



Chenault Drive Thermal Roof Report

Environmental Conditions During Inspection

Sunset: 8:33 PM

Wind speed: 5 mph

Ambient temperature: 81 F

Humidity: 62%

Note: For brevity, parameter information is only included for the first thermogram.

Analysis

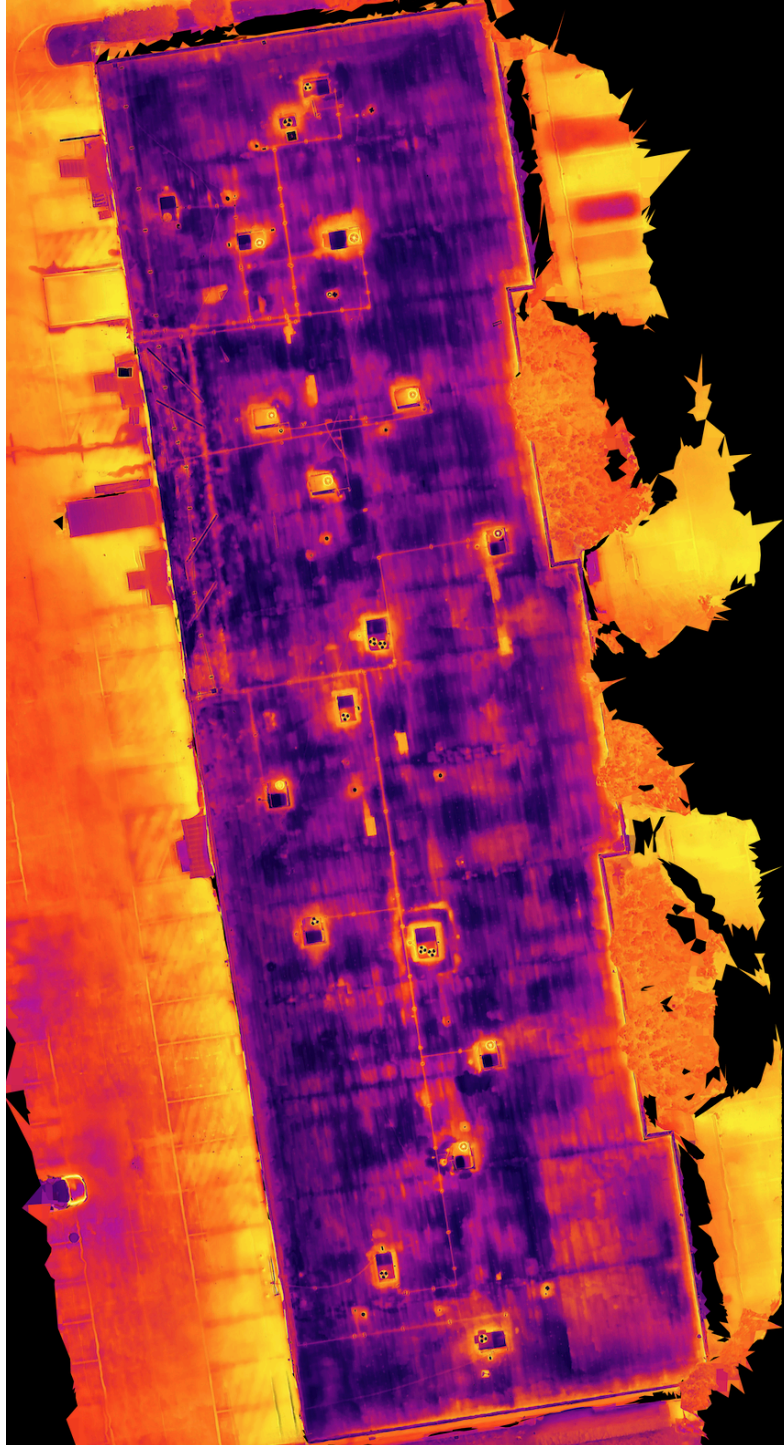
Based on the thermal anomalies observed/captured during the inspection, it is reasonable to conclude that a significant portion of the roof shows indications of water ingress and obvious roof damage.

The thermal data indicates suspected water ingress concentrated along all edges of the roof. There also appears to be moisture concentrated primarily in the southern and eastern portions of the roof, with a fair amount being visible around other portions of the north end of the roof. The western edge of the roof shows signs of suspected moisture ingress co-located with an area of obvious visible roof damage.

