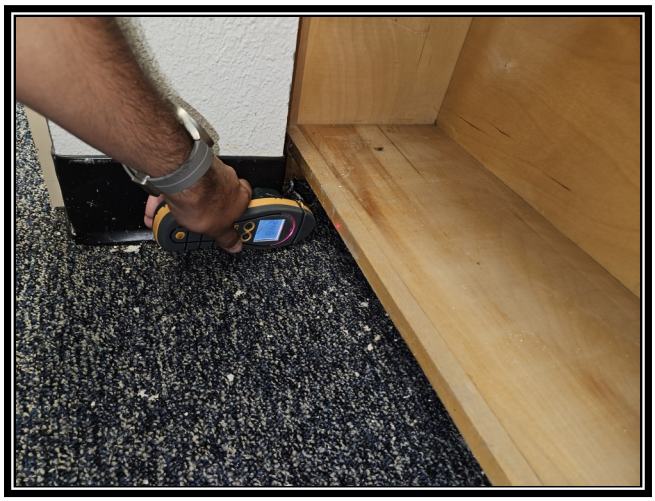
**Photograph #84: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tile in Room 11A.




**Photograph #85: 08/08/2024**

**Pre-Work Inspection**
View of moisture stained ceiling tile in Room 11A.



**Photograph #86: 08/08/2024**

**Pre-Work Inspection**
View of elevated moisture readings in Room 11A.




**Photograph #87: 08/08/2024**

**Pre-Work Inspection**
View of Room 11.



**Photograph #88: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed within the lobby area of the 1st floor.

Represented building materials were removed as part of the remedial action.



**Photograph #89: 08/13/2024**

**Work-in-Progress Inspection**
View of remedial work deconstruction completed in Room 105.



**Photograph #90: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed within select areas of wallboard exposed in Room 105.

Represented building materials were cleaned as part of the remedial action.



**Photograph #91: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed within Room 105A.

Representative building materials were removed as part of the remedial action.



**Photograph #92: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed in Room 101.

Representative building materials were removed as part of the remedial action.



**Photograph #93: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed in Room 132.

Representative building materials were removed as part of the remedial action.



**Photograph #94: 08/13/2024**

**Work-in-Progress Inspection**
View of suspect mold growth observed on top of a southeast cabinet within Room 113A.

Representative building materials were cleaned as part of the remedial action.



**Photograph #95: 08/14/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted ceiling materials from Room 106.



**Photograph #96: 08/14/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted ceiling materials from Room 108.



**Photograph #97: 08/14/2024**

**Work-in-Progress Inspection**
View of remedial work completed within Room 146.



**Photograph #98: 08/14/2024**

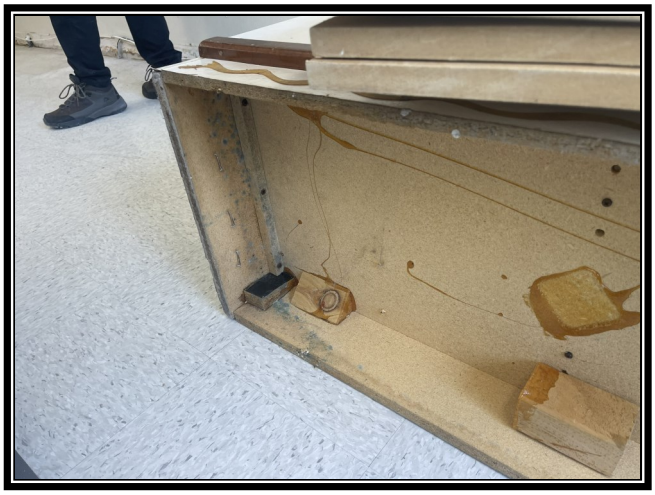
**Work-in-Progress Inspection**
View of suspect mold impacted wallboard materials observed in Room 102.

Representative building materials were removed as part of the remedial action.



**Photograph #99: 08/14/2024**

**Work-in-Progress Inspection**
View of remedial work complete in Room 106.



**Photograph #100: 08/15/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted toe-kicks associated with cabinets in Room 102.

Representative building materials were removed as part of the remedial action.



**Photograph #101: 08/15/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted toe-kicks associated with cabinets in Room 132.

Representative building materials were removed as part of the remedial action.



**Photograph #102: 08/15/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted toe-kicks associated with cabinets in Room 105A.

Representative building materials were removed as part of the remedial action.




**Photograph #103: 08/15/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard observed in Room 202.

Representative building materials were removed as part of the remedial action.



**Photograph #104: 08/15/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard observed in Room 203.

Representative building materials were removed as part of the remedial action.



**Photograph #105: 08/20/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard observed in Room 201.

Representative building materials were removed as part of the remedial action.



**Photograph #106: 08/20/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted built-in cabinets observed in Room 145.

Representative building materials were cleaned as part of the remedial action.



**Photograph #107: 08/21/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard observed in Room 114.

Representative building materials were removed as part of the remedial action.



**Photograph #108: 08/21/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted floor/stage in Room 114.

Representative building materials were removed as part of the remedial action.



**Photograph #109: 08/21/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard system observed in Room 208

Representative building materials were removed as part of the remedial action.



**Photograph #110: 08/21/2024**

**Work-in-Progress Inspection**
View of suspect mold impacted wallboard observed in Room 217.

Representative building materials were removed as part of the remedial action.



**Photograph #111: 08/13/2024**

**Post-Work Inspection**
View of remedial work completed in Room 130.



**Photograph #112: 08/13/2024**

**Post-Work Inspection**
View of remedial work completed in Room 103.



**Photograph #113: 08/13/2024**

**Post-Work Inspection**
View of remedial work completed in Room 103.



**Photograph #114: 08/14/2024**

**Post-Work Inspection**
View of remedial work completed in Room 101.



**Photograph #115: 08/14/2024**

**Post-Work Inspection**
View of remedial work completed in Room 146.



**Photograph #116: 08/14/2024**

**Post-Work Inspection**
View of remedial work completed in Room 146A.



**Photograph #117: 08/14/2024**

**Post-Work Inspection**
View of remedial work completed in the North Hallway of the 1st floor.



**Photograph #118: 08/14/2024**

**Post-Work Inspection**
Typical view of remedial work completed in the North Hallway of the 1st floor.



**Photograph #119: 08/14/2024**

**Post-Work Inspection**
Typical view of remedial work completed in the North Hallway of the 1st floor.



**Photograph #120: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in the Room 102 Entry.



**Photograph #121: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in Room 106.

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**Photograph #122: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in Room 108.



**Photograph #123: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in the South Hallway of the 1st floor.



**Photograph #124: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in the South Hallway of the 1st floor.



**Photograph #125: 08/15/2024**

**Post-Work Inspection**
View of remedial work completed in the South Hallway of the 1st floor.



**Photograph #126: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 102.



**Photograph #127: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 102.



**Photograph #128: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 104.



**Photograph #129: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 104.



**Photograph #130: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in the East Hallway of the 1st floor.



**Photograph #131: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in the East Hallway of the 1st floor.



**Photograph #132: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in the East Hallway of the 1st floor.



**Photograph #133: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 105.



**Photograph #134: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 105.



**Photograph #135: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 110.



**Photograph #136: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 110.



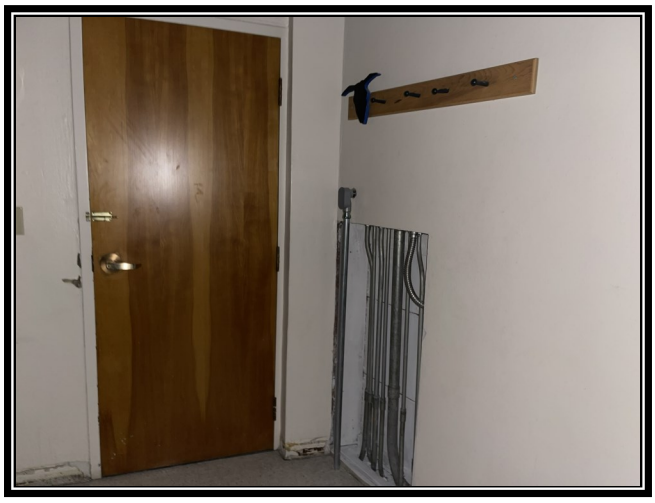
**Photograph #137: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 113A.



**Photograph #138: 08/20/2024**

**Post-Work Inspection**
View of remedial work completed in Room 113C.



**Photograph #139: 08/21/2024**

**Post-Work Inspection**
View of remedial work completed in Room 105A.



**Photograph #140: 08/21/2024**

**Post-Work Inspection**
View of remedial work completed in Room 113A.



**Photograph #141: 08/21/2024**

**Post-Work Inspection**
Typical view of toe-kick space of all cabinets in Room 113A.



**Photograph #142: 08/21/2024**

**Post-Work Inspection**
View of remedial work completed in the Lobby.



**Photograph #143: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 201.



**Photograph #144: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 201A.



**Photograph #145: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 202.



**Photograph #146: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 203.



**Photograph #147: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 204.



**Photograph #148: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 206.



**Photograph #149: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 206.



**Photograph #150: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 206.



**Photograph #151: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 210.



**Photograph #152: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 212.



**Photograph #153: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 212.



**Photograph #154: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 212.



**Photograph #155: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 214.



**Photograph #156: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 216.



**Photograph #157: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 218.



**Photograph #158: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 220.



**Photograph #159: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 222.



**Photograph #160: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 221.



**Photograph #161: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 219.



**Photograph #162: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 217.



**Photograph #163: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 213.



**Photograph #164: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 213.



**Photograph #165: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 213A.



**Photograph #166: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 213B.



**Photograph #167: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 209.



**Photograph #168: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 132.



**Photograph #169: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 145.



**Photograph #170: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 113B.



**Photograph #171: 08/22/2024**
**Post-Work Inspection**
View of remedial work completed in Room 112.



**Photograph #172: 08/22/2024**

**Post-Work Inspection**
View of remedial work completed in Room 116.



**Photograph #173: 08/26/2024**

**Post-Work Inspection**
View of remedial work completed in Room 117.



**Photograph #174: 08/26/2024**
**Post-Work Inspection**
View of remedial work completed in Room 115.



**Photograph #175: 08/26/2024**

**Post-Work Inspection**
View of remedial work completed in Room 115.



**Photograph #176: 08/26/2024**

**Post-Work Inspection**
Typical view of remedial work completed in 2nd floor hallway.



**Photograph #177: 08/26/2024**
**Post-Work Inspection**
Typical view of remedial work completed in 2nd floor hallway.



**Photograph #178: 08/27/2024**

**Post-Work Inspection**
View of remedial work completed in Room 205.



**Photograph #179: 08/27/2024**

**Post-Work Inspection**
View of remedial work completed in Room 205.



**Photograph #180: 09/05/2024**
**Post-Work Inspection**
View of remedial work completed in Room 114.



**Photograph #181: 09/05/2024**

**Post-Work Inspection**
View of remedial work completed in Room 114.



**Photograph #182: 08/27/2024**

**Post-Work Inspection**
Typical view of below the ramp in Room 114.

## APPENDIX D

Work-in-progress Documentation

## Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Basement | 10 | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling tile from northeast corner | N/A | N/A | 8/27/2024 |
| | 10 Storage | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 11 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 11A | 8/8/2024 | N/A | N/A | N/A | 2-foot flood cut along server corner | N/A | Remove impacted ceiling tile from southeast corner | N/A | N/A | 8/27/2024 |
| | Elevator Closet | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | Landing | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | Storage Under Stairs | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| 1st Floor | Lobby | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling tiles from central area | Dry down trophy cabinet | Additional removal in central ceiling area | 8/21/2024 |
| | North Hallway | 8/8/2024 | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | Remove all impacted ceiling materials | N/A | N/A | 8/14/2024 |
| | South Hallway | 8/8/2024 | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | Remove all impacted ceiling materials | N/A | N/A | 8/15/2024 |
| | East Hallway | 8/8/2024 | Flood cut above tile to ceiling in central area and east corner | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | N/A | Remove all impacted ceiling materials | N/A | N/A | 8/20/2024 |
| | 130 | 8/8/2024 | N/A | N/A | N/A | N/A | Clean carpet | Remove all impacted ceiling materials, clean stained light fixtures | Remove toe-kicks from cabinets to allow for direct visual inspection | N/A | 8/13/2024 |
| | 130A | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 130B | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 130C | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |

## Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1st Floor | 130D | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 130F | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 103 | 8/8/2024 | Dry in place | Dry in place | Floor to ceiling flood cut in southwest corner | Dry in place | Clean carpet | Remove all impacted ceiling materials | N/A | N/A | 8/14/2024 |
| | 101 | 8/8/2024 | N/A | Floor to ceiling flood cut in northeast corner | Dry in place | Dry in place | N/A | 2-foot flood cut along north wall | Dry down tunnels | N/A | 8/14/2024 |
| | 102 Entry | 8/8/2024 | Dry in place | N/A | Dry in place | N/A | N/A | 2-foot flood cut along north wall | Remove toe-kicks from cabinets to allow for direct visual inspection | N/A | 8/15/2024 |
| | 102 | 8/8/2024 | Dry in place | N/A | Pull sink and associated fiberglass reinforced plastic, 2-foot flood cut whole wall | 2-foot flood cut along northwest corner | N/A | 2-foot flood cut along north wall, | Pull cabinets from north wall | Additional removal of sink from south wall | 8/20/2024 |
| | 105 | 8/8/2024 | 2-foot flood cut from west wall to doorway into 105A | N/A | Dry in place | 4-foot flood cut underneath display cabinet | N/A | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Additional flood cuts on north and west walls | 8/20/2024 |
| | 105A | 8/8/2024 | Dry in place | 4-foot flood cut along northeast corner | N/A | N/A | N/A | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Additional cleaning of northeast wall | 8/21/2024 |
| | 104 | 8/8/2024 | Remove wood panels below murals | Dry in place | N/A | N/A | N/A | Remove impacted ceiling materials | Pull cabinets from north and south wall, remove closet | N/A | 8/20/2024 |
| | 132 (Key Club) | 8/8/2024 | N/A | N/A | 2-foot flood cut | flood cut below lobby display cabinet | N/A | Remove impacted ceiling materials | Pull cabinets from east and west walls | Additional flood cuts on west and south walls | 8/22/2024 |
| | 145 (Janitor Storage) | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | N/A | Remove mold impacted contents, clean impacted built-in shelves | Remove mold impacted stored contents and clean impacted built-in wood cabinetry | 8/22/2024 |
| | 144 | 8/8/2024 | Floor to ceiling flood-cut along northeast corner | Floor to ceiling flood cut in northeast corner | N/A | N/A | Clean carpet | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | N/A | 8/14/2024 |
| | 144A | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/14/2024 |
| | 146 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 146A | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |

## Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1st Floor | 146B | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 106 (Women's BR) | 8/8/2024 | Remove gypsum wallboard above tile | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/15/2024 |
| | 108 (Men's BR) | 8/8/2024 | N/A | N/A | Remove 4-foot wide section of gypsum wallboard above tile in central area. | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/15/2024 |
| | 110 | 8/8/2024 | Dry in place | N/A | 2-foot flood cut from southeast corner to room 112 door | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/20/2024 |
| | 112 | 8/8/2024 | 2-foot flood cut from northwest corner to room 112 door, 6-foot flood cut (2-feet wide) adjacent to eye wash | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Additional cleaning of north cabinet toe kick | 8/22/2024 |
| | 112A | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/15/2024 |
| | 113 | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/20/2024 |
| | 113A | 8/8/2024 | N/A | N/A | 2-foot flood cut along southeast corner (to wood paneling) | N/A | N/A | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Additional flood cuts on south wall adjacent to entryway | 8/21/2024 |
| | 113B | 8/8/2024 | 2-foot flood cut in northeast corner (on west side) adjacent to cabinet | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Pull toe kick of south central cabinet | 8/22/2024 |
| | 113C | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | N/A | 8/20/2024 |
| | 113D (BR) | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 113E (Laundry) | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 113F (Pantry) | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 114A | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | Remove moisture impacted ceiling materials | 8/26/2024 |
| | 114 | 8/8/2024 | N/A | N/A | N/A | N/A | Investigate ramp/platform in south half of room | Remove impacted ceiling materials | Remove toe-kicks from cabinets to allow for direct visual inspection | Remove entire ramp/platform | 9/4/2024 |

## Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1st Floor | 115 | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | Remove closet | Remove moisture impacted ceiling materials | 8/26/2024 |
| | 116 | 8/8/2024 | Dry in place | N/A | Dry in place | N/A | N/A | Remove impacted ceiling materials | Remove closet | N/A | 8/22/2024 |
| | 117 | 8/8/2024 | N/A | N/A | N/A | N/A | N/A | Remove impacted ceiling materials | N/A | Remove moisture impacted ceiling materials | 8/26/2024 |
| | 118 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 119 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 120 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 120A | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 120B | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 121 | 8/8/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| 2nd Floor | Hallway | 8/8/2024 | 2-foot flood cut | Remove lockers and gypsum wallboard behind lockers | N/A | Remove lockers and gypsum wallboard behind lockers | N/A | N/A | N/A | N/A | 8/26/2024 |
| | 201 | 8/8/2024 | N/A | Floor to ceiling flood cut | 2-foot flood cut | Floor to ceiling flood-cut | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Pull all cabinetry | N/A | 8/22/2024 |
| | 201A | 8/8/2024 | Dry in place | Floor to ceiling flood cut | 4-foot flood cut | Floor to ceiling flood-cut | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Pull all cabinetry | N/A | 8/22/2024 |
| | 202 | 8/8/2024 | Dry in place | N/A | Floor to ceiling flood cut | N/A | N/A | N/A | Pull all cabinetry | N/A | 8/22/2024 |
| | 203 | 8/8/2024 | Dry in place | Floor to ceiling flood cut | Dry in place | Dry in place | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Address crumbling plaster on north wall | N/A | 8/22/2024 |
| | 204 | 8/8/2024 | 2-foot flood cut | N/A | Floor to ceiling flood cut | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Flood cut around HVAC along north wall, adjacent to doorway to Room 202. Remove closet. | N/A | 8/22/2024 |

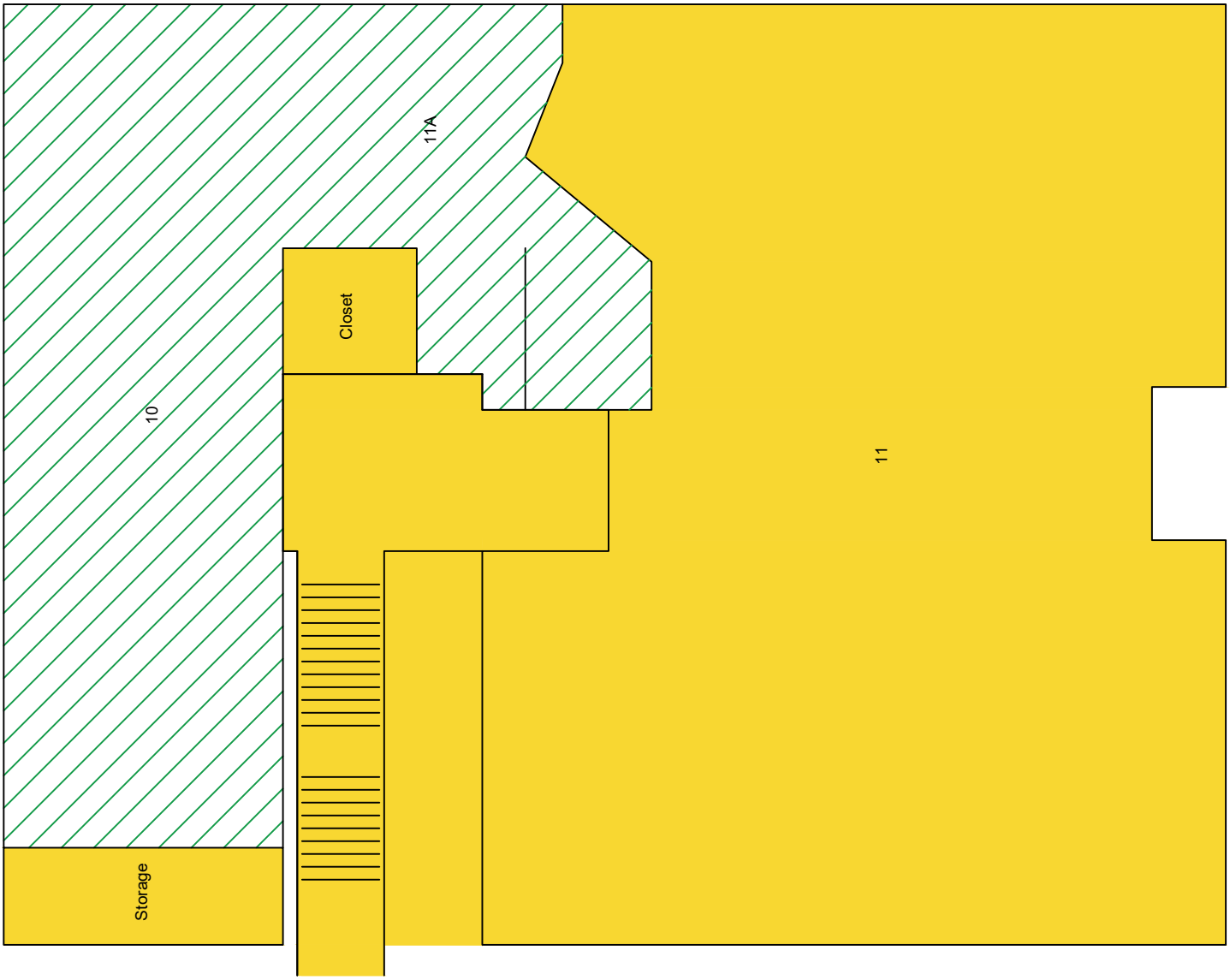
## Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2nd Floor | 205 | 8/8/2024 | Floor to ceiling flood cut | N/A | 2-foot flood cut | N/A | N/A | N/A | Remove closet | N/A | 8/27/2024 |
| | 206 | 8/8/2024 | N/A | N/A | Remove all wall materials above cement | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Remove closet | N/A | 8/22/2024 |
| | 208 | 8/9/2024 | Remove all wall materials above brick | N/A | Remove all wall materials above brick on west half | Remove all wall materials above doorway | N/A | N/A | N/A | N/A | 8/22/2024 |
| | 210 | 8/9/2024 | N/A | N/A | Remove all wall materials above brick | Remove all wall materials above doorway | N/A | N/A | N/A | N/A | 8/22/2024 |
| | 210A | 8/9/2024 | N/A | N/A | N/A | N/A | N/A | N/A | Remove moisture-impacted miscellaneous TSI | N/A | 8/22/2024 |
| | 209 | 8/9/2024 | N/A | N/A | Floor to ceiling flood cut | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | N/A | N/A | 8/22/2024 |
| | 212 | 8/9/2024 | N/A | N/A | N/A | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |
| | 214 | 8/9/2024 | Floor to ceiling flood cut | N/A | 2-foot flood cut | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Remove closet | N/A | 8/22/2024 |
| | 213 | 8/9/2024 | Floor to ceiling flood-cut | N/A | N/A | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | N/A | N/A | 8/22/2024 |
| | 213A | 8/9/2024 | N/A | 2-foot flood cut | N/A | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | N/A | N/A | 8/22/2024 |
| | 213B | 8/9/2024 | N/A | N/A | N/A | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | Remove remaining moisture impacted ceiling tile from west half of room | Remove toe-kicks from cabinets to allow for direct visual inspection | N/A | 8/22/2024 |
| | 216 | 8/9/2024 | N/A | N/A | Floor to ceiling flood cut | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | Remove closet | N/A | 8/22/2024 |
| | 217 | 8/9/2024 | 2-flood cut entire length. Floor to ceiling 4-feet of both sides of doorway to Room 215 | N/A | N/A | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | N/A | N/A | 8/22/2024 |
| | 218 | 8/21/2024 | N/A | N/A | 2-foot flood cut | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |
| | 219 | 8/21/2024 | 2-foot flood cut | N/A | 2-foot flood cut | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |

**Table 1: Columbia Falls HS 2024 Water Loss Remedial Oversight Tracking**

| Floor | Location/ Room | Initial Inspection Date | North Wall | East Wall | South Wall | West Wall | Floor | Ceiling | Miscellaneous | Work-in-progress Recommendations | Post-remediation Validation Inspection Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2nd Floor | 220 | 8/21/2024 | N/A | N/A | 2-foot flood cut | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |
| | 221 | 8/21/2024 | N/A | N/A | N/A | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |
| | 222 | 8/21/2024 | N/A | N/A | 2-foot flood cut | N/A | N/A | N/A | Remove closet | N/A | 8/22/2024 |
| | 224 | 8/21/2024 | N/A | N/A | N/A | N/A | Address moisture-impacted delaminating 9-inch by 9-inch floor tile | N/A | N/A | N/A | 8/22/2024 |
| | 226 | 8/21/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 225 | 8/21/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 228 | 8/21/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 229 | 8/21/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |
| | 230 | 8/21/2024 | No moisture-impact identified. No remedial actions recommended. | | | | | | | | |

| August 13, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | 130 | Moisture-impacted ceiling tile observed to be replaced, moisture staining in light fixtures removed, cabinet toe-kicks inspected. No suspect mold growth observed. | Yes |




## LEGEND

N

No moisture-Impact Identified

Additional Remediation Required

# Figure 1: Basement Clearance Map as of August 13, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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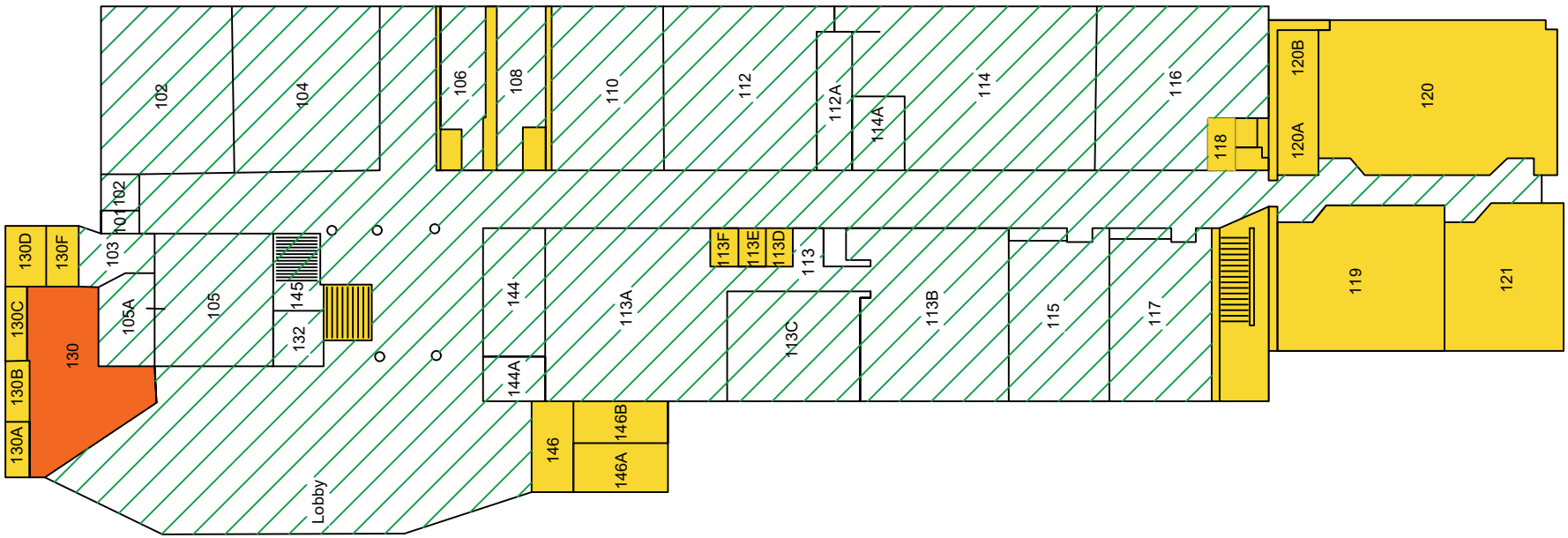
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- No moisture-Impact Identified
- Cleared Area as of 8/13/2024
- Additional Remediation Required

N

# Figure 2: Main Floor Clearance Map as of August 13, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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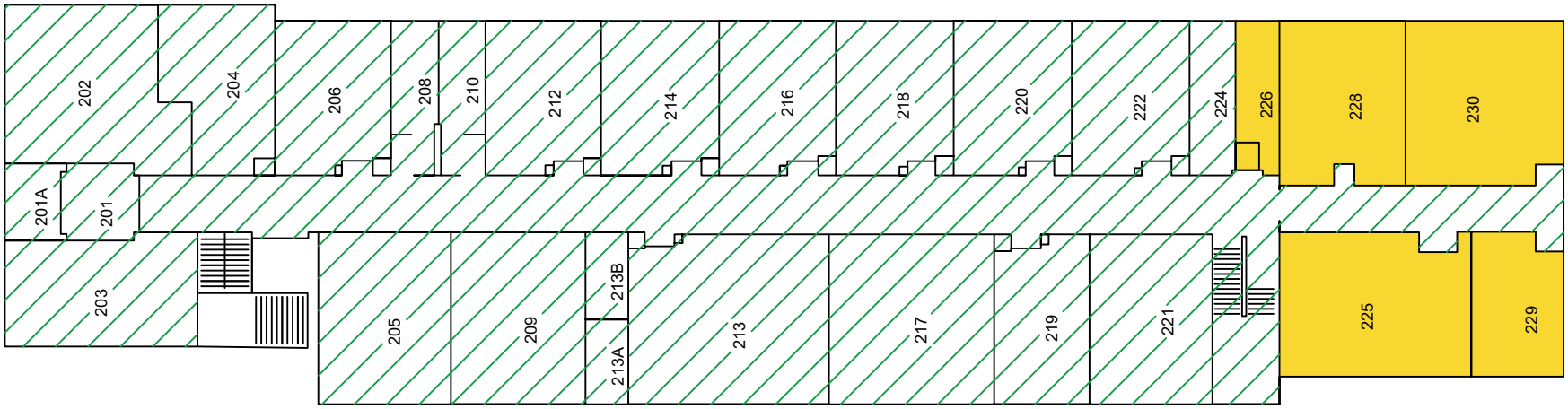
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

No moisture-Impact Identified

Additional Remediation Required

N

# Figure 3: Second Floor Clearance Impact Map as of August 13, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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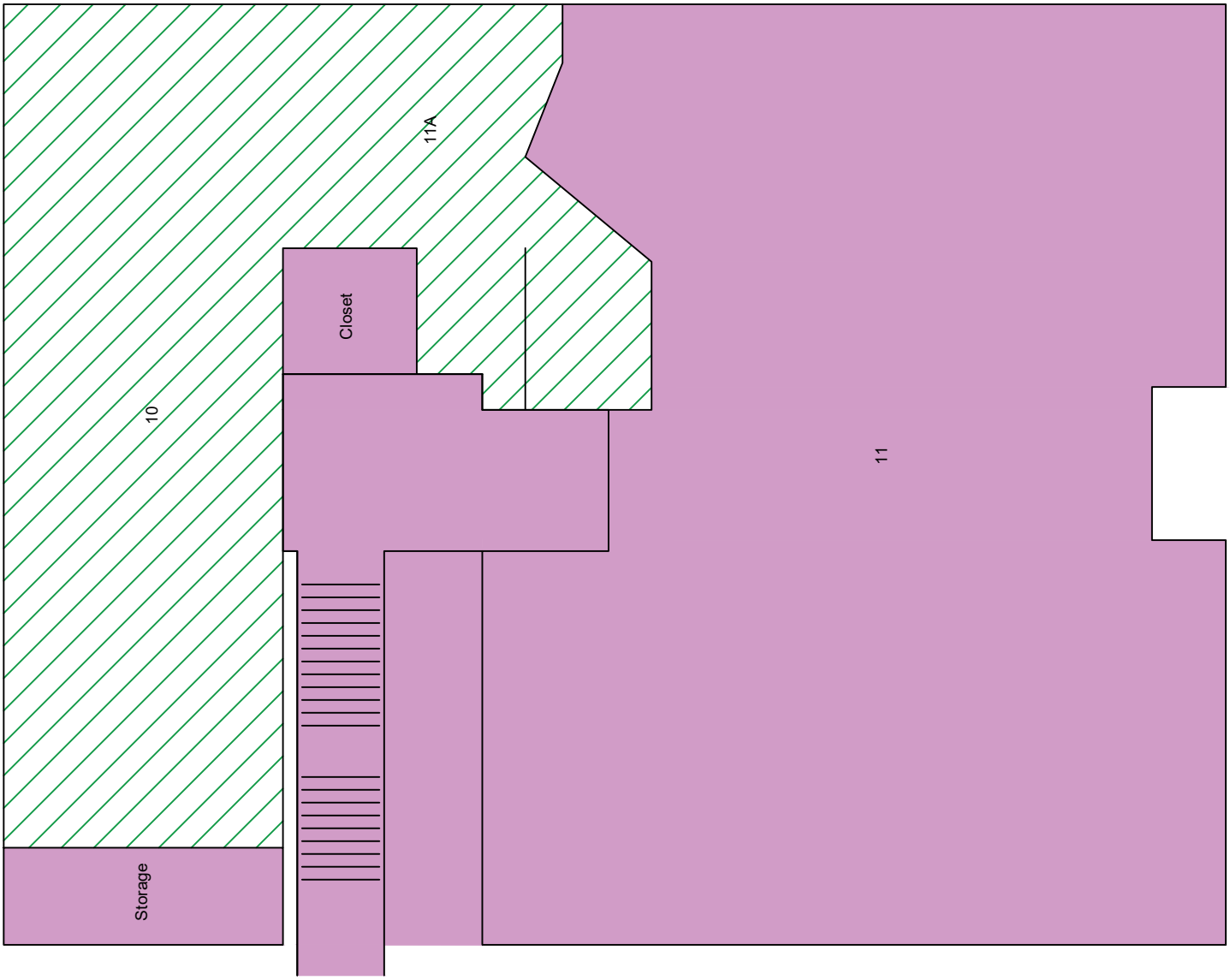
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 14, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | North Hallway | Lockers removed from hallway and gypsum wallboard removed form behind lockers. Suspect mold growth observed in select areas of gypsum wallboard removed from behind lockers. All impact removed. No additional suspect mold growth observed. | Yes |
| | 103 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 101 | Remedial recommendations performed. Suspect mold growth observed within east wall cavity. Additional stud bays opened until extent of growth was identified. Removed suspect mold growth and cleaned remaining building materials. Applied tinted encapsulant over any remaining microbial staining. | Yes |
| | 144 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 144A | Remedial recommendations performed. No suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 4: Basement Clearance Map as of August 14, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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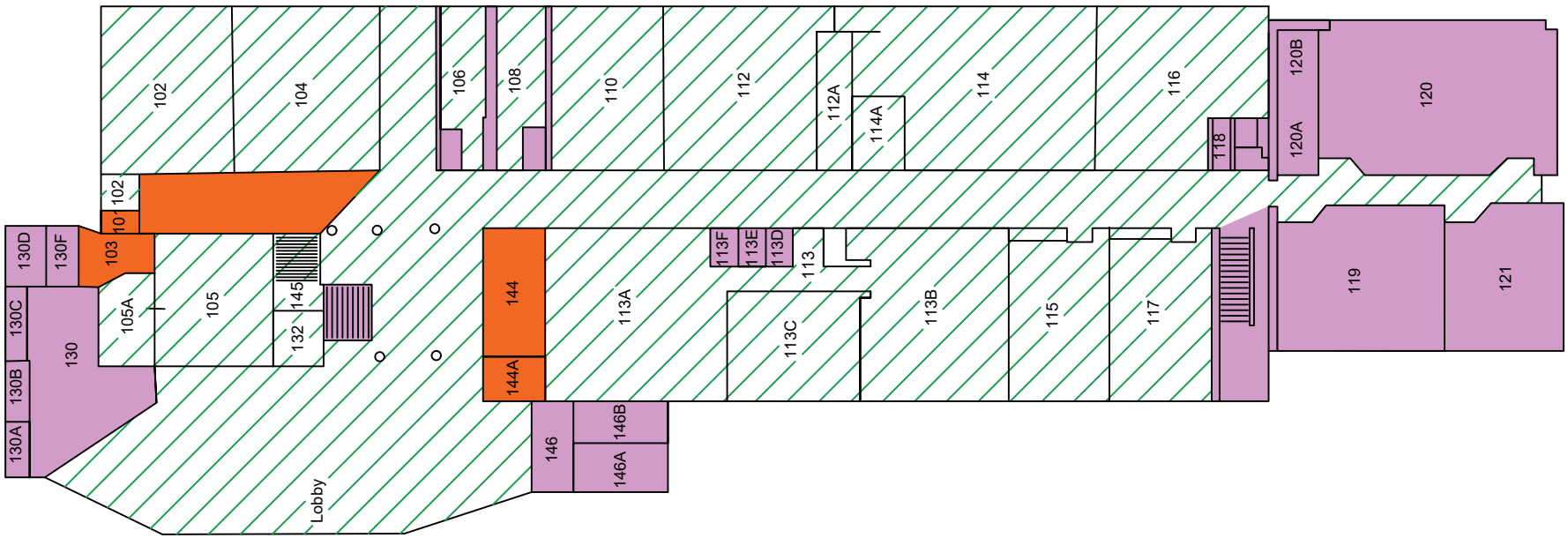
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/14/2024
- Additional Remediation Required

