



KU Resources, Inc.

Innovative Solutions, Outstanding Support.



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Swissvale Municipal Building
Partial Demolition of the Council
Chambers Meeting Room
and
Construction of a Temporary Enclosure

March 30, 2020

to

May 27, 2020



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INTRODUCTION AND CURSORY REPORT

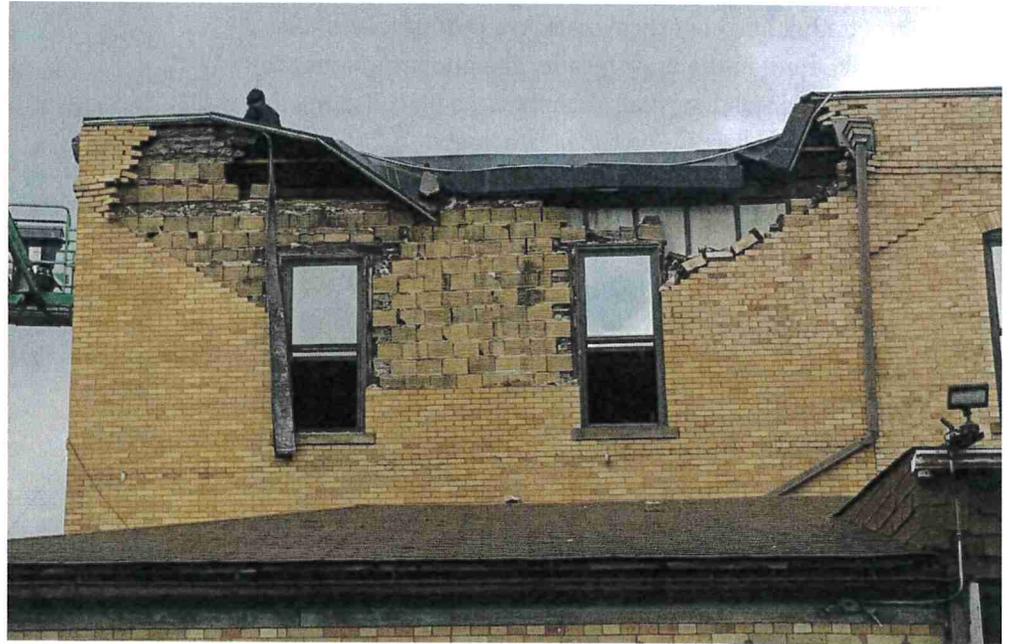


Introduction

In March of 2019 the Borough of Swissvale retained KU Resources, Inc. to inspect a portion of the brick façade on the Borough's Municipal Building directly above the public works garage. This portion of the building is the left wall of the council chambers as seen facing the chambers from the public seating area. KU Resources submitted a report stating that the brick façade was in danger of collapse and outline recommended

steps to be taken. In March of 2020, the portion of the brick façade did collapse causing debris to fall through the roof of the public works garage.

At the time of the inspection in 2019, it was noted that that portion of the building was constructed of hollow building tile. This type of construction was common during the late 19th and early 20th



centuries. As KU understands, this area of the building is an addition built in the 1930's.

Hollow building tile is not glazed or vitrified making it susceptible to degradation due to exposure to water. It was apparent during the 2019 inspection that water damage had impacted the integrity of the wall.

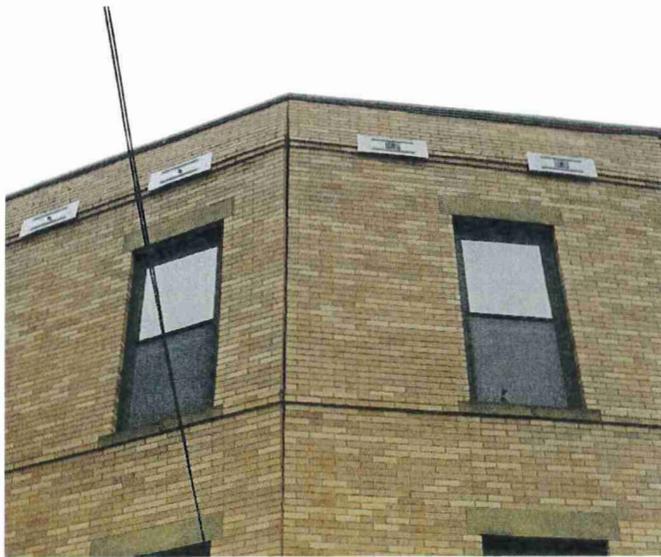
Immediately following the collapse, the Borough of Swissvale again retained KU to oversee the partial demolition of the council chamber area. This process began on the 31st of March, 2020 and ended on the 27th of May, 2020. Contained in Appendix A are daily reports from that period. A summary of the work done follows:

- The walls of the council chambers were removed to the elevation of the floor.
- A closure wall was constructed at the end of the addition built in the 1930's to weather proof the remaining building.
- A roof was constructed on the council chamber floor (See Appendix B for design drawings)
- The area directly under the work area sustained water damage due to the demolition. The suspended and plaster ceilings were removed from the area to facilitate drying.
- Air and surface samples were taken to check for mold. See Appendix C.
- The chimney was inspected.

This section serves as a cursory report of the condition of portions of the building as observed during the demolition.

Cursory Report

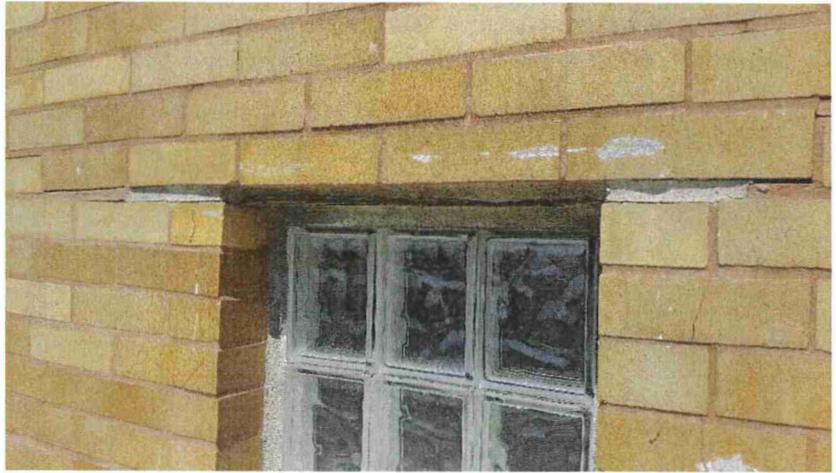
Of primary concern was the remaining portion of the wall below the level of the council chamber floor. Along Roslyn Street a full height vertical crack in a mortar joint shows displacement in the brick façade. See photo on right taken after the demolition. Wall anchors were placed along this wall prior to the collapse. See the photo below.



This photo taken during the demolition along the Roslyn Street side shows the result of long-term water infiltration. Here the original plaster covering, which served as the original finished wall shows complete separation from the hollow building tile. This condition was common along the 2nd floor walls. Please refer to the daily reports for pictures and details.



The remaining wall above the public works garage also exhibits structural deterioration. Cracks, step cracking, loss of mortar and vertical displacement are all evident. The photo on the right shows all these conditions.



Other parts of the building façade also exhibit distress. The lintel over this window is cracked and displaced.



Evidence of water damage is visible in various parts of the building outside of the area that sustained damage in the collapse and subsequent demolition. Some representative areas are shown.



Wall outside of police area

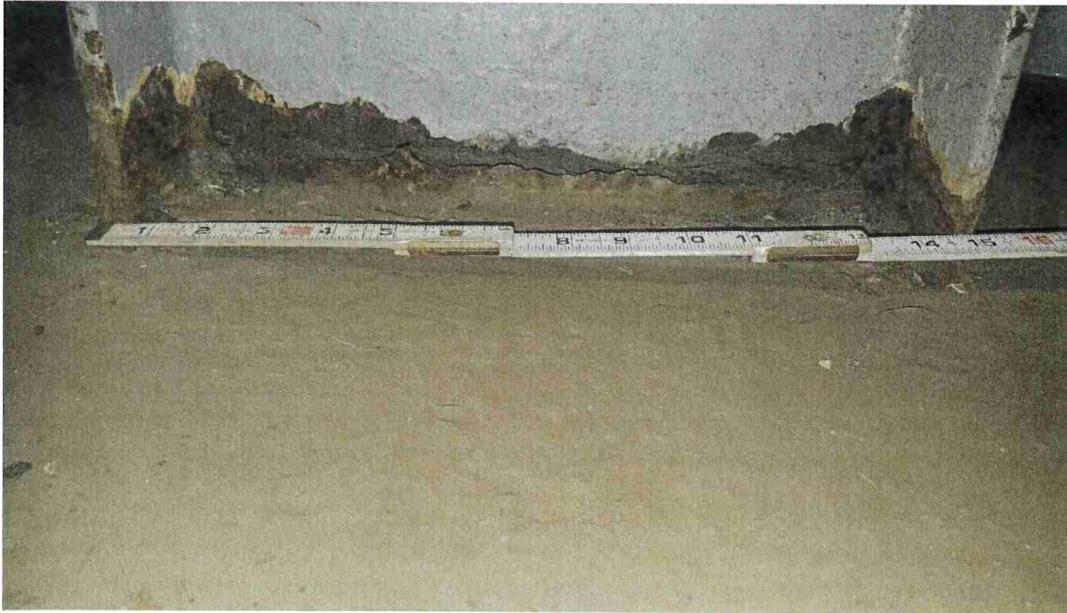


Steps leading from elevator entrance to council chambers



Steps from boiler room to 1st floor

Other deterioration was noted. Two columns support a floor beam that spans from the garage wall perpendicular to Roslyn Street and extending into the boiler room stopping short of the steps to the main floor. Both columns are I-beams dating to the Jones and Laughlin Steel era. The column in the boiler room exhibits advanced section loss. The web has lost approximately 90% of its section and both rear flanges have lost up to 1/3 of their section. Refer to the following photo.



Steel column in boiler room

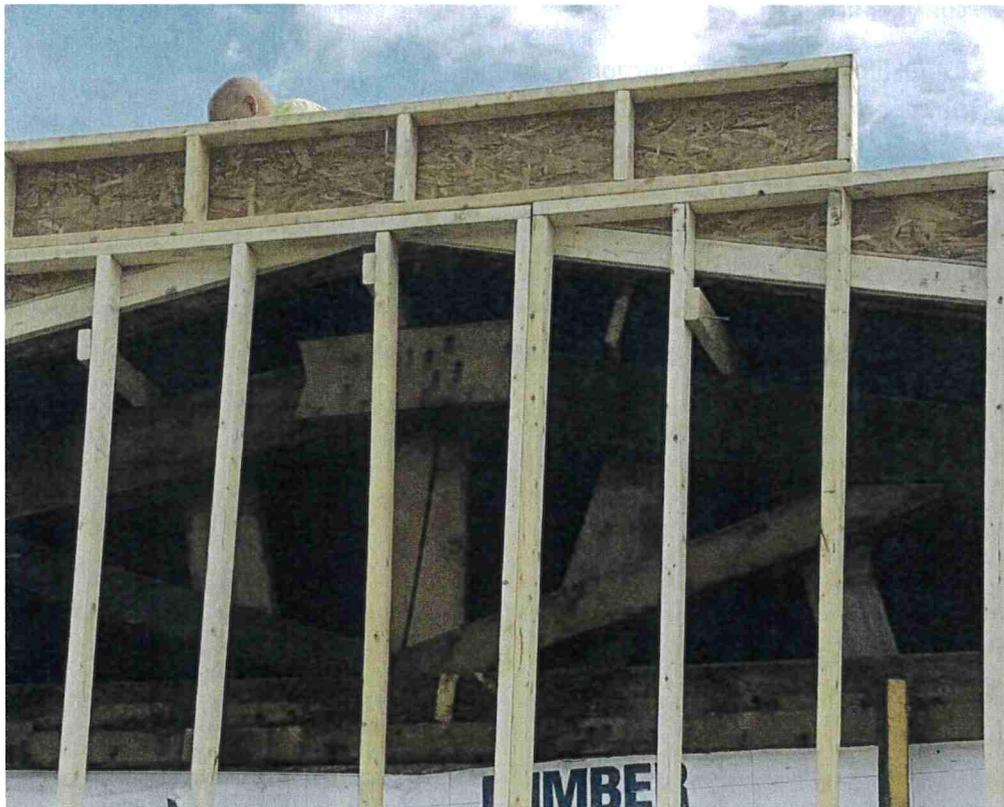
The column in the garage exhibits rusting and minimal section loss. Refer to the following picture. Deterioration for both columns is occurring at the floor level.



Steel column in public works garage



Above the partition wall being constructed is a wooden roof truss. Note the deflection in the truss reflected in the top plate of the partition wall. The top cord of the truss and the steel hanger rod connecting the top and bottom cords have been repaired. The repairs do not appear to be structurally sufficient in nature.



Note top cord repair and displaced hanger rod.

Date:	Tuesday March 31, 2020				
Arrived:	7:45			Departed:	2:00
Weather	Low	39°	High	47°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 4

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Plumber working directly for the Borough removed radiators.
- Massarelli constructed partition wall under the 1st truss in preparation of removing the council chamber area.
- Contractor removed the suspended ceiling tiles, the older ceiling tiles and the nailers running perpendicular to the ceiling joists.



Suspended and original finished ceiling removed.



Interior partition wall

Date:	Wednesday April 1, 2020				
Arrived:	7:30				
Departed:	3:30				
Weather	Low	40°	High	53°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Duquesne Light Company (DLC) on site to disconnect power

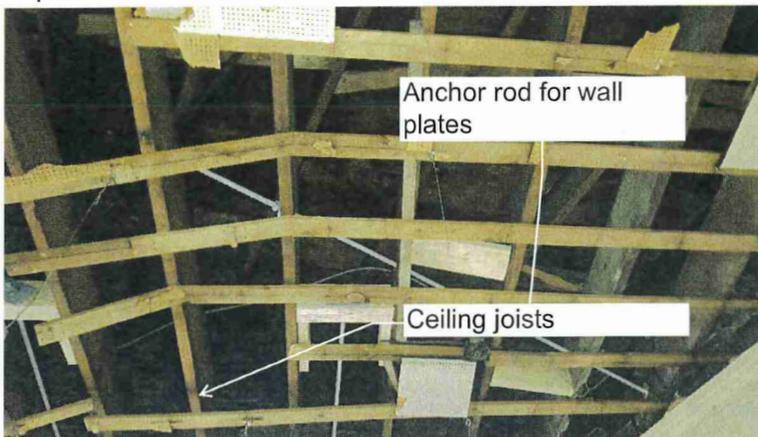
Crew – 4

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- DLC disconnected both the single and 3 phase power drops.
- Contractor began to cut and remove the roof decking between the purlins.
- Contractor removed the HVAC unit from the gable end.
- Contractor began removing facing brick from the gable end. Speed tile and facing brick around the gable end of the purlins remained in place.



Date:	Thursday, April 2, 2020				
Arrived:	7:30				
Departed:	3:30				
Weather	Low	34°	High	54°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

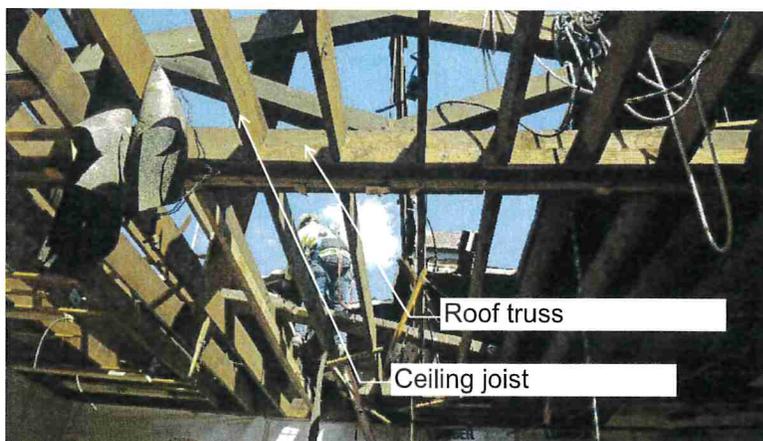
Crew – 4

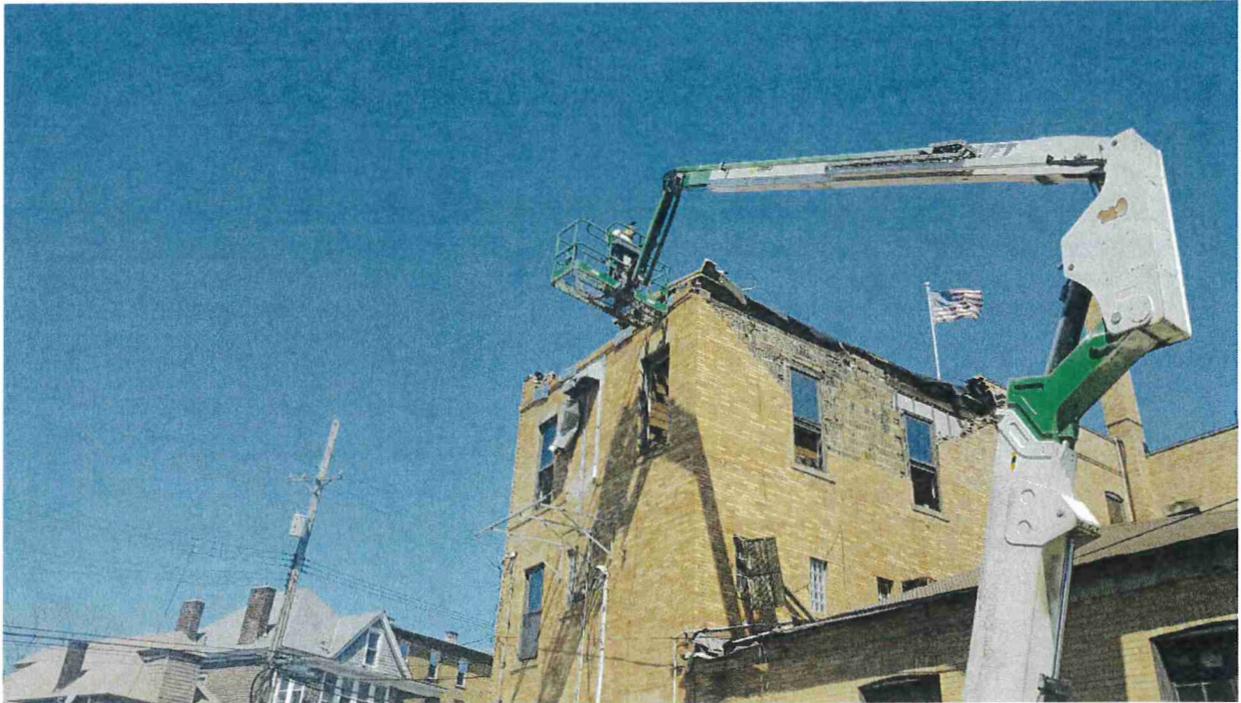
Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Contractor continuing to remove roof decking. The purlins spanning from the 2nd truss to the gable working from the center to right were removed. (left and right while facing the gable end from inside)
- A small portion of roof deck remained on the right side.
- The brick, speed tile and purlins were removed from the gable end.





Date:	Friday, April 3, 2020				
Arrived:	7:30				
Departed:	3:30				
Weather	Low	30°	High	60°	Clear
Contractor	Massarelli Excavating & Demolition				

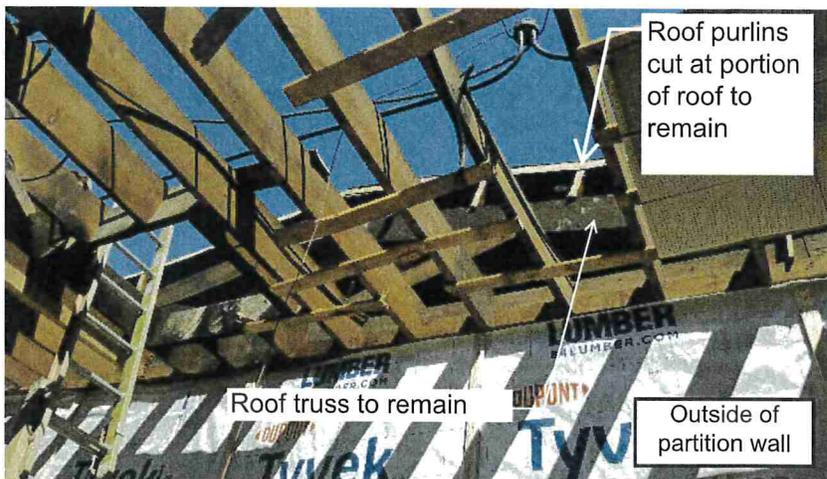
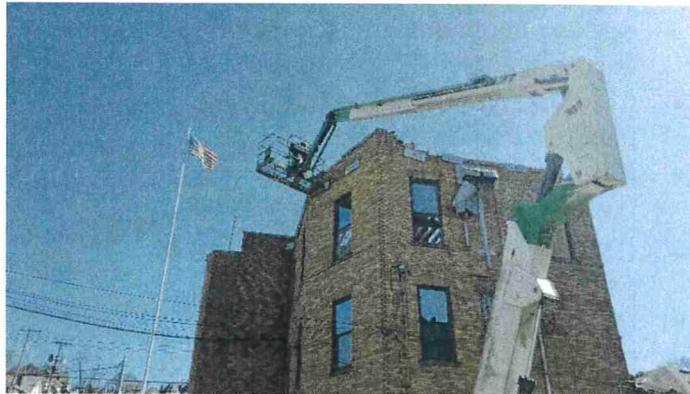
Crew – 4

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Contractor removed concrete cap along right side, corner (right front) and partial parapet along right side and portions of the roof deck.



Date:	Monday April 6, 2020				
Arrived:	7:15				
Departed:	3:30				
Weather	Low	30°	High	64°	Clear
Contractor	Massarelli Excavating & Demolition				

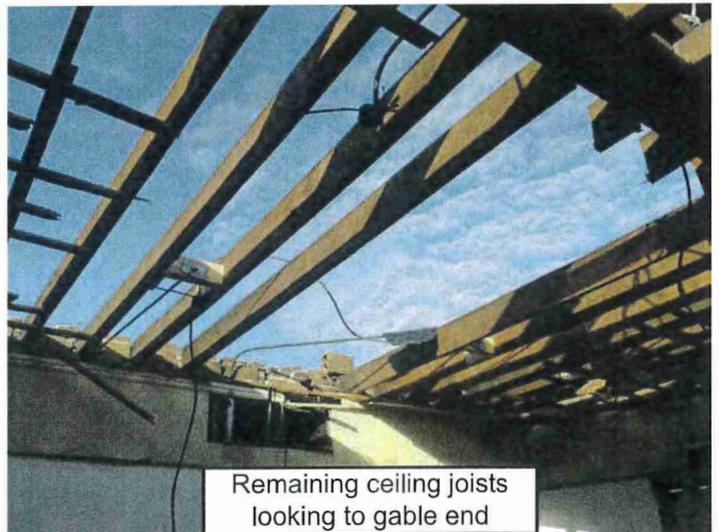
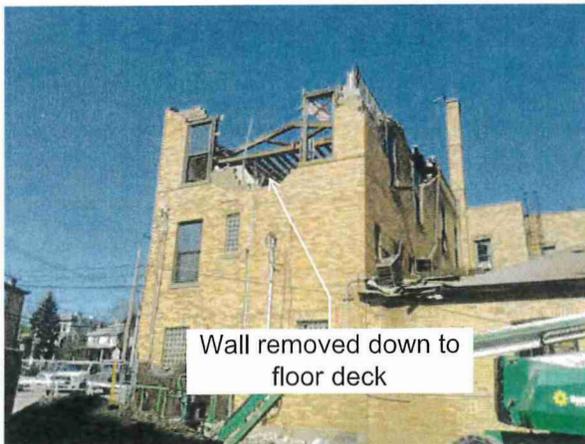
Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Contractor began by removing the roof decking taken down Friday from the floor of the council chambers.
- Contractor removed the remaining pieces of roof deck.
- Contractor began removing ceiling joists from the 2nd truss to the gable end.
- Contractor continued to remove the parapet from the street side.
- Removing wall starting at left gable corner.
- Contractor draped plastic sloped away from closure wall due to the weather forecast of rain tomorrow.



Date:	Tuesday April 7, 2020				
Arrived:	7:15				
Departed:	10:30				
Weather	Low	50°	High	64°	Thunderstorms
Contractor	Massarelli Excavating & Demolition				

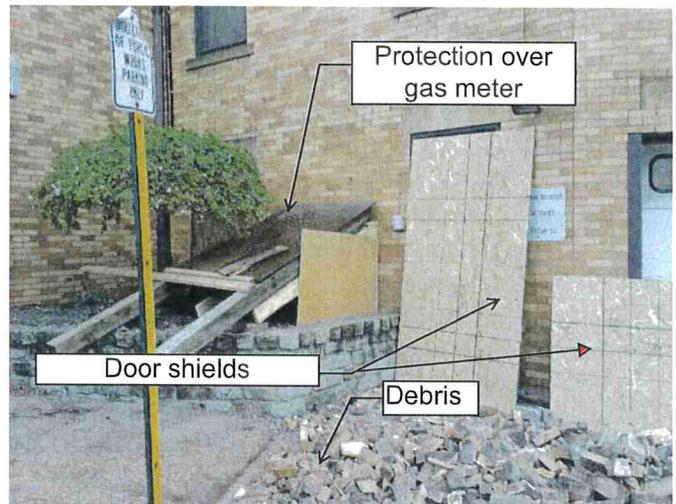
Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Contractor removed debris from 4/6/20 demolition.
- Contractor placed sandbags on roof to channel water away from open area.
- Contractor placed millings to level a pad for the man lift
- Contractor reinforced plastic sheeting in anticipation of the severe weather
- Demolition was not performed this date.



Date:	Wednesday April 8, 2020				
Arrived:	7:30				
Departed:	3:00				
Weather	Low	54°	High	68°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

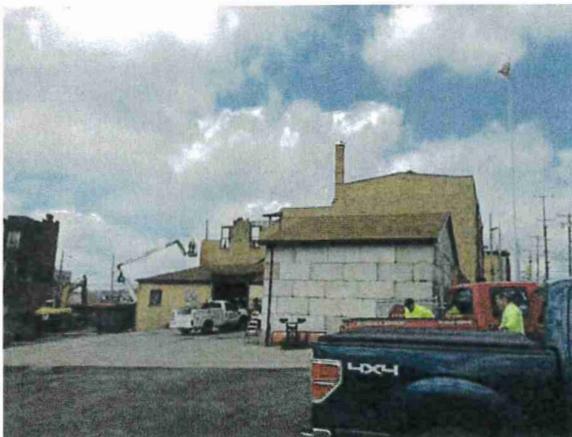
Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Contractor removed plastic and debris from the chamber floor
- Contractor removed 2nd truss and ceiling joists.
- Contractor brought in another dumpster and loaded the scrap metal.
- Contractor continued to demolish the walls.



Date:	Thursday April 9, 2020				
Arrived:	7:30				
Departed:	10:00				
Weather	Low	36°	High	56°	Windy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

F450 Dump Truck
Manlift
Skid Steer Loader
2 Dumpsters
Pick-up Truck
Compressor
Hand Tools

Work Performed

- No demolition performed this date due to weather.

Date:	Friday April 10, 2020				
Arrived:	NA				
Departed:	NA				
Weather	Low	32°	High	43°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

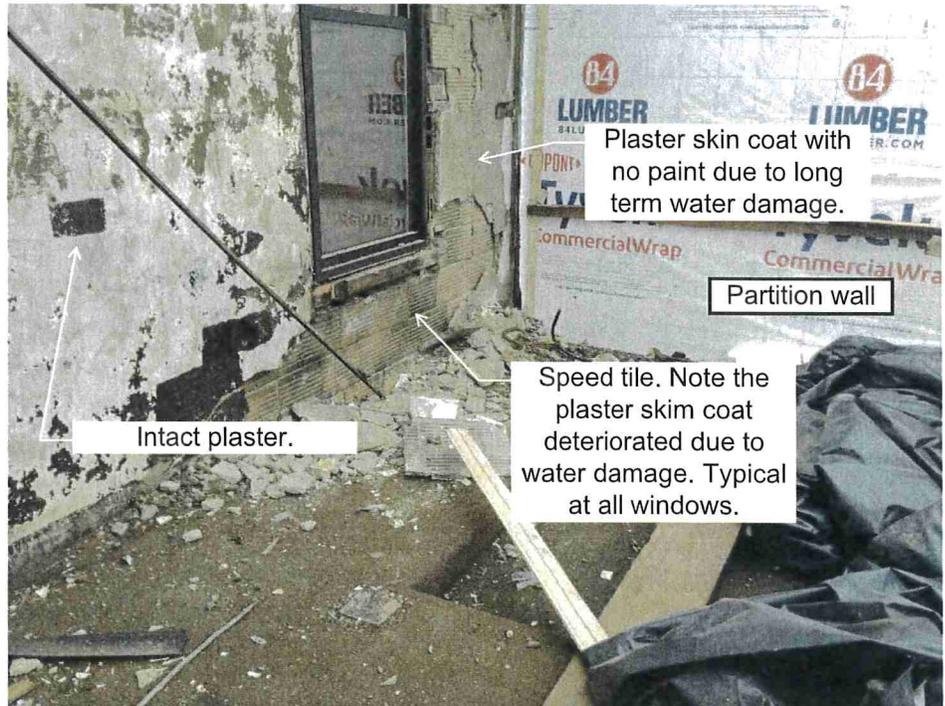
Work Performed

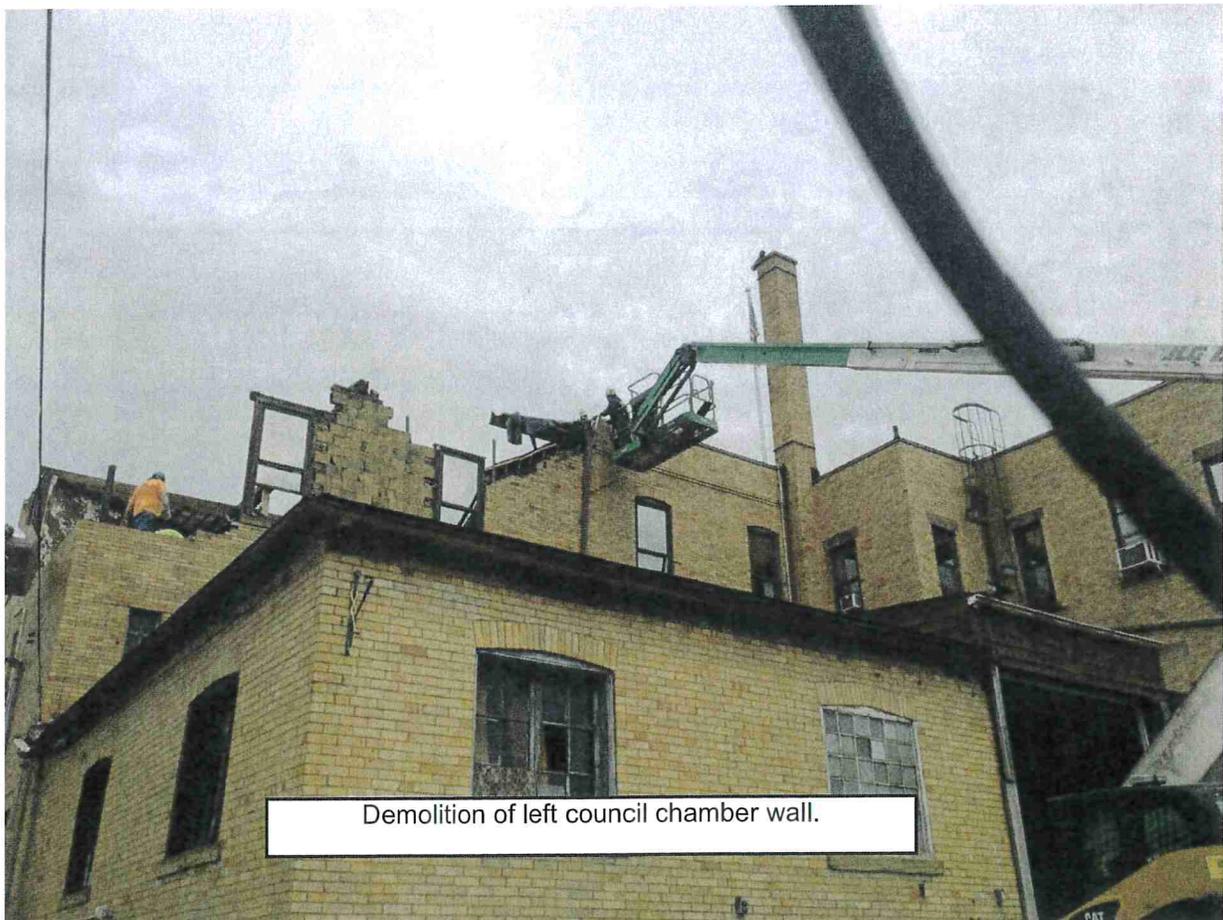
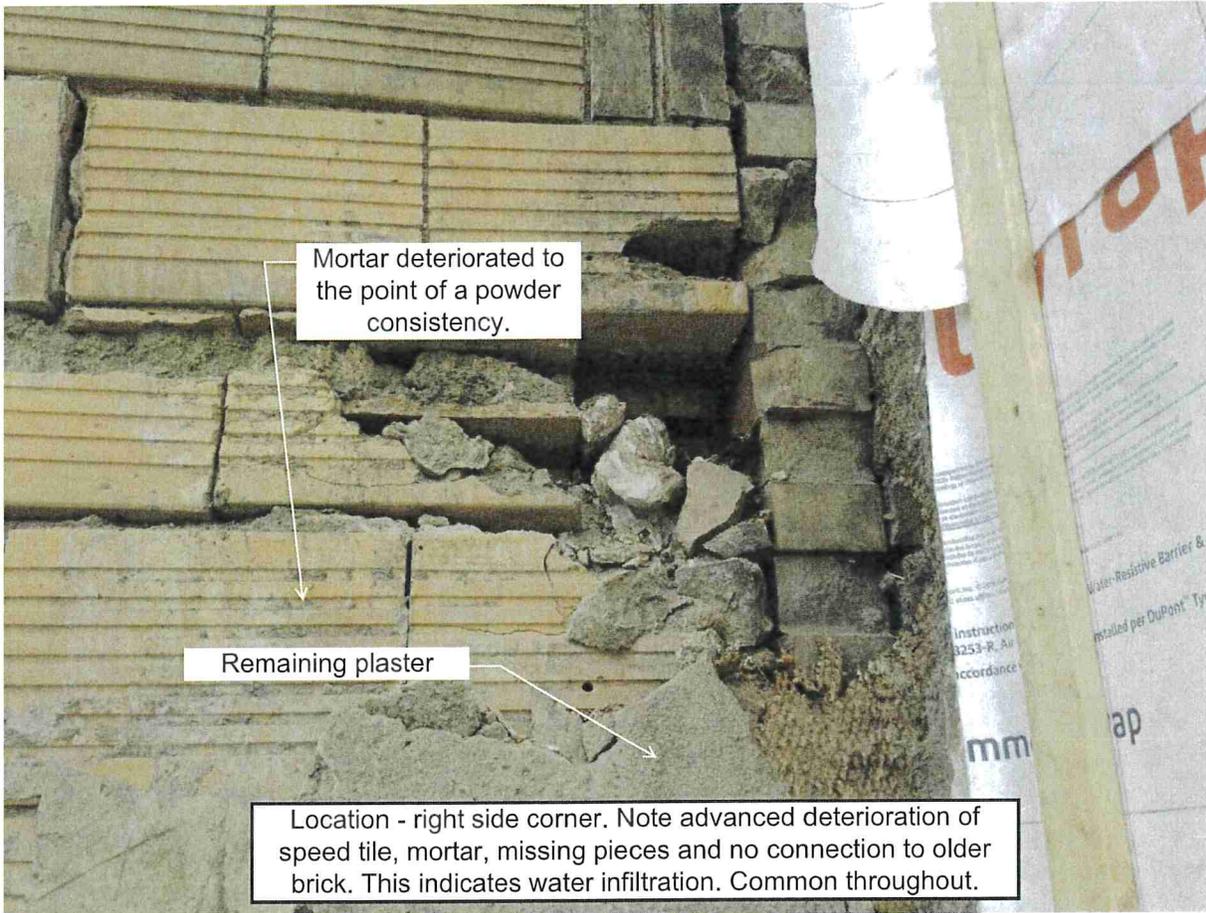
- No demolition performed this date due to weather.