There are several HVAC units on top of the roof, and the thermal data indicates noticeable moisture ingress surrounding several units. In some areas, it is difficult to determine whether the suspected moisture is surface moisture or moisture that has penetrated the roof; in any case, it is reasonable to conclude that there is water ingress around a fair number of HVAC units.

Thermogram Interpretation

The following inspection photos contain one color palette. The relationship between color and temperature is depicted in the bar to the right of each thermogram. Areas of suspected moisture ingress appear warmer than the surrounding roof. And please note that, while some specific temperature measurements are included, exact temperatures are of secondary importance to overall visible temperature anomalies depicted by obvious color differences in the thermograms.

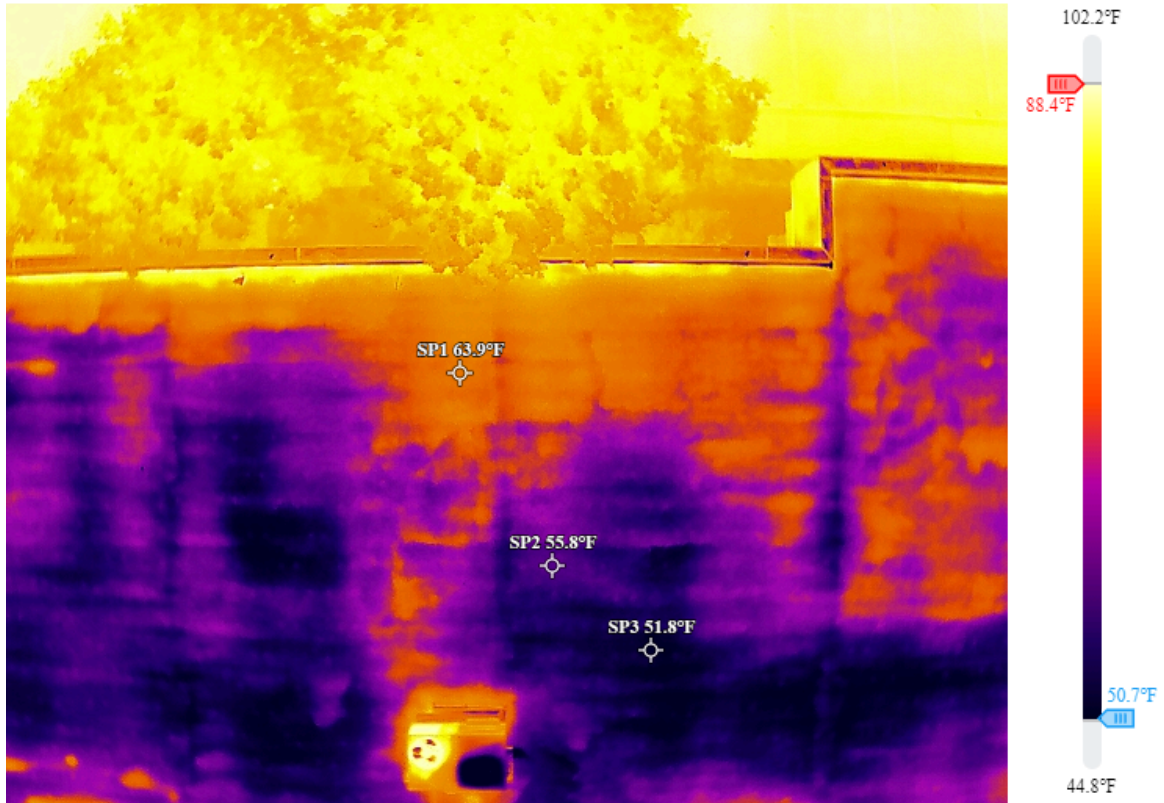


Above is a 2D thermal map of the roof. This map is comprised of 300 individual photos that have been stitched together to create a complete map of the roof overlaid with thermal information.

Prior to evaluating the following inspection photos, this map provides a comprehensive look at the condition of the roof in its entirety in terms of suspected moisture intrusion.