N

# Figure 5: Main Floor Clearance Map as of August 14, 2024

Columbia Falls High School
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Columbia Falls, Montana

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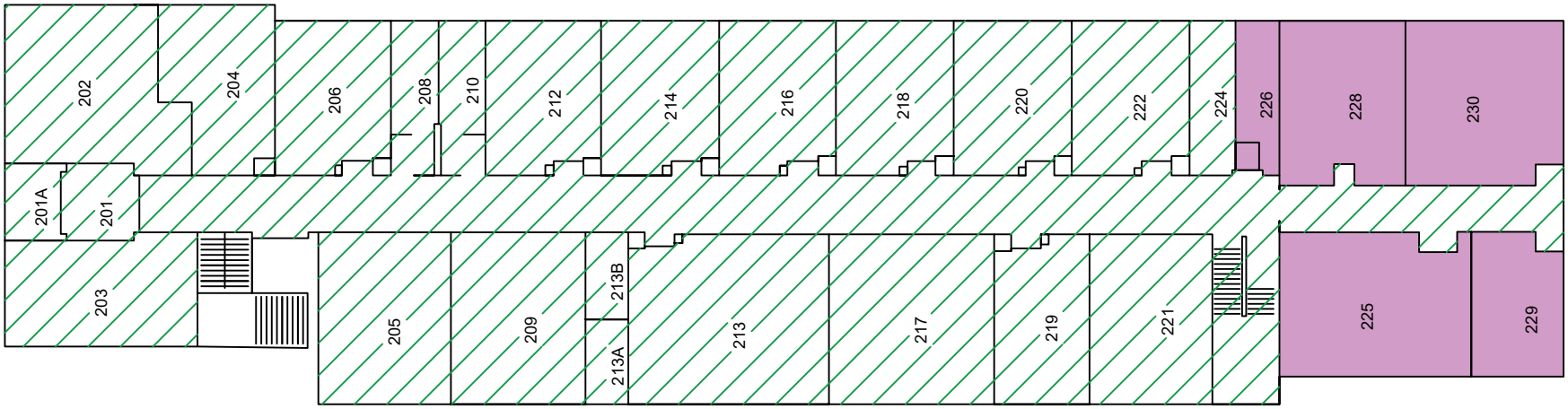
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Additional Remediation Required

N

# Figure 6: Second Floor Clearance Impact Map as of August 14, 2024

Columbia Falls High School
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Columbia Falls, Montana

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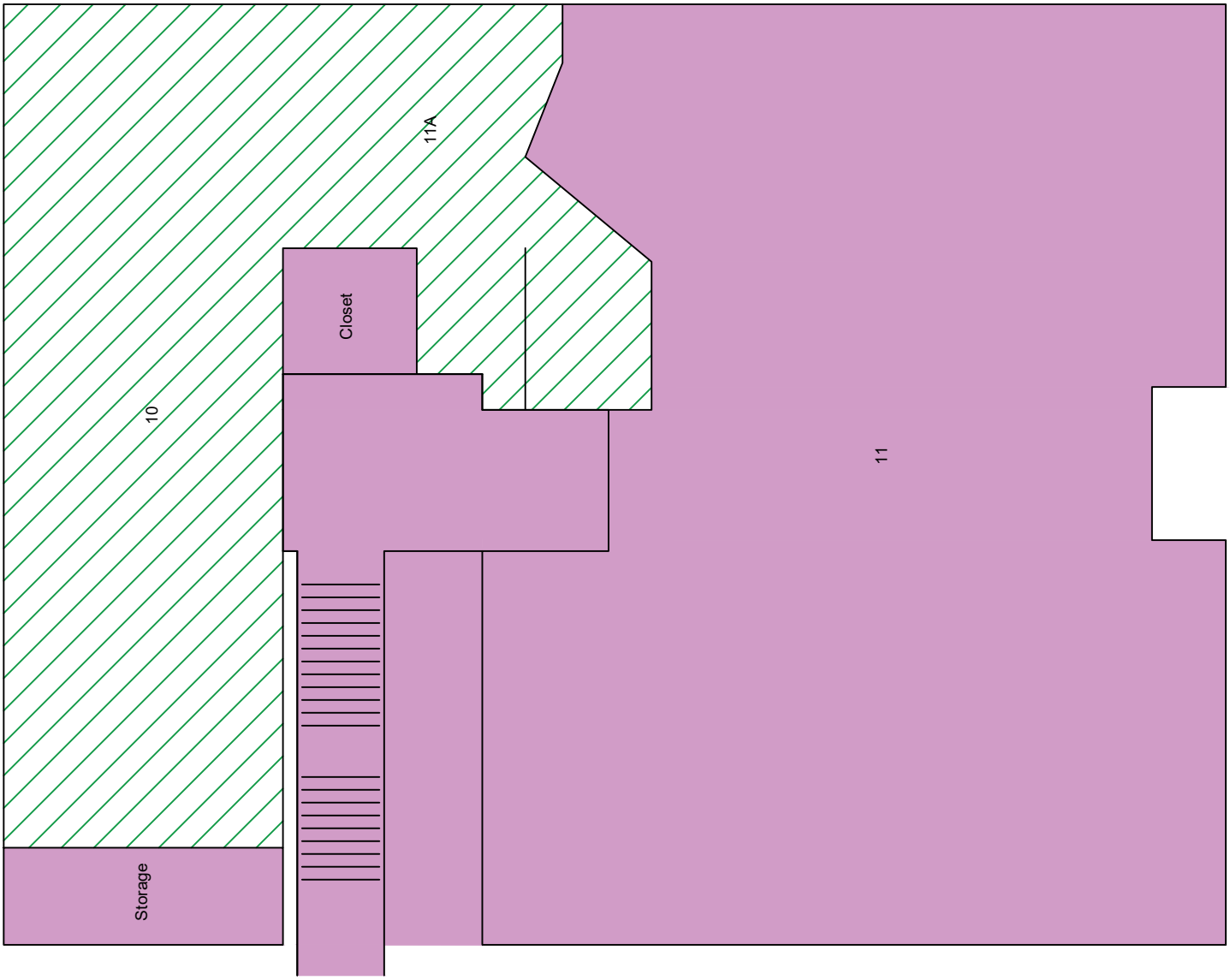
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 15, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | South Hallway | Lockers removed from hallway and gypsum wallboard removed form behind lockers. Suspect mold growth observed in select areas of gypsum wallboard removed from behind lockers. All impact removed. No additional suspect mold growth observed. | Yes |
| | 102 | Remedial recommendations performed. Suspect mold growth observed in select areas of gypsum wallboard. Sink identified for removal. | No |
| | 106 | Remedial recommendations performed. Suspect mold growth observed in select areas of gypsum wallboard. All impact removed and remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 108 | Remedial recommendations performed. Suspect mold growth observed in select areas of gypsum wallboard. All impact removed and remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 112A | Remedial recommendations performed. No suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 7: Basement Clearance Map as of August 15, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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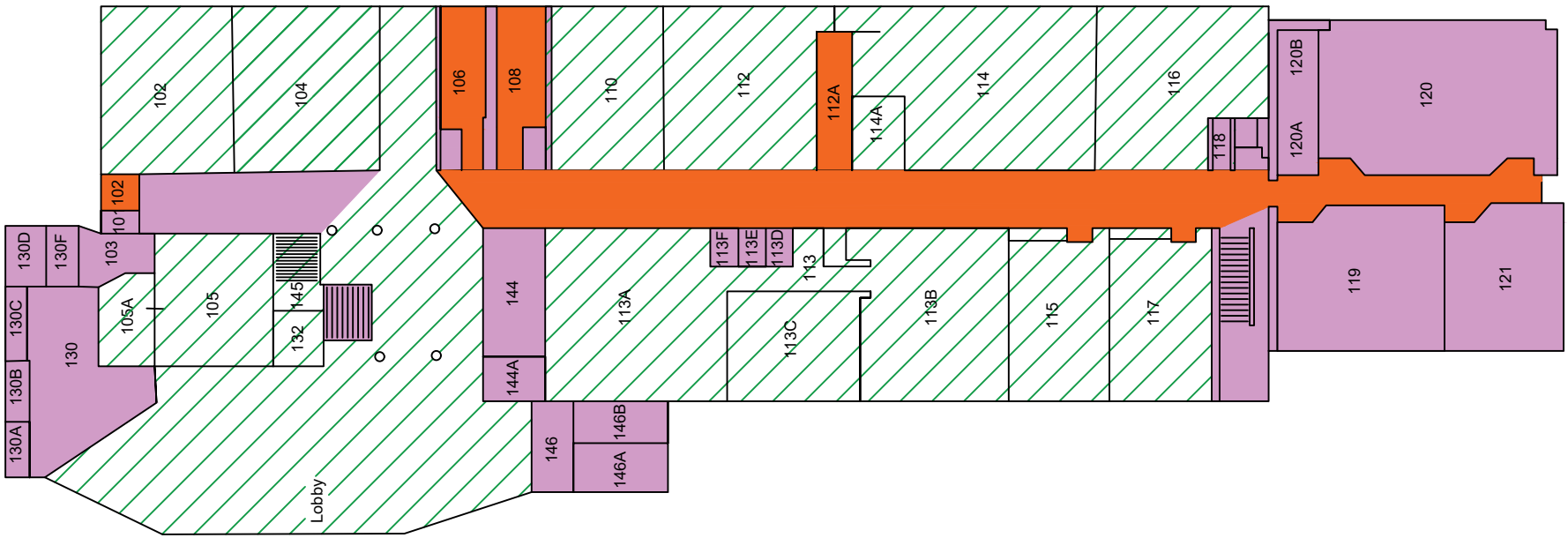
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/15/2024
- Additional Remediation Required

N

# Figure 8: Main Floor Clearance Map as of August 15, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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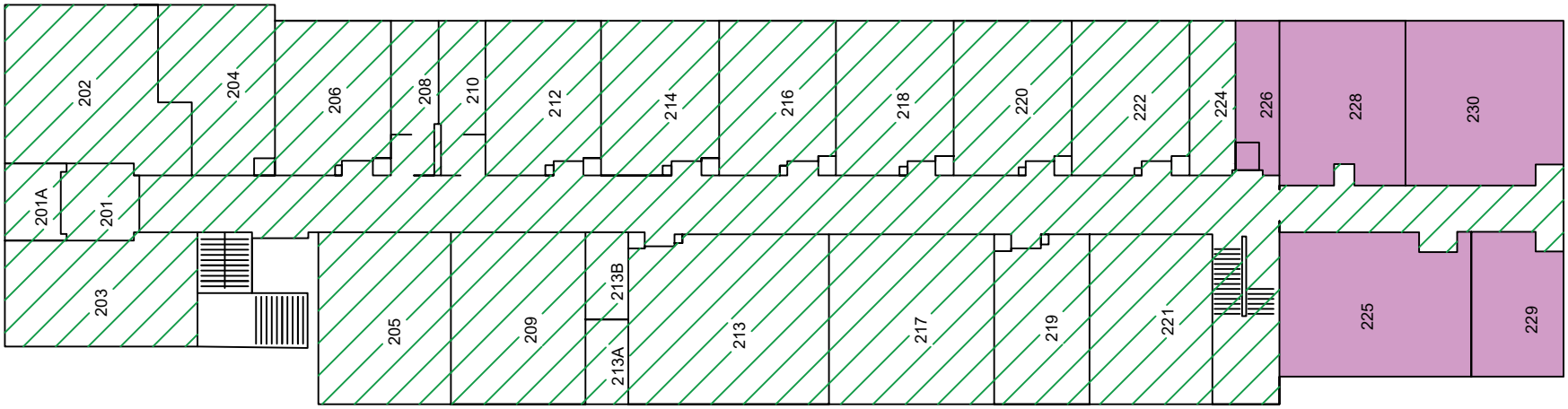
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Additional Remediation Required