Date:	Tuesday April 14, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	35°	High	49°	Clear
Contractor	Massarelli Excavating & Demolition Abmech, Inc.				

Work Performed:

- Abmech on site removing the asbestos panels. Panels were removed starting along the left wall then continuing along the left wall. Removal completed by 12:15 PM
- Massarelli removed debris from the garage roof. Massarelli began removing the wall over the garage.





Date:	Wednesday April 15, 2020				
Arrived:	7:30				
Departed:	2:30				
Weather	Low	29°	High	48°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

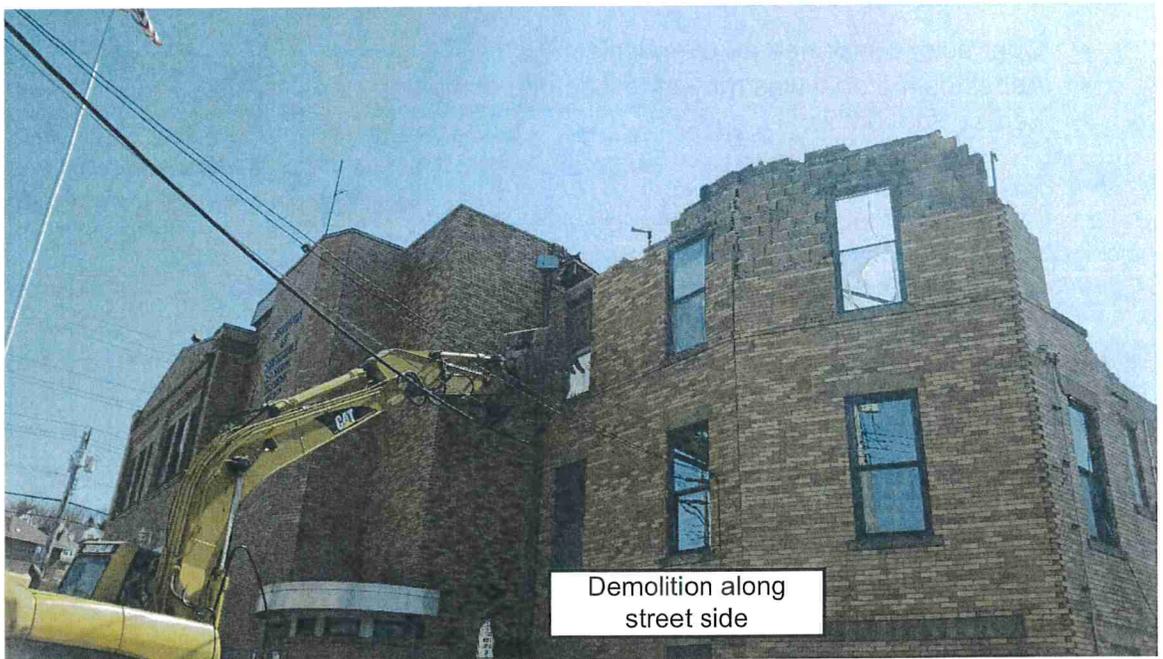
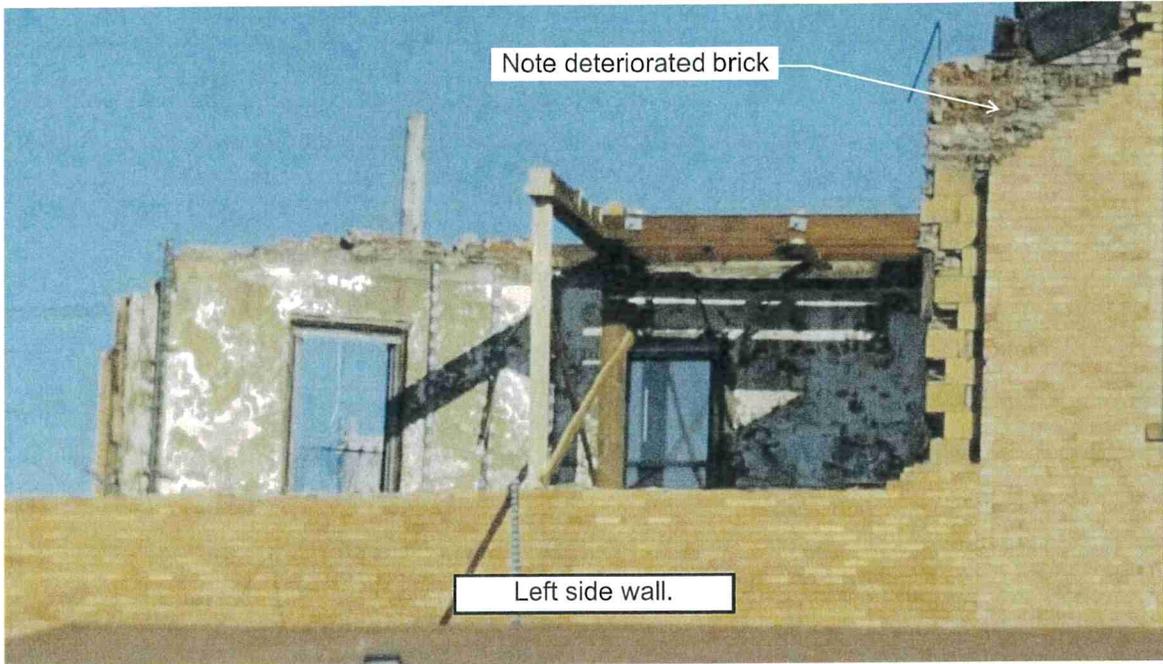
Equipment – excavator

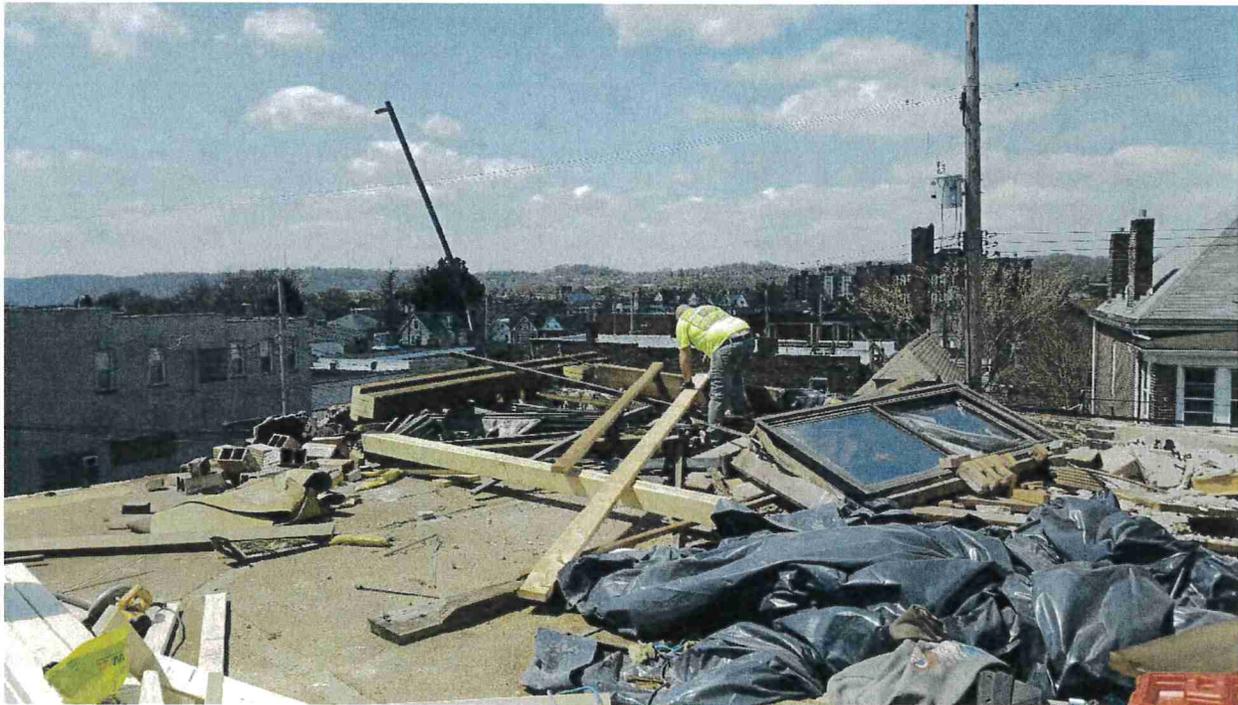
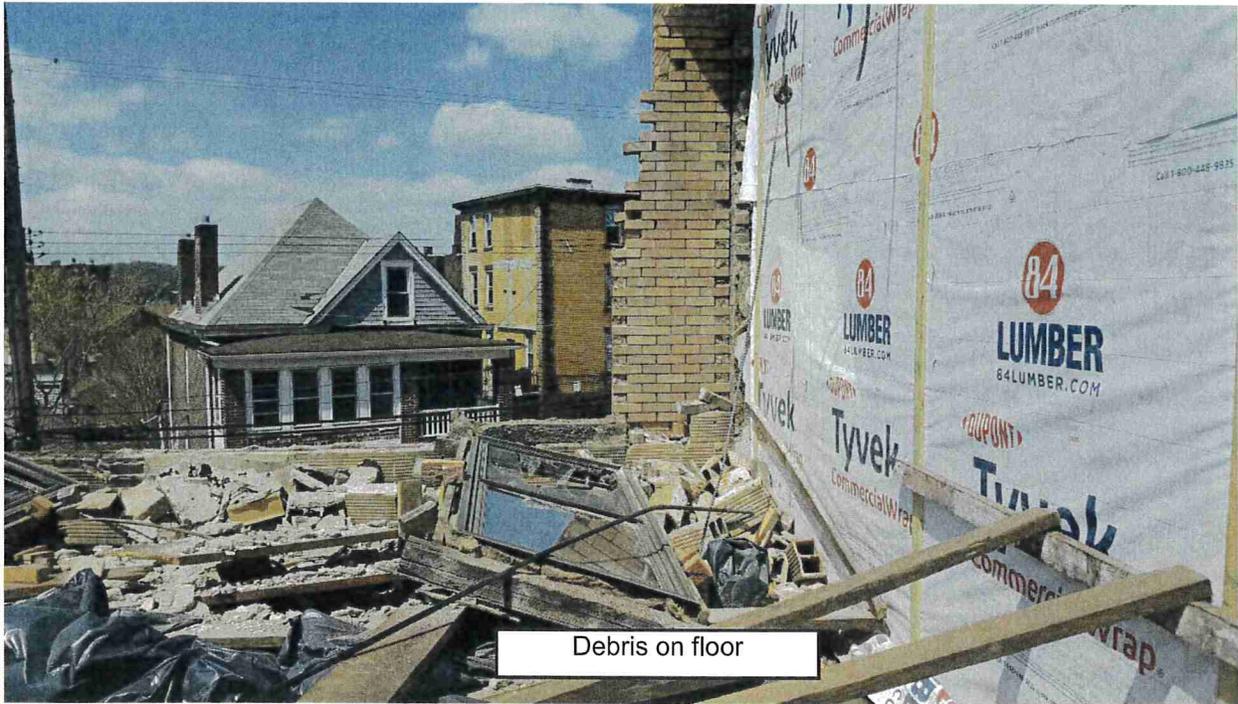
- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

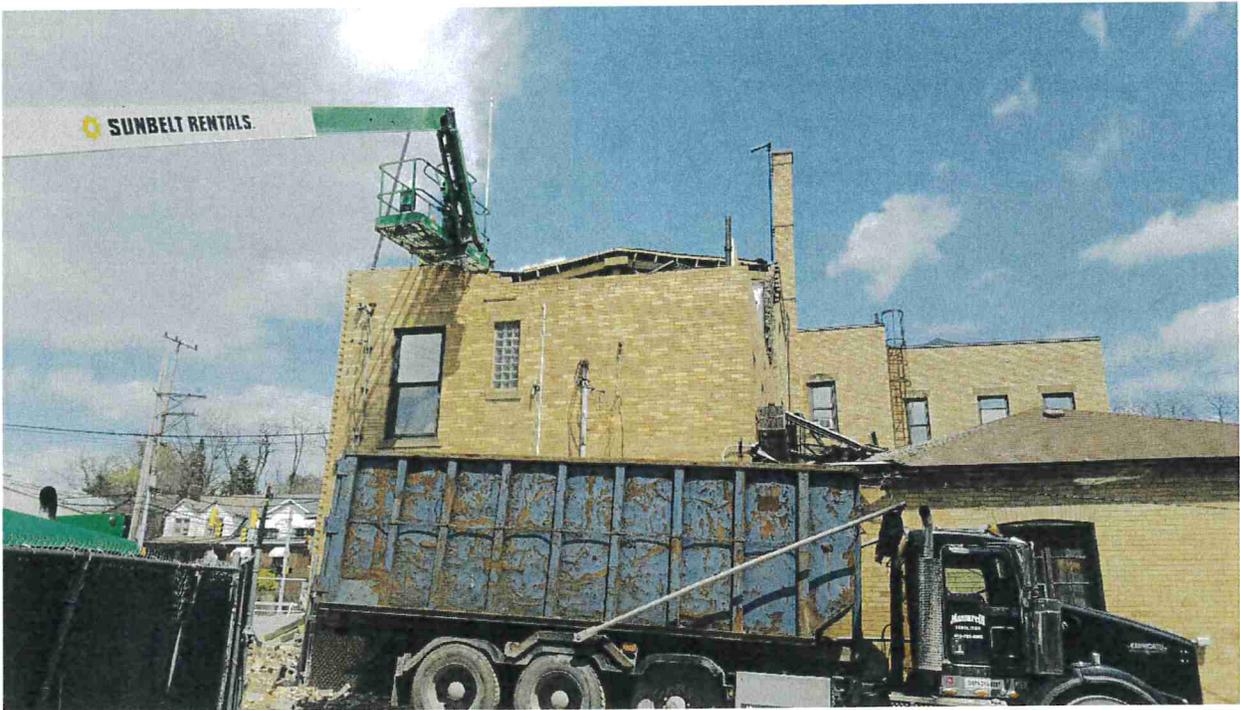
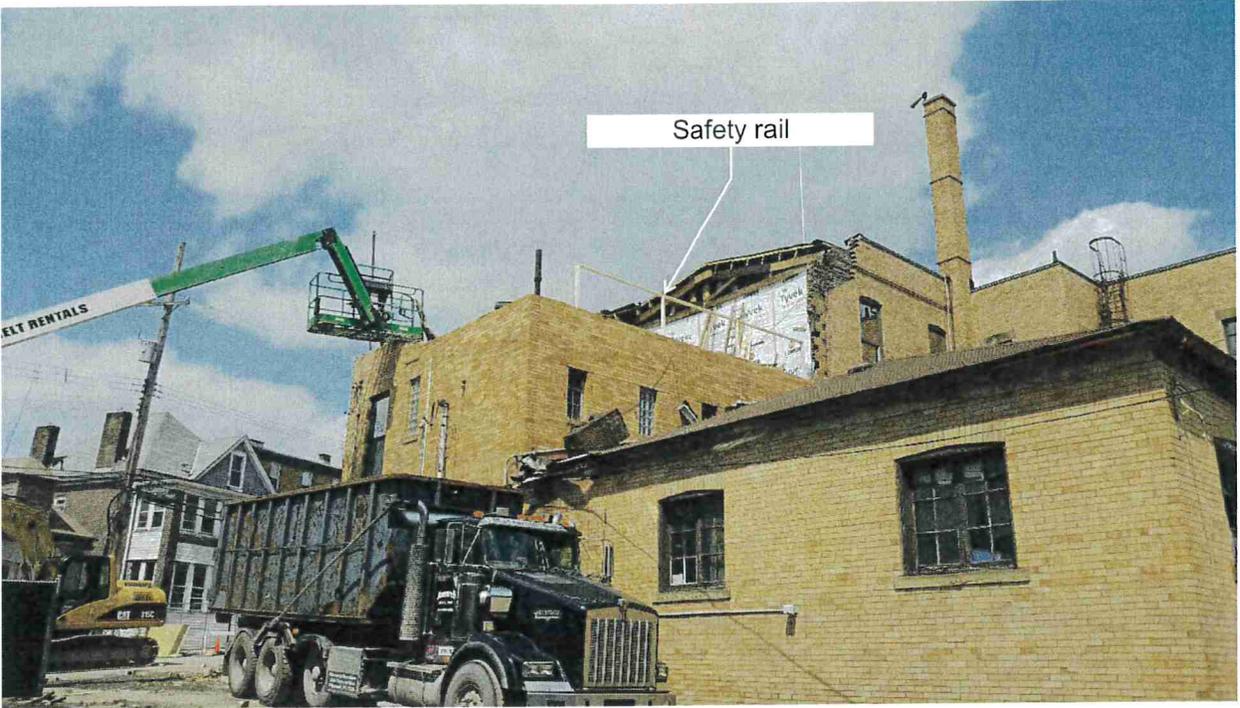
Work Performed

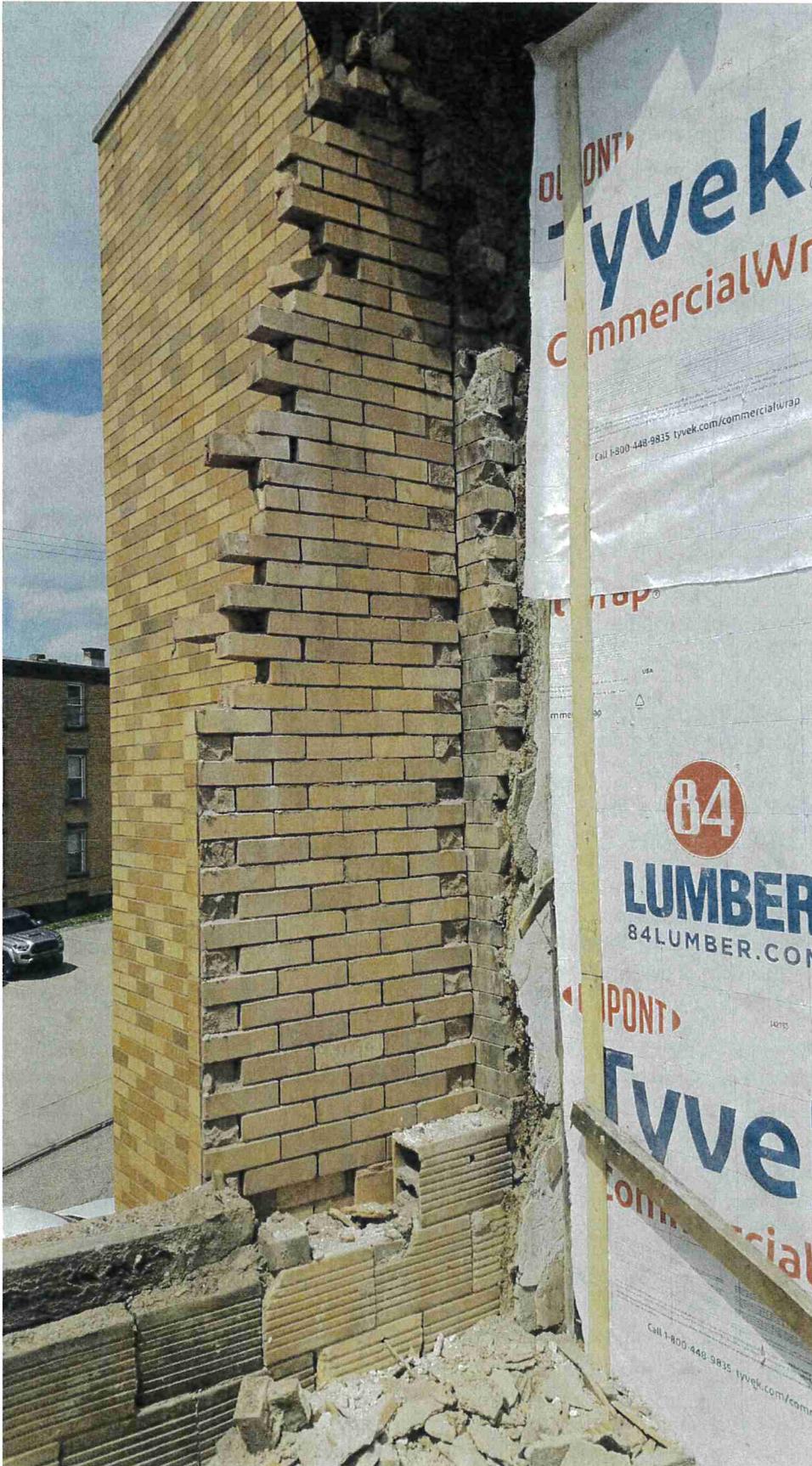
- Contractor performed an overall clean-up
- Asbestos material was moved to Abmech dumpster
- Items removed:
 - Ceiling joists
 - Lower truss cord
 - Right side wall to bottom of window level
 - Debris from the council chambers floor
- A hand rail was started on left side.











Date:	Thursday April 16, 2020				
Arrived:	7:30				
Departed:	3:30				
Weather	Low	30°	High	49°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

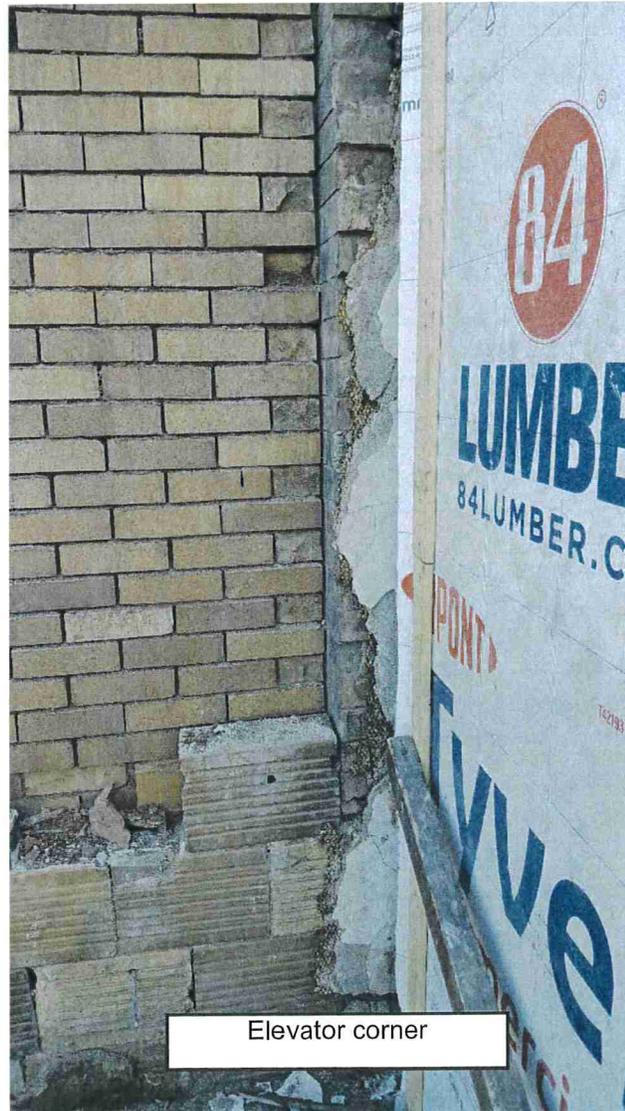
Equipment – excavator

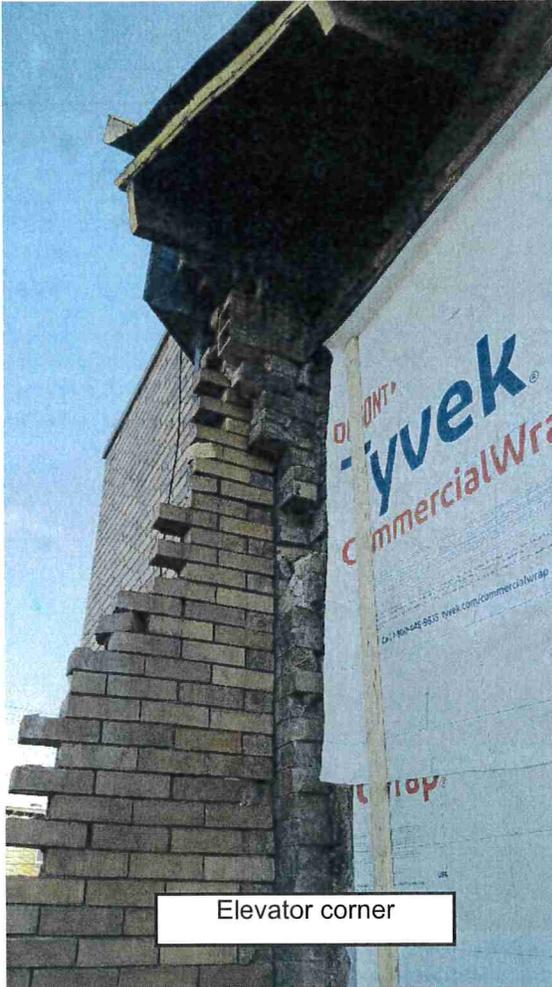
- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Removed brick and structural tile in the elevator corner
- Completed safety rail
- Removed brick and structural tile to final elevation along the right side
- Removed debris from the street
- Saw cut brick along elevator shaft on right

The structure supporting the council chamber floor was inspected. The floor joists are spaced at approximately 12" and sit on a structural tile ledge with a bearing area approximately 3 ½ deep.





Elevator corner



Brick and speed tile removed along the right site to final elevation

Date:	Friday April 17, 2020				
Arrived:	8:00				
Departed:	11:15				
Weather	Low	35°	High	51°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

2 Dumpsters

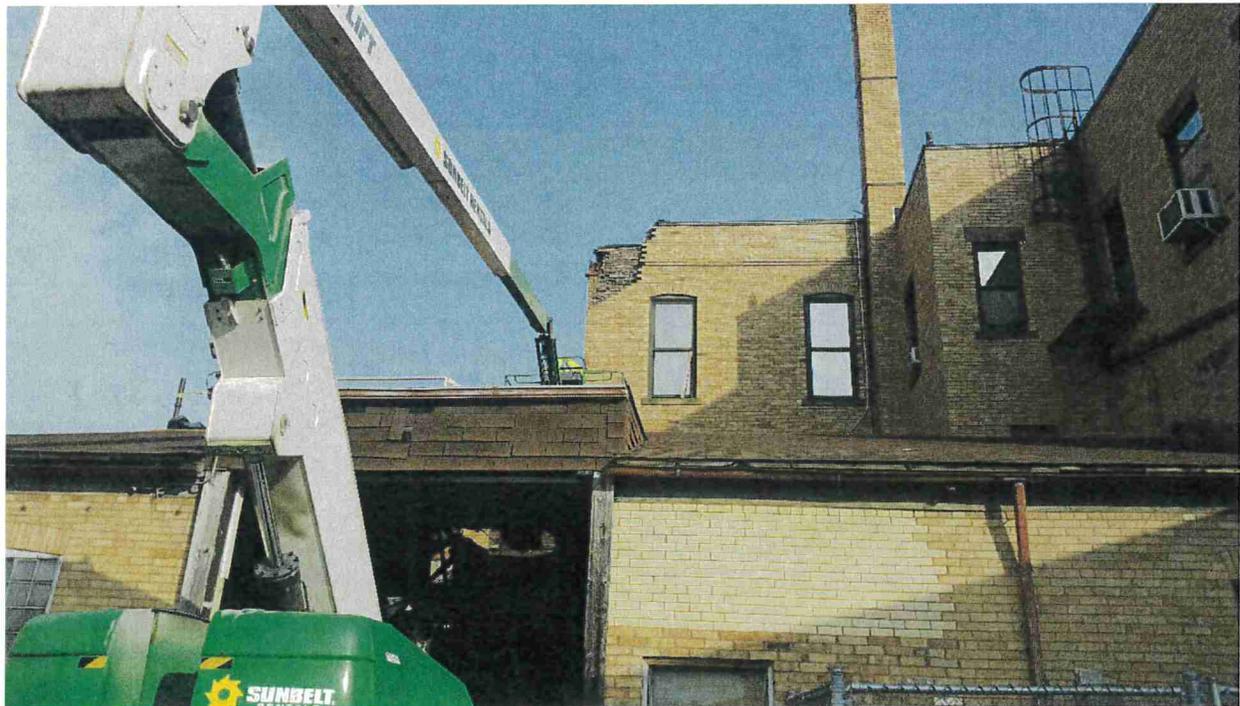
Pick-up Truck

Compressor

Hand Tools

Work Performed

- Brick and speed tile were saw cut on left at the truss post.
- General clean-up.
- Ricutti Contracting on sight to price roof.



Date:	Monday April 20, 2020				
Arrived:	7:30				
Departed:	2:00				
Weather	Low	40°	High	60°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

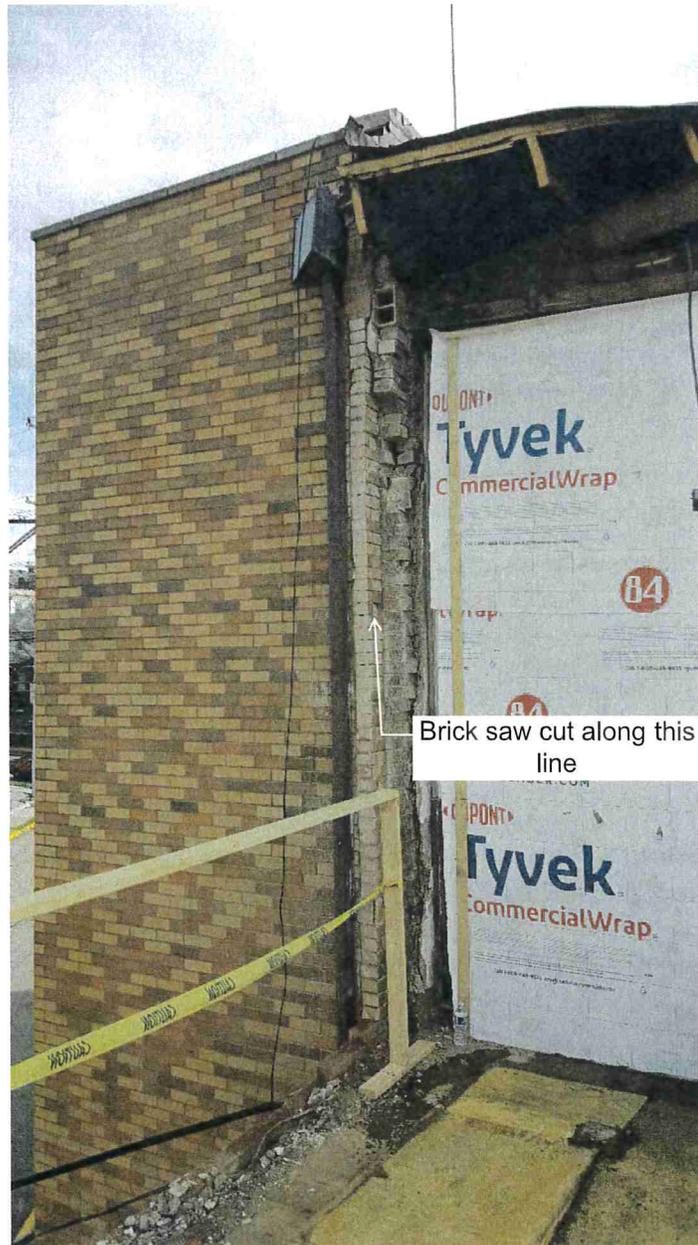
Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- Removed raised platform.
- Installed new plastic and supporting lumber over chamber floor.
- Sand bags and framing were placed on remaining roof to channel water away from the camber floor.
- Developed roof faming plans



Brick saw cut along this line

Date:	Tuesday April 21, 2020				
Arrived:	7:30				
Departed:	3:00				
Weather	Low	40°	High	51°	Wind, rain and sun
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

F450 Dump Truck
Manlift
Skid Steer Loader
2 Dumpsters
Pick-up Truck
Compressor
Hand Tools

Work Performed

- Removed portions of damaged garage roof.
- Water infiltration noted despite preparations made 4-20-20.
- Materials for the parapet wall were secured.