Chenault Drive



East 1.JPG

2024/06/05 21:55:26

Measurements

SP1	VALUE	63.9°F
SP2	VALUE	55.8°F
SP3	VALUE	51.8°F

Parameters

Distance	15 m
Humidity	62%

Emissivity	0.85
Reflected Temp	81.0°F

Annotations

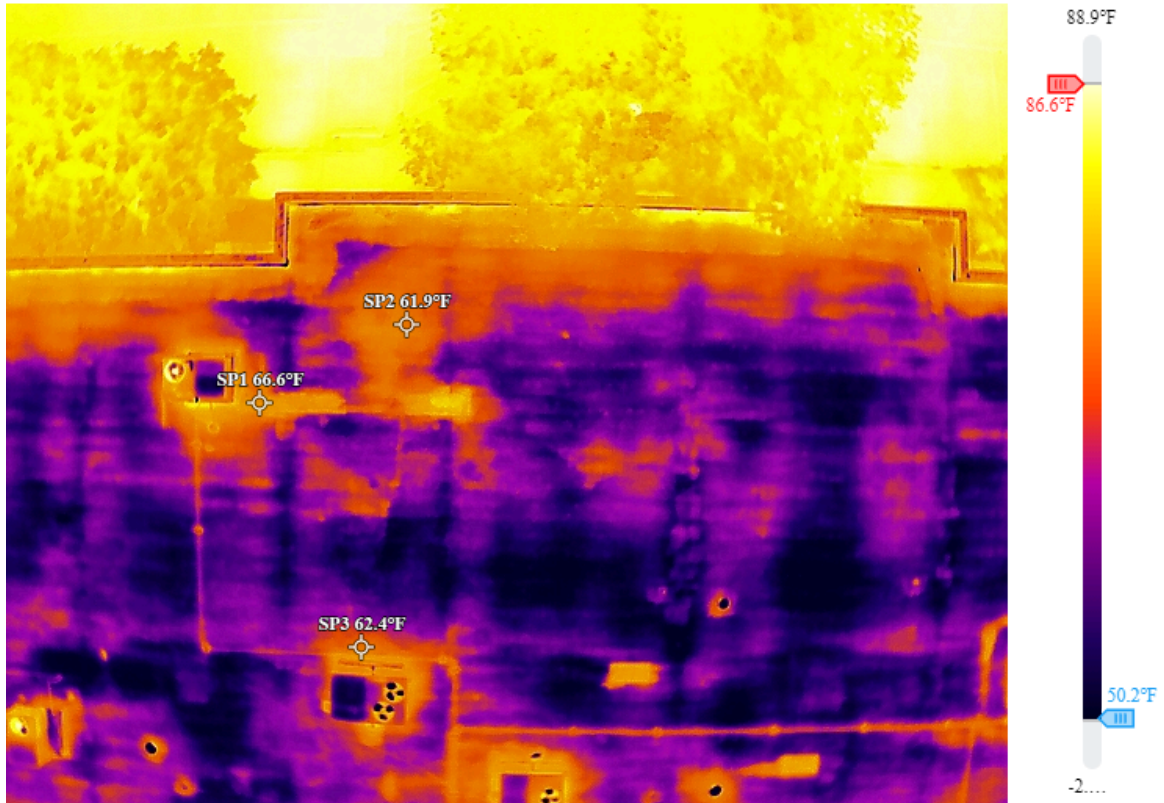
KEY	VALUE
SP1	Moisture
SP2	No moisture
SP3	No moisture

Remarks

Significant amount of suspected moisture concentrated along eastern edge.