N

# Figure 9: Second Floor Clearance Impact Map as of August 15, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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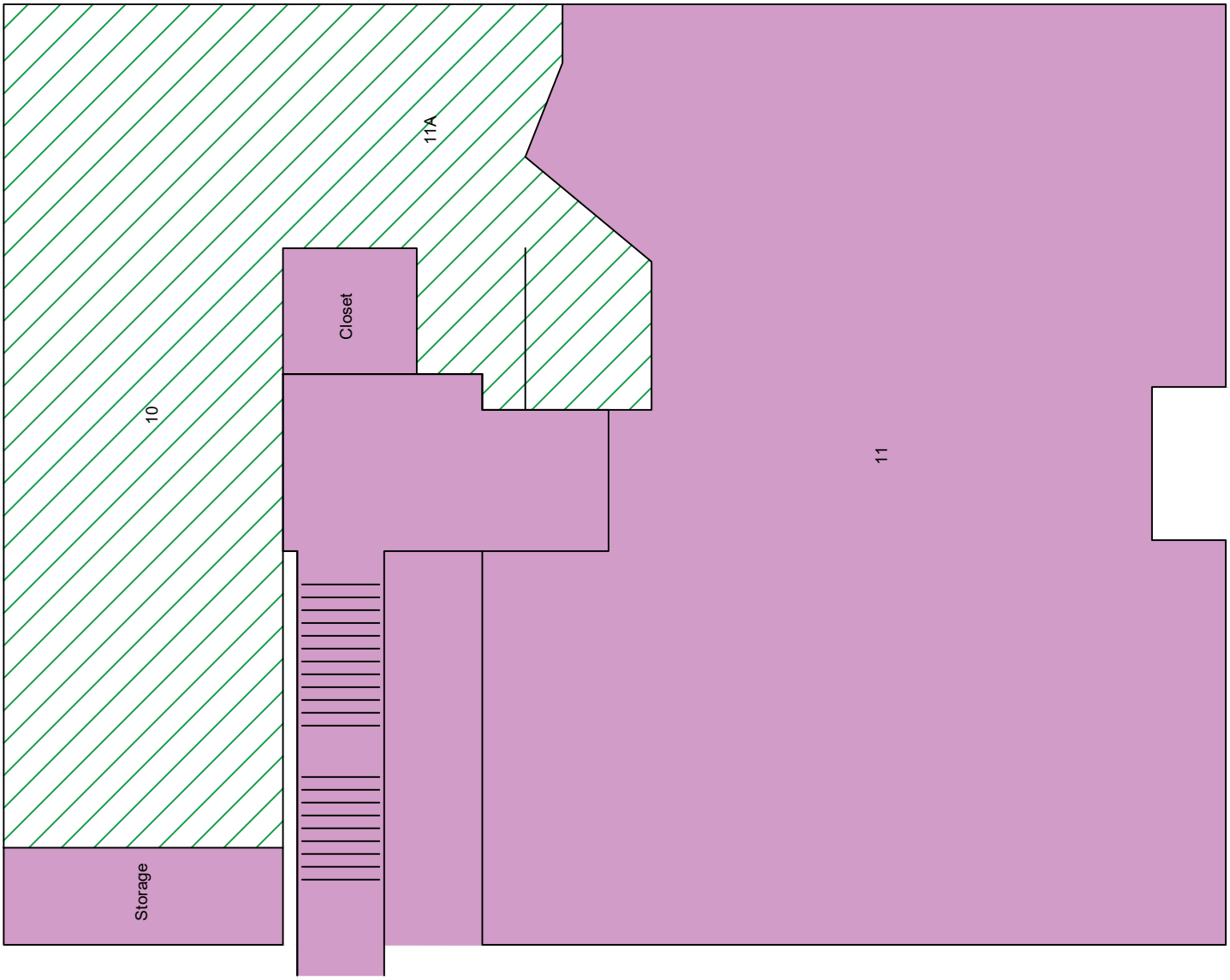
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 20, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | East Hallway | Lockers removed from hallway and gypsum wallboard removed form behind lockers. Suspect mold growth observed in select areas of gypsum wallboard removed from behind lockers. All impact removed. No additional suspect mold growth observed. | Yes |
| | 102 | Additional remedial recommendations completed. Sink and observed suspect mold impact removed. Remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 104 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 105 | Remedial recommendations performed. Suspect mold growth observed on north and west walls. Additional flood cuts recommended and performed. Remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 110 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 113 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 113C | Remedial recommendations performed. Suspect mold growth observed on materials removed. Remaining building materials cleaned. No additional suspect mold growth observed | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 10: Basement Clearance Map as of August 20, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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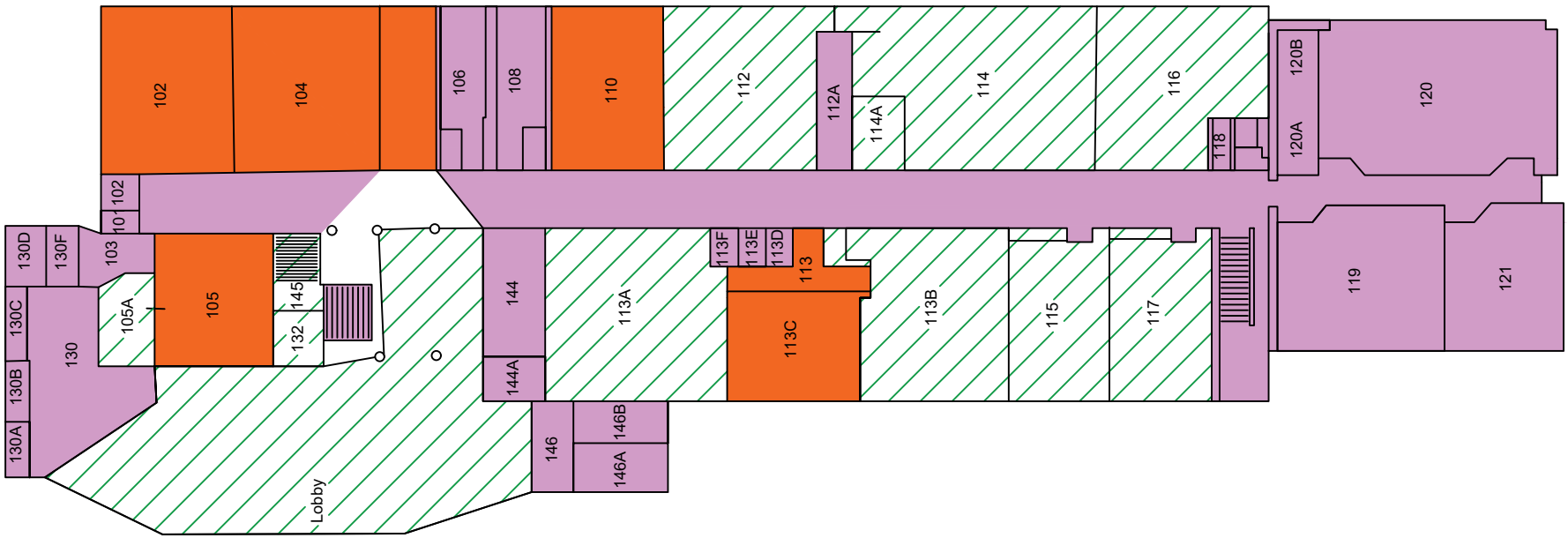
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/20/2024
- Additional Remediation Required

N

# Figure 11: Main Floor Clearance Map as of August 20, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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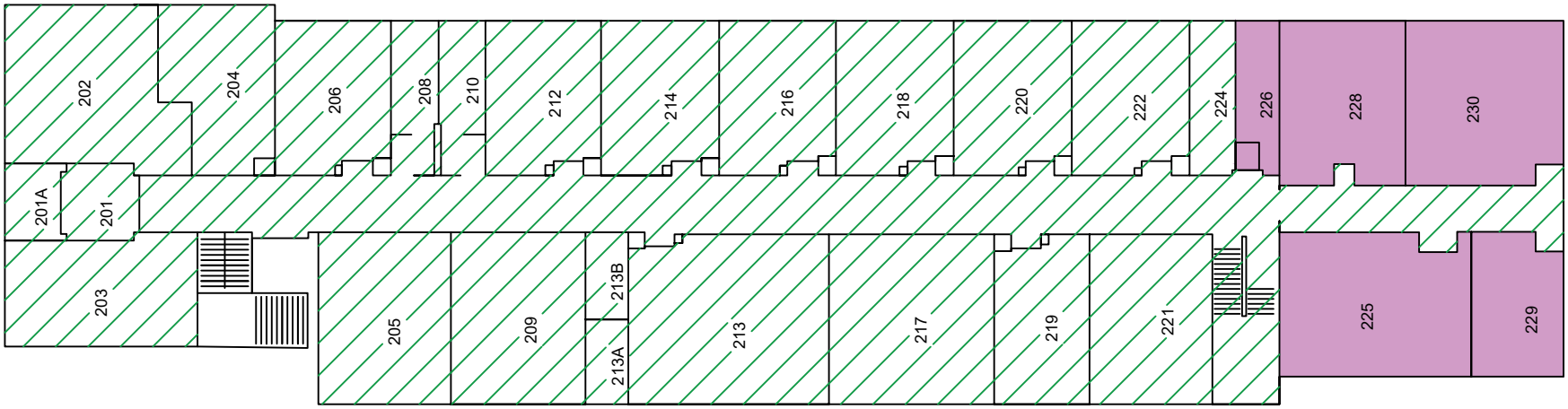
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Additional Remediation Required