Date:	Wednesday April 22, 2020				
Arrived:	7:30				
Departed:	2:30				
Weather	Low	30°	High	51°	clear
Contractor	Massarelli Excavating & Demolition				

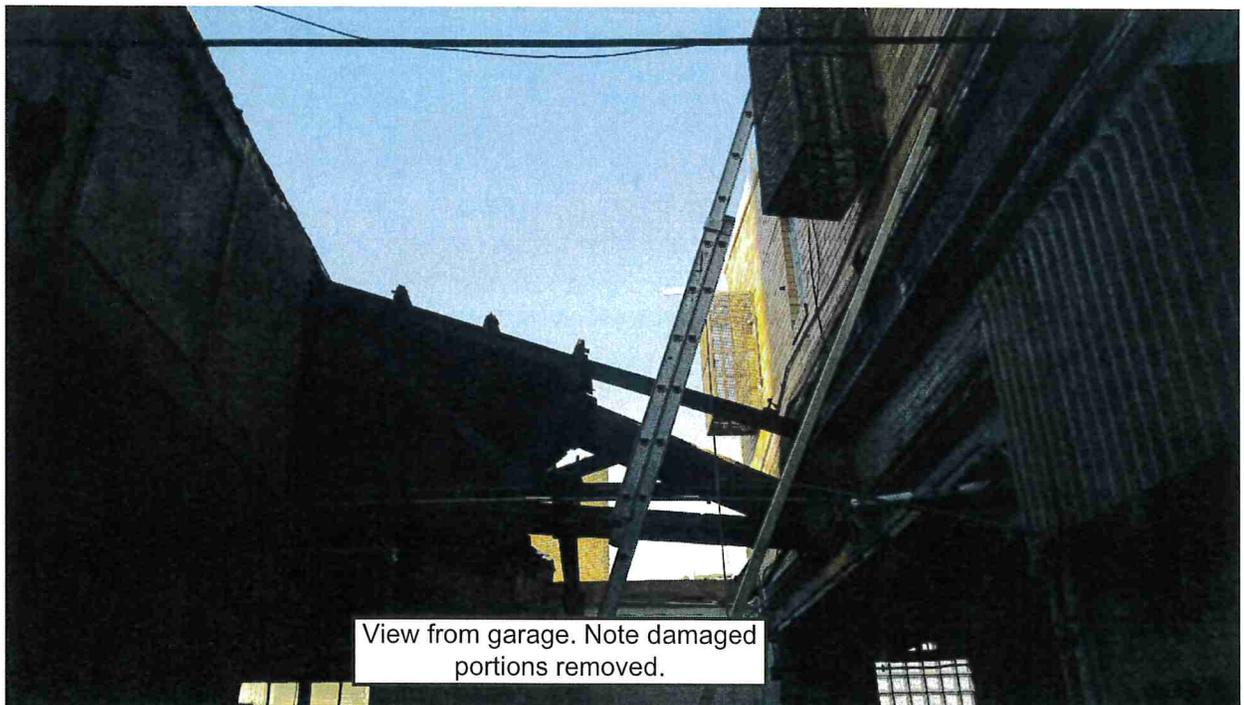
Crew – 3

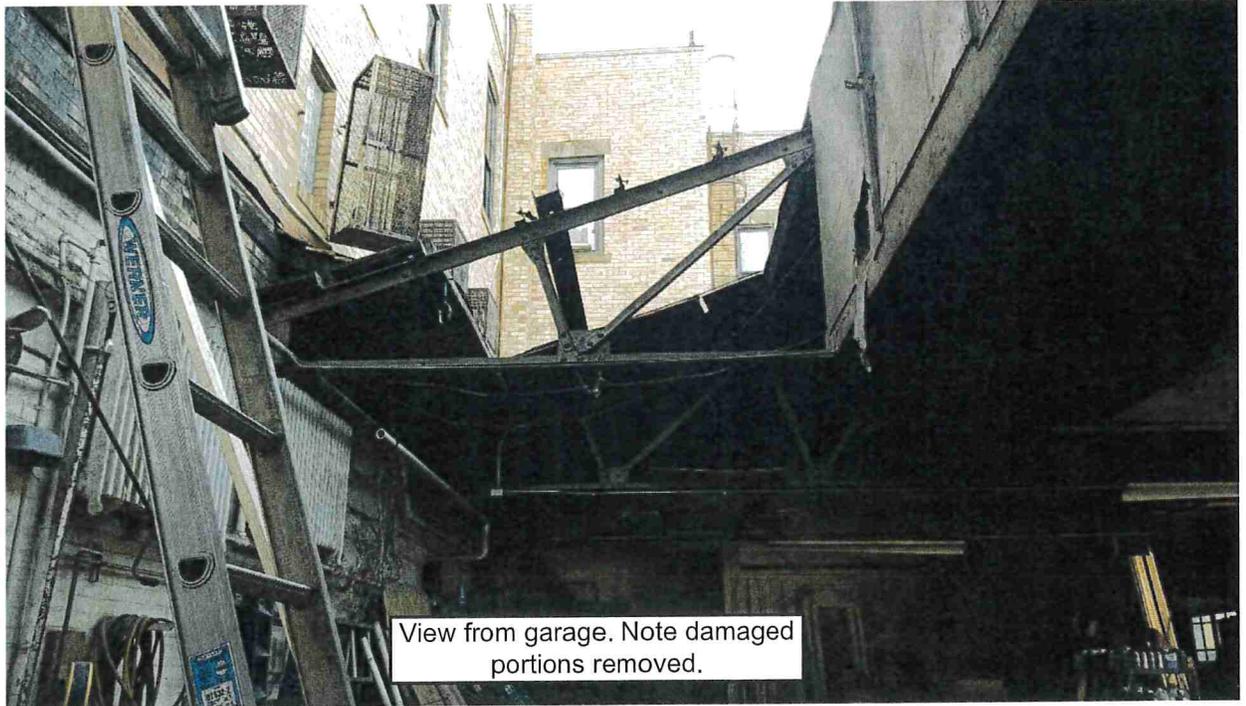
Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

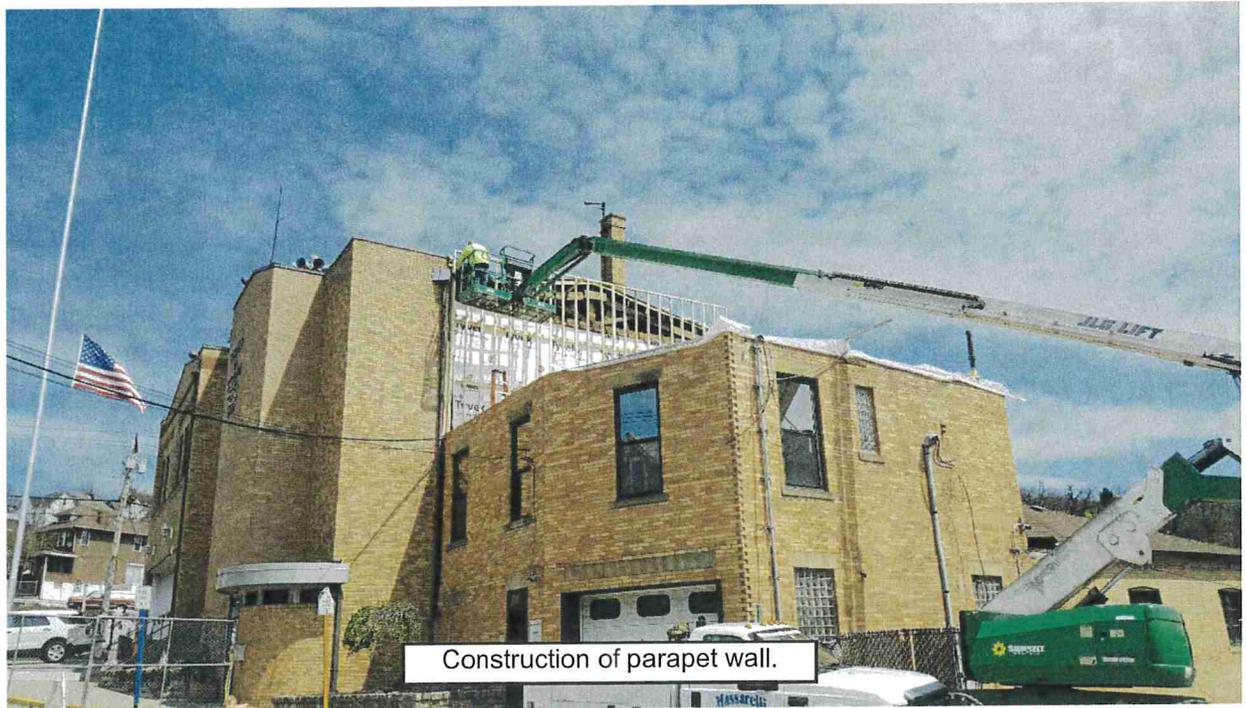
Work Performed

- Electrician on site to re-connect weather heads, replace damaged items and perform inspection. Ticket to re-connect was issued to Duquesne Light
- New parapet wall was constructed to 16 feet.
- Deck (council chamber floor) was recovered with plastic.

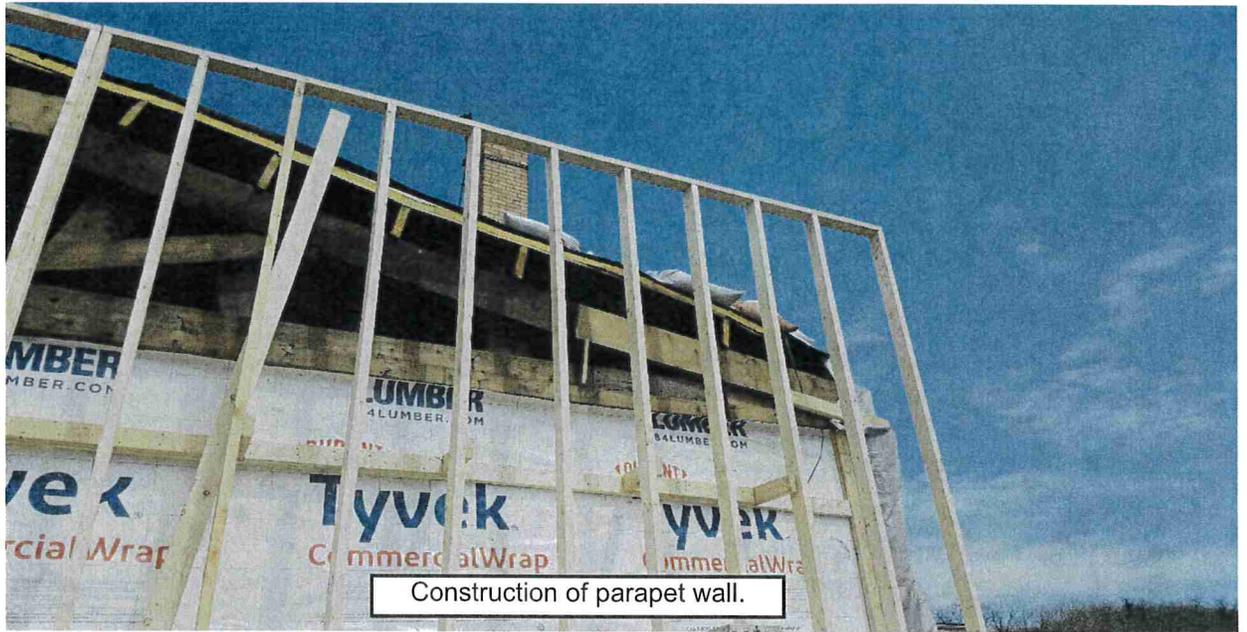




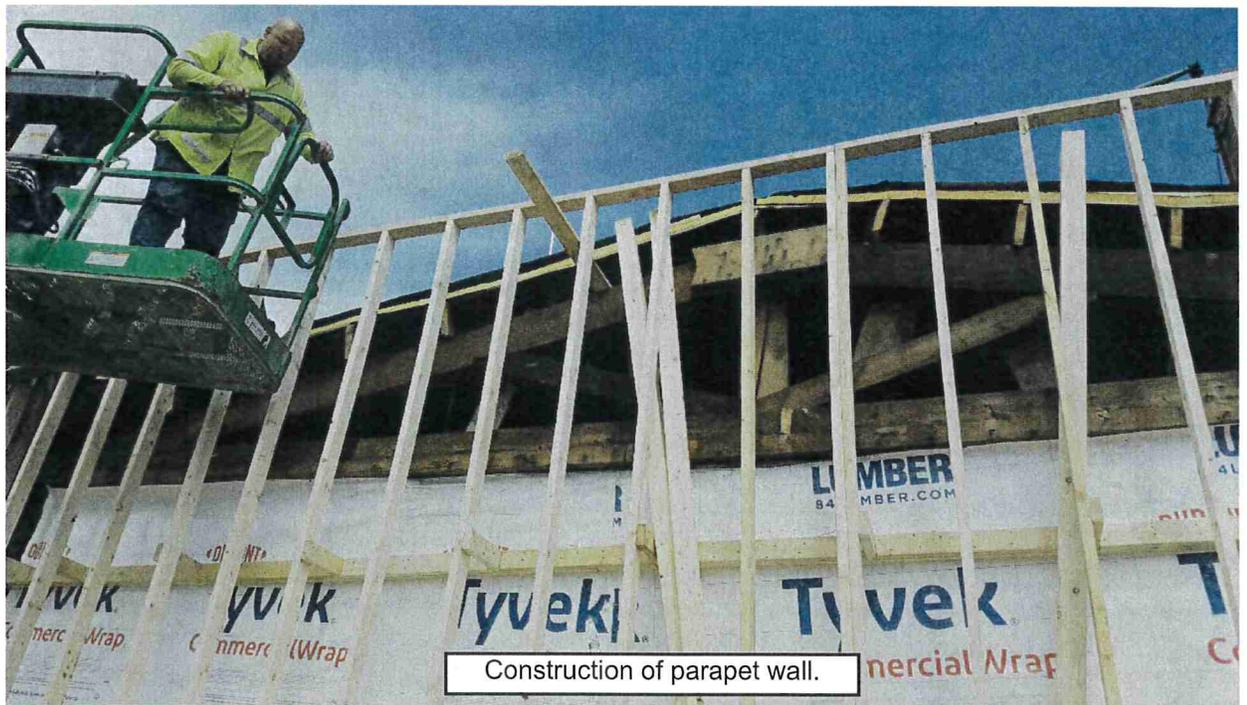
View from garage. Note damaged portions removed.



Construction of parapet wall.



Construction of parapet wall.



Construction of parapet wall.

Date:	Thursday April 23, 2020				
Arrived:	7:30				
Departed:	1:15				
Weather	Low	30°	High	51°	clear
Contractor	Massarelli Excavating & Demolition				

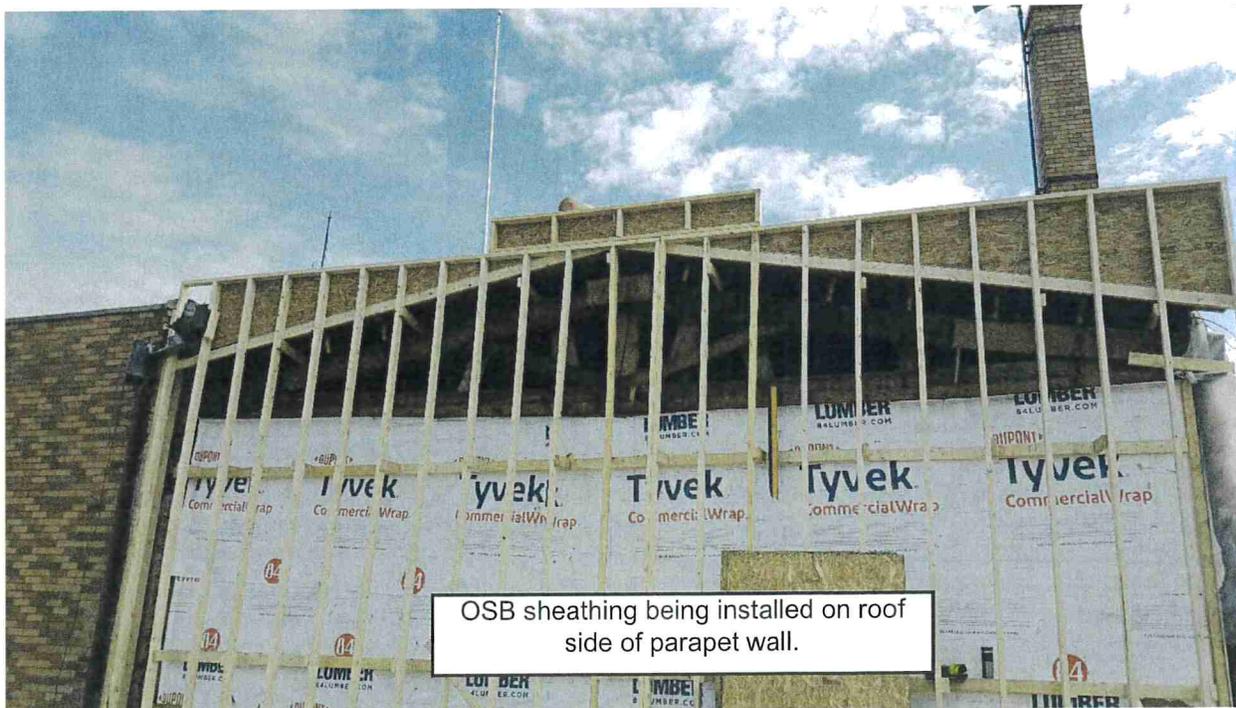
Crew – 3

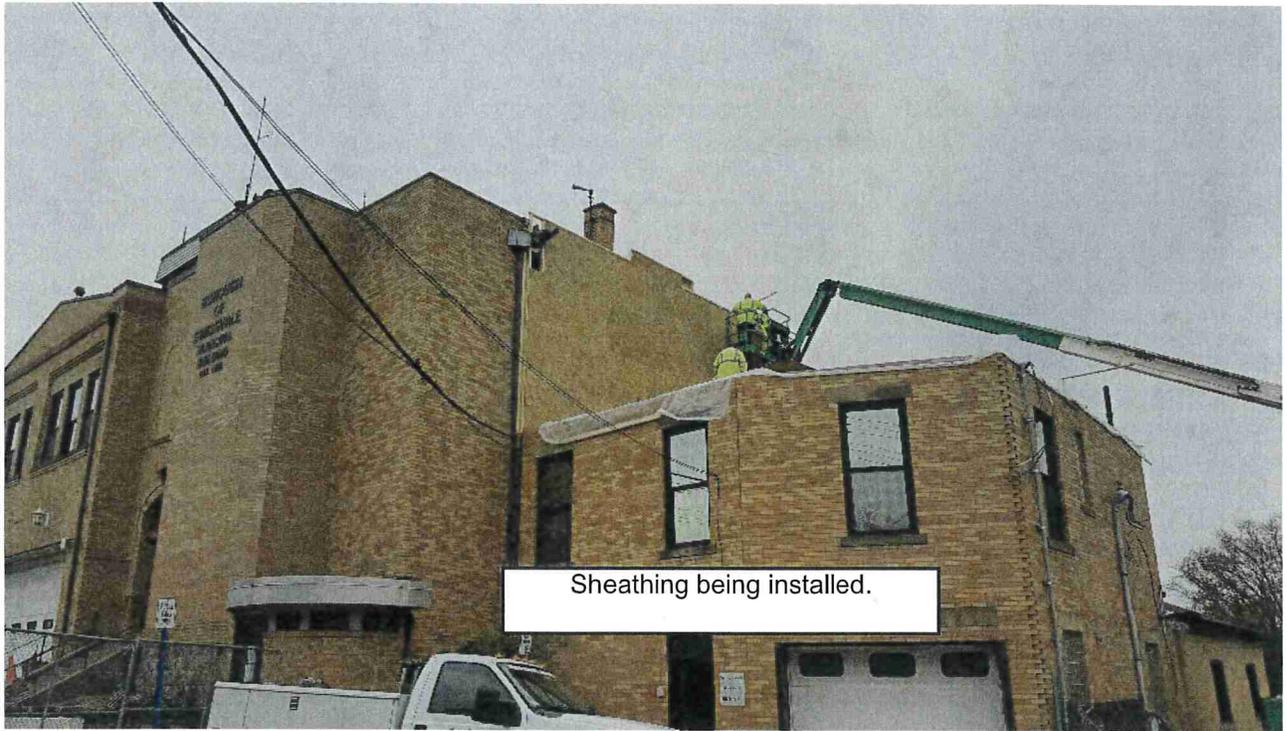
Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

Work Performed

- The new parapet wall was completed. OSB and plastic were installed.
- Roof deck was installed between the parapet wall and the existing roof.
- All exposed OSB was covered with plastic.



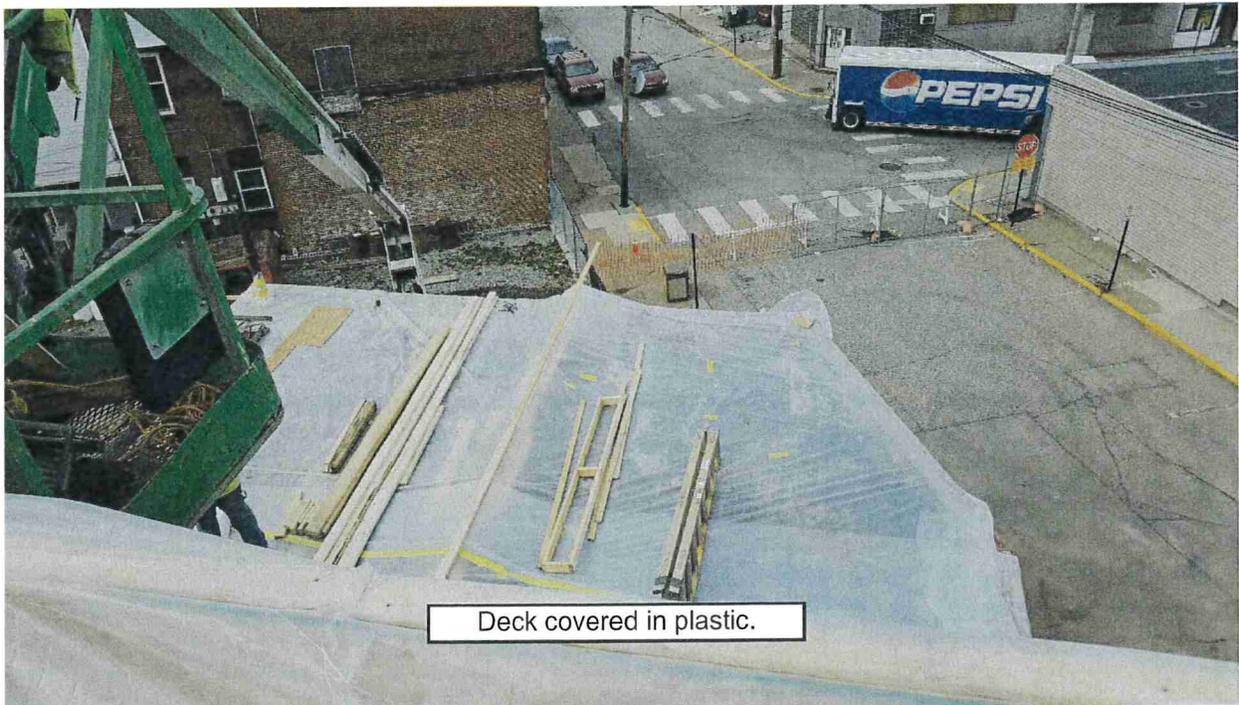
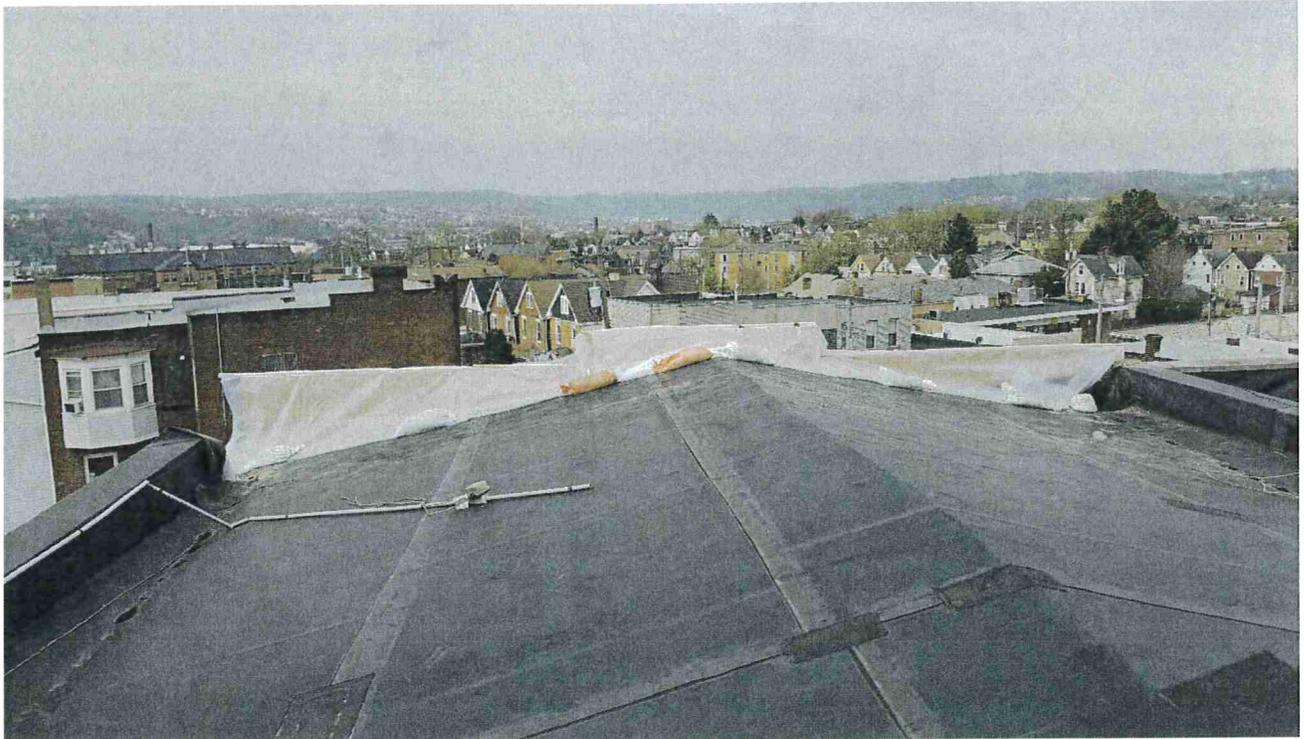


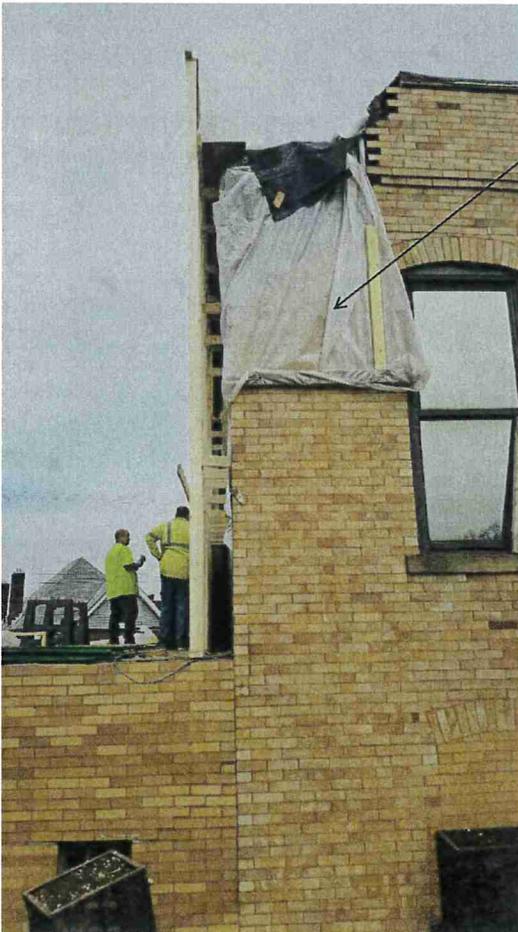
Sheathing being installed.



Roof decking placed between existing roof and parapet wall,

Placing plastic over sheathing.





Area of missing brick.

Date:	Friday April 24, 2020				
Arrived:	8:00				
Departed:	2:30				
Weather	Low	30°	High	51°	Cloudy, rain showers
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 2 Dumpsters
- Pick-up Truck
- Compressor
- Hand Tools

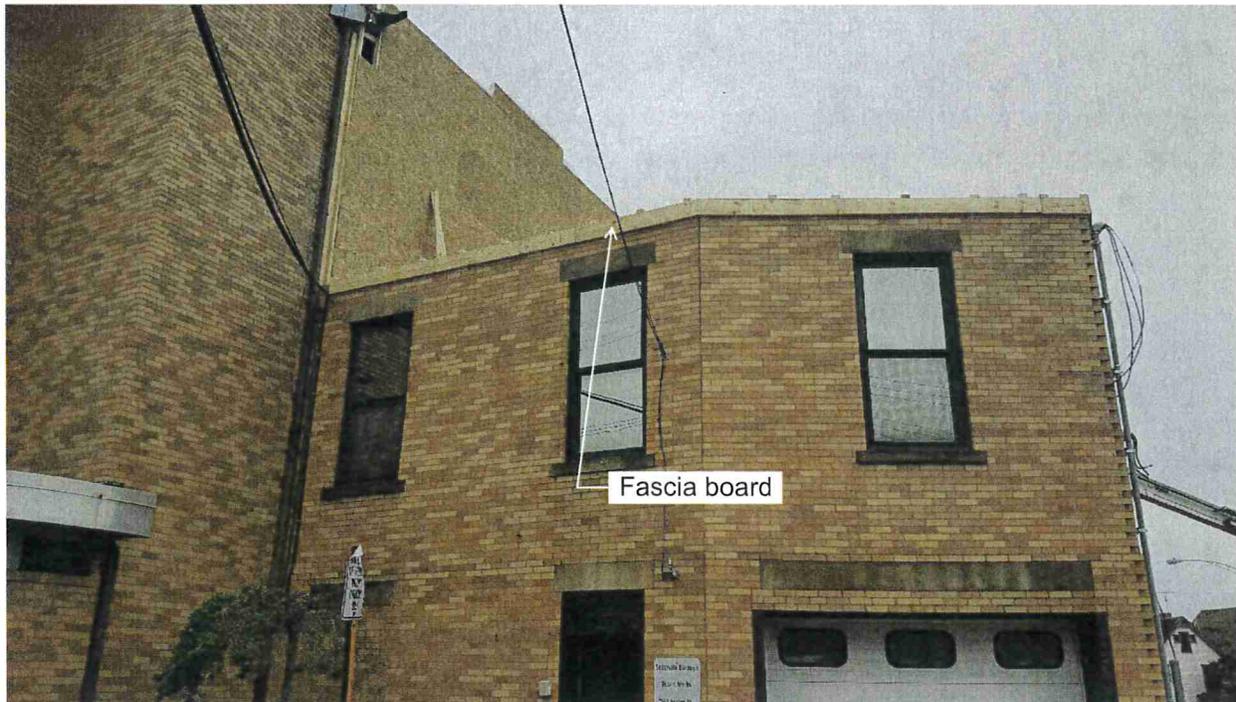
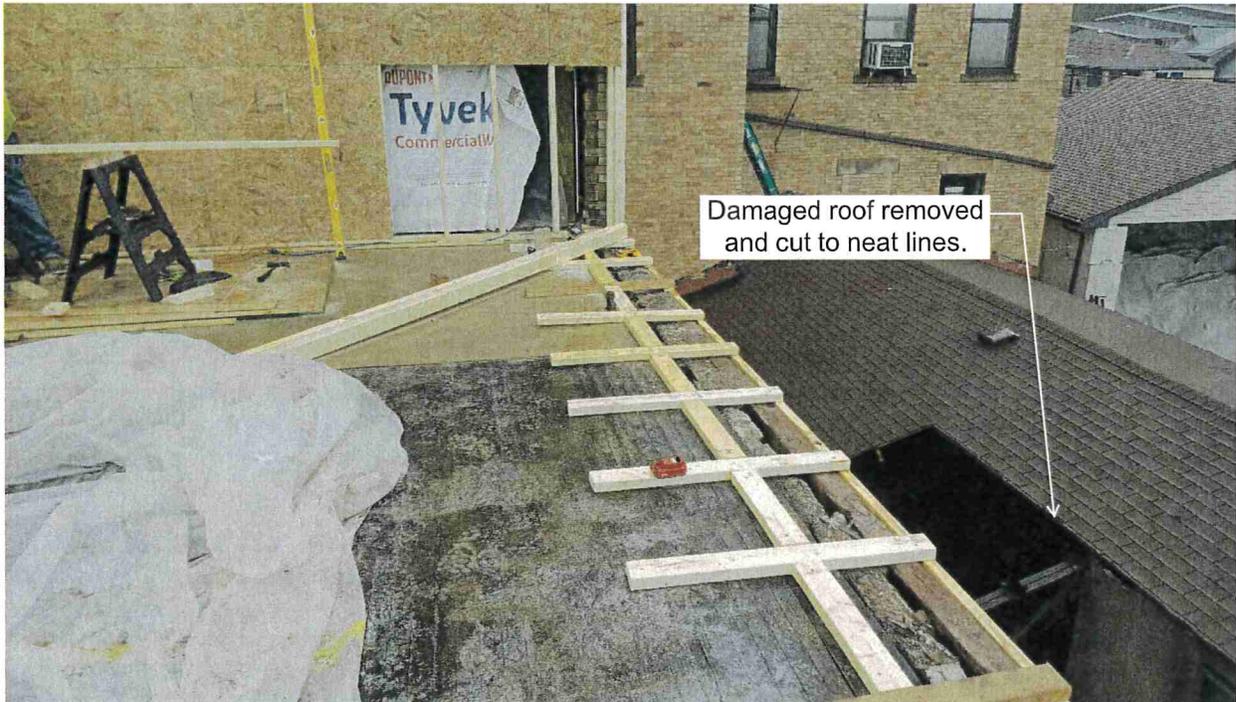
Work Performed

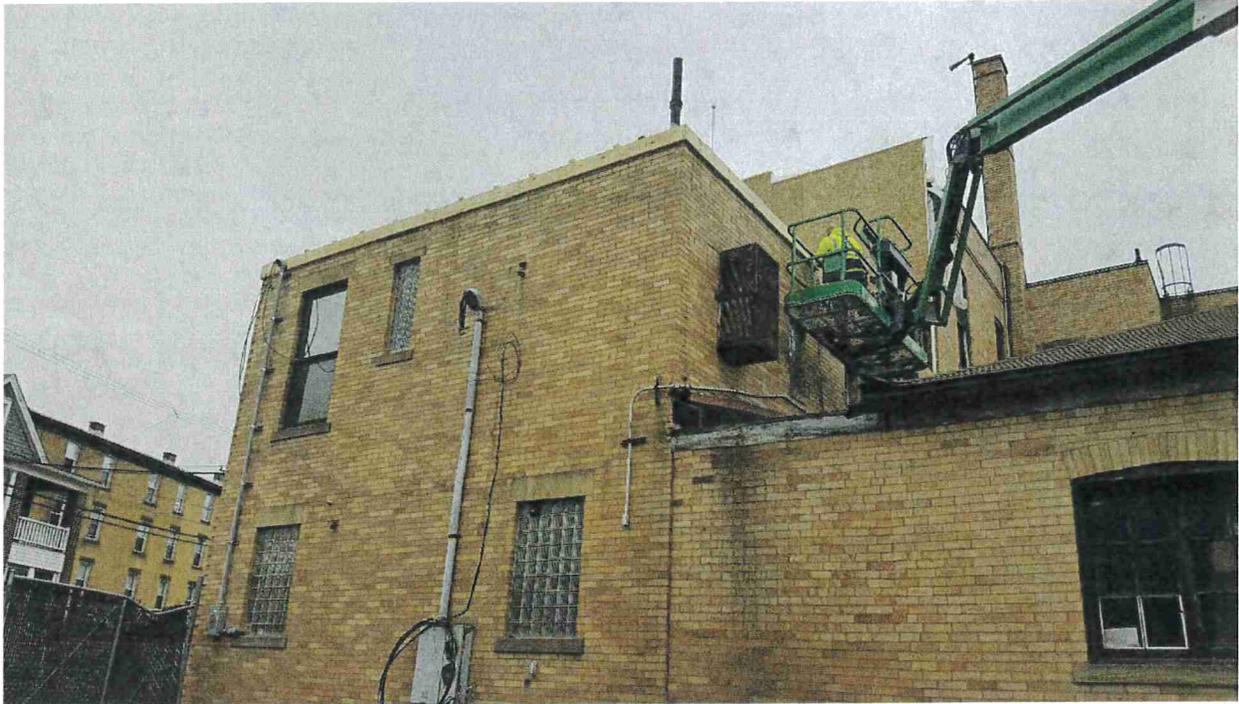
- The fascia board and struts were installed. The fascia board was screwed into the brick and held just above the deck. Struts were installed on every other floor joist



extending 36 inches along the joints. Where the struts run perpendicular to the floor joists, the struts were extended across 2 floor joists. Spacers were set between the struts at the location of the knee walls. The knee walls will be located to bear on the floor joists and not the brick.







Date:	Monday April 27, 2020				
Arrived:	7:30				
Departed:	2:00				
Weather	Low	40°	High	60°	Partly cloudy
Contractor	Massarelli Excavating & Demolition				

Crew – 3

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

2 Dumpsters

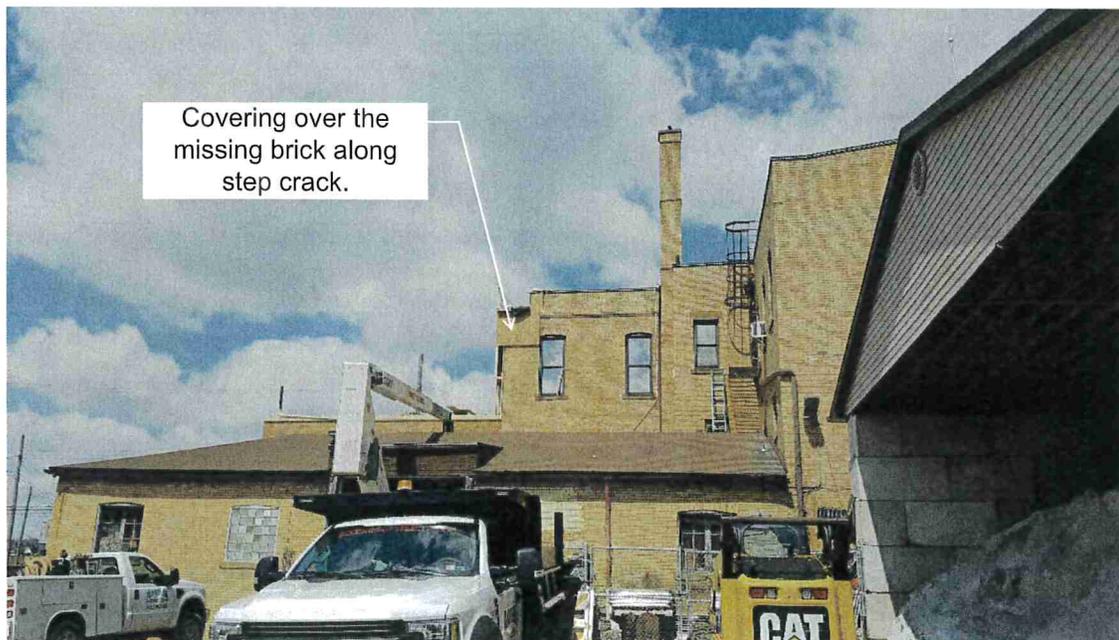
Pick-up Truck

Compressor

Hand Tools

Work Performed

- Duquesne Light on site to re-store commercial power.
- Installed framing and OSB on left to cover exposed area including the missing bricks along the step crack.
- Began removal of window cages.