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East 2.JPG

2024/06/05 21:53:27

Measurements

SP1	VALUE	66.6°F
SP2	VALUE	61.9°F
SP3	VALUE	62.4°F

Annotations

KEY	VALUE
SP1	Moisture near HVAC

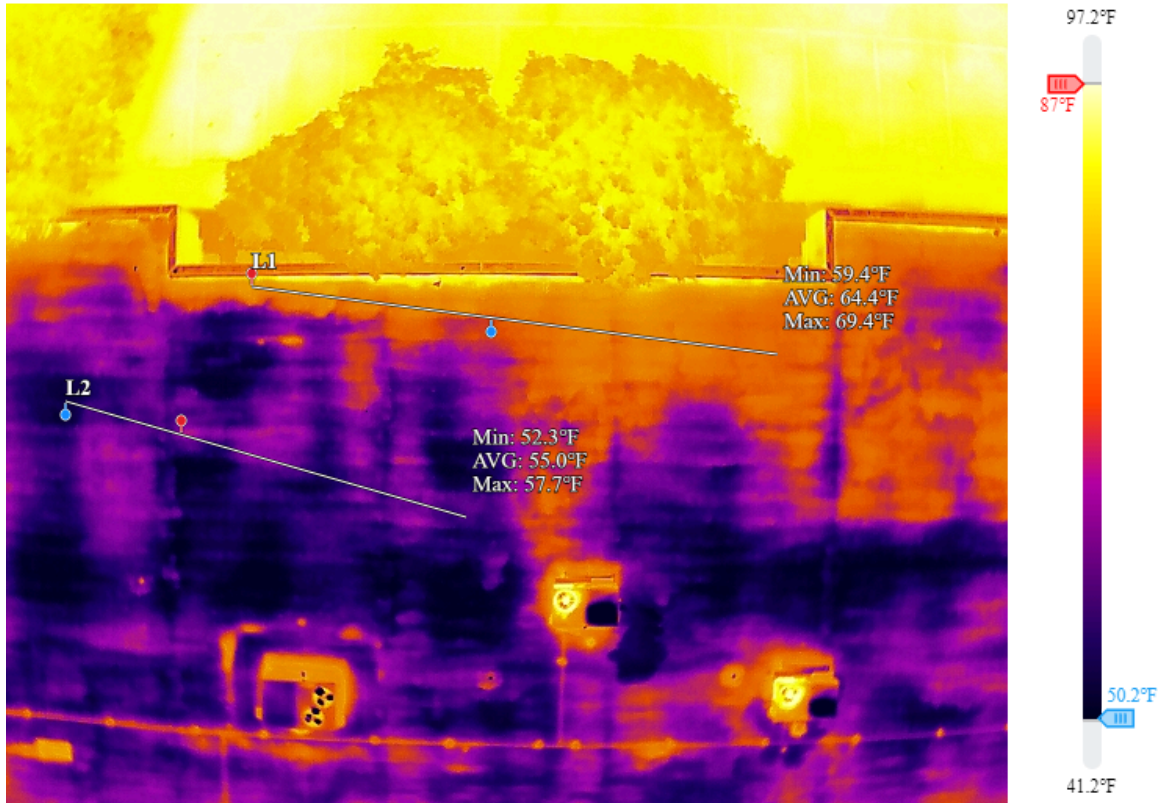
SP2	Moisture near edge
SP3	Moisture neat HVAC

Remarks

Suspected moisture near HVAC units.



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East 3.JPG

2024/06/05 21:53:53

Measurements

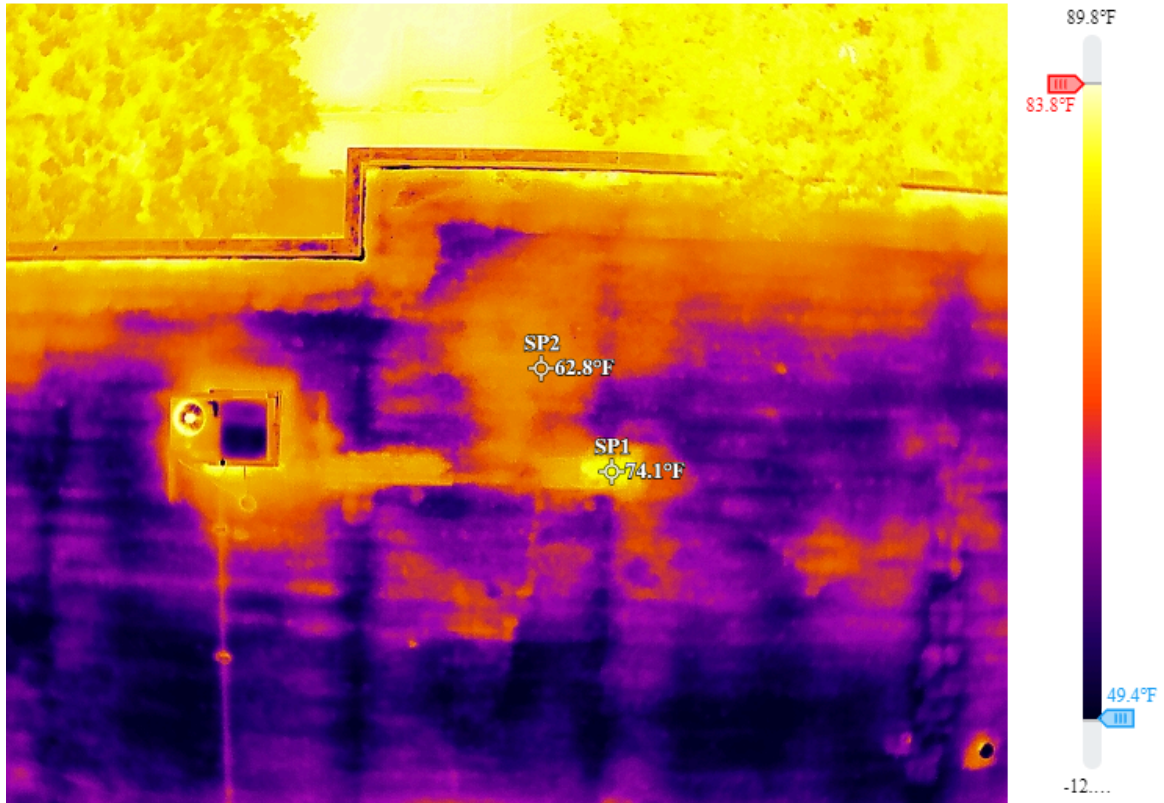
L1	MIN	59.4°F
	AVERAGE	64.4°F
	MAX	69.4°F
L2	MIN	52.3°F
	AVERAGE	55.0°F
	MAX	57.7°F