N

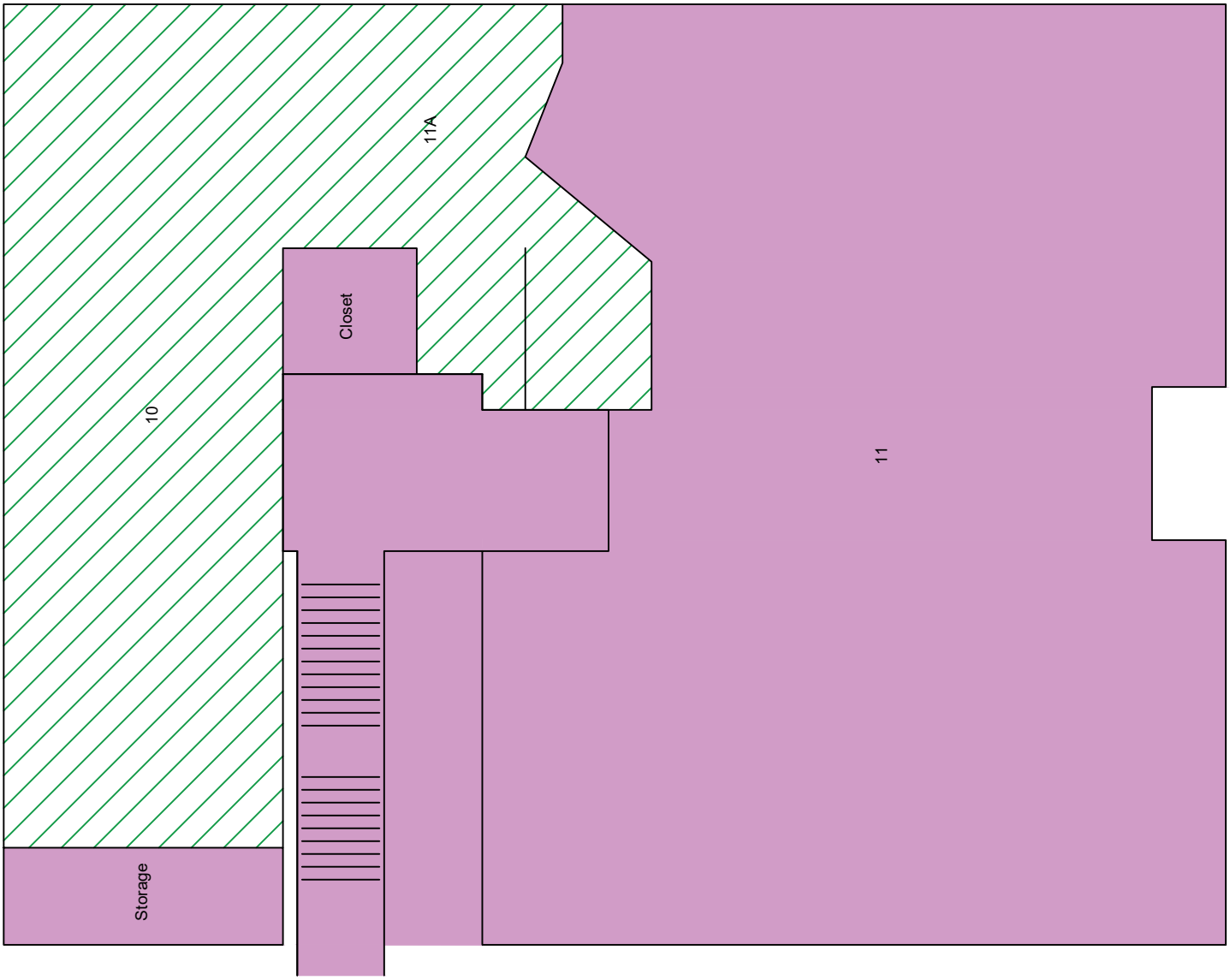
# Figure 12: Second Floor Clearance Impact Map as of August 20, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 21, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | Lobby | Remedial recommendations performed. Suspect mold growth observed. Additional ceiling tile and gypsum wallboard ceiling material removed. No additional suspect mold growth observed | Yes |
| | 105A | Remedial recommendations performed. Suspect mold growth observed along east wall. Suspect impact removed and remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 113A | Remedial recommendations performed. No suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 13: Basement Clearance Map as of August 21, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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SPOKANE, WASHINGTON 99201
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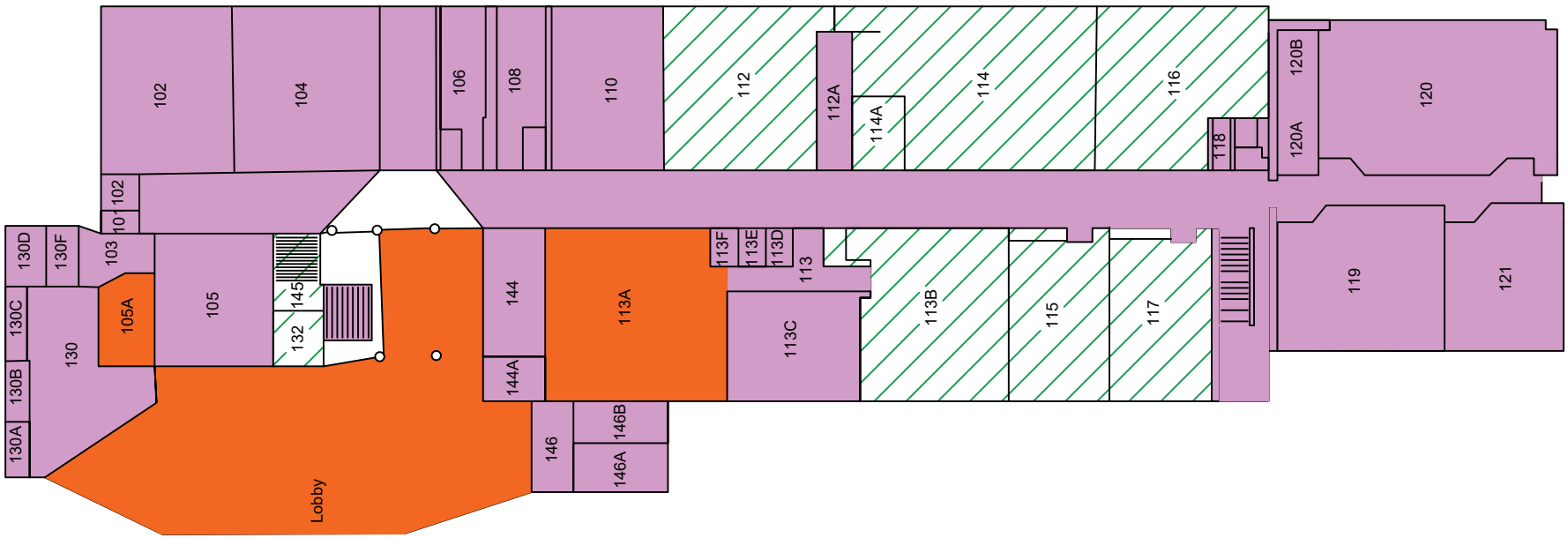
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/21/2024
- Additional Remediation Required

N

# Figure 14: Main Floor Clearance Map as of August 21, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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207 W. BOONE AVENUE
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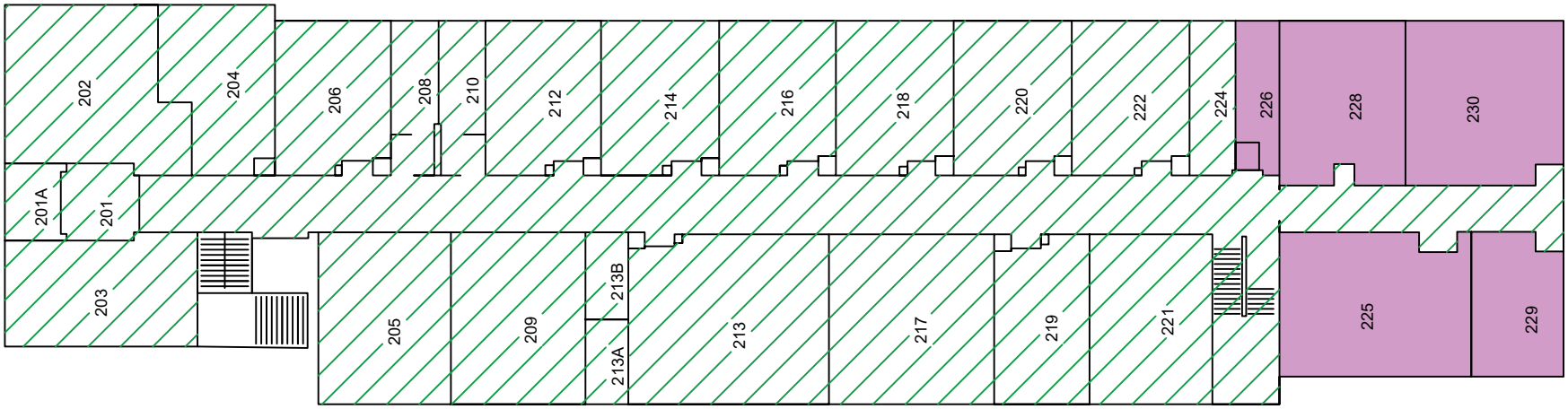
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Additional Remediation Required

N

# Figure 15: Second Floor Clearance Impact Map as of August 21, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

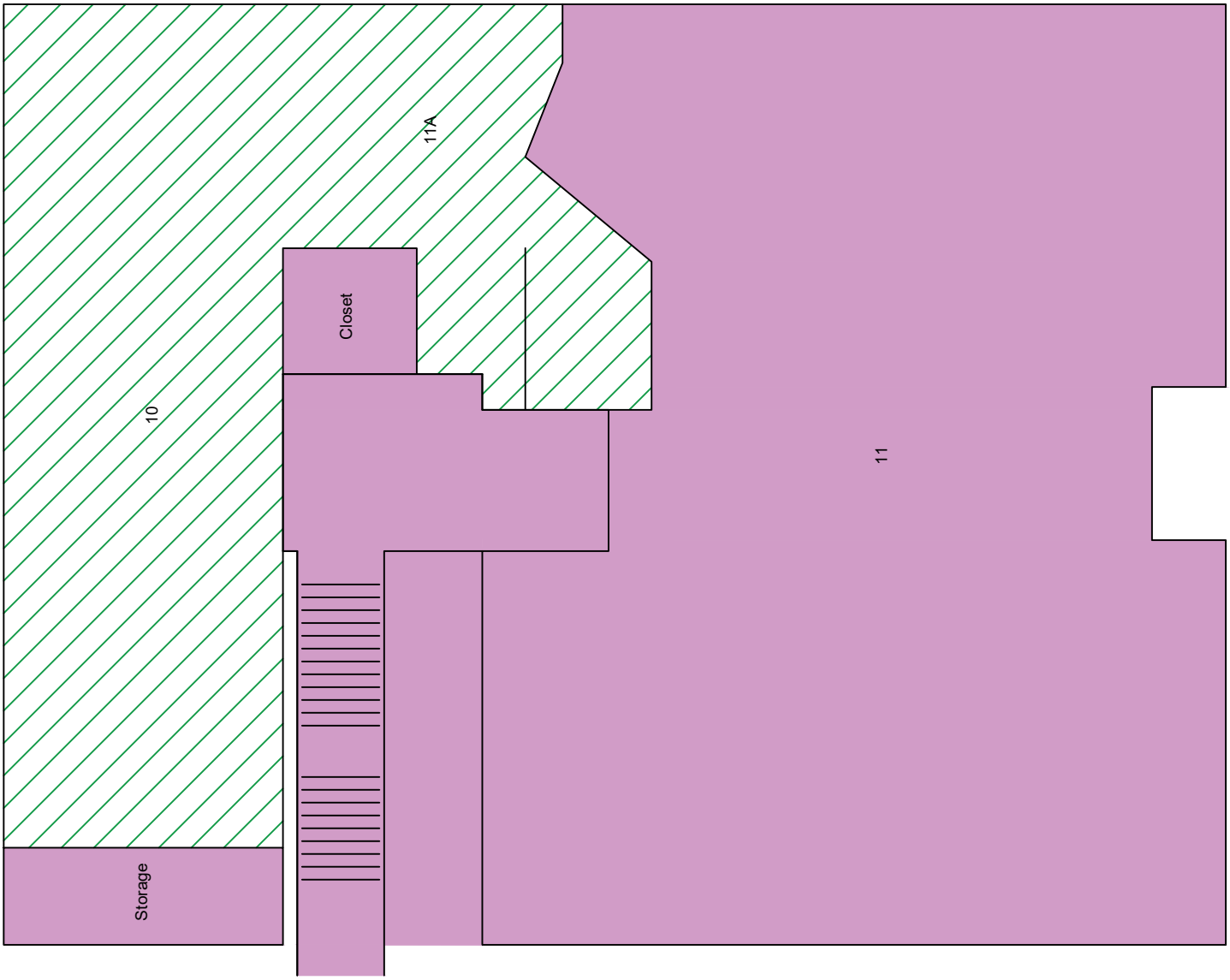
FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 22, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | 132 | Remedial recommendations performed. Suspect mold growth observed along west and south walls along with toe-kicks of west and east cabinets. Additional ceiling tile and gypsum wallboard ceiling material removed. No additional suspect mold growth observed. | Yes |
| | 145 | Remedial recommendations performed. No additional suspect mold growth observed. | Yes |
| | 112 | Remedial recommendations performed. Suspect mold growth observed in toe-kick of southwest cabinet. Suspect impact removed and remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 113B | Remedial recommendations performed. Suspect mold growth observed in toe-kick of southwest cabinet. Suspect impact removed and remaining building materials cleaned. No additional suspect mold growth observed. | Yes |
| | 114 | South end of stage/platform opened. Extensive suspect mold growth identified within stage/platform. Full deconstruction of stage/platform recommended. | No |
| | 116 | Remedial recommendations performed. No additional suspect mold growth observed. | Yes |
| 2nd Floor | 201 | Remedial recommendations performed. Suspect mold growth observed on north, south, east, and west walls. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 201A | Remedial recommendations performed. Suspect mold growth observed on south, east, and west walls. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 202 | Remedial recommendations performed. Suspect mold growth observed on south and west walls. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 203 | Remedial recommendations performed. Suspect mold growth observed on east wall. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 204 | Remedial recommendations performed. Suspect mold growth observed on north wall. Suspect impact removed. No additional suspect mold growth observed. | Yes |

| August 22, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 2nd Floor | 206 | Remedial recommendations performed. Suspect mold growth observed on south wall. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 208 | Remedial recommendations performed. Suspect mold growth observed on north, west, and south walls. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 209 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 210 | Remedial recommendations performed. Suspect mold growth observed on north, west, and south walls. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 212 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 213 | Remedial recommendations performed. Suspect mold growth observed on south wall. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 213A | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 213B | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 214 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 216 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 217 | Remedial recommendations performed. Suspect mold growth observed on north wall. Suspect impact removed. No additional suspect mold growth observed. | Yes |
| | 218 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 219 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 220 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 221 | Remedial recommendations performed. No suspect mold growth observed. | Yes |

| August 22, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 2nd Floor | 222 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 224 | Remedial recommendations performed. No suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 16: Basement Clearance Map as of August 22, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/22/2024
- Additional Remediation Required