Date:	Tuesday April 28, 2020				
Arrived:	7:30				
Departed:	3:00				
Weather	Low	40°	High	51°	Cloudy with showers
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

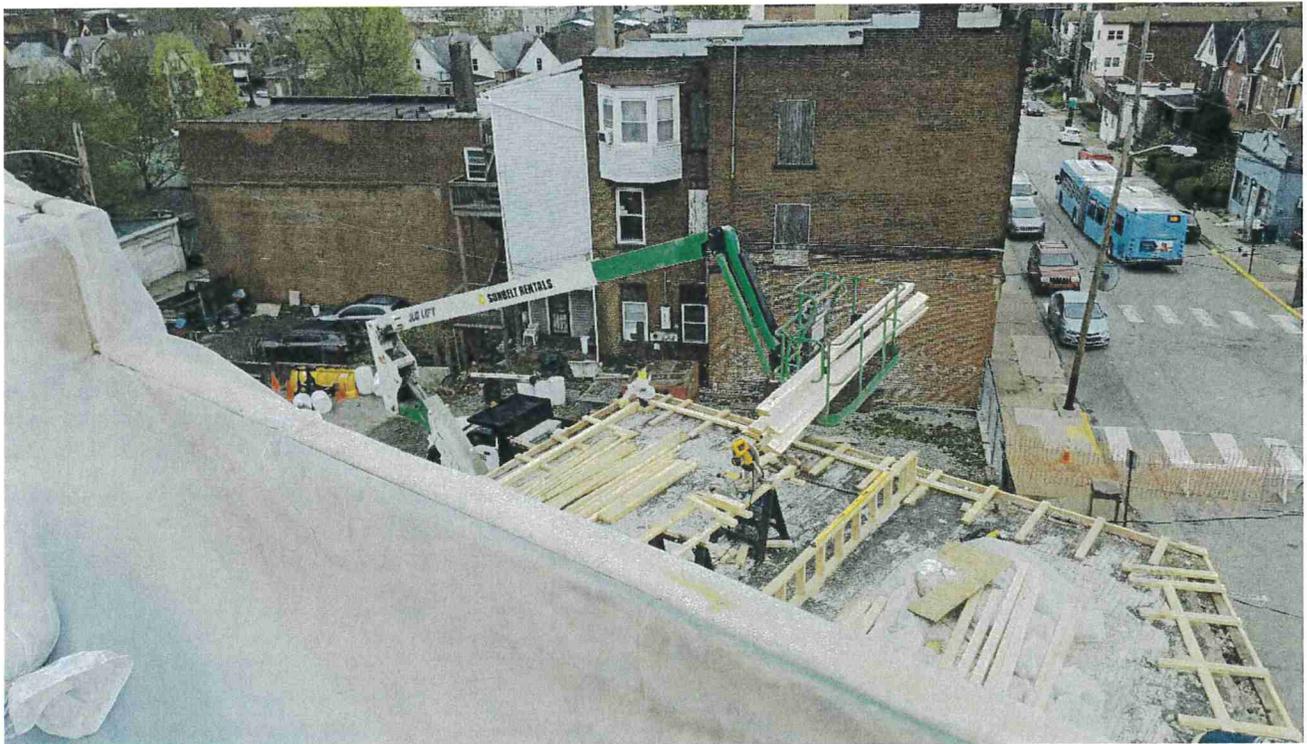
Pick-up Truck

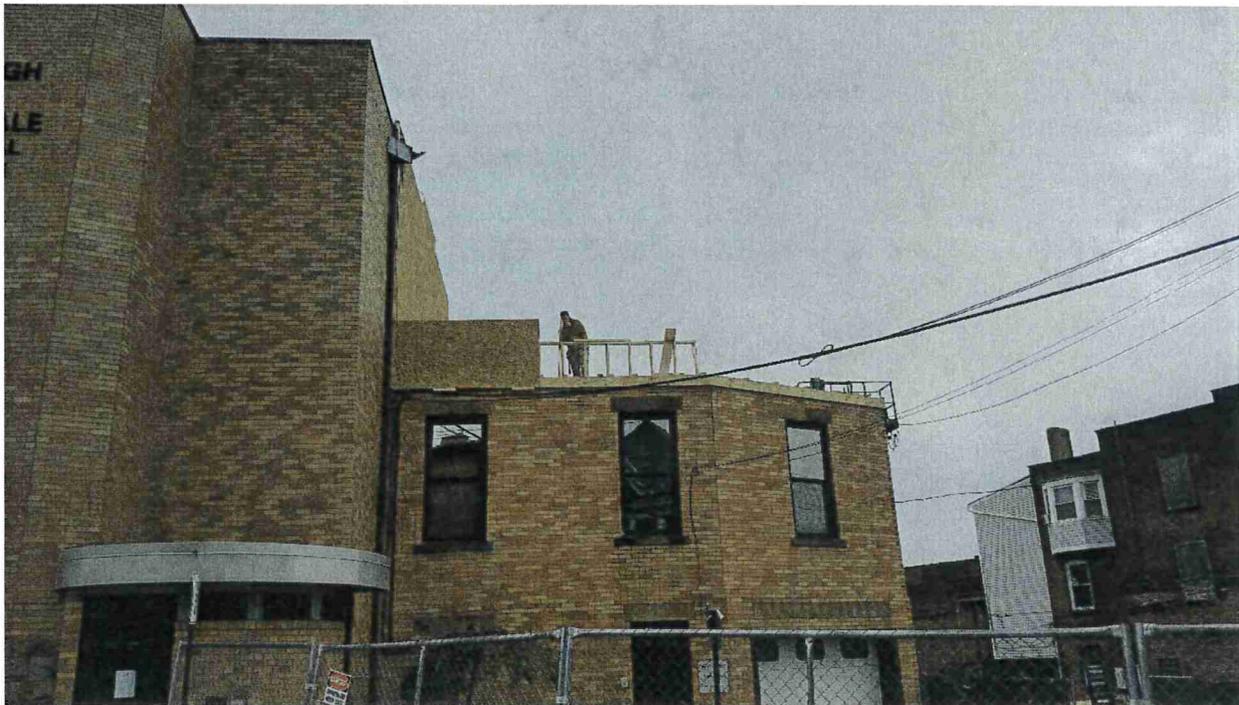
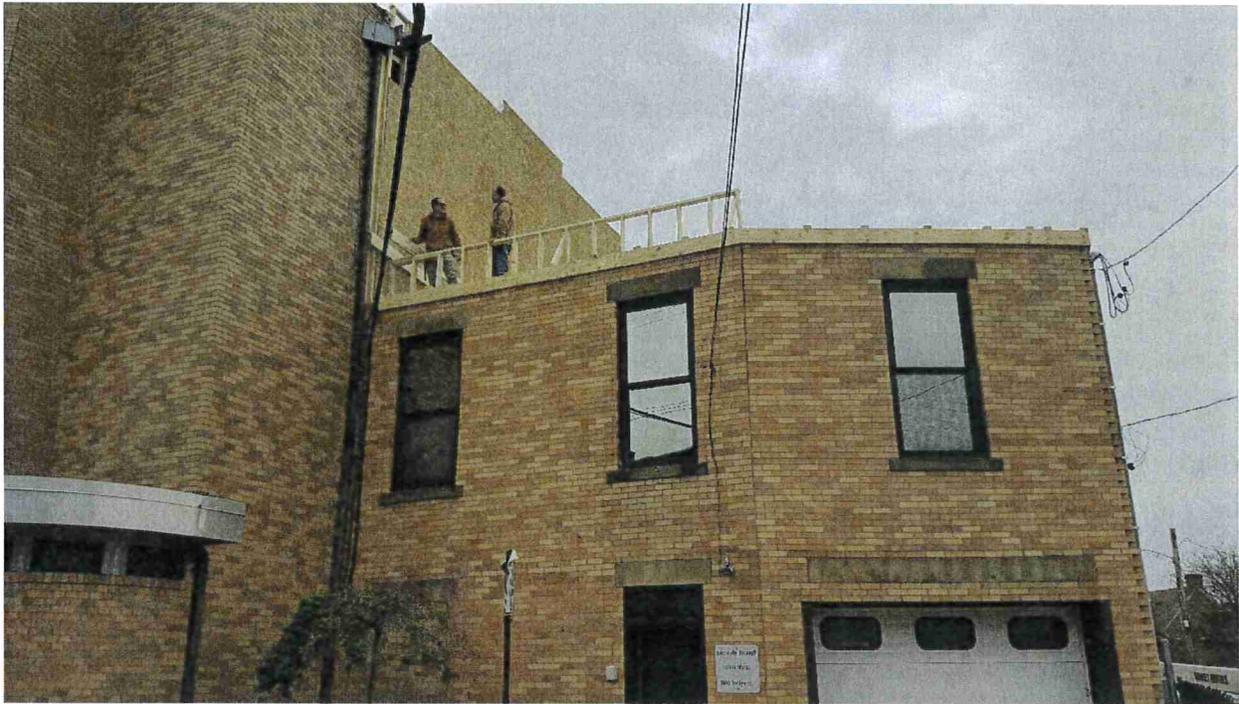
Compressor

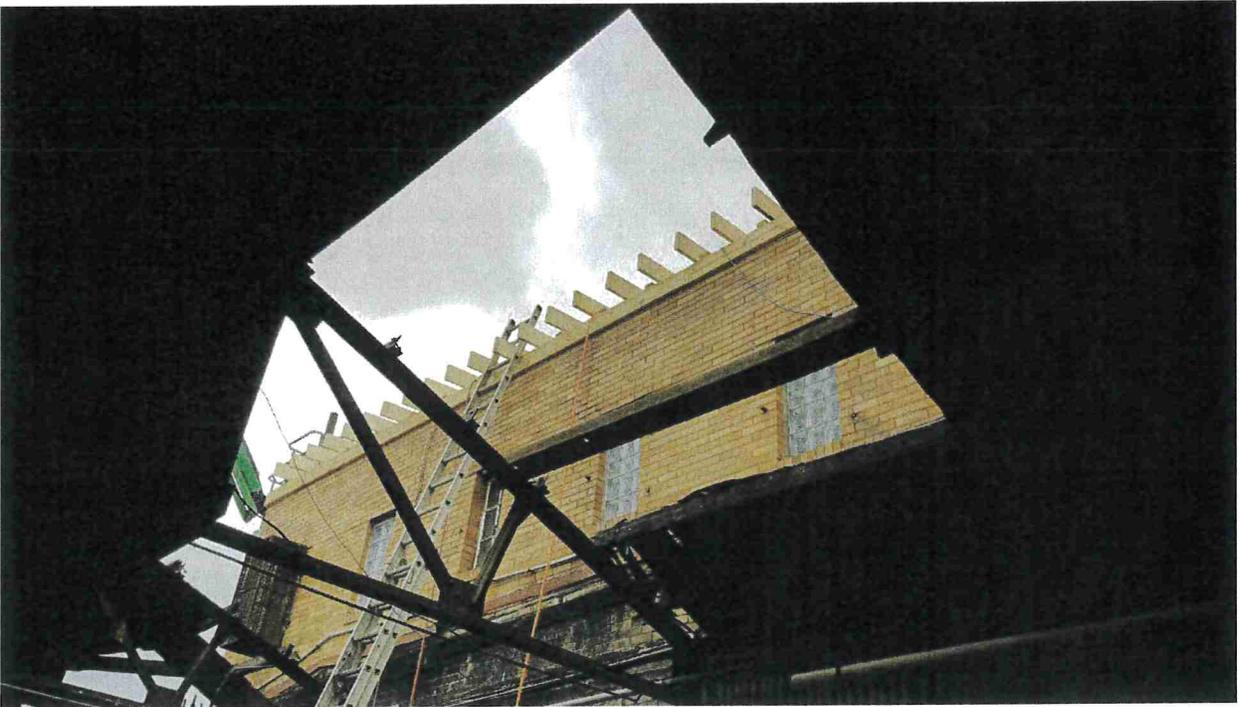
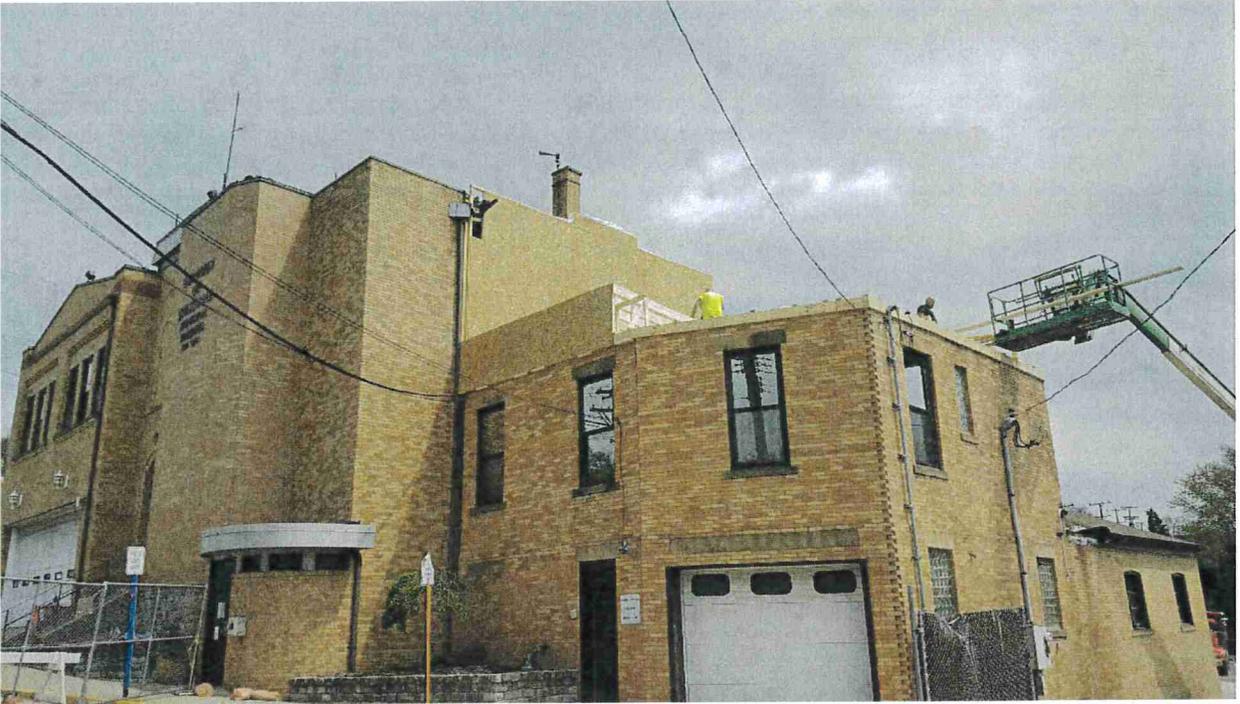
Hand Tools

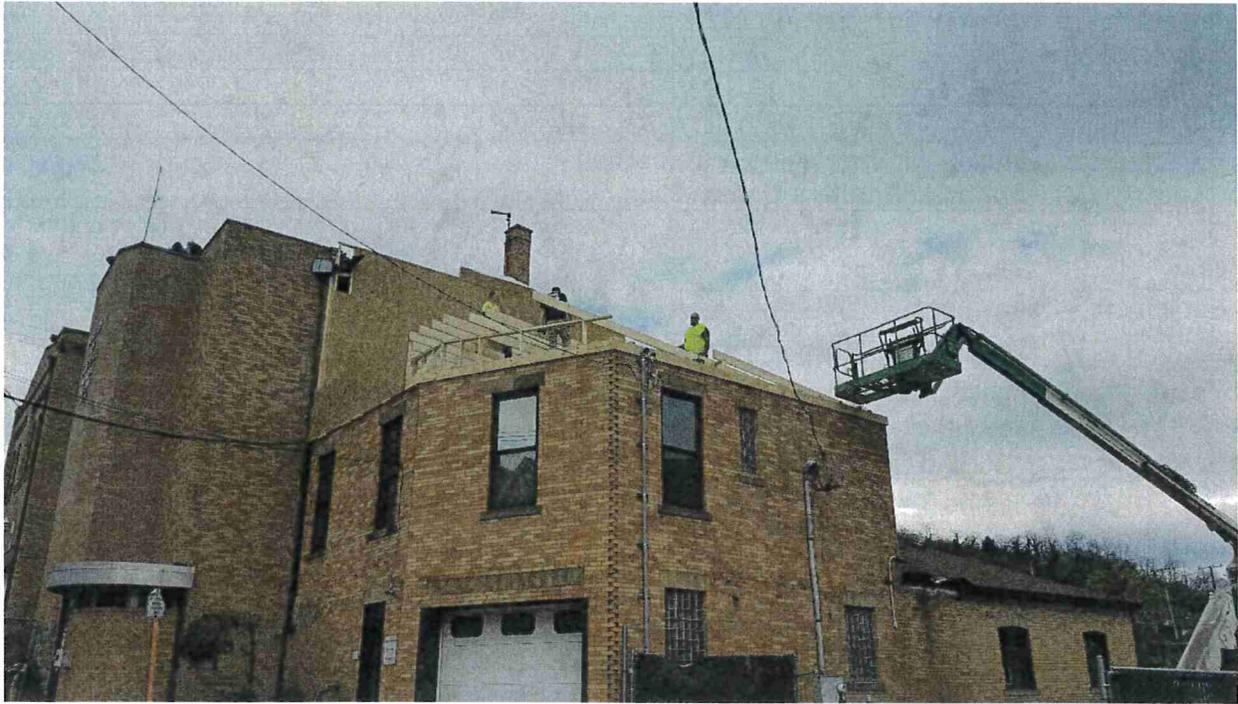
Work Performed

- Roof framing complete up to angled portion.









Date:	Wednesday April 29, 2020				
Arrived:	7:15				
Departed:	2:45				
Weather	Low	51°	High	72°	Cloudy
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

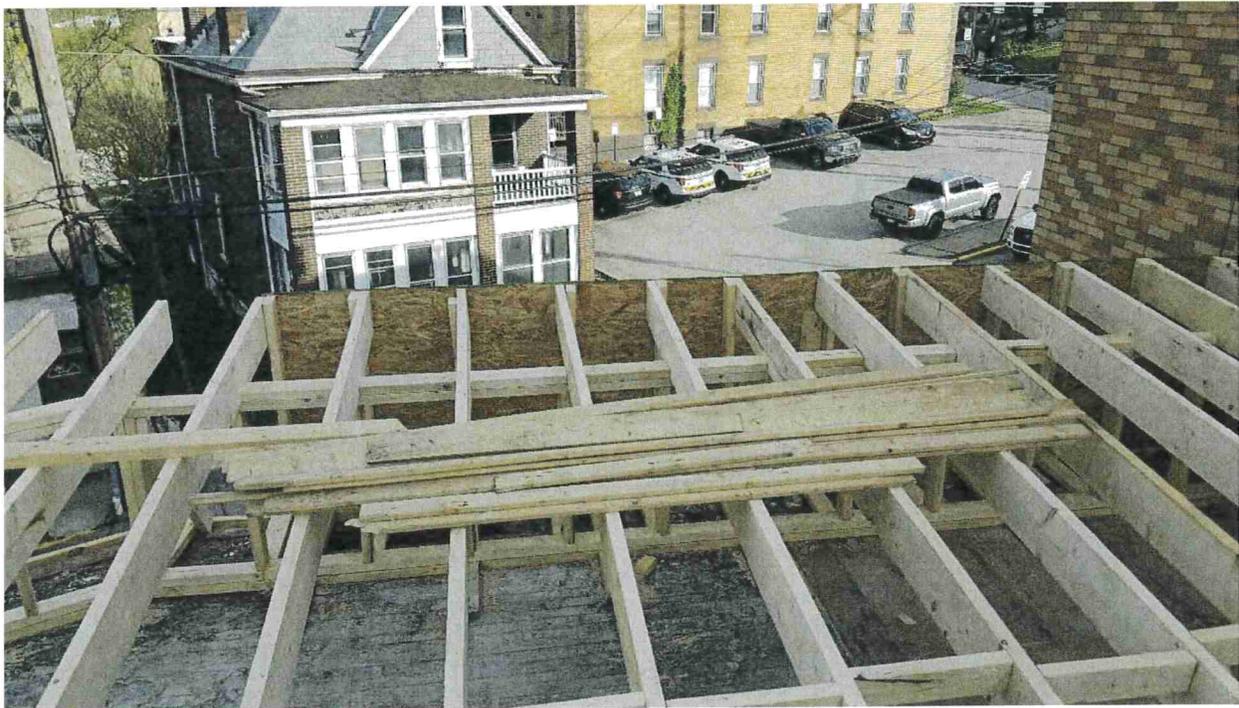
Pick-up Truck

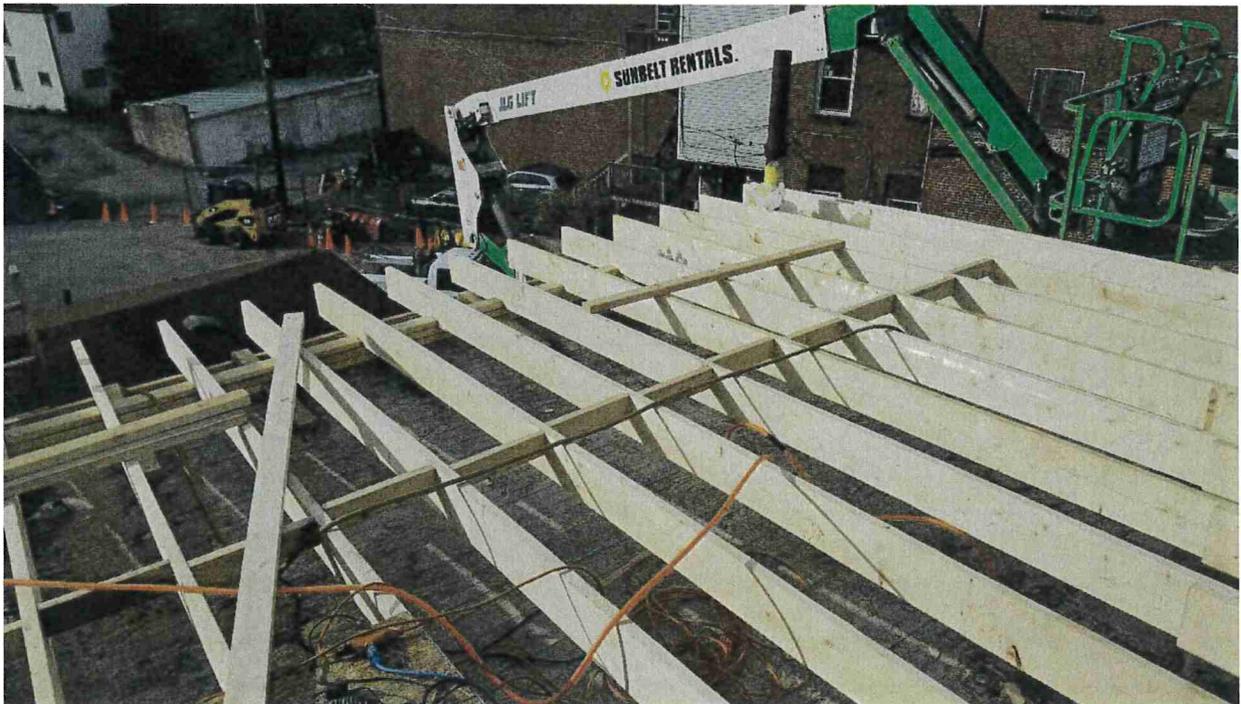
Compressor

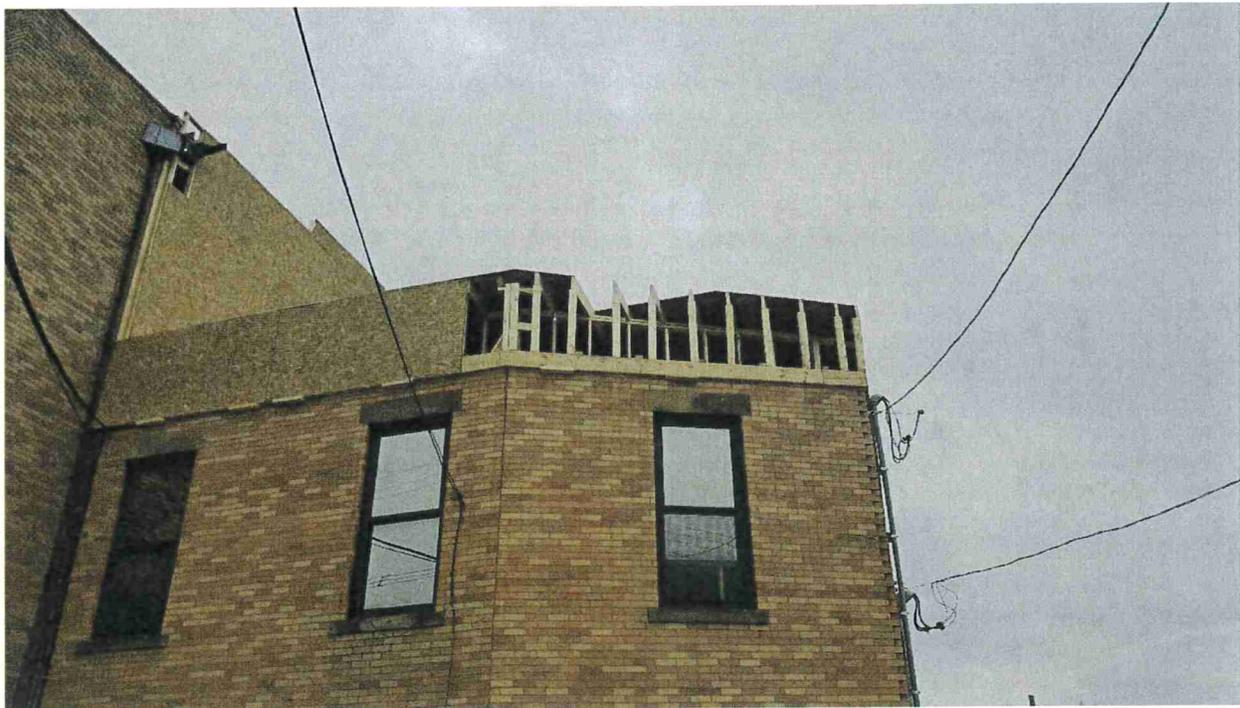
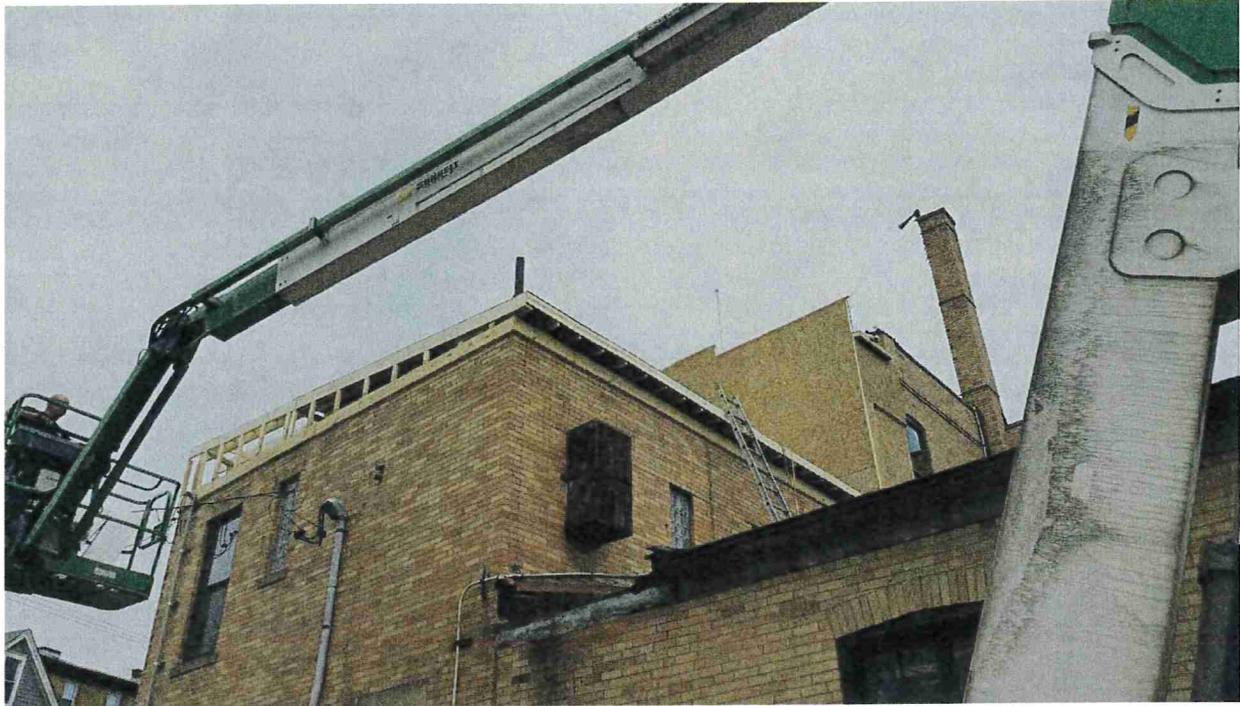
Hand Tools

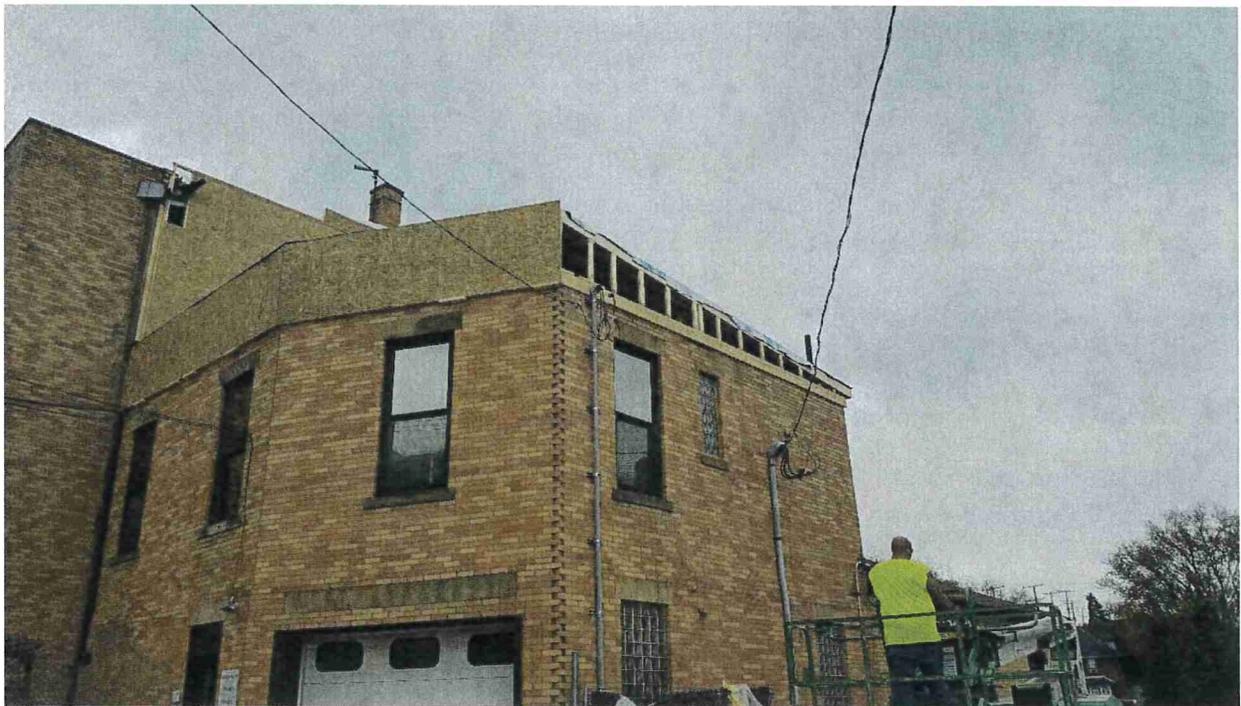
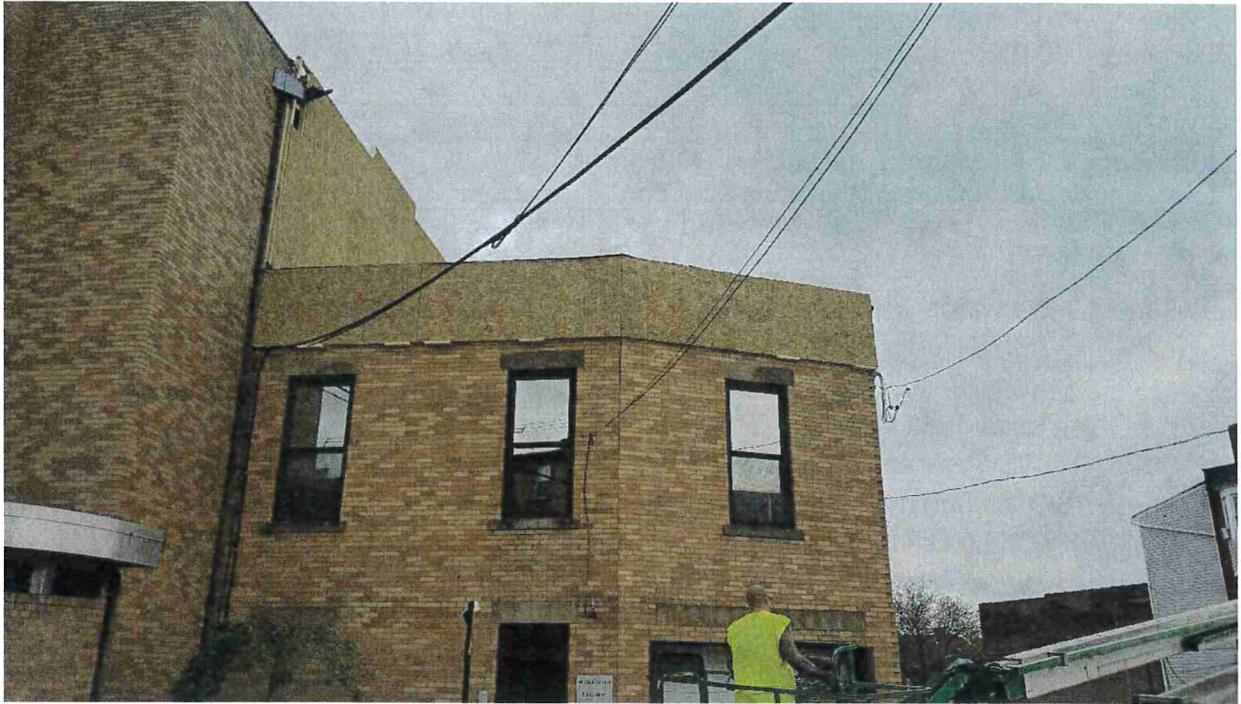
Work Performed

- Roof framing sheathing and installation of weather barrier complete.
- Right side fascia complete.