Annotations

KEY	VALUE
L1	Moisture
L2	No moisture



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East 4.JPG

2024/06/05 21:56:03

Measurements

SP1	VALUE	74.1°F
SP2	VALUE	62.8°F

Annotations

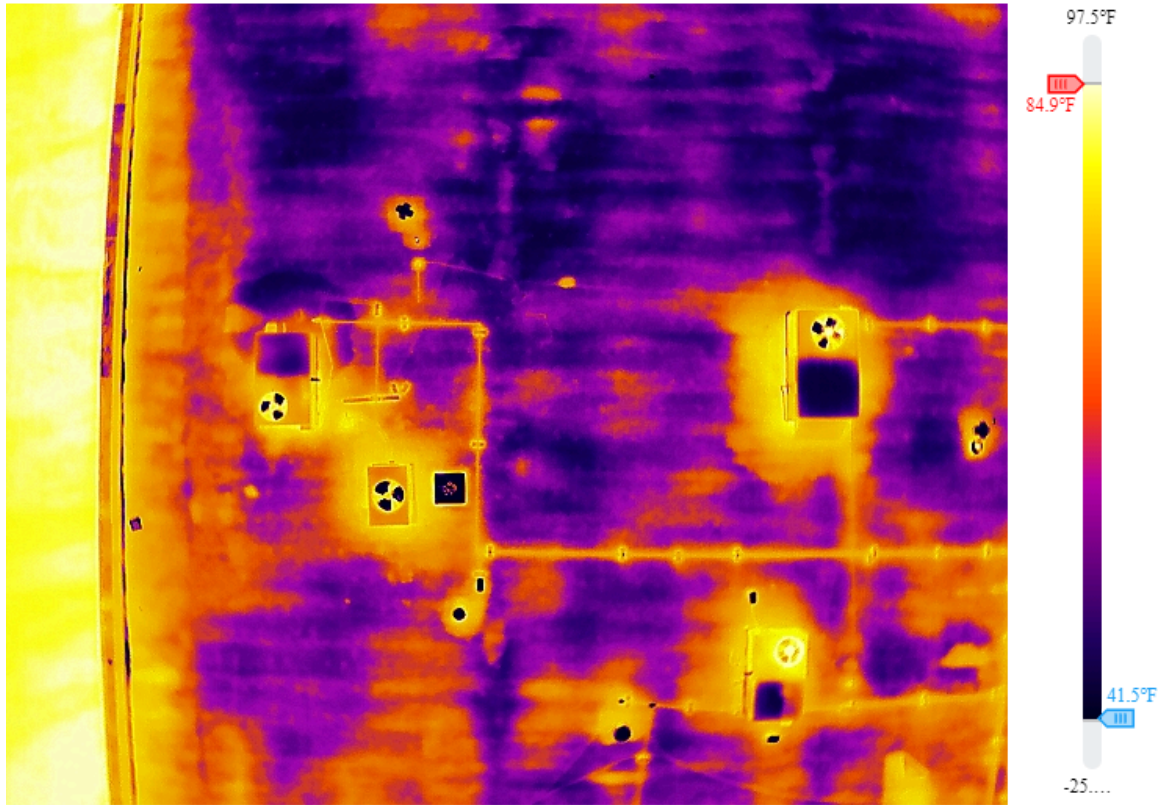
KEY	VALUE
SP1	Surface moisture
SP2	In-roof moisture

Remarks

Due to notable temperature variation, SP1 is likely surface moisture.