N

# Figure 17: Main Floor Clearance Map as of August 22, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
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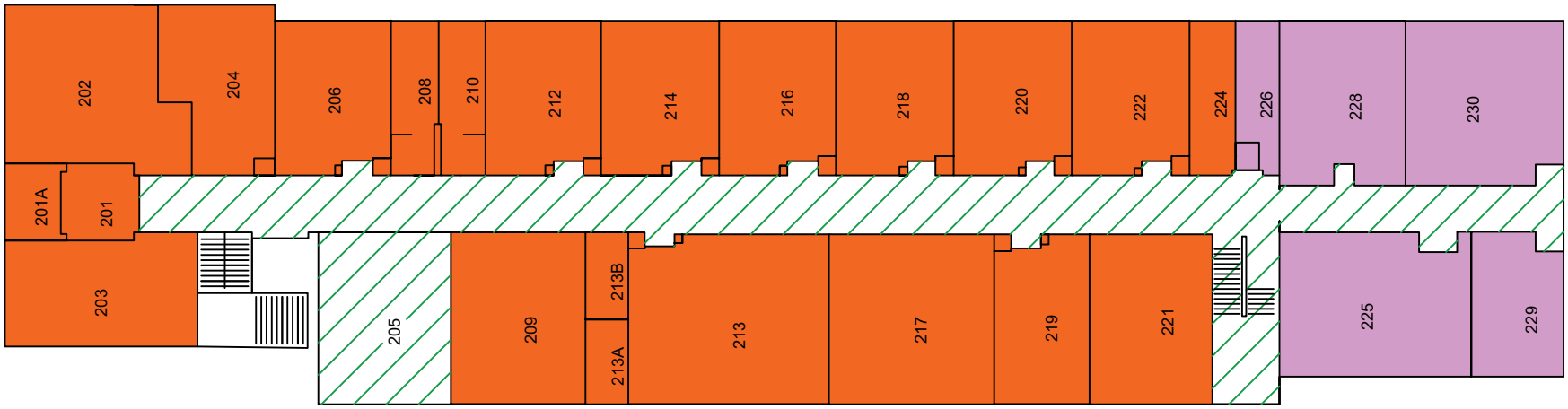
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/22/2024
- Additional Remediation Required

N

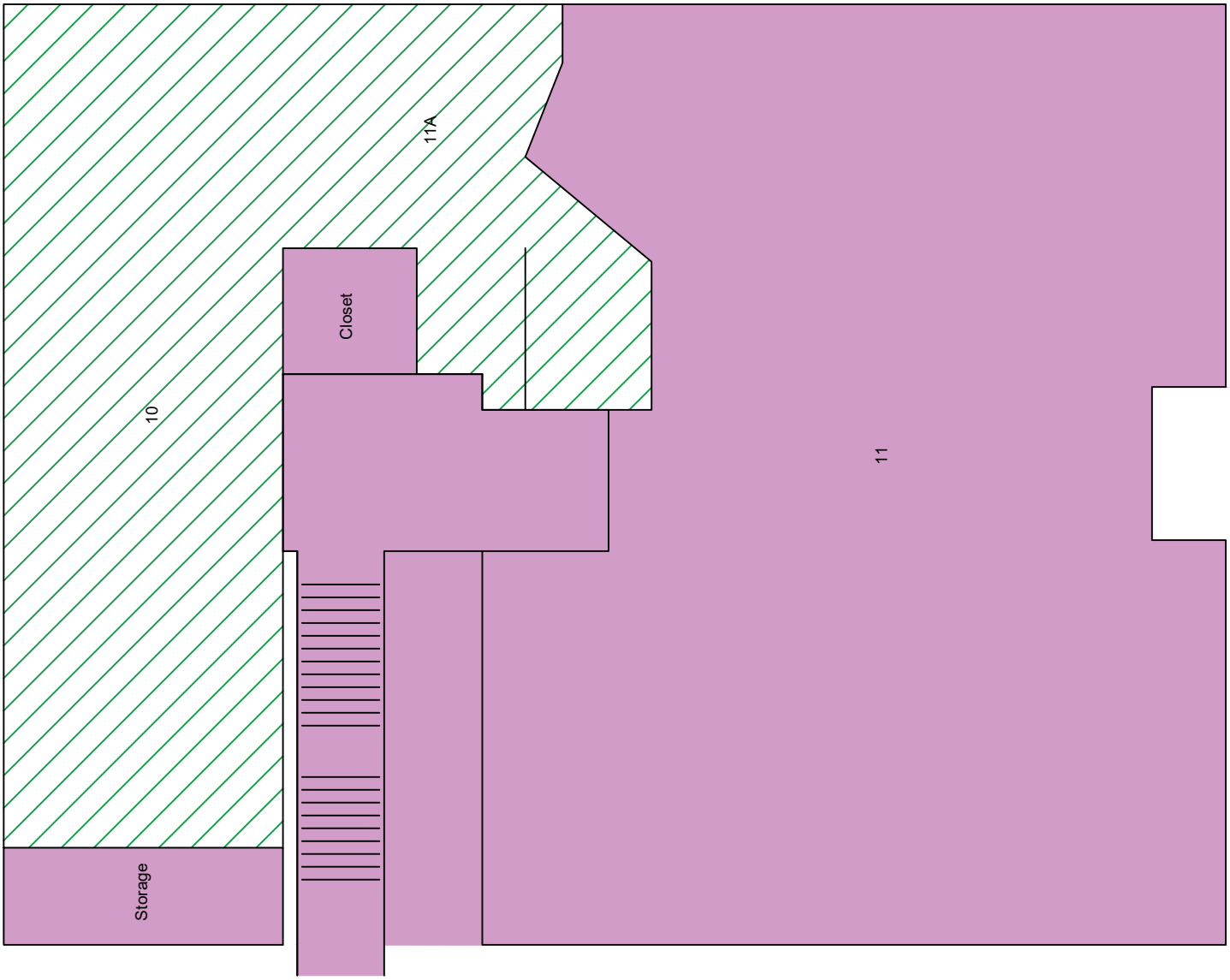
# Figure 18: Second Floor Clearance Impact Map as of August 22, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 26, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | 114A | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 115 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 117 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| 2nd Floor | Hallway | Lockers removed from hallway and gypsum wallboard removed form behind lockers. Suspect mold growth observed in select areas of gypsum wallboard removed from behind lockers. All impact removed. No additional suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Additional Remediation Required

# Figure 19: Basement Clearance Map as of August 26, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
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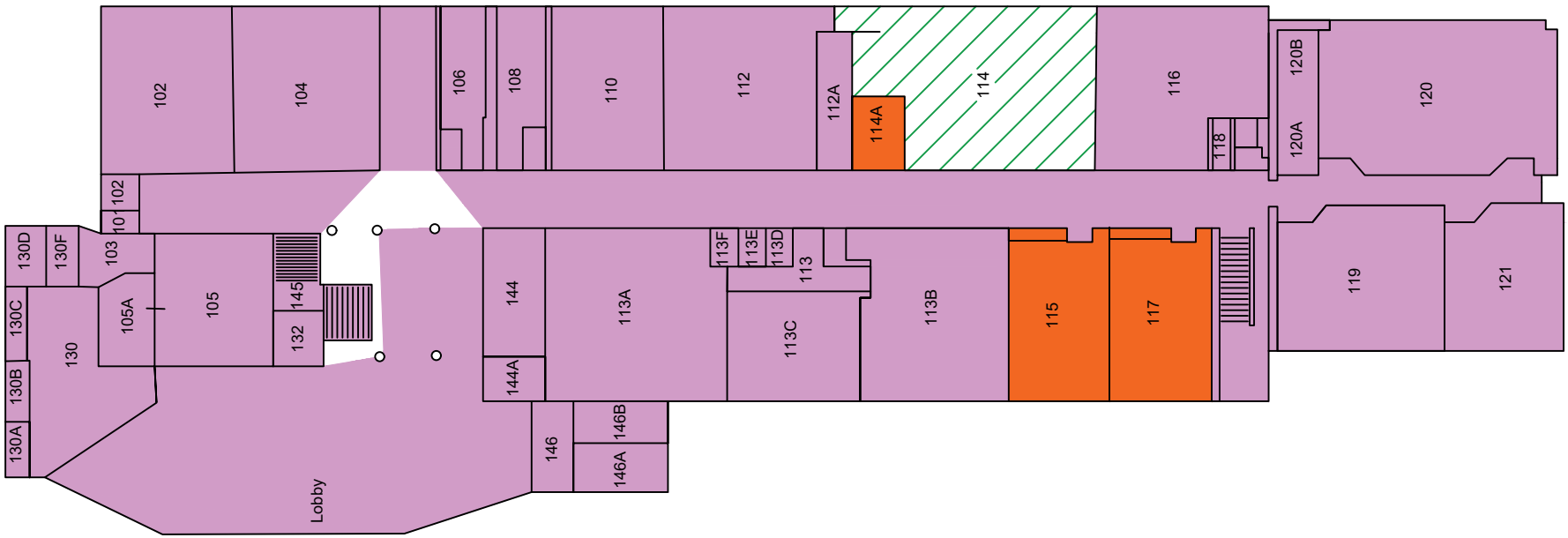
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/26/2024
- Additional Remediation Required

N

# Figure 20: Main Floor Clearance Map as of August 26, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
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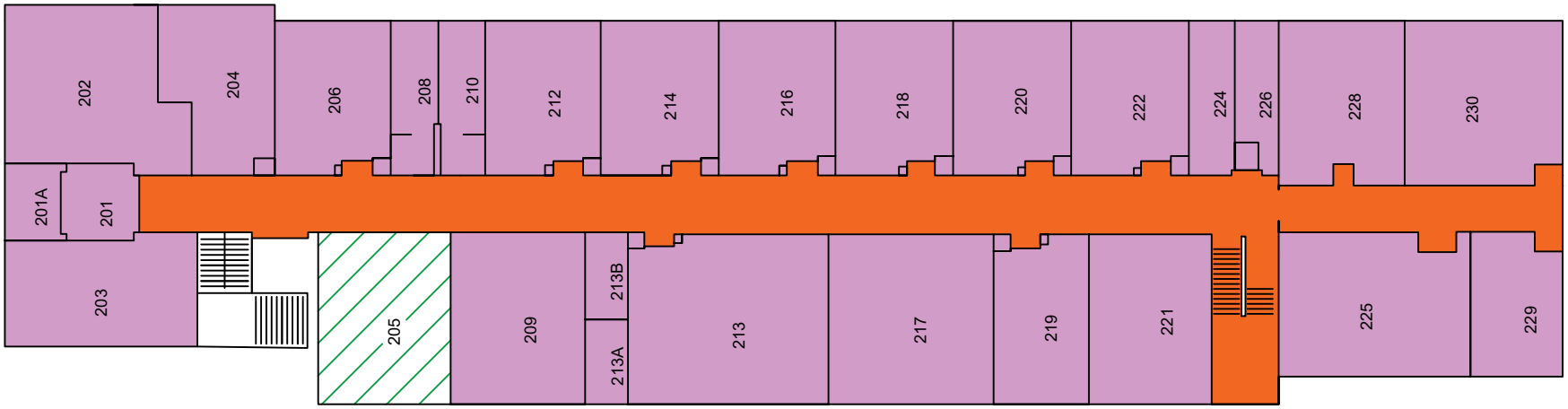
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/26/2024
- Additional Remediation Required