Date:	Thursday April 30, 2020				
Arrived:	7:30				
Departed:	3:00				
Weather	Low	51°	High	61°	Rain showers
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

Compressor

Hand Tools

Work Performed

- Complete sheathing installation.
- Borowski brothers on site to measure for metal roof.

Date:	Friday May 1, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	45°	High	55°	Cloudy
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

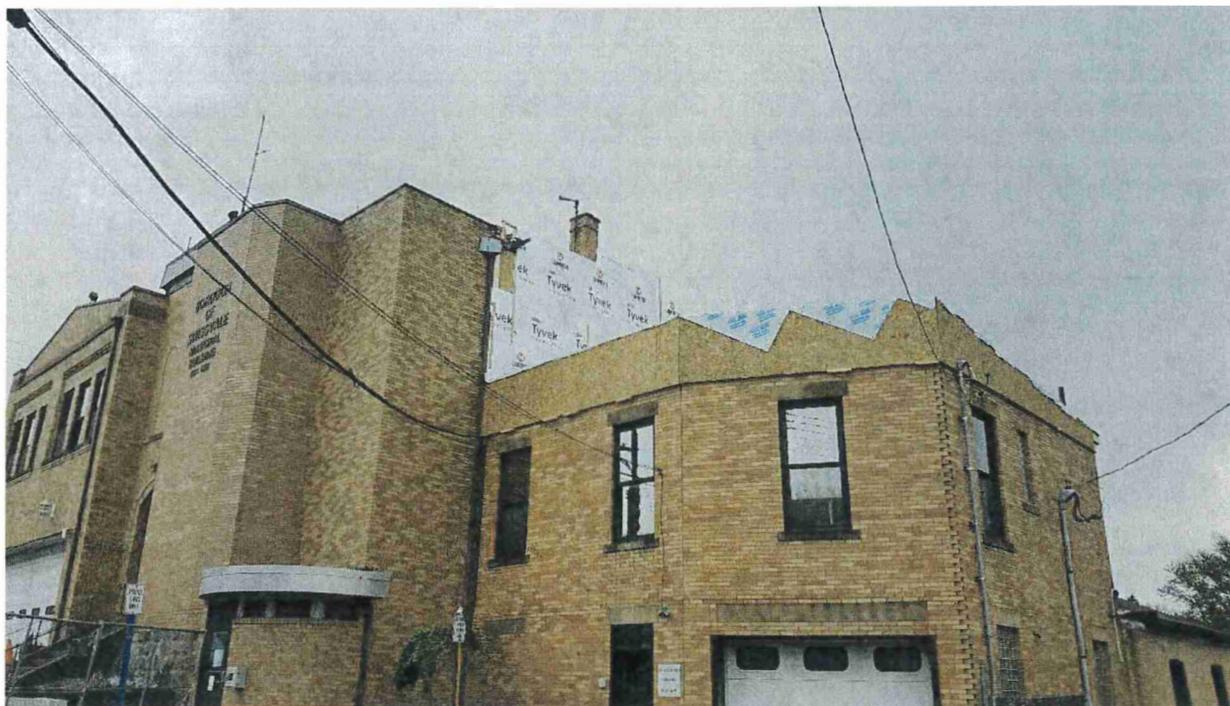
Compressor

Hand Tools

Work Performed

- Installed house wrap – not complete
- Placed rubber roofing to the area between the parapet wall and the existing roof. The roofing material was placed up and over the parapet wall.
- New purlins were installed on the garage roof – not complete.





Date:	Monday May 4, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	45°	High	55°	Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

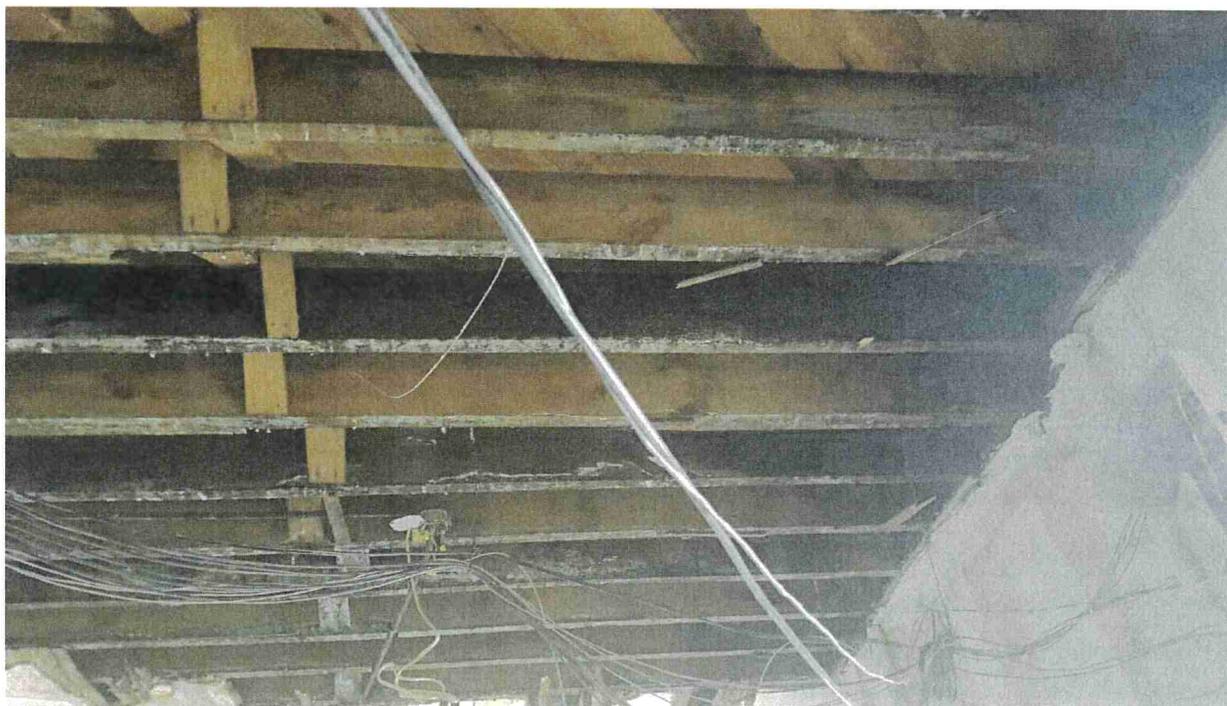
Pick-up Truck

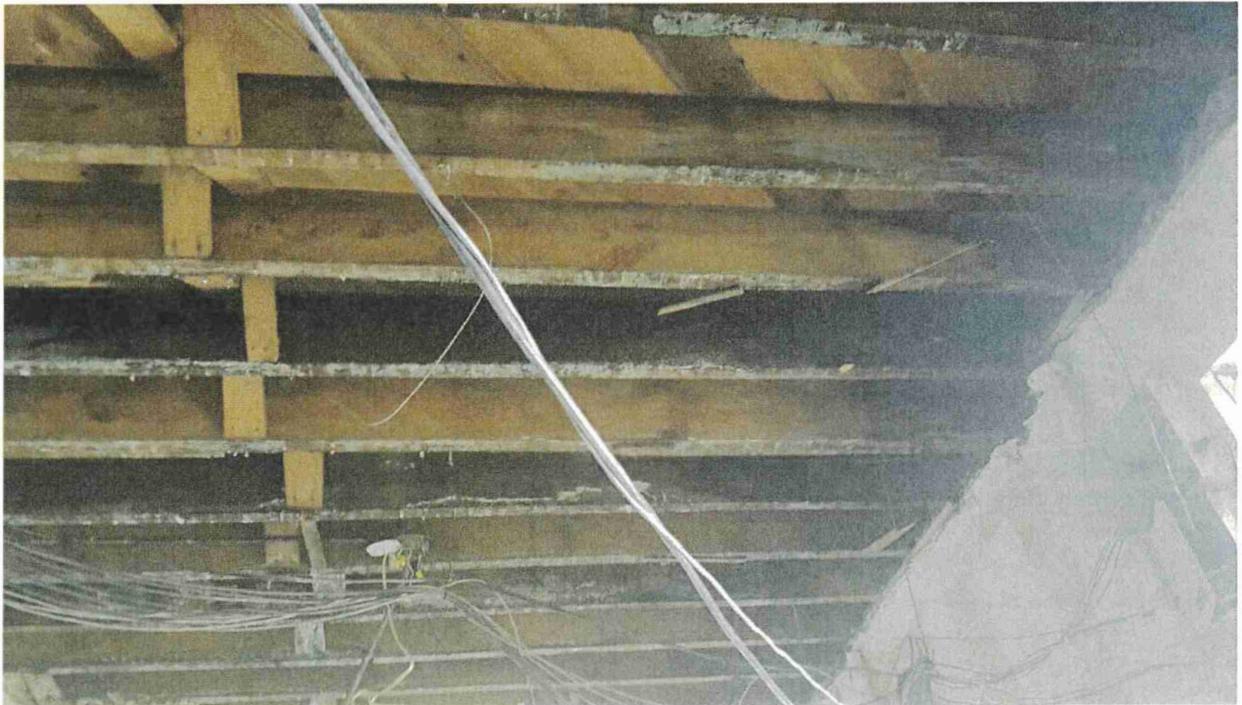
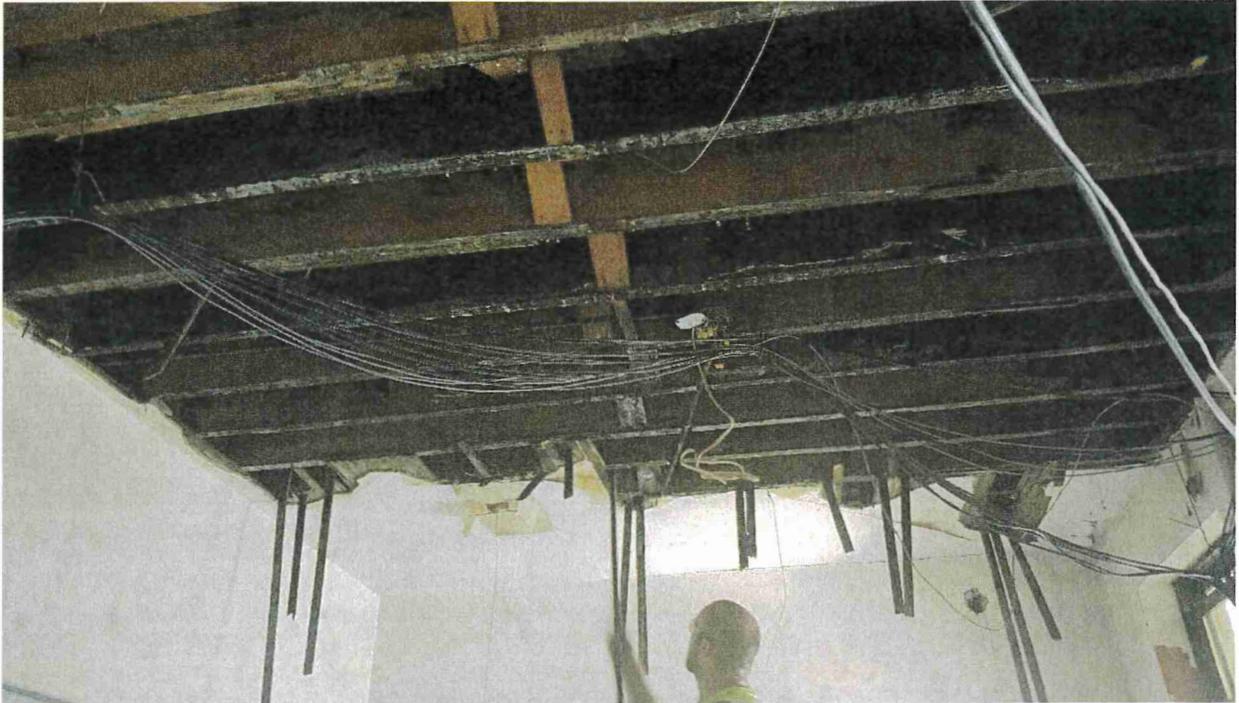
Compressor

Hand Tools

Work Performed

- Removed the drop ceiling, plaster and lathe from the Chief of Police office
- Removed loose plaster from the ceiling above the jail cells and removed debris from the top of the jail cells.





Date:	Tuesday May 5, 2020				
Arrived:	7:15				
Departed:	2:00				
Weather	Low	40°	High	52°	Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

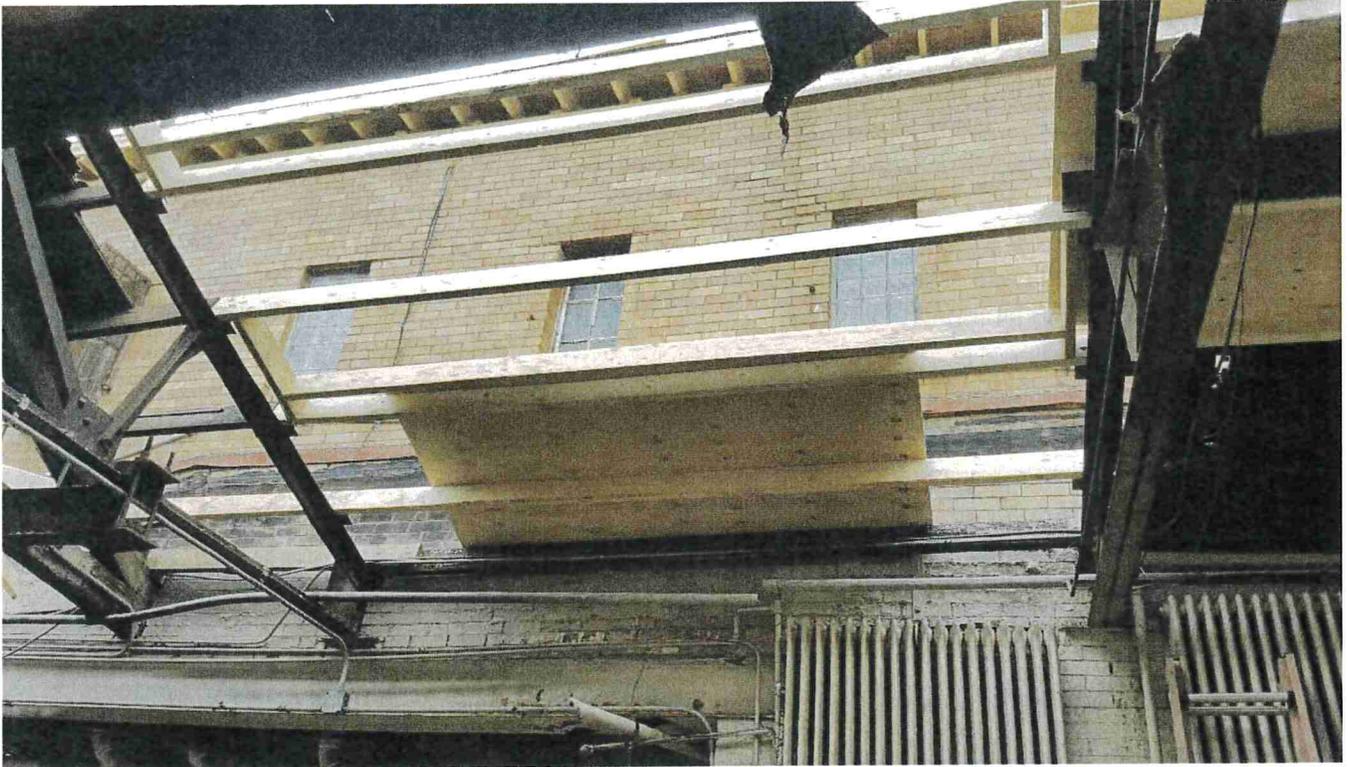
Compressor

Hand Tools

Work Performed

- Began framing on the garage roof.





Date:	Wednesday May 6, 2020				
Arrived:	NA				
Departed:	NA				
Weather	Low	NA	NA	NA	NA
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

Compressor

Hand Tools

Work Performed

- No work performed.

Date:	Thursday May 7, 2020				
Arrived:	NA				
Departed:	NA				
Weather	Low	NA	NA	NA	NA
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

Compressor

Hand Tools

Work Performed

- No work performed.

Date:	Friday May 8, 2020				
Arrived:	7:15				
Departed:	11:15				
Weather	Low	45°	High	52°	Rain
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

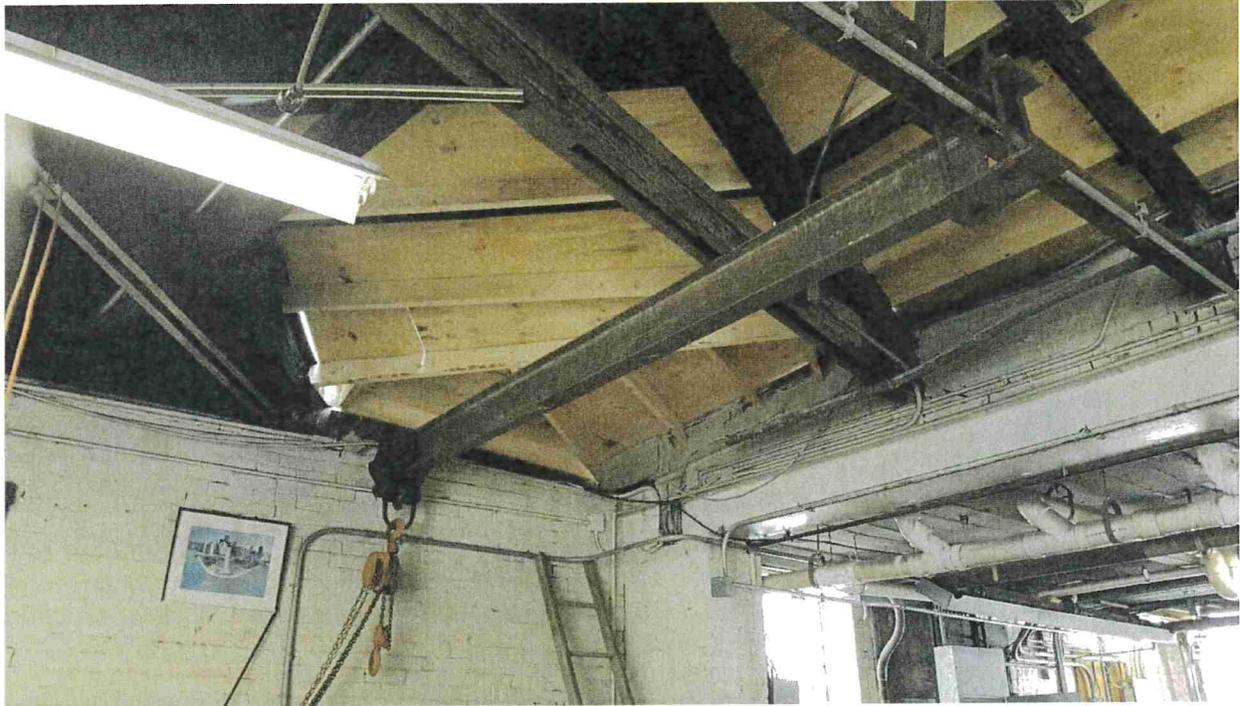
Compressor

Hand Tools

Work Performed

- Completed framing on the garage roof. Installed sheathing and covered with tar paper.
- Placed insulation in partition wall in council chambers.





Date:	Monday May 11, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	45°	High	52°	Rain
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

Pick-up Truck

Compressor

Hand Tools

Work Performed

- Completed insulation in chamber partition wall.
- Repaired waste vent in garage.
- Repaired compressed air line in garage.

Date:	Tuesday May 12, 2020				
Arrived:	7:15				
Departed:	9:15				
Weather	Low	38°	High	60°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

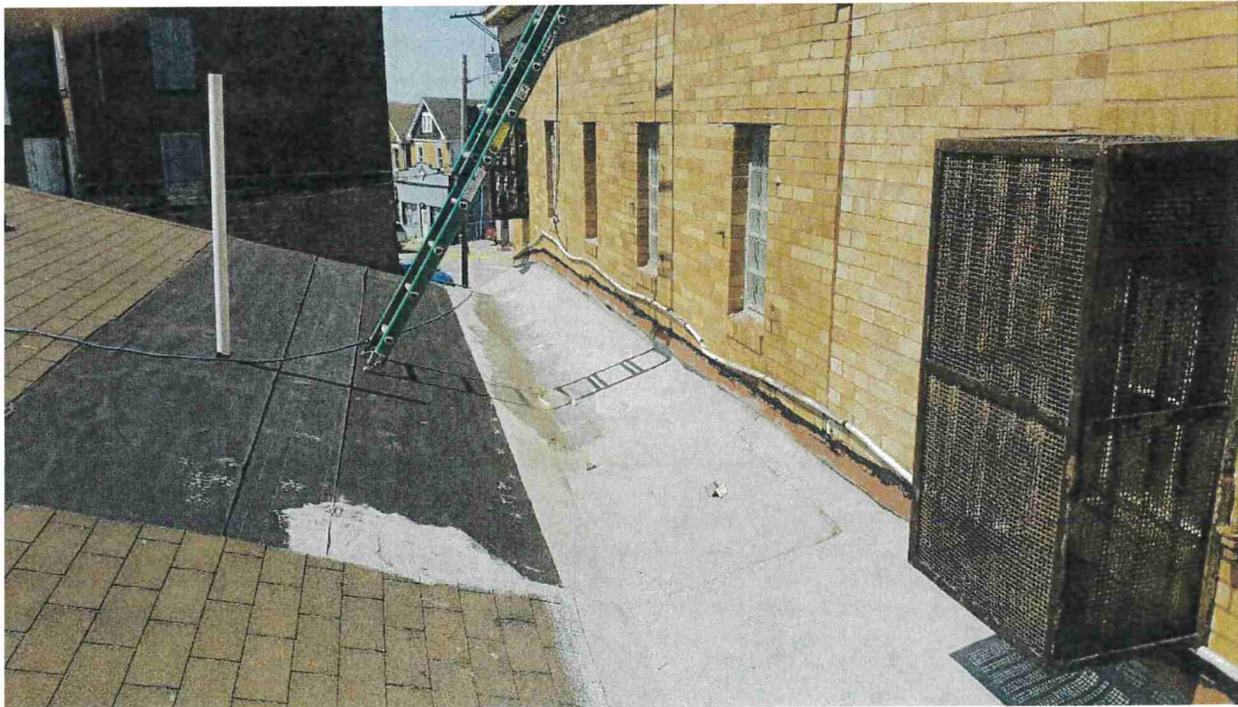
Pick-up Truck

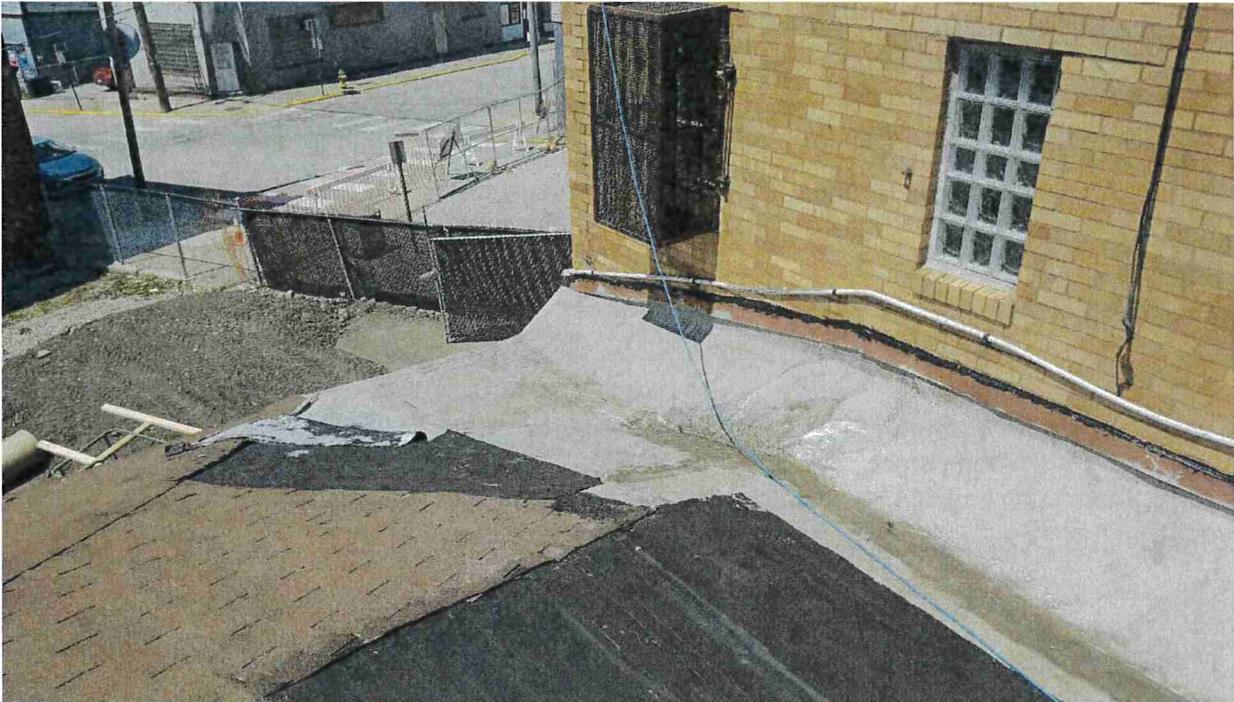
Compressor

Hand Tools

Work Performed

- Contractor applied flashing to the valley between the garage roof and the building. Valley was sealed with layers of ice shield, tar and flashing.





Date:	Wednesday May 13, 2020				
Arrived:	7:15				
Departed:	3:30				
Weather	Low	38°	High	60°	Clear
Contractor	Massarelli Excavating & Demolition Borowski Brothers Contracting				

Crew - 4

Equipment – excavator

F450 Dump Truck

Manlift

Skid Steer Loader

1 Dumpsters

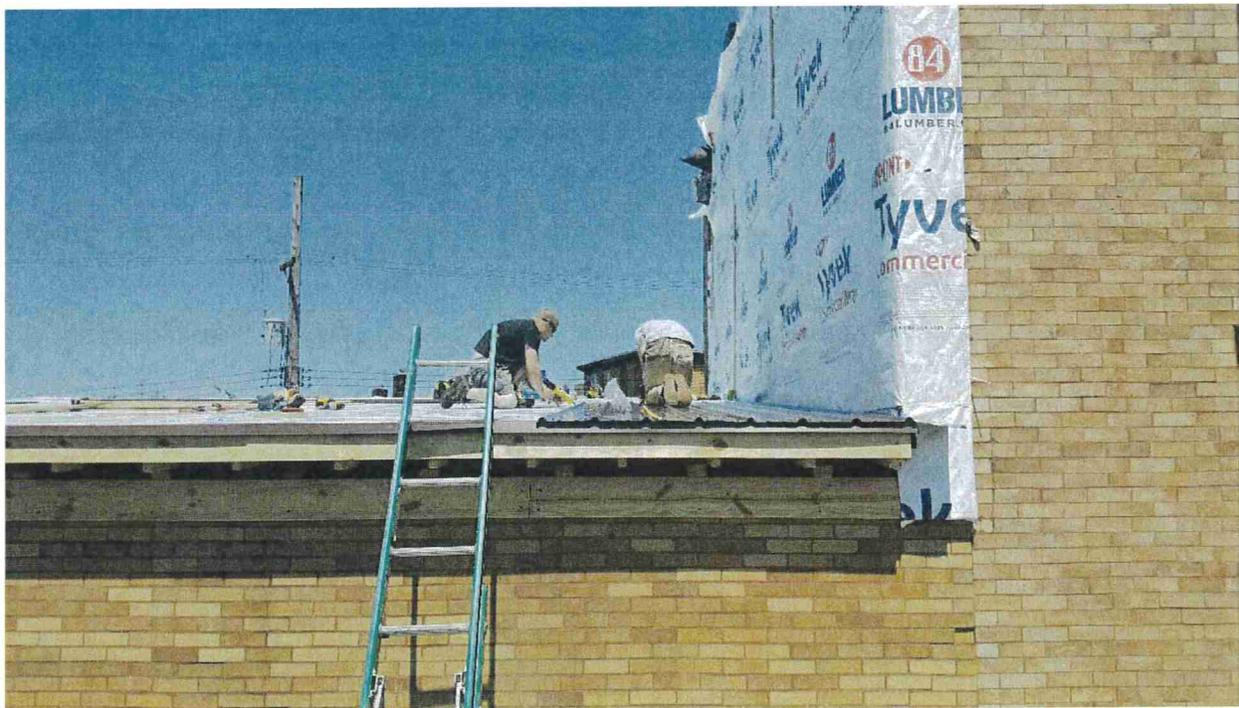
Pick-up Truck

Compressor

Hand Tools

Work Performed

- Began installation of the metal roof. Approximately 75% complete.



Date:	Thursday May 14, 2020				
Arrived:	7:30				
Departed:	3:30				
Weather	Low	38°	High	60°	Clear
Contractor	Massarelli Excavating & Demolition Borowski Brothers Contracting				

Crew - 2

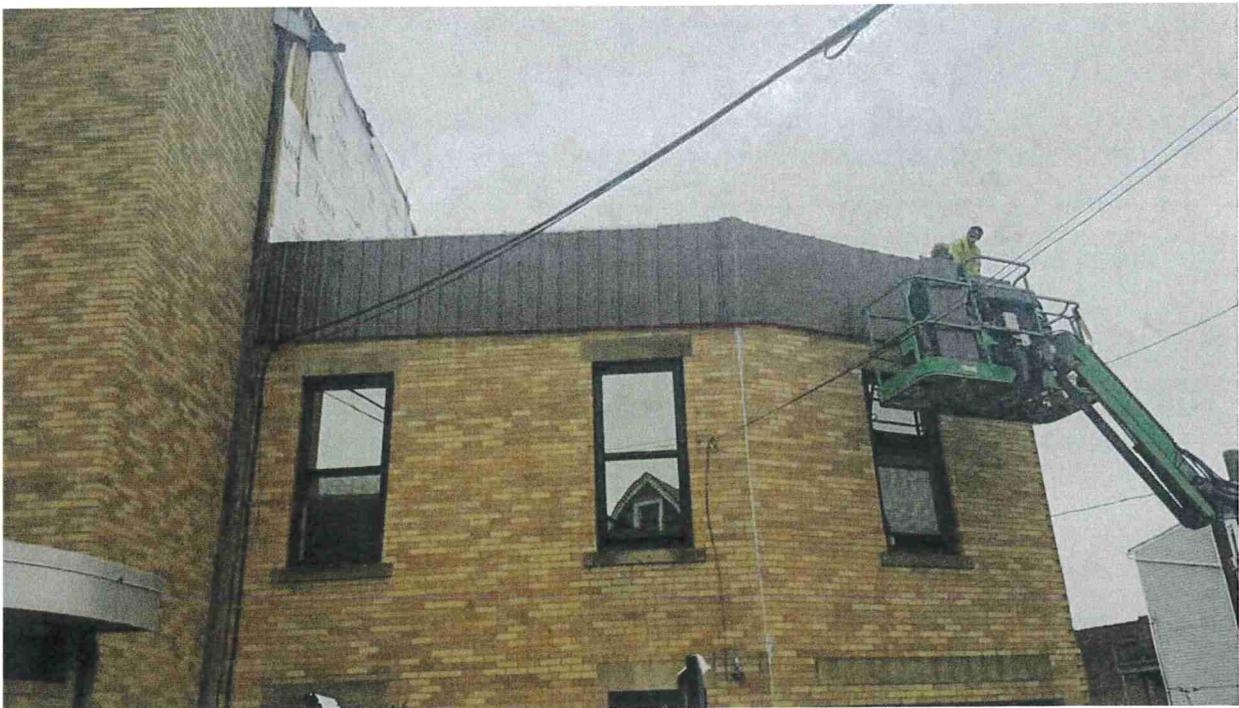
Equipment -

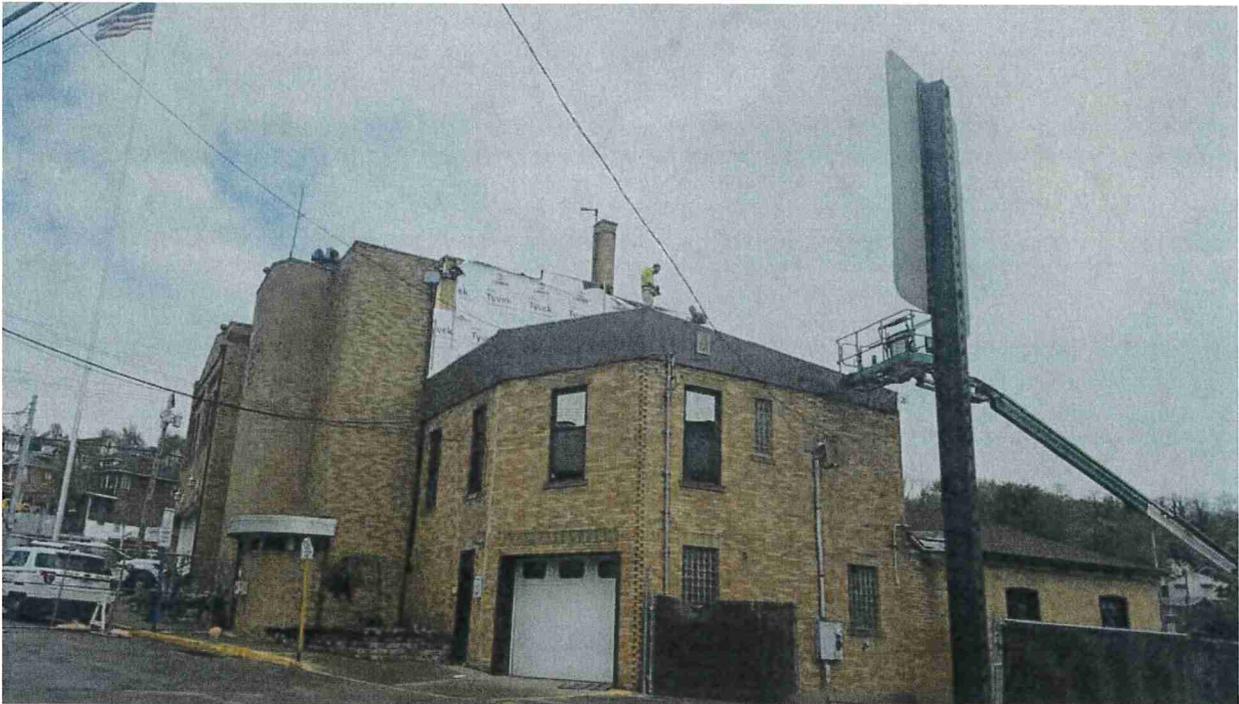
- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 1 Dumpsters
- Compressor
- Hand Tools