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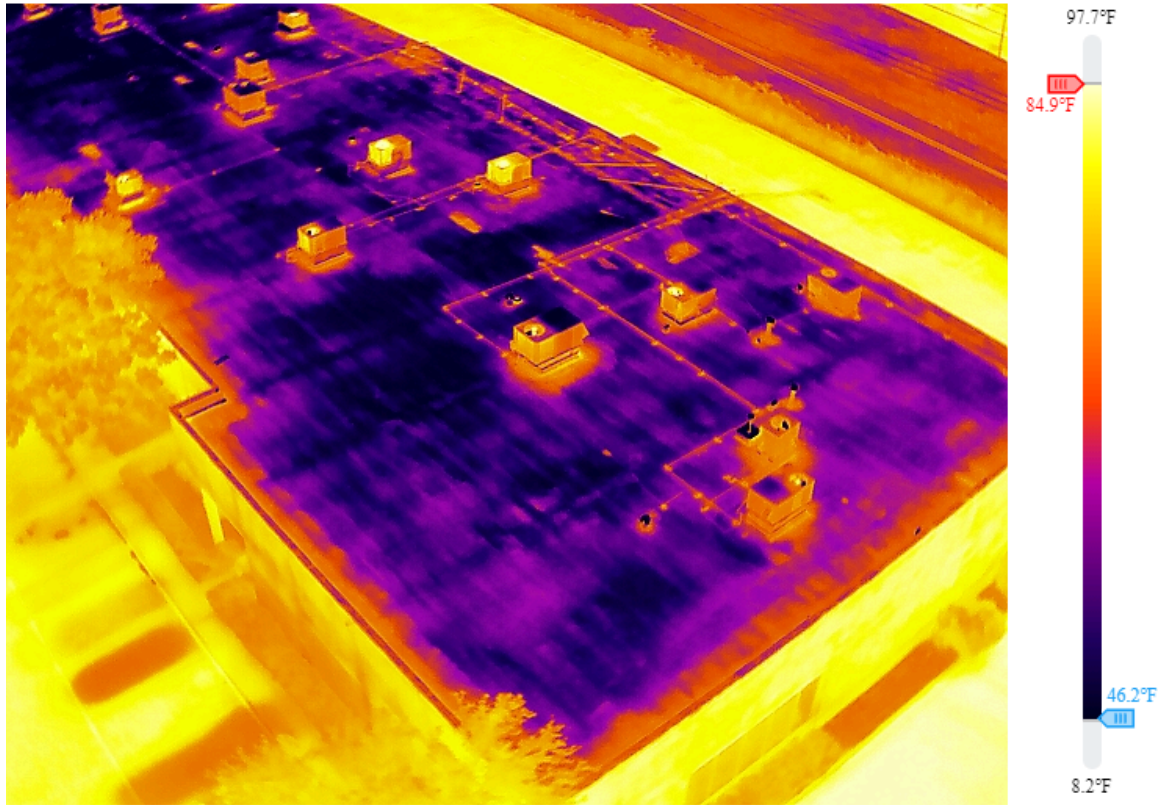