N

# Figure 21: Second Floor Clearance Impact Map as of August 26, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

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SPOKANE, WASHINGTON 99201
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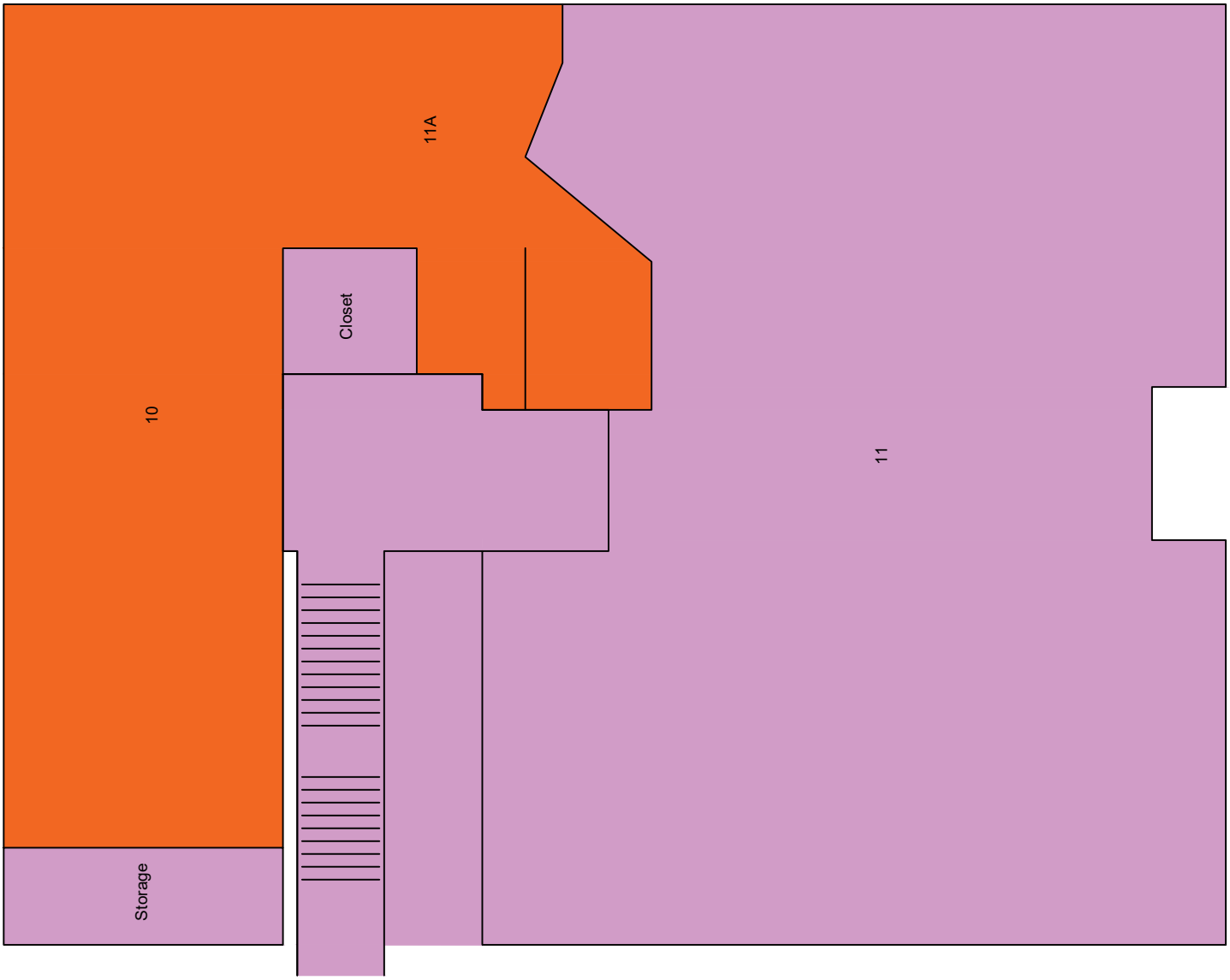
| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| August 27, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| Basement | 10 | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| | 11A | Remedial recommendations performed. No suspect mold growth observed. | Yes |
| 2nd Floor | 205 | Remedial recommendations performed. No suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

Cleared Area as of 8/27/2024

Additional Remediation Required

# Figure 22: Basement Clearance Map as of August 27, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Additional Remediation Required

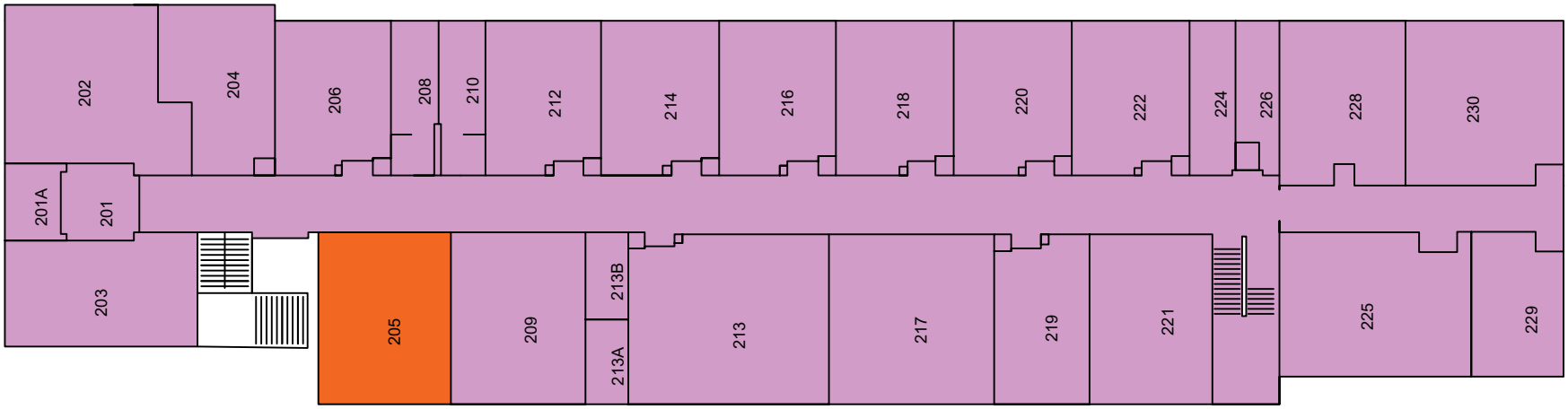
N

# Figure 23: Main Floor Clearance Map as of August 27, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

- Previously Cleared
- Cleared Area as of 8/27/2024
- Additional Remediation Required

N

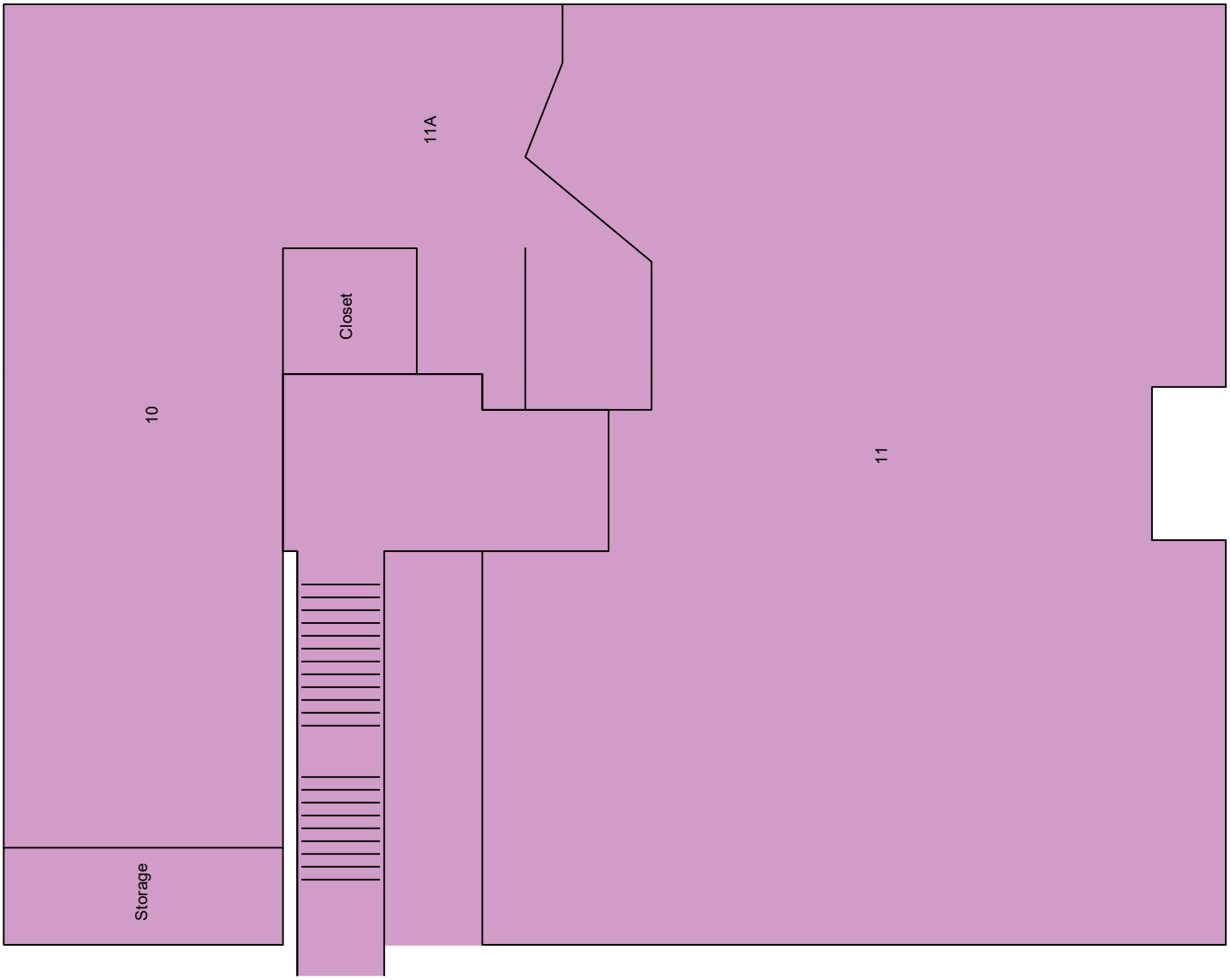
# Figure 24: Second Floor Clearance Impact Map as of August 27, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |

| September 04, 2024 Inspections | | | |
|---|---|---|---|
| **Floor** | **Room** | **Work-in-progress Observations** | **Remedial Work Validated** |
| 1st Floor | 114 | Additional remedial recommendations performed. No additional suspect mold growth observed. | Yes |




LEGEND

N

Previously Cleared

# Figure 25: Basement Clearance Map as of September 4, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244195.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

Cleared Area as of 9/4/2024

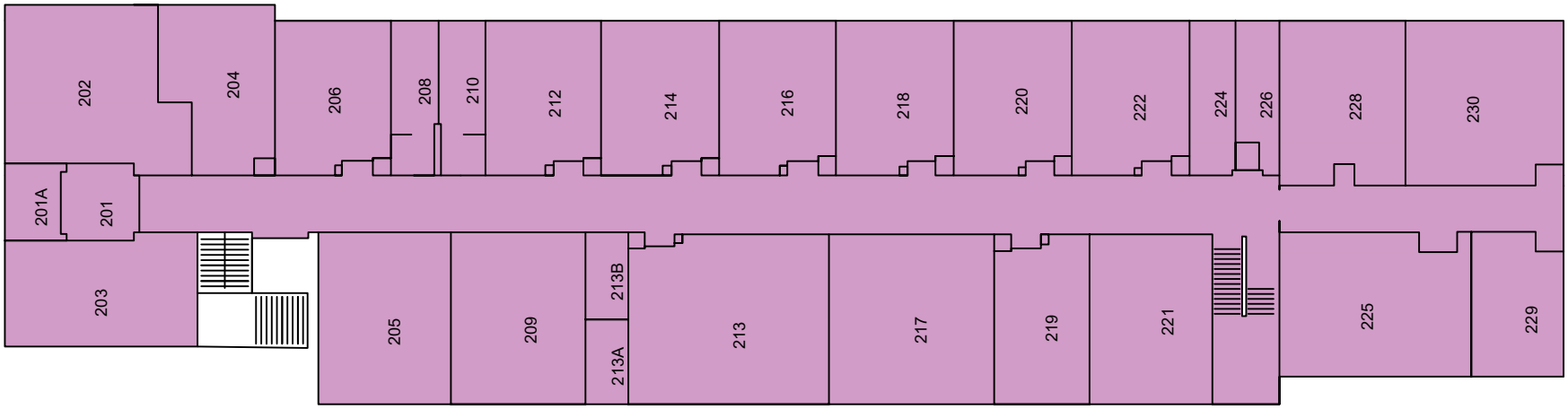
N

# Figure 26: Main Floor Clearance Map as of September 4, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |




## LEGEND

Previously Cleared

N

# Figure 27: Second Floor Clearance Map as of September 4, 2024

Columbia Falls High School
601 13th Street West
Columbia Falls, Montana

FULCRUM ENVIRONMENTAL CONSULTING, INC.
207 W. BOONE AVENUE
SPOKANE, WASHINGTON 99201
(509) 459-9220 www.efulcrum.net

| | |
|---|---|
| MAP BY: Abby Whitmore | PROJECT NUMBER: 244225.00 |
| DATE: September 6, 2024 | REVIEWED BY: Roque Reyes |