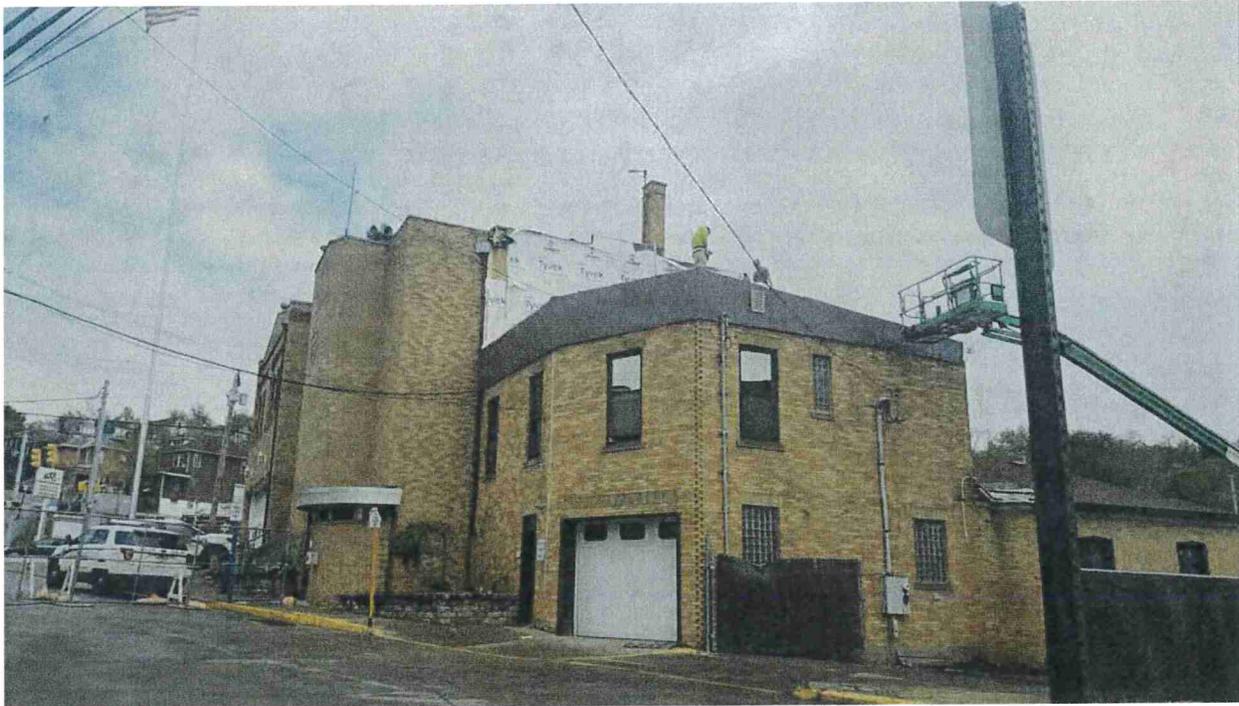
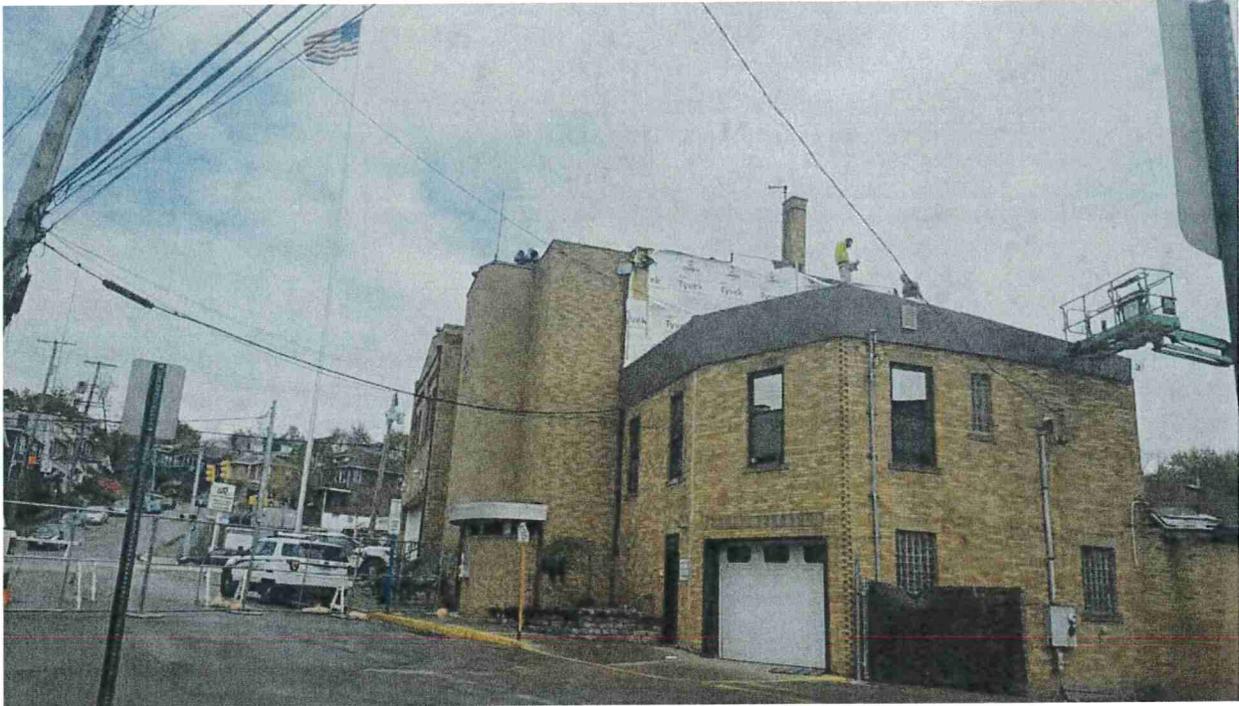
Work Performed

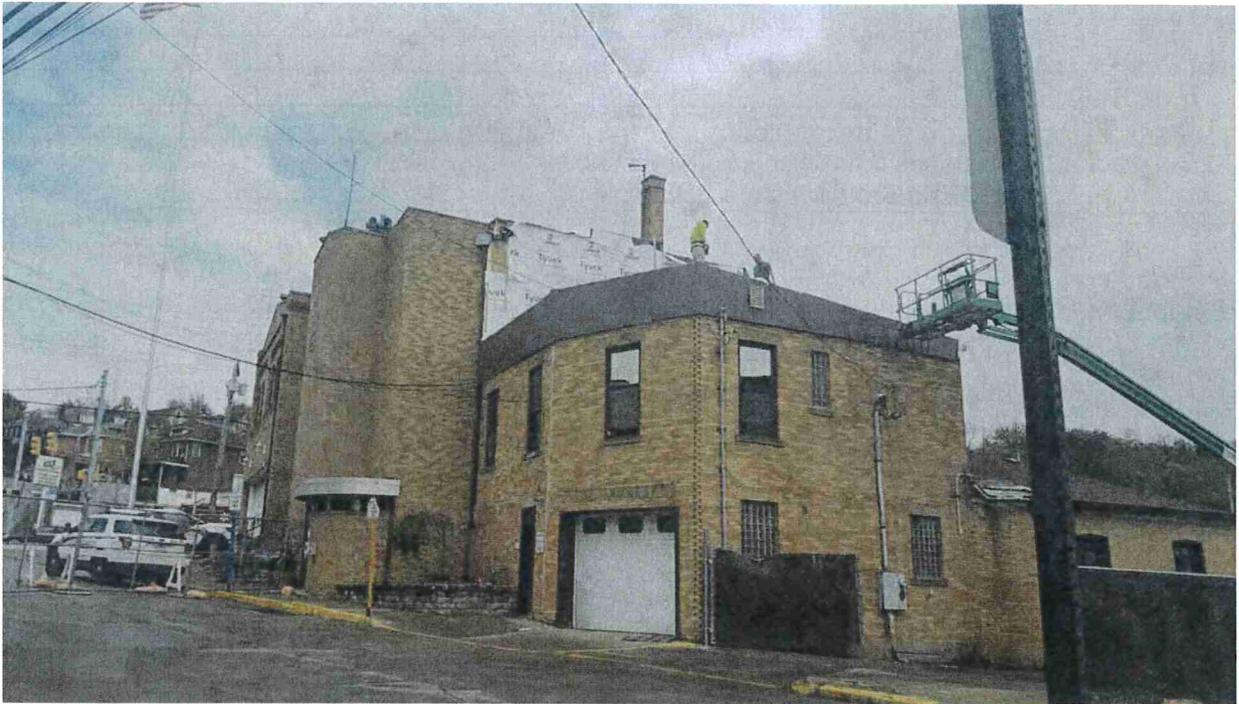
- Applied roofing panels to the fascia.











Date:	Monday May 18, 2020				
Arrived:	7:15				
Departed:	2:00				
Weather	Low	61°	High	79°	Pt Cloudy
Contractor	Massarelli Excavating & Demolition Borowski Brothers Contracting				

Crew - 1

Equipment -

F450 Dump Truck
Manlift
Skid Steer Loader
1 Dumpsters
Compressor
Hand Tools

Work Performed

- Measured for soffit and gutters.
- Purchased soffit and gutters.
- Installed soffit.

Date:	Tuesday May 19, 2020				
Arrived:	7:15				
Departed:	12:00				
Weather	Low	55°	High	55°	Pt. Cloudy windy
Contractor	Massarelli Excavating & Demolition				

Crew - 1

Equipment -

F450 Dump Truck
Manlift
Skid Steer Loader
1 Dumpsters
Compressor
Hand Tools

Work Performed

- Contractor waiting on additional and replacement parts for the metal roof.
- KU Resources on site to collect samples for mold. Air samples were collected in the following areas:
 - DPW supervisor's office
 - DPW breakroom
 - Administrative office
 - Office - Chief of Police
 - Police squad room
 - Baseline sample taken outdoors.
- Surface swab samples were taken:
 - Administrative office at blistered wall paint on the outside wall
 - Under leaking jail cell toilet in the garage
 - Entrance hallway above sealed over window.

Date:	Wednesday May 20, 2020				
Arrived:	7:30				
Departed:	3:15				
Weather	Low	55°	High	65°	Pt. Cloudy windy
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

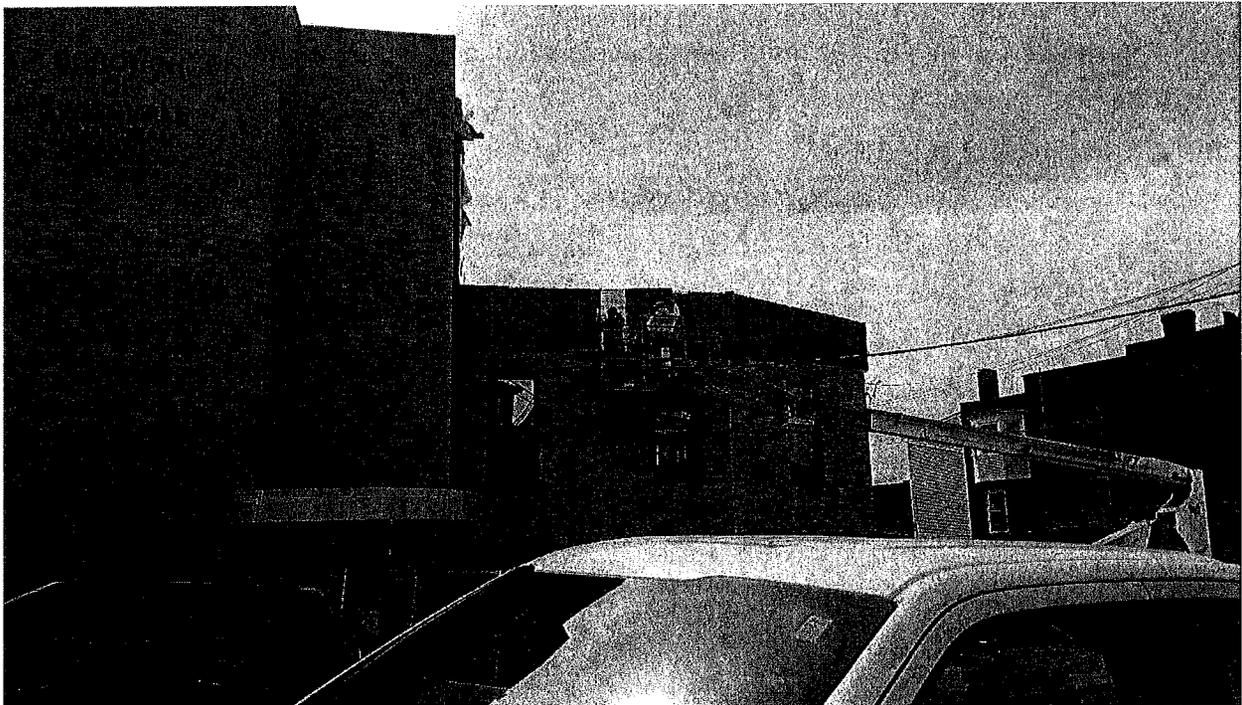
Crew - 2

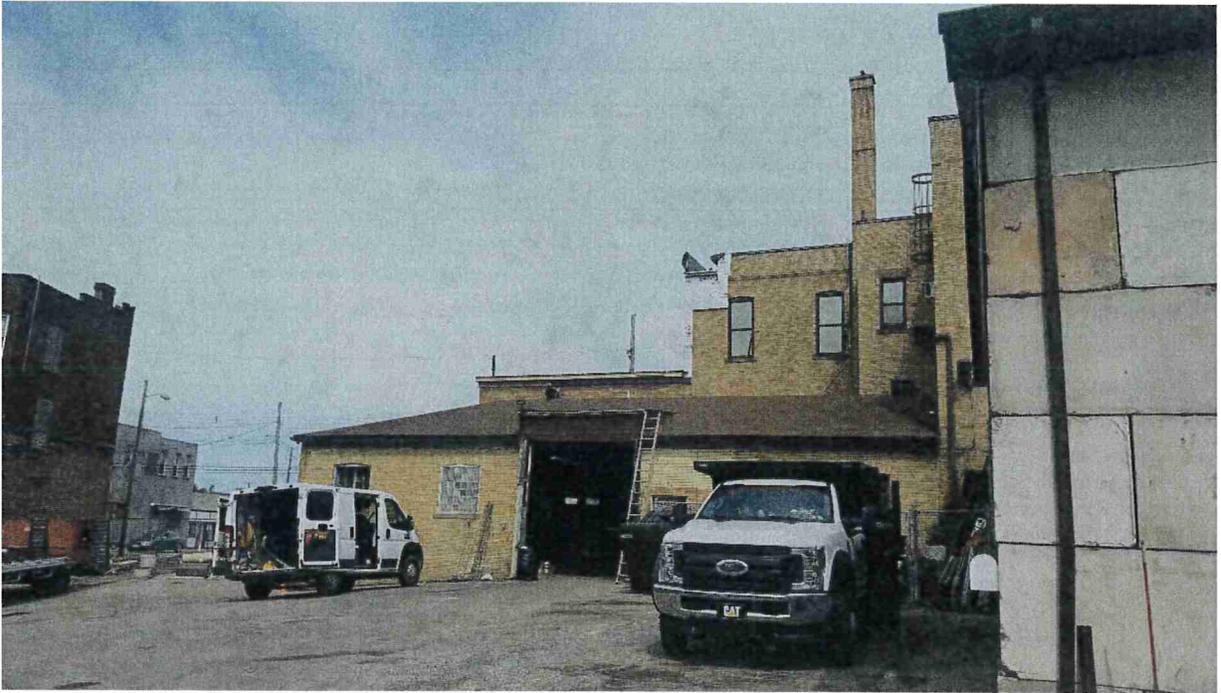
Equipment -

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 1 Dumpsters
- Compressor
- Hand Tools

Work Performed

- Contractor waiting on additional and replacement parts for the metal roof.
- Installed fascia along roof overhang.
- Reset panels along street side fascia to correct vertical alignment.
- Drip edge installed along street side fascia.
- KU Resources on site to collect samples for mold. Air samples were collected in the following areas:
 - Police locker room
 - Hallway outside of jail cells.





Date:	Thursday May 21, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	51°	High	70°	Clear
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

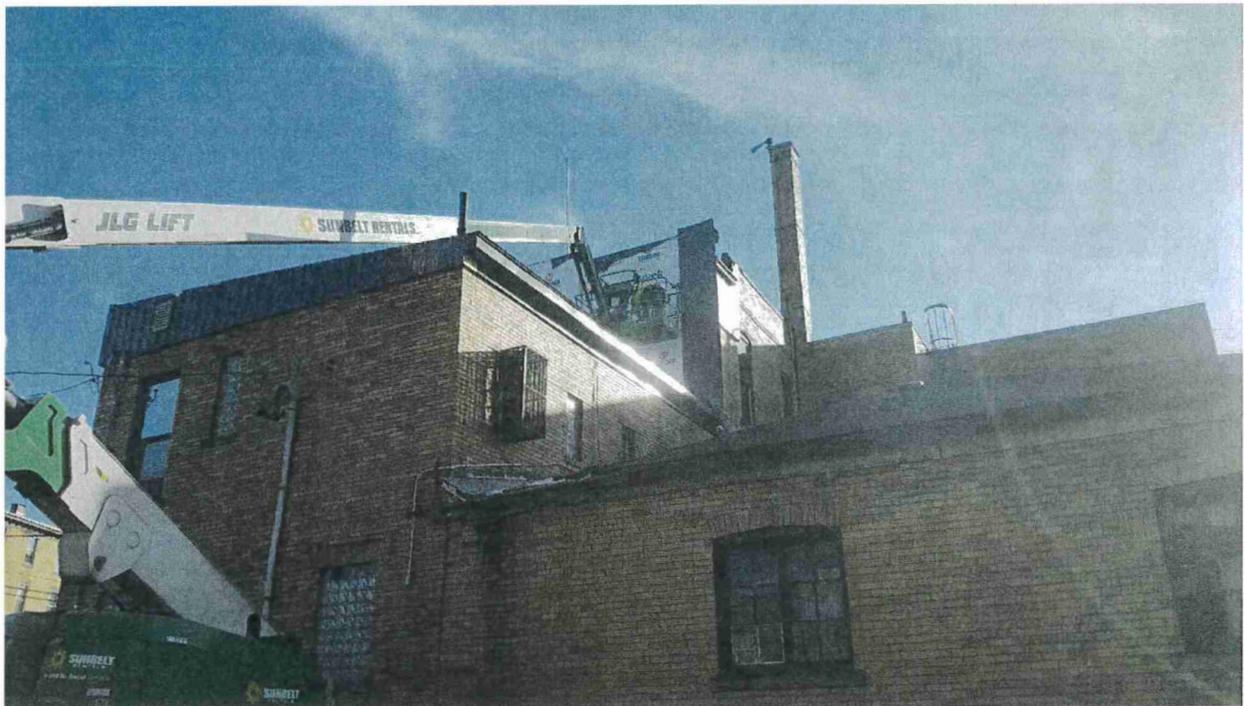
Crew - 3

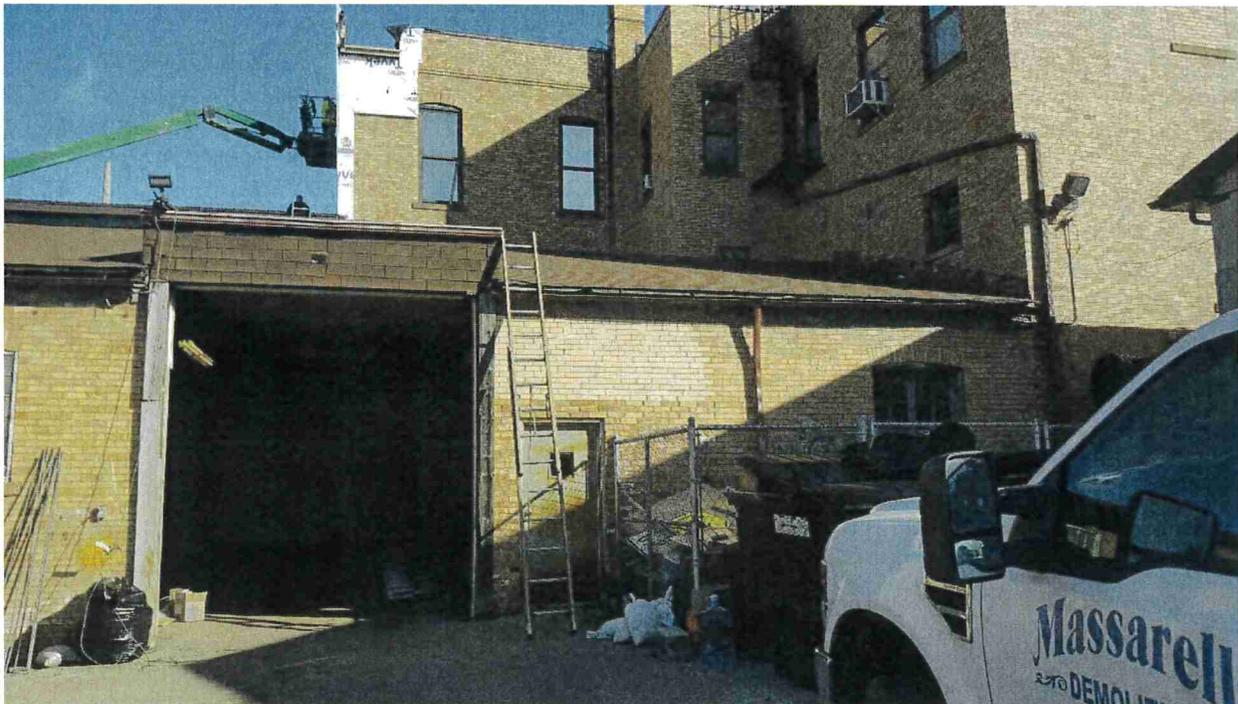
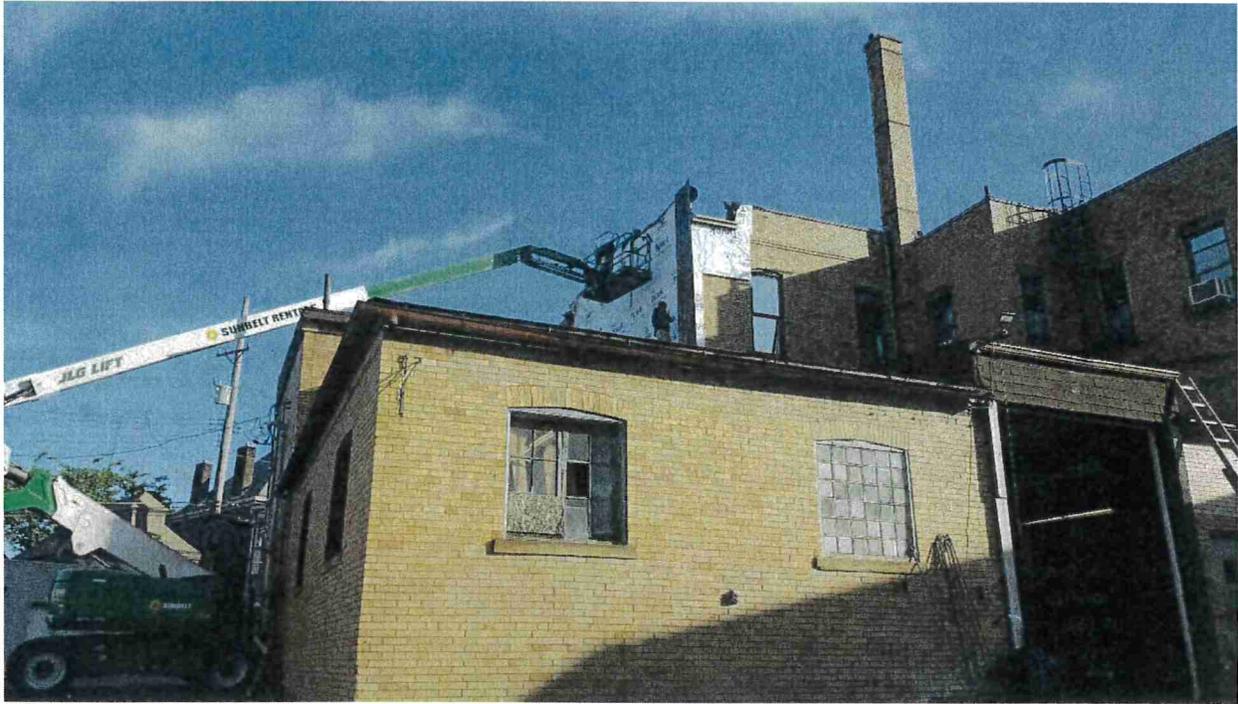
Equipment -

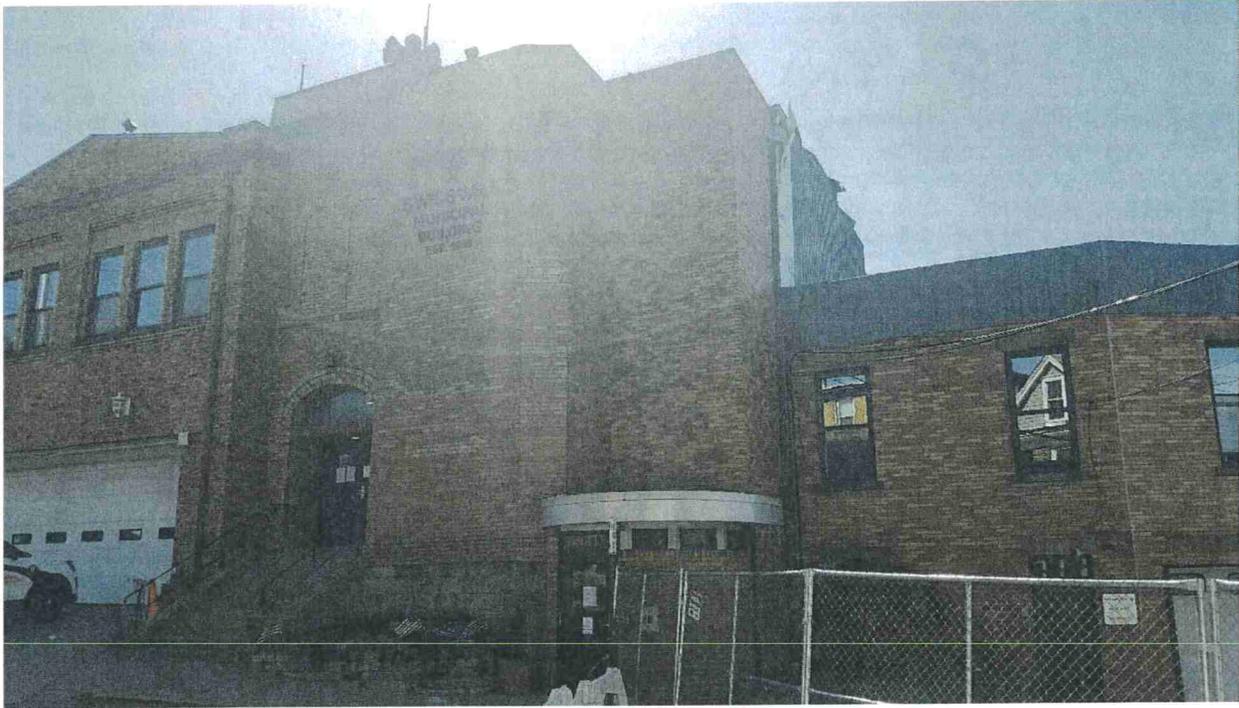
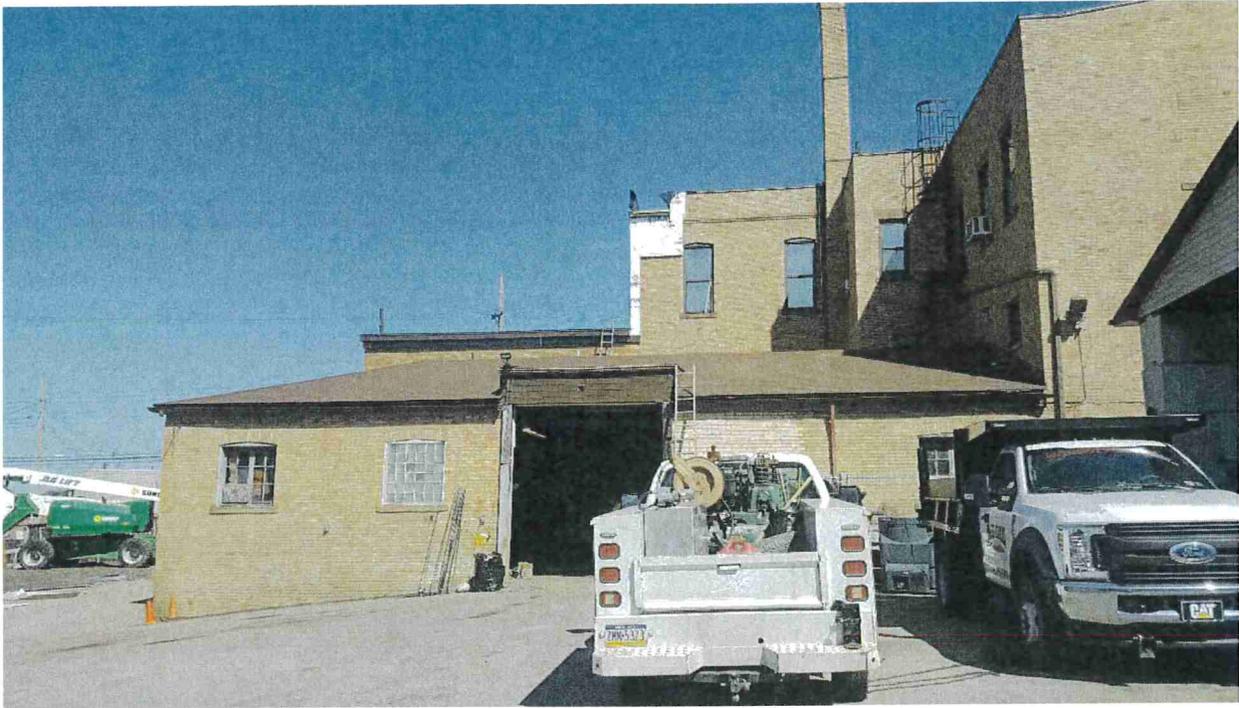
- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 1 Dumpsters
- Compressor
- Hand Tools

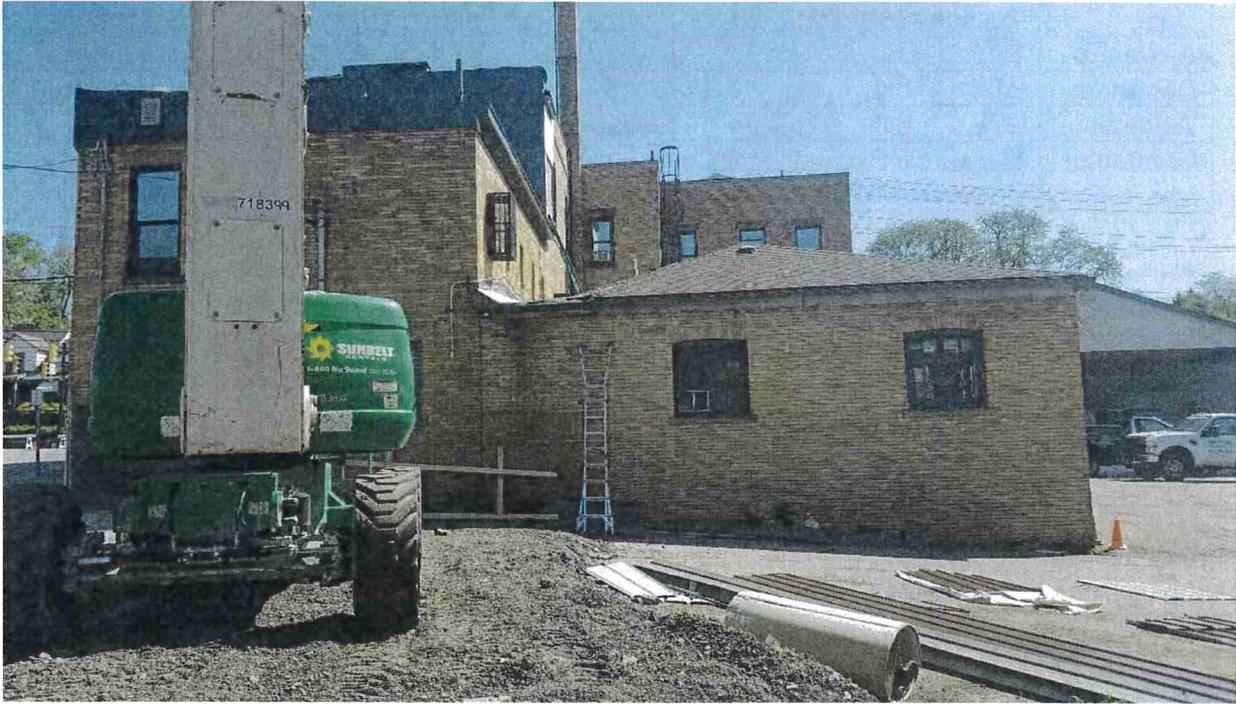
Work Performed

- Completed metal roof.
- Installed roof panels on parapet wall.
- Flashed parapet.
- Installed gutters.