North.JPG

2024/06/05 21:56:55



Chenault Drive

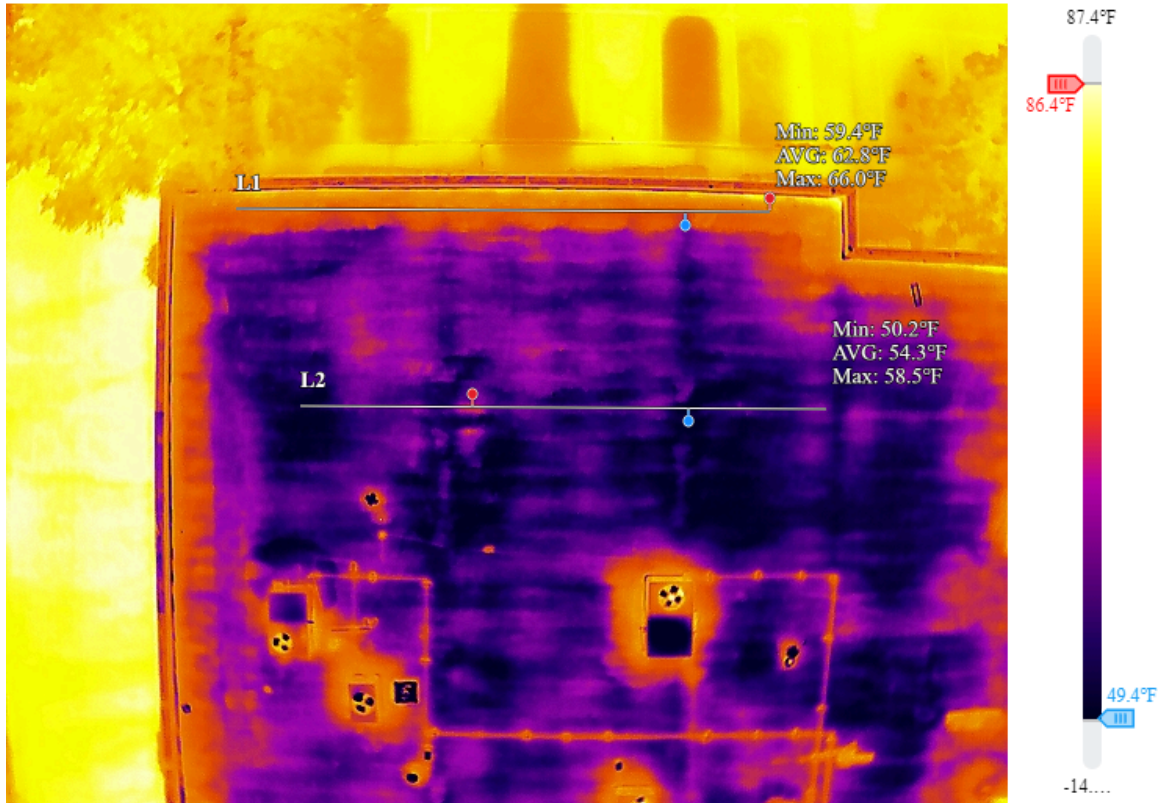


Northeast Corner.JPG

2024/06/05 22:04:12



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Northeast.JPG

2024/06/05 21:52:45

Measurements

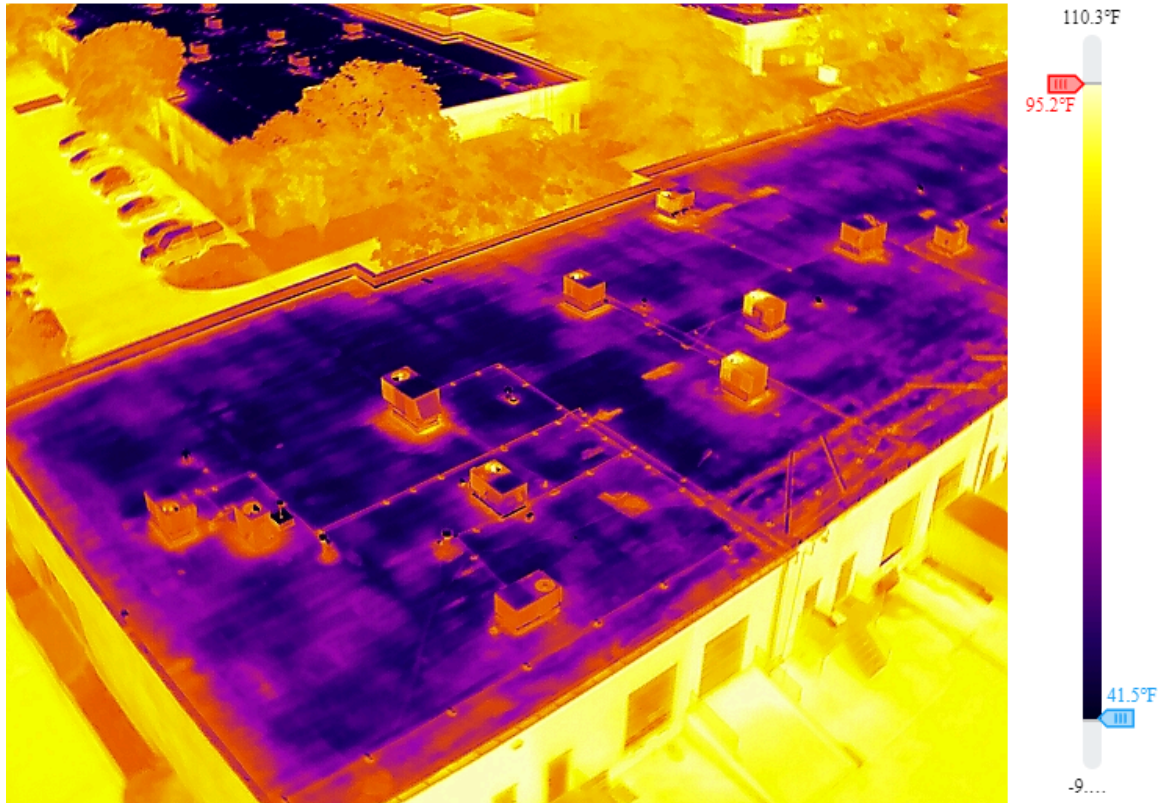
L1	MIN	59.4°F
	AVERAGE	62.8°F
	MAX	66.0°F
L2	MIN	50.2°F
	AVERAGE	54.3°F
	MAX	58.5°F