Date:	Tuesday May 26, 2020				
Arrived:	7:15				
Departed:	3:00				
Weather	Low	61°	High	90°	Clear
Contractor	Massarelli Excavating & Demolition Borowski Brothers Construction				

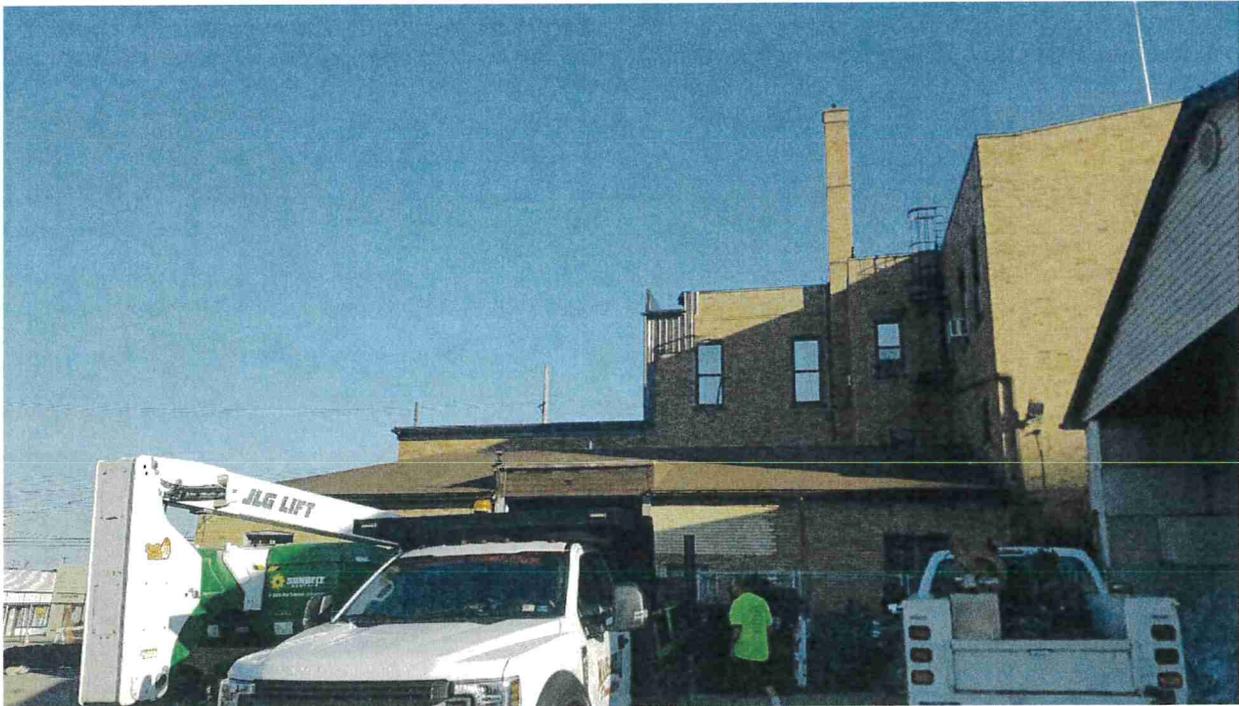
Crew - 3

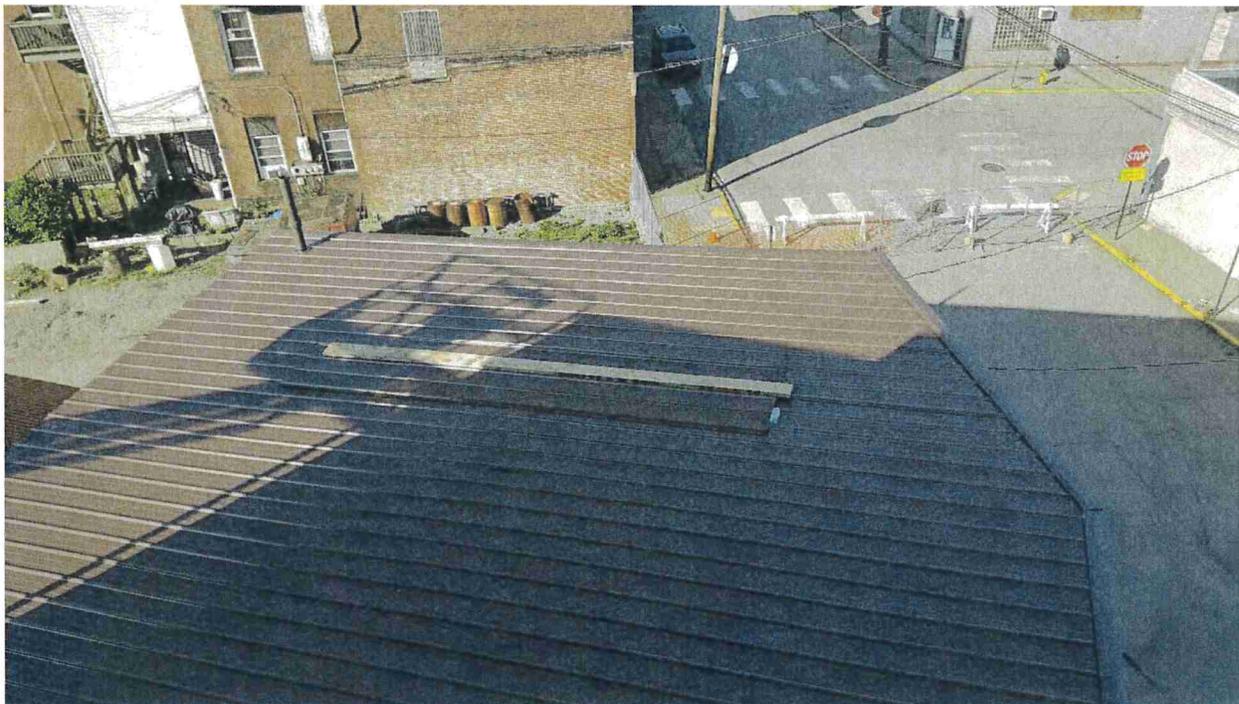
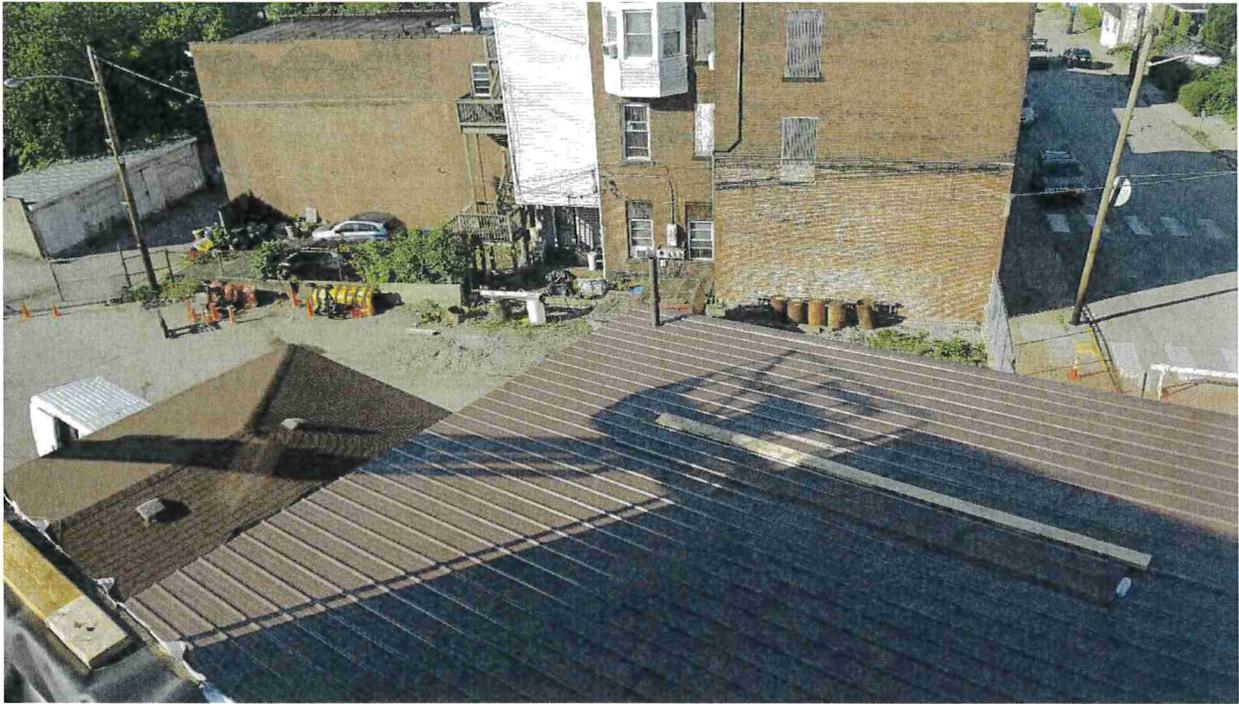
Equipment -

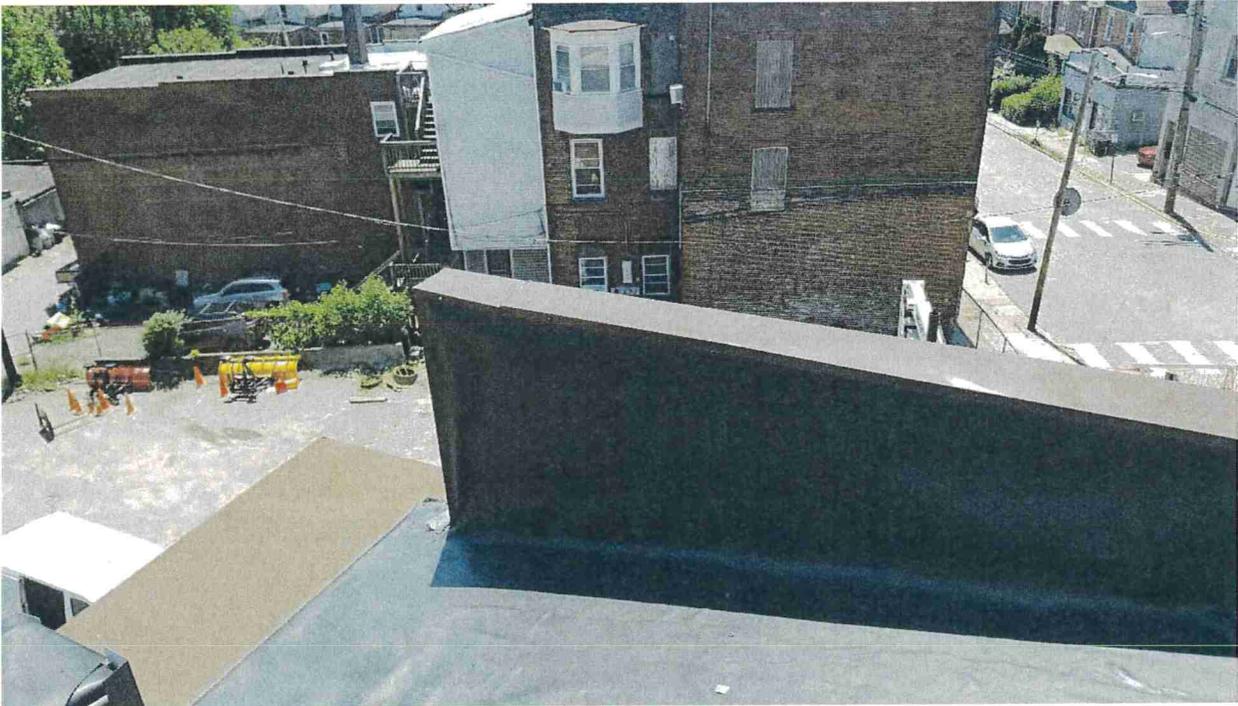
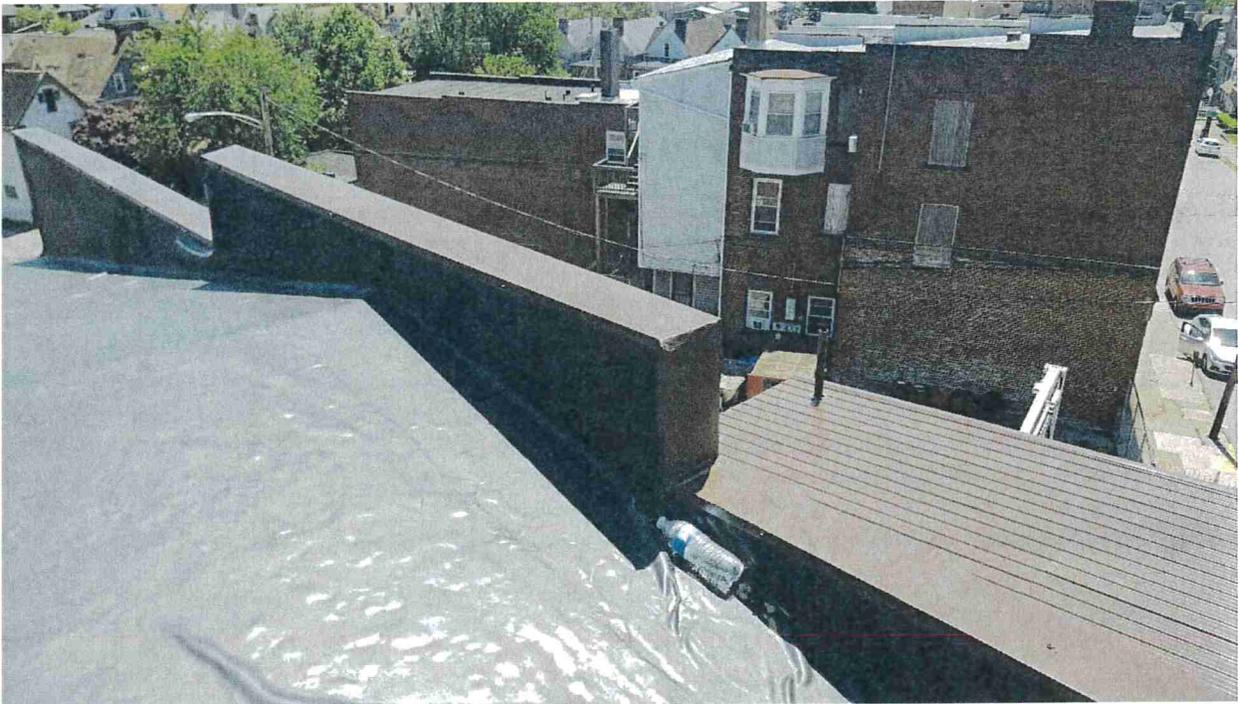
- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 1 Dumpsters
- Compressor
- Hand Tools

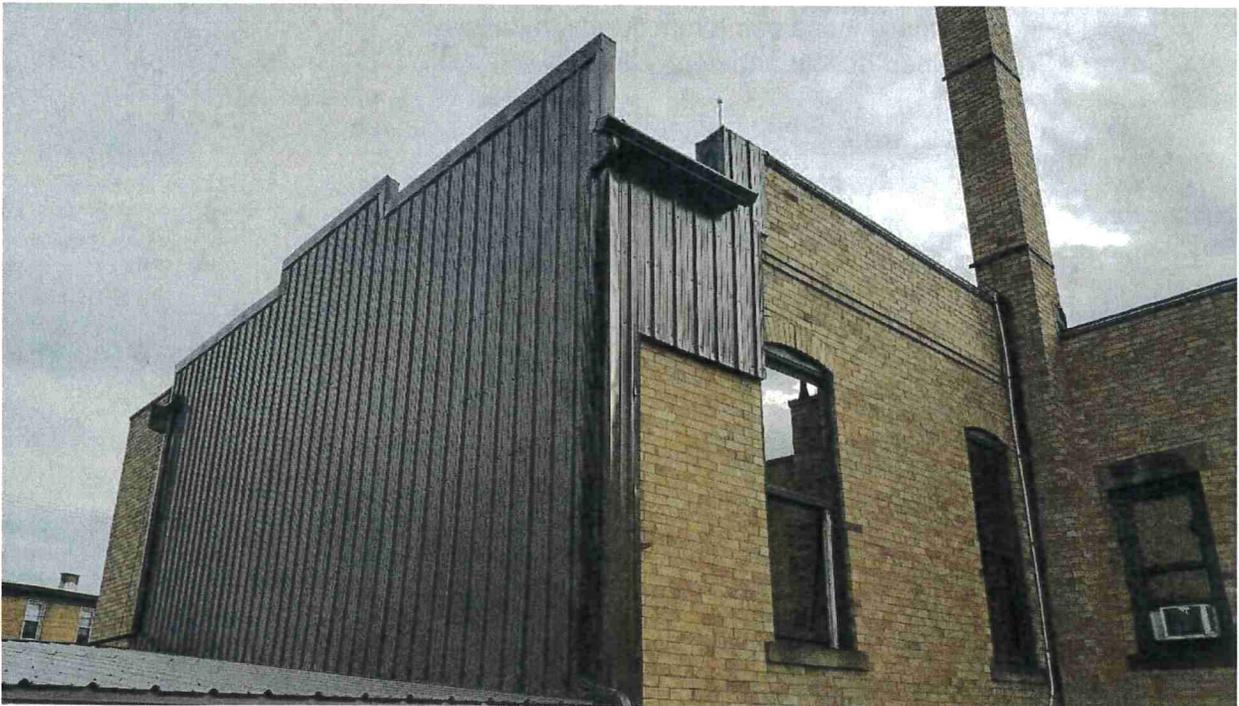
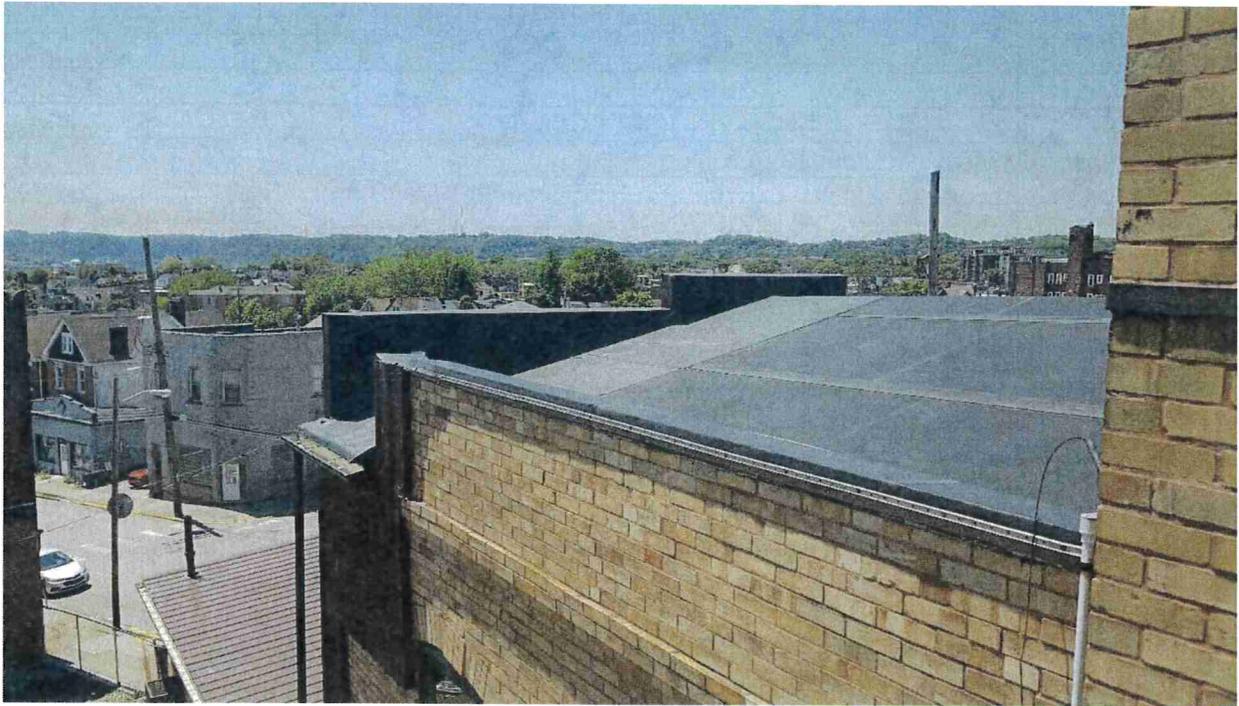
Work Performed

- Replaced parapet flashing
- Reattached gutter from upper roof to deck roof.
- Completed sheathing the parapet wall.
- Completed gutters and downspouts.
- Installed closure foam along high side
- Removed millings used as a ramp for the man lift.









Date:	Wednesday May 27, 2020				
Arrived:	7:00				
Departed:	1:30				
Weather	Low	64°	High	84°	Cloudy
Contractor	Massarelli Excavating & Demolition				

Crew - 2

Equipment -

- F450 Dump Truck
- Manlift
- Skid Steer Loader
- 1 Dumpsters
- Compressor
- Hand Tools

Work Performed

- Applied rolled roofing to the repaired areas of the garage roof.
- Trimmed and applied additional caulking to the crack in the brick along the front.
- Removed loose paint from the main hallway.
- Cleaned-up site and demobilized.



KU Resources, Inc.

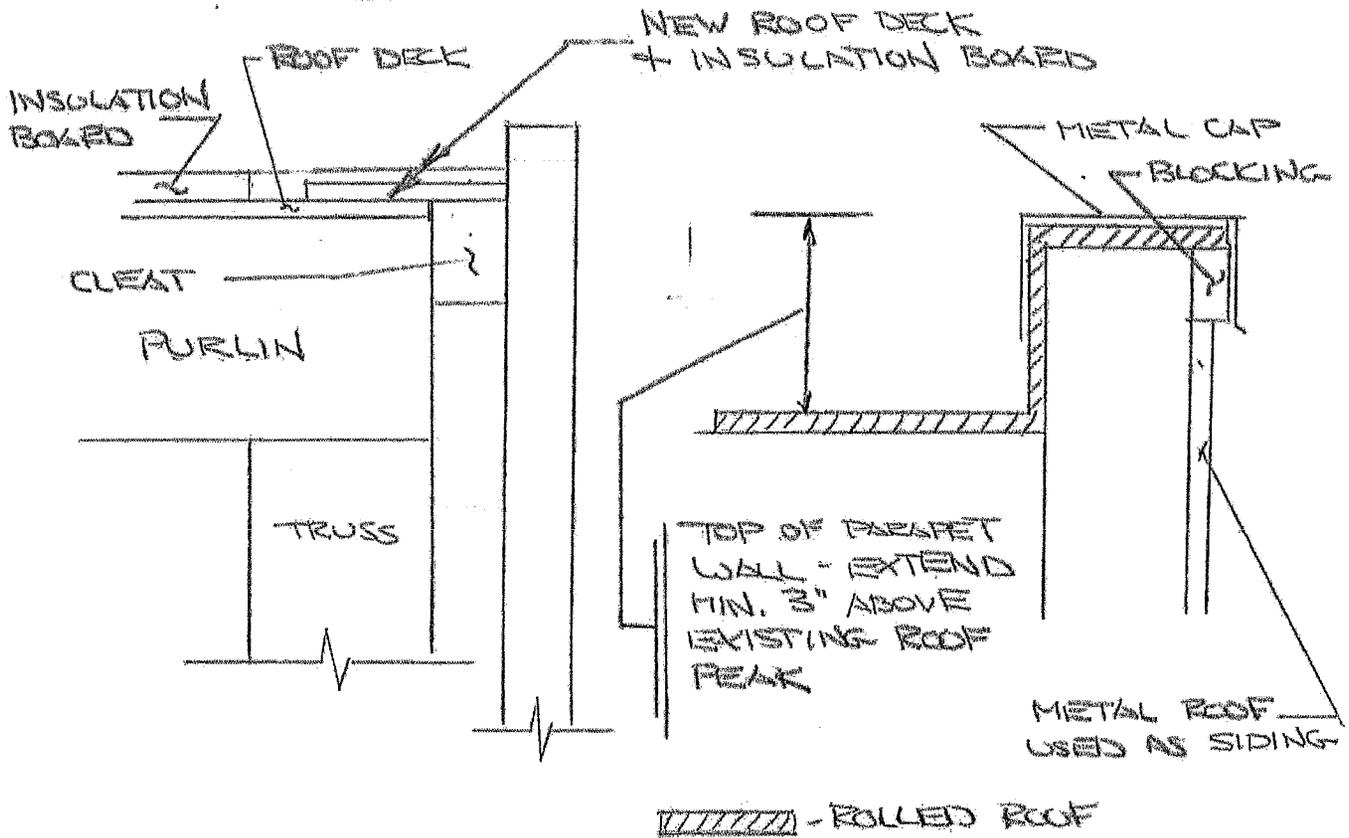
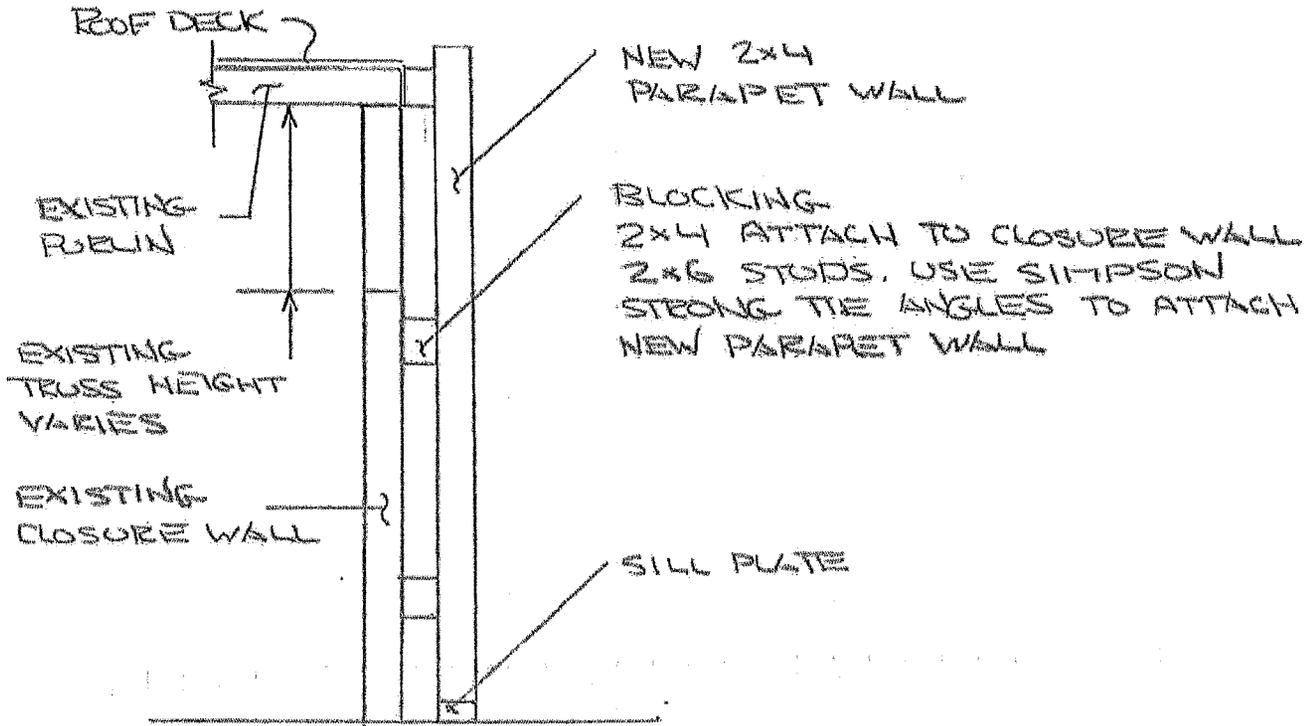
Innovative Solutions, Outstanding Support.

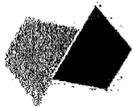
www.kuresources.com

APPENDIX

B

ROOF AND WALL DRAWINGS





KU Resources, Inc.

PROJECT SWISSVALE DEMO

SUBJECT ROOF FRAMING

BY ERC

DATE 4-21-20

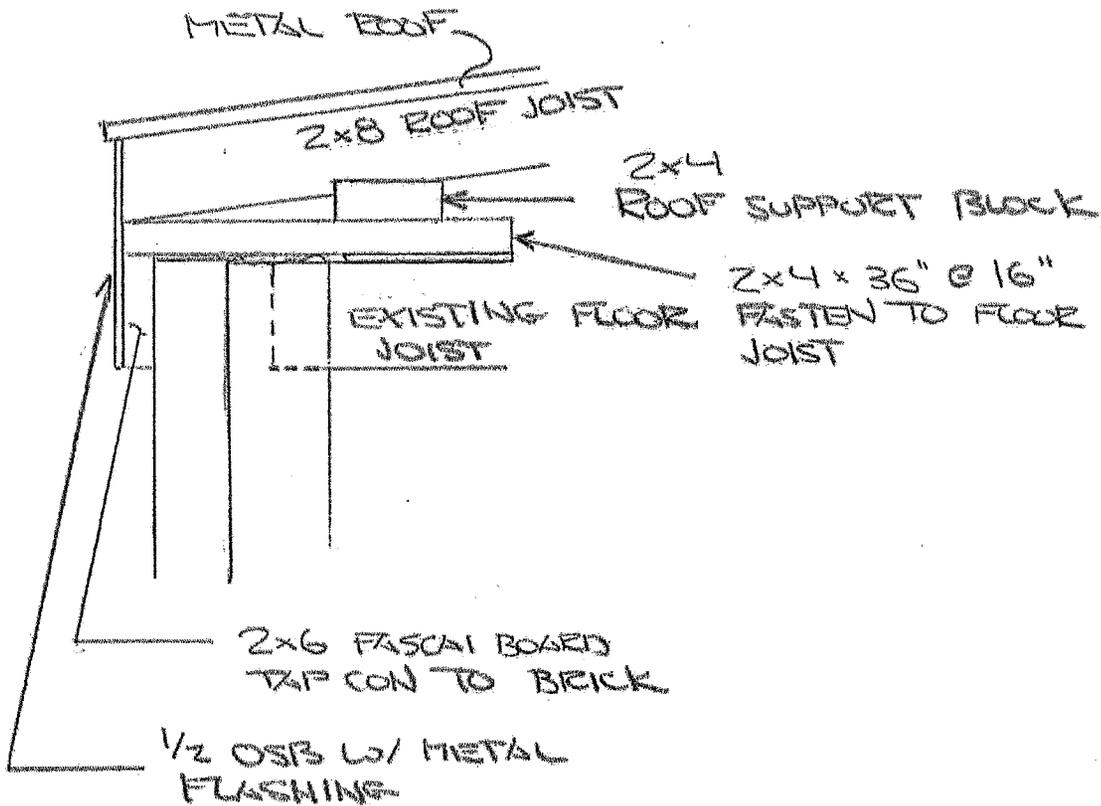
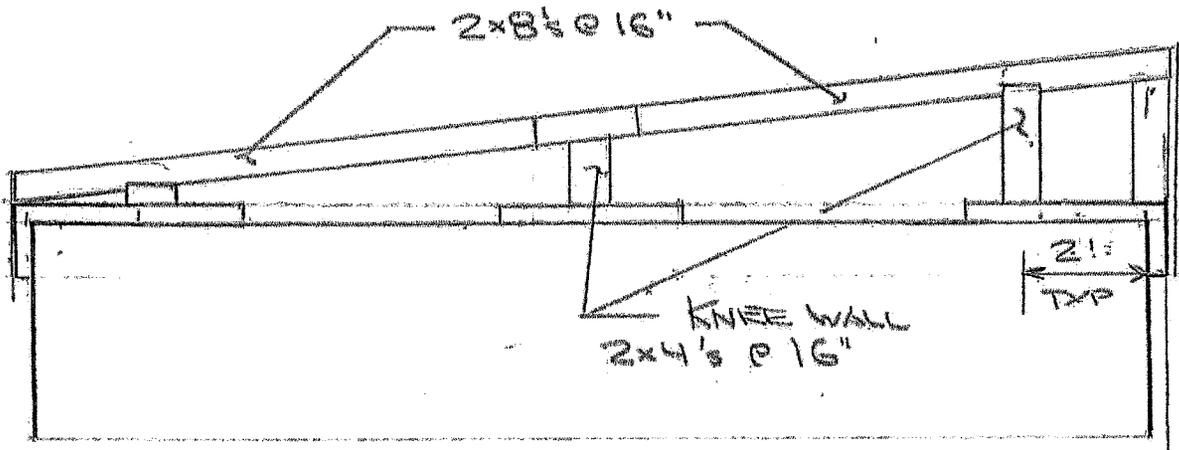
PROJ. NO. _____

CHKD. BY _____

DATE _____

PAGE NO. _____

OF _____

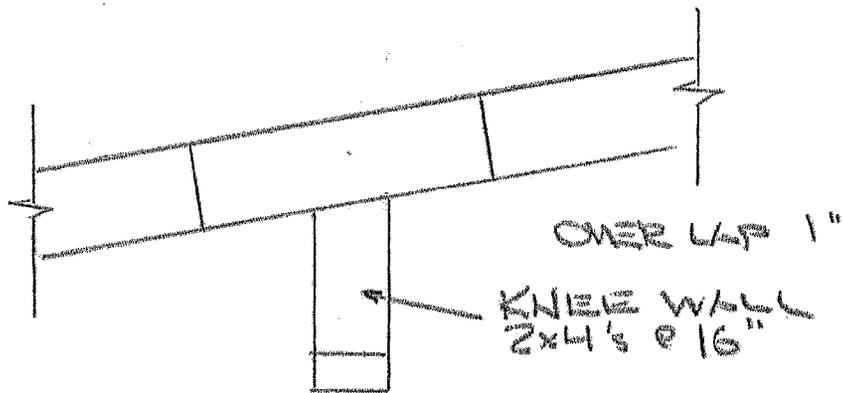
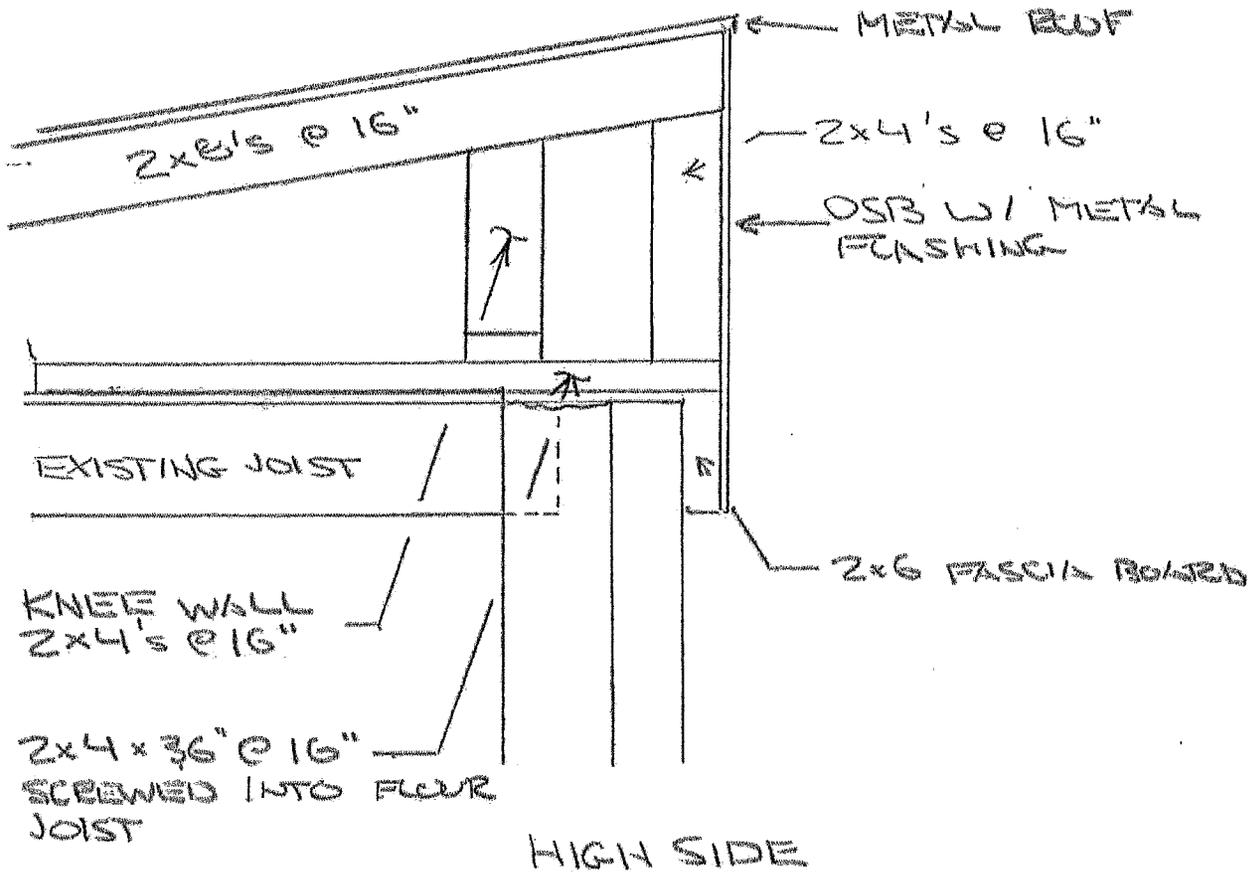


LOW SIDE



KU Resources, Inc.

PROJECT SWISSALPE DEMO
 SUBJECT ROOF FRAMING
 BY 1976 DATE 11-21-20 PROJ. NO. _____
 CHKD. BY _____ DATE _____ PAGE NO. _____ OF _____



MID SUPPORT



KU Resources, Inc.

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APPENDIX
C
MOLD INSPECTION



May 28, 2020

Mr. Greg Bachy
Borough of Swissvale
7560 Roslyn Street
Swissvale, PA 15218

Re: Mold Evaluation
Swissvale Borough Building
7560 Roslyn Street
Swissvale, Allegheny County, PA 15218

Dear Mr. Bachy:

KU Resources, Inc. (KU Resources) is presenting this summary report of the mold evaluation performed at the Swissvale Borough Building located at 7560 Roslyn Street in the Swissvale, Allegheny County, Pennsylvania. The purpose of the evaluation was to generate data as it pertains to the absence or presence of mold within the building.

Background

The U. S. Environmental Protection Agency (U.S. EPA) has not established federal limits for mold or mold spores; therefore, sampling cannot be used to check a building's compliance with any mold standards. Surface sampling may be useful to determine if an area has been adequately cleaned or remediated. Sampling for mold should be conducted by professionals who have specific experience in designing mold sampling protocols, sampling methods and interpreting results. Sample analysis should follow analytical methods recommended by the American Industrial Hygiene Association (AIHA), the American Conference of Governmental Industrial Hygienists (ACGIH), or other professional organizations.

Standards or Threshold Limit Values (TLVs) for airborne concentrations of mold, or mold spores, have not been set. Currently, there are no EPA regulations or standards for airborne mold contaminants.

Work Performed

KU Resources personnel performed air and surface sampling at the Site on May 19, 2020 and May 20, 2020. Eight air samples were collected through spore traps which are capable of capturing spores and particulate matter in the air. Three surface swab samples were collected from three surfaces throughout the building. A summary of the sampling locations is as follows:

- Air Samples
 - SPT-01 – Outside of Structure – Background Sample
 - SPT-02 – Basement – DPW Office
 - SPT-03 – Basement – BPW Locker Room
 - SPT-04 – 1st Floor – Police Station
 - SPT-05 – 1st Floor – Chief's Office
 - SPT-06 – 2nd Floor – Administrative Office
 - Swiss-ST-01 – 2nd Floor – Police Locker Room
 - Swiss-ST-02 – 1st Floor – Chief Office Hallway

- Swab Samples
 - GAR-01 – Basement – Garage Ceiling
 - LOB-01 – 1st Floor – Lobby Area
 - ADM-01 – 2nd Floor – Administrative Office Wall

Analysis for the swab samples include fungal culture and direct microscopic examination at all locations. All spore traps were collected over a 3-minute period for airborne spore trap analysis. Samples were submitted to U.S Micro-Solutions, Inc. (USMS), a full-service environmental microbiology laboratory located in Latrobe, PA. USMS specializes in the analysis of fungi and bacteria from indoor environments, water, and pharmaceutical sterile compounding settings. USMS is an AIHA-LAP, LLC accredited environmental microbiology laboratory, EMLAP #103009.

Analytical Results

Air Samples

Sample ID / Location	Particle ID	Spores/m ³	Percentage
SPT-01 (Outside of Structure) (Background)	Ascospores	198	10%
	Aspergillus/Penicillium-like	44	2%
	Basidiospores	1,540	80%
	Cladosporium	88	5%
	Smuts/Myxomycetes	44	2%
SPT-02 (Basement - DPW Office)	Ascospores	110	11%
	Aspergillus/Penicillium-like	286	28%
	Basidiospores	528	52%
	Cladosporium	88	9%
SPT-03 (Basement - DPW Locker Room)	Ascospores	44	4%
	Aspergillus/Penicillium-like	594	54%
	Basidiospores	440	40%
	Pithomyces/Ulocladium	22	2%
SPT-04 (1st Floor - Police Station)	Ascospores	110	16%
	Aspergillus/Penicillium-like	88	13%
	Basidiospores	198	29%
	Cladosporium	176	26%
	Smuts/Myxomycetes	110	16%
SPT-05 (1st Floor - Chief's Office)	Ascospores	154	2%
	Aspergillus/Penicillium-like	5,896	91%
	Basidiospores	88	1%
	Cladosporium	198	3%
	Smuts/Myxomycetes	44	1%
	Unidentified dematiaceous conidia	66	1%



SPT-06 (2nd Floor - Administration Office)	Ascospores	110	28%
	Aspergillus/Penicillium-like	154	39%
	Basidiospores	110	28%
	Smuts/Myxomycetes	22	6%
Swiss-ST-01 (2nd Floor - Police Locker Room)	Aspergillus/Penicillium-like	198	53%
	Basidiospores	176	47%
Swiss-ST-02 (1st Floor - Chief's Office Hallway)	Aspergillus / Penicillium-like	1,936	95%
	Basidiospores	110	5%

Fungal Swab Samples:

Sample ID / Location	Particle ID	CFU/swab	DME ⁽¹⁾
GAR-01 (Basement - Garage Ceiling)	Badiospores; Chaetomium ascospores; Cladosporium conidia; Hyphal Fragments	63,000	YES
LOB-01 (1st Floor - Lobby Area)	Aspergillus/Penicillium-like conidia; Hyphal Fragments	5,200	YES
ADM-01 (2nd Floor - Admin. Office)	None	<1 no growth	YES
Notes: ⁽¹⁾ DME - Direct Microscopic Examination.			

Summary

Surface and air samples were collected from the Swissvale Borough Building located at 7560 Roslyn Street in Swissvale, Allegheny County, Pennsylvania on May 19, 2020 and May 20, 2020. Outside air mold concentration were within typical mold spore ranges for the season in our region and exceeded most of the indoor air count. The results of the indoor air samples indicated the presence of small quantities of, pithomyces/ulocladium that do not appear in the outdoor background sample. Pithomyces/ulocladium are molds that are common in both indoor and outdoor environments, particularly where moisture is present. According to the Centers for Disease Control and Prevention, the detected molds are allergenic but are a rare cause of human illness.

Two fungal cultures from the swab samples collected within basement and the 1st floor lobby were positive for five separate types fungal growths (badiospores; Chaetomium ascospores; Cladosporium conidia; hyphal fragments and aspergillus/penicillium-like conidia) and the fungal cultures from within the 2nd Floor – Administrative Office showed no growth. Both fungal cultures identified are typically associated with water damaged materials such as wood, wood products, gypsum board, and paint.



Based on a comparison of the outdoor mold concentrations and the results of the indoor mold evaluation, the indoor concentrations would be expected and do not appear to be elevated in the air and on surfaces.

KU Resources appreciates the opportunity to provide you with our services. If you have any questions about the content of this letter, please contact us at 412-469-9331.

Respectfully submitted,



M. Ryan Dowling
Project Manager

MRD:sja



ATTACHMENT A
Analytical Results





U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650
 Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009
www.usmslab.com



Customer Name: KU Resources, Inc. Sample Date: May 19, 2020
 Customer Address: 22 South Linden Street Date Received: May 19, 2020
 Duquesne, PA 15110 Date of Report: May 26, 2020
 Customer Phone: (412) 469-9331 Fax:
 PO Number: Attention: Ryan Dowling
 Project Name/Number: Swissvale Municipal Building

Customer sample numbers below are uniquely identified by prefixing Laboratory # 53875-20

Culturable Swab Sample(s) (Fungi) - Analytical Method USMS-M002 (MIC 03 MIC 04 MIC 18)

Sample Number	Media	Sample Description	Results of Microbial Analysis	Raw CTs
GAR-01	IMA	Basement - Garage Area Ceiling	Total Fungal Count	63,000 CFU/swab
			Cladosporium spp. - 54,000 CFU/swab	54
			Basidiomycete - 5,000 CFU/swab	5
			Non-sporulating hyaline fungus - 3,000 CFU/swab	3
			Penicillium spp. - 1,000 CFU/swab	1
Total Raw Count: 63				
Analytical Sensitivity: 1,000 CFU/swab				

LOB-01	IMA	1st Floor - Lobby Area	Total Fungal Count	5,200 CFU/swab
			Penicillium spp. - 4,700 CFU/swab	47
			Aspergillus spp. - 300 CFU/swab	3
			Non-sporulating hyaline fungus - 200 CFU/swab	2
			Total Raw Count: 52	
Analytical Sensitivity: 100 CFU/swab				

Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Individual counts may not equal total count due to rounding.

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Technical Manager:

Sharon Fanchalsky, AS, MLT (ASCP)



Customer Name: KU Resources, Inc. Sample Date: May 19, 2020
 Customer Address: 22 South Linden Street Date Received: May 19, 2020
 Duquesne, PA 15110 Date of Report: May 21, 2020
 Customer Phone: (412) 469-9331 Fax:
 PO Number: Attention: Ryan Dowling
 Project Name/Number: Swissvale Municipal Building

Customer sample numbers below are uniquely identified by prefixing Laboratory # 53875-20

Direct Microscopic Examination - Swab
 Analytical Method: USMS-T017 (MIC 02)

Customer Sample Number	GAR-01					LOB-01					ADM-01				
	Basement - Garage Area Ceiling					1st Floor - Lobby Area					2nd Floor - Admin Office Wall				
Sample Description/ Location	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num	Rare Amt	Few	Mod	Many	Num
Particle ID															
<i>Alternaria</i> conidia															
Ascospores															
<i>Aspergillus</i> fruiting structures															
<i>Aspergillus/Penicillium</i> -like conidia						X									
Basidiospores		X													
<i>Bipolaris/Drechslera</i> conidia															
<i>Chaetomium</i> ascospores	X														
<i>Cladosporium</i> conidia	X														
<i>Curvularia</i> conidia															
<i>Epicoccum</i> conidia															
Hyphal Fragments	X					X									
Insect fragments															
<i>Penicillium</i> fruiting structures															
<i>Pithomyces/Ulocladium</i> conidia															
Plant fragments															
Pollen (unidentified)															
Rusts															
Smuts/ Myxomycetes															
<i>Stachybotrys</i> conidia															
<i>Stachybotrys</i> fruiting structures															
<i>Torula</i> conidia															
Unidentified dematiaceous conidia															
Unidentified hyaline conidia															
Skin Cell Fragments			1					1					1		
Debris			1					1					1		
No fungal conidia/hyphal fragments noted													X		
Analyst Initials			BM					BM					BM		
Date Analyzed			05/20/20					05/20/20					05/20/20		
Lot # / Exp Date:Swab			n/a					n/a					n/a		

Results relate only to the samples tested. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.
 Mod = Moderate; Num = Numerous

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Technical Manager: Sharon Fanchalsky, AS, MLT (ASCP)



U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650
 Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009
 www.usmslab.com



Customer Name: KU Resources, Inc. Sample Date: May 19, 2020
 Customer Address: 22 South Linden Street Duquesne, PA 15110 Date Received: May 19, 2020
 Date of Report: May 21, 2020

Customer Phone: (412) 469-9331 Fax:
 PO Number: Attention: Ryan Dowling
 Project Name/Number: Swissvale Municipal Building

Customer sample numbers below are uniquely identified by prefixing Laboratory # 53875-20

Airborne Spore Trap Analysis - AllergencoD
 Analytical Method: USMS-M008 (MIC 01)

Total Volume (L)	45				45				45			
Sample Number	SPT-01				SPT-02				SPT-03			
Location:	Outside of Structure - Background Sample				Basement - DPW Office Area				Basement - DPW Locker Room			
Particle ID	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%
Alternaria												
Ascospores	9	22	198	10%	5	22	110	11%	2	22	44	4%
Aspergillus/Penicillium-like	2	22	44	2%	13	22	286	28%	27	22	594	54%
Basidiospores	70	22	1,540	80%	24	22	528	52%	20	22	440	40%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	4	22	88	5%	4	22	88	9%				
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium									1	22	22	2%
Polythrincium												
Rusts												
Smuts/ Myxomycetes	2	22	44	2%								
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia												
Unidentified hyaline conidia												
Total Mold (Spores/m ³ of air)	87		1,914		46		1,012		50		1,100	
Pollen	8	22	176		0	22	< 22		2	22	44	
Hypthal Fragments												
Insect Fragments												
Plant Fragments	5	22	110									
Skin Cell Fragments			1				1				1	
Debris			1				4***				4***	
Analyst Initials			LS				LS				LS	
Date Analyzed			05/20/20				05/20/20				05/20/20	
Cassette Serial # / Exp Date:			3166570 09/2020				3166858 09/2020				3166866 09/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.

AS=Analytical Sensitivity (spores/m³); Blank Lines = None Detected

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***A debris rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

Technical Manager: *Sharon Fanchalsky*
 Sharon Fanchalsky, AS, MLT (ASCP)



U.S. Micro-Solutions, Inc. * 302 Unity Plaza * Latrobe, PA 15650
 Phone: (724) 853-4047 Fax: (724) 853-4049 AIHA-LAP, LLC EMLAP # 103009
www.usmslab.com



Customer Name: KU Resources, Inc. Sample Date: May 19, 2020
 Customer Address: 22 South Linden Street Date Received: May 19, 2020
 Duquesne, PA 15110 Date of Report: May 21, 2020

Customer Phone: (412) 469-9331 Fax:
 PO Number: Attention: Ryan Dowling
 Project Name/Number: Swissvale Municipal Building

Customer sample numbers below are uniquely identified by prefixing Laboratory # 53875-20

Airborne Spore Trap Analysis - AllergencoD
 Analytical Method: USMS-M008 (MIC 01)

Total Volume (L)	45				45				45			
Sample Number	SPT-04				SPT-05				SPT-06			
Location:	1st Floor - Police Station				1st Floor - Chief's Office				2nd Floor - Admin Office			
Particle ID	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%
Alternaria												
Ascospores	5	22	110	16%	7	22	154	2%	5	22	110	28%
Aspergillus/Penicillium-like	4	22	88	13%	268	22	5,896	91%	7	22	154	39%
Basidiospores	9	22	198	29%	4	22	88	1%	5	22	110	28%
Bipolaris/Drechslera												
Cercospora												
Chaetomium												
Cladosporium	8	22	176	26%	9	22	198	3%				
Curvularia												
Epicoccum												
Helicomyces												
Nigrospora												
Oidium												
Pithomyces/Ulocladium												
Polythrincium												
Rusts												
Smuts/ Myxomycetes	5	22	110	16%	2	22	44	1%	1	22	22	6%
Stachybotrys												
Torula												
Trichoderma												
Unidentified dematiaceous conidia					3	22	66	1%				
Unidentified hyaline conidia												
Total Mold (Spores/m ³ of air)	31		682		293		6,446		18		396	

Pollen	1	22	22		6	22	132		0	22	< 22	
Hyphal Fragments	1	22	22		1	22	22		1	22	22	
Insect Fragments	1	22	22									
Plant Fragments												
Skin Cell Fragments			1				1				2	
Debris			3***				4***				3***	
Analyst Initials			BM				BM				BM	
Date Analyzed			05/20/20				05/20/20				05/20/20	
Cassette Serial # / Exp Date:			3166863 09/2020				3166855 09/2020				3166871 09/2020	

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.
 AS=Analytical Sensitivity (spores/m³); Blank Lines = None Detected

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.

*** A debris rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

Technical Manager: *Sharon Fanchalsky*
 Sharon Fanchalsky, AS, MLT (ASCP)

GUIDELINES FOR DIRECT MICROSCOPIC EXAMINATION – (DME) OF BULK, SWAB AND TAPE SAMPLES

These guidelines are not intended for determination of health significance nor are they necessarily representative of unacceptable indoor environments.

Molds require a food source, moisture, and spore production to proliferate, removing any one of these factors can control fungal growth. However, because of their ubiquitous nature, spores can never be completely eliminated from an area.

RELATIVE ABUNDANCE OF CONIDIA (SPORES) AND HYPHAL FRAGMENTS		
RATING	Relative Amounts of Observed Fungal Structures per high power field (600X)	SIGNIFICANCE
Rare	0-1	Indicates a minimal amount of conidia (spores) and/or other fungal structures. Most normal indoor surfaces will show no to low fungal conidia/hyphal fragments. Generally, water indicator molds such as <i>Stachybotrys</i> or <i>Chaetomium</i> should be further investigated.
Few	2-5	Indicates low amounts of settled conidia (spores). Typically, this amount is not consistent with active fungal growth, however, it may suggest an active source nearby, or that a surface has not been cleaned appropriately. The presence of hyphal fragments or fruiting structures may indicate a nearby source of contamination. Generally, the presence of moisture indicator molds (e.g., <i>Stachybotrys</i> or <i>Chaetomium</i>) may suggest a chronic or acute water condition from sources such as roofs, plumbing leaks, increased humidity, etc.
Moderate	6-10	Indicates a moderate to heavy amount of fungal contamination (conidia/spores). Generally, this category is indicative of a surface that is, or has been affected, by active fungal growth. The presence of fruiting structures or hyphal fragments may support the premise that fungal growth is on-going. However, the presence of moderate to numerous conidia/spores alone does not necessarily indicate the viability of the spores. Further investigation of the affected areas may be warranted.
Many	11-100	
Numerous	>100	Indicates that the sample area was highly contaminated with fungal spores and/or hyphal fragments. Samples in this category display an unusually high number of conidia/spores or other fungal structures in each microscopic field.

**This scale of relative abundance is affected by the size of the sampled area. If very large areas are sampled with a swab for example, this may cause the results to be skewed into a lower or higher category. These results correspond, roughly, to a sample area measuring one square inch.*

SKIN CELL ANALYSIS	
SKIN CELL RATING	Relative Amounts of Observed Skin Cells per high power field (600 X)
0	No skin cells present
1	0-1
2	2 to 5
3	6 to 10
4	11 to 15
5	≥16

DEBRIS RATING for DME ANALYSIS (using 600X magnification)		
DEBRIS RATING	CONDITIONS FOR REPORTING DEBRIS RATING	SIGNIFICANCE
0	Debris is not present.	Sample may be a blank sample or from a very clean or remediated area.
1	Debris is present and <10% of the average viewing field is obscured.	Minimal amount of debris is observed.
2	Debris is present and 10% to <40% of the average viewing field is obscured.	Low amount of debris is observed, relative amounts of conidia/hyphal fragments may be affected.
3*	Debris is present and 40% to 75% of the average viewing field is obscured.	Moderate amount of debris is observed, relative amounts of conidia/hyphal fragments may be underestimated.
4*	Debris is present and >75% of the average viewing field is obscured.	High amount of debris is observed, relative amounts of conidia/hyphal fragments are estimated.
6	Slide completely obscured by excessive debris.	Unable to analyze. Recollect sample.

* A debris rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

SPORE TRAP INTERPRETATION TIPS

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.
2. Complaint vs. non-complaint areas or affected vs. non-affected areas.
3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.
4. Rank order assessment and concentration (e.g. Spores/m³ of air) of the fungi.
5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: *Chaetomium*, *Stachybotrys*, *Rhodotorula*, *Trichoderma*, and *Scopulariopsis*.
6. Generally the fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.
7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.
8. The investigator should look for various patterns among the indoor types of molds detected:
 - a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: ***Aspergillus/Penicillium*** or ***Cladosporium*** are usually noted.
 - b. ***Chaetomium*** or ***Stachybotrys*** are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long standing water/moisture issues in a building.
 - c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.
 - d. **Ascospores** and **basidiospores** noted on indoors spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.
9. When unidentified hyaline (clear) or dematiaceous (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium*, *Sporidiobolus*, unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).
10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the Northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

SPORE TRAP GUIDELINES FOR INDOOR MICROBIAL CONTAMINATION

DEBRIS RATING for SPORE TRAP ANALYSIS (using 600X magnification) (Air-O-Cell, Micro 5, Allergenco D, Cyclex d, VersaTrap, etc.)		
DEBRIS RATING	CONDITIONS FOR REPORTING DEBRIS RATING	SIGNIFICANCE
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample was a blank, the area is exceptionally clean, or improper sampling occurred.
1	Debris is present and <10% of the average viewing field is obscured.	Minimal amount of debris is observed.
2	Debris is present and 10% to <40% of the average viewing field is obscured.	Low amount of debris is observed, counts may be affected.
3*	Debris is present and 40% to 75% of the average viewing field is obscured.	Moderate amount of debris is observed, counts of conidia/hyphal fragments may be underestimated.
4*	Debris is present and >75% of the average viewing field is obscured.	High amount of debris is observed, counts are estimated.
5* See Relative Abundance chart below	Excessive debris is present	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted. Suggest recollection.
6	Slide completely obscured by excessive debris.	Unable to analyze. Recollect sample.

* A rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

RELATIVE ABUNDANCE of OBSERVED CONIDIA & HYPHAL FRAGMENTS	
RATING	Relative Amounts of Observed Fungal Structures per high power field (600X)
Rare	0-1
Few	2 to 5
Moderate	6 to 10
Many	11 to 100
Numerous	>100

SKIN CELL ANALYSIS	
SKIN CELL RATING	Relative Amounts of Observed Skin Cells per high power field (600X)
0	No skin cells present
1	0-1
2	2 to 5
3	6 to 10
4	11 to 15
5	≥16

End of Report



U.S. Micro-Solutions, Inc.

302 Unity Plaza
Latrobe, PA 15650
P: 724-853-4047 F: 724-853-4049
supplies@usmslab.com



LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: KU RESOURCES, INC.	Phone #: 412-469-9331	FAX #:
Address: 22 SOUTH LINDEN STREET	City: DUQUESNE	State: PA Zip: 15110
Attention To: RYAN DOWLING	E-Mail: RDOWLING@KUREOURCES.COM	
Sample Obtained By: RYAN DOWLING	Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-Mail	PO# Proposal #
Project Name/Number: SWISSVALE MUNICIPAL BUILDING		
Turn-Around-Time: (Spore Trap & DME Only)*	Standard (48-72 hr) <input checked="" type="checkbox"/>	Next Day (24 hr, M-F) <input type="checkbox"/> Same Day (6 hr, M-F) <input type="checkbox"/> 3-Hour (M-F) <input type="checkbox"/> Saturday <input type="checkbox"/>

Comments:

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
SPT-01	05/18 10:05	ST	SPT	Outside of Structure - Background Sample	15L 45
SPT-02	05/18 10:11	ST	SPT	Basement - DPW Office Area	15L
SPT-03	05/18 10:16	ST	SPT	Basement - DPW Locker Room	15L
SPT-04	05/18 10:30	ST	SPT	1st Floor - Police Station	15L
SPT-05	05/18 10:38	ST	SPT	1st Floor - Cheif's Office	15L
SPT-06	05/18 10:40	ST	SPT	2nd Floor - Admin Office	15L
GAR-01	05/18 10:20	S	DME/FUNG	Basement - Garage Area Ceiling	n/a
LOB-01	05/18 10:35	S	DME/FUNG	1st Floor - Lobby Area	n/a

Relinquished By (Customer MUST sign)	Date & Time
<i>[Signature]</i>	5-19-2018 2:55

Received By – Lab Use Only	Date & Time	Lab #
<i>[Signature]</i>	05/19/2018 1500	53875-20

Rev. 11-27-18

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
O	Other

Analysis Code			
DME	Direct Microscopic Exam	COL	Colilert – Presence/absence of <i>E. coli</i> , coliforms
SPT	Spore Trap <input checked="" type="checkbox"/> Allergenco-D <input type="checkbox"/> AirOCell <input type="checkbox"/> M5	HPC	Heterotrophic Plate Count
FUNG	Fungal Culture – Counts w/ Identification	MYC	Mycobacteria Culture
BACT	Bacterial Culture – Counts w/ Identification	STA	<i>Staphylococcus</i> / MRSA Culture
BACT24	Bacterial Culture (24 hr) - Counts w/ presence/absence of gram-negatives	DUO	Duodenoscope Culture
SSQT	Sewage Screen (quant) – Counts w/ Identification <i>E. coli</i> , coliforms, enterococci (fecal streptococci)	HCU	Heater/Cooler Water Culture includes mycobacteria, HPC, coliforms, & <i>P. aeruginosa</i>
SSQL	Sewage Screen (qualitative) – Presence/absence <i>E. coli</i> , coliforms, enterococci (fecal streptococci)	PSA	<i>Pseudomonas aeruginosa</i> Culture
SS24	Sewage Screen (24 hr) - Presence/absence <i>E. coli</i> , coliforms, enterococci (fecal streptococci)	IDS	Species Identification by MALDI-TOF

changed Analysis code in ASM-01 per Ryan Dowling, Am



Customer Name: KU Resources, Inc. Sample Date: May 20, 2020
 Customer Address: 22 South Linden Street Date Received: May 20, 2020
 Duquesne, PA 15110 Date of Report: May 22, 2020

Customer Phone: (412) 469-9331 Fax:
 PO Number: Attention: Ryan Dowling
 Project Name/Number: Swissvale Municipal Building

Customer sample numbers below are uniquely identified by prefixing Laboratory # 53913-20

Airborne Spore Trap Analysis - AllergencoD
 Analytical Method: USMS-M008 (MIC 01)

Total Volume (L)		45				45							
Sample Number		SWISS-ST-01				SWISS-ST-02							
Location:		Police Locker Room				Chief Office Hallway							
Particle ID	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%	Raw ct.	AS	Spores/m ³	%	
Alternaria													
Ascospores													
Aspergillus/Penicillium-like	9	22	198	53%	88	22	1,936	95%					
Basidiospores	8	22	176	47%	5	22	110	5%					
Bipolaris/Drechslera													
Cercospora													
Chaetomium													
Cladosporium													
Curvularia													
Epicoccum													
Helicomyces													
Nigrospora													
Oidium													
Pithomyces/Ulocladium													
Polythrincium													
Rusts													
Smuts/ Myxomycetes													
Stachybotrys													
Torula													
Trichoderma													
Unidentified dematiaceous conidia													
Unidentified hyaline conidia													
Total Mold (Spores/m ³ of air)	17		374		93		2,046						
Pollen	0	22	< 22		0	22	< 22						
Hyphal Fragments	1	22	22										
Insect Fragments													
Plant Fragments													
Skin Cell Fragments			1				1						
Debris			2				2						
Analyst Initials			LS				LS						
Date Analyzed			05/21/20				05/21/20						
Cassette Serial # / Exp Date:			3243520 10/2020				3243518 10/2020						

Entire trace analyzed. Results relate only to the samples tested. Results are reported as calculated. For biological data, the first and/or second digit should be considered significant. Total percentage may not equal 100% due to rounding. Percentages reported as 0% are greater than 0 and less than 0.5%. The *Aspergillus/Penicillium*-like category cannot be differentiated by non-viable sampling methods.
 AS=Analytical Sensitivity (spores/m³); Blank Lines = None Detected

When providing duplicates of this report, the document should be provided in total and not in section in accordance with AIHA-LAP, LLC. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer's customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.



Technical Manager: *Sharon Fanchalsky*

Sharon Fanchalsky, AS, MLT (ASCP)

SPORE TRAP INTERPRETATION TIPS

Currently there are no numeric standards for indoor airborne or surface microbial contamination. Suggested guidelines are constantly being reviewed and updated as more information is collected.

Some common denominators should be considered when interpreting results:

1. Comparison of indoor/outdoor concentration ratios.
2. Complaint vs. non-complaint areas or affected vs. non-affected areas.
3. Consider air exchange rates and activity levels in a building structure, weather, and season of the year.
4. Rank order assessment and concentration (e.g. Spores/m³ of air) of the fungi.
5. Predominant fungal genera: Are there water indicator microorganisms present, such as but not limited to: *Chaetomium*, *Stachybotrys*, *Rhodotorula*, *Trichoderma*, and *Scopulariopsis*.
6. Generally the fungal counts indoors should be lower than outdoor counts and the types of fungi found indoors should be similar to outdoors.
7. There is always a potential bias from infiltration of outdoor air, poor housekeeping, excessive indoor relative humidity, or potential contamination sources (e.g. water intrusion through a basement wall) that may negatively influence post remedial verification (PRV) or clearance levels.
8. The investigator should look for various patterns among the indoor types of molds detected:
 - a. Increased levels of primary (1st) colonizers in damp or moisture intrusion areas of homes or commercial buildings: ***Aspergillus/Penicillium*** or ***Cladosporium*** are usually noted.
 - b. ***Chaetomium*** or ***Stachybotrys*** are tertiary (3rd) colonizers of indoor materials and are usually associated with chronic long standing water/moisture issues in a building.
 - c. The presence of **hyphal fragments** or **fruiting structures** noted on spore trap samples usually indicates amplification (growth) of fungi on building substrates.
 - d. **Ascospores** and **basidiospores** noted on indoors spore trap samples most often represent the entrance of inadequately filtered outdoor air. During inclement weather, remember to note time, temperature, and season. Most indoor materials will not support the growth of these fungi.
9. When unidentified hyaline (clear) or dematiaceous (dark-pigmented) conidia are noted on a spore trap sample, it indicates that no particular fungus can be identified. These fungal conidia may represent such yeast-like fungi as *Aureobasidium*, *Sporidiobolus*, unidentifiable *Acremonium* species, Basidiomycetes (basidiospores), and Ascomycetes (ascospores).
10. Keep in mind when interpreting spore trap sample reports, that indoor levels may be higher than corresponding outdoor levels (winter time in the Northern U.S.) with a predominance of *Aspergillus/Penicillium* or *Cladosporium* conidia with no significant amplification of any molds.

SPORE TRAP GUIDELINES FOR INDOOR MICROBIAL CONTAMINATION

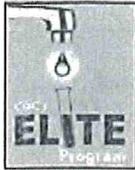
DEBRIS RATING for SPORE TRAP ANALYSIS (using 600X magnification) (Air-O-Cell, Micro 5, Allergenco D, Cycllex d, VersaTrap, etc.)		
DEBRIS RATING	CONDITIONS FOR REPORTING DEBRIS RATING	SIGNIFICANCE
0	A visible trace, including particulates and debris, is not observed.	Indicates the sample was a blank, the area is exceptionally clean, or improper sampling occurred.
1	Debris is present and <10% of the average viewing field is obscured.	Minimal amount of debris is observed.
2	Debris is present and 10% to <40% of the average viewing field is obscured.	Low amount of debris is observed, counts may be affected.
3*	Debris is present and 40% to 75% of the average viewing field is obscured.	Moderate amount of debris is observed, counts of conidia/hyphal fragments may be underestimated.
4*	Debris is present and >75% of the average viewing field is obscured.	High amount of debris is observed, counts are estimated.
5* See Relative Abundance chart below	Excessive debris is present	Periphery of trace analyzed. Relative amounts of conidia/hyphal fragments noted. Suggest recollection.
6	Slide completely obscured by excessive debris.	Unable to analyze. Recollect sample.

* A rating of 3 or greater indicates that the accuracy of the analysis is likely affected.

RELATIVE ABUNDANCE of OBSERVED CONIDIA & HYPHAL FRAGMENTS	
RATING	Relative Amounts of Observed Fungal Structures per high power field (600X)
Rare	0-1
Few	2 to 5
Moderate	6 to 10
Many	11 to 100
Numerous	>100

SKIN CELL ANALYSIS	
SKIN CELL RATING	Relative Amounts of Observed Skin Cells per high power field (600X)
0	No skin cells present
1	0-1
2	2 to 5
3	6 to 10
4	11 to 15
5	≥16

End of Report



U.S. Micro-Solutions, Inc.

1075 S Main Street, Suite 104
Greensburg, PA 15601
PH: 724-853-4047 FAX: 724-853-4049



supplies@usmslab.com

LABORATORY TEST REQUEST – CHAIN OF CUSTODY

Customer Name: KU Resources, Inc.	Phone #: 412-469-9331	FAX #: 412-469-9336
Address: 22 South Linden Street	City: Duquesne	State: PA Zip: 15110
Attention To: Ryan Dowling	E-Mail: rdowling@kuresources.com	
Sample Obtained By: <u>R. Dowling</u>	Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-Mail	PO# Proposal #
Project Name/Number: <u>Swissvale Municipal Building</u>		
Turn-Around-Time: (Spore Trap & DME Only)*	Standard (48-72 hr) <input checked="" type="checkbox"/>	Next Day (24 hr, M-F) <input type="checkbox"/> Same Day (6 hr, M-F) <input type="checkbox"/> 3-Hour (M-F) <input type="checkbox"/> Saturday <input type="checkbox"/>

Comments:

Sample #	Sample Date / Time	Sample Code	Analysis Code	Sample Location & Description	Sample Volume/Area
SWISS-ST-01	5/20/20 945	ST	SPT	POLICE LOCKER ROOM	45
SWISS-ST-02	5/20/20 955	ST	SPT	CHIEF OFFICE HALLWAY	45

Relinquished By (Customer-MUST sign): <u>[Signature]</u>	Date & Time: 05-20-2020	Lab #: H50
Received By (Lab Use Only): <u>[Signature]</u>	Date & Time: 05-20-20 1500	Lab #: 53913-20

Rev. 12-14-17

Sample Code	
A	Air Plate
B	Bulk
ST	Spore Trap
S	Swab
W	Water
T	Tape
O	Other

Analysis Code			
DME	Direct Microscopic Exam	HPC	Heterotrophic Plate Count
SPT	Spore Trap	MYC	Mycobacteria Culture
FUNG	Fungal Culture – Counts w/ ID of top 3 organisms	STA	Staphylococcus / MRSA Culture
BACT	Bacterial Culture – Counts w/ ID of top 3 organisms	DUO	Duodenoscope Culture
SSQT	Sewage Screen (quant) – Counts w/ Identification <i>E. coli, coliforms, enterococci (fecal streptococci)</i>	HCU	Heater/Cooler Water Culture <i>includes mycobacteria, HPC, coliforms, & P. aeruginosa</i>
SSQL	Sewage Screen (qualitative) – Identification of <i>E. coli, coliforms, enterococci (fecal streptococci)</i>	PSA	<i>Pseudomonas aeruginosa</i> Culture
COL	Colilert – Presence/absence of <i>E. coli, coliforms</i>	IDS	Species Identification by MALDI-TOF



KU Resources, Inc.

Innovative Solutions, Outstanding Support.

www.kuresources.com

APPENDIX

D

CHIMNEY INSPECTION



Advance Chimney Sweeps Inc
459 Connellsville St, Suite 7
Uniontown PA 15401
800-822-2131
www.advancechimney.com
License # PA034561 & WV041543



CUSTOMER Name / Service address:

MASSARELLI EXCAVATING
7560 Roslyn St
Pittsburgh PA 15218

Billing address / Phone / Email:

7560 Roslyn St
Pittsburgh PA 15218
1-724-882-6665 Mobile

natesyput84@gmail.com

ESTIMATE

Job no.: 12739
Service date: 5/4/2020
Service by: Christopher Depp
Note:

DESCRIPTION OF PROPOSED WORK

Specifications / Notes

Recommendations

Scaffolding will need to be set up on upper roof to access the chimney and an opening will need to be created through the exterior wall of chimney to access flue to remove obstruction and/or restriction to allow the appliances connected to chimney to vent adequately. Upon removing obstruction or restriction, we will then brick the opening shut but the mortar and brick color will not match due to the age of chimney. Please note that it is likely that this chimney will need lined and at this point throughout the process we will be able to provide an estimate to reline as necessary at an additional cost.

(Continued on next pages)

Recommendation(s) continued:

Chimney Sweeps Inc, 459 Connellsville Street, Suite 7, Uniontown, PA 15401Advance

Chimney Sweeps Inc, 459 Connellsville Street, Suite 7, Uniontown, PA 15401Advance

The customer has 3 business days to cancel this agreement from the date on which it was signed.

All work to meet industry standards. All materials are as warranted by the manufacture. Advance Chimney Sweeps Inc shall provide a minimum of a one year warranty, but if you get an annual inspection every year than your workmanship warranty shall be extended to the length of the manufactures warranty or which ever is greater of the two. In the event that you fail to get an annual inspection, then your workmanship warranty shall only be for a period of one year and the manufactures warranty shall be as specified by the manufacture. Chimney sweep and repair can be dusty and sooty in nature, so it shall be the responsibility of the customer and or homeowner to cover and or relocate any personal belongings or valuables located inside the home as well as outside of the home. On the interior of the home it shall include but not be limited to furniture, carpets, electronics and any other personal belongings that are located within 6 ft of where such work is being performed , on the exterior of the home it shall include but not be limited to central air conditioners, furniture or property on porches, decks or lawn furniture, automobiles and any other personal belongings that are located within 20 ft of where such work is being performed and this shall include notifying neighbors with adjoining properties to close windows, move vehicles and turn off central air conditioners. In the event that your chimney collapses internally or externally while it is in the process of being repaired by Advance Chimney Sweeps Inc, then Advance Chimney Sweeps Inc shall not be responsible financially or otherwise for any such damages caused directly or indirectly as a result of debris from a collapsed chimney or the chimney itself, due to the neglected condition the chimney was in prior to the work being initiated. Advance Chimney Sweeps Inc does not warrant against moisture, condensation or leaks and no such warranties or guarantees shall be implied. Upon completion of your project we may have closed your damper, so it is important for you to open your damper prior to using your fireplace or your house will likely fill with smoke. If a legal dispute should arise, then all legal disputes shall be litigated in Fayette County Pennsylvania and court cost associated to any such claims shall be the responsibility of each individual party involved in such claims. By signing this document, you are acknowledging that you understand and agree to the terms and conditions within this section and all other sections contained within this agreement and or proposal.

ITEMS LIST

Description	Qty	Unit Price	Amount
Scaffolding fee	1	2,000.00	2,000.00
Obstruction removal	1	1,800.00	1,800.00
		Subtotal	3,800.00
		Sales Tax	0.00
		Total	\$3,800.00

Payment Terms:	One-Third Down Payment to start work:	\$1,266.67
	Two-Thirds Final Payment upon completion:	\$2,533.33

Technician: Christopher Depp
 Certificate No.:



 Technician Signature

I HEREBY AUTHORIZE THE ABOVE WORK TO BE DONE AS SO ORDERED AND OUTLINED ABOVE. IT IS AGREED THAT THE SELLER WILL RETAIN TITLE TO ANY EQUIPMENT OR MATERIAL FURNISHED UNTIL COMPLETE PAYMENT HAS BEEN MADE. IF SETTLEMENT IS NOT MADE AS AGREED, THE SELLER HAS THE RIGHT TO REMOVE EQUIPMENT AND MATERIAL WITHOUT BEING HELD RESPONSIBLE FOR ANY DAMAGES RESULTING FROM THE REMOVAL OF EQUIPMENT.

Date 5/4/2020

 Customer Authorization Signature