Annotations

KEY	VALUE
L1	Moisture
L2	No moisture



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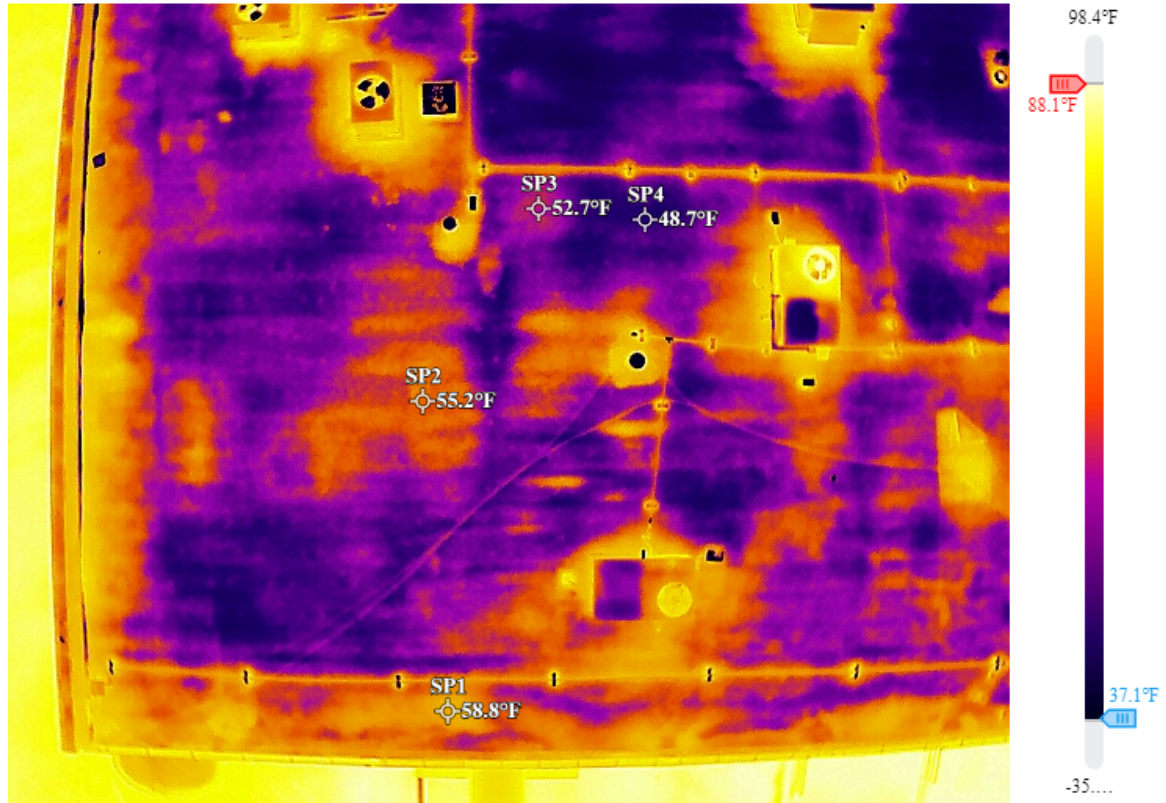


Northwest Corner.JPG

2024/06/05 22:04:34



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Northwest.JPG

2024/06/05 21:57:29

Measurements

SP1	VALUE	58.8°F
SP2	VALUE	55.2°F
SP3	VALUE	52.7°F
SP4	VALUE	48.7°F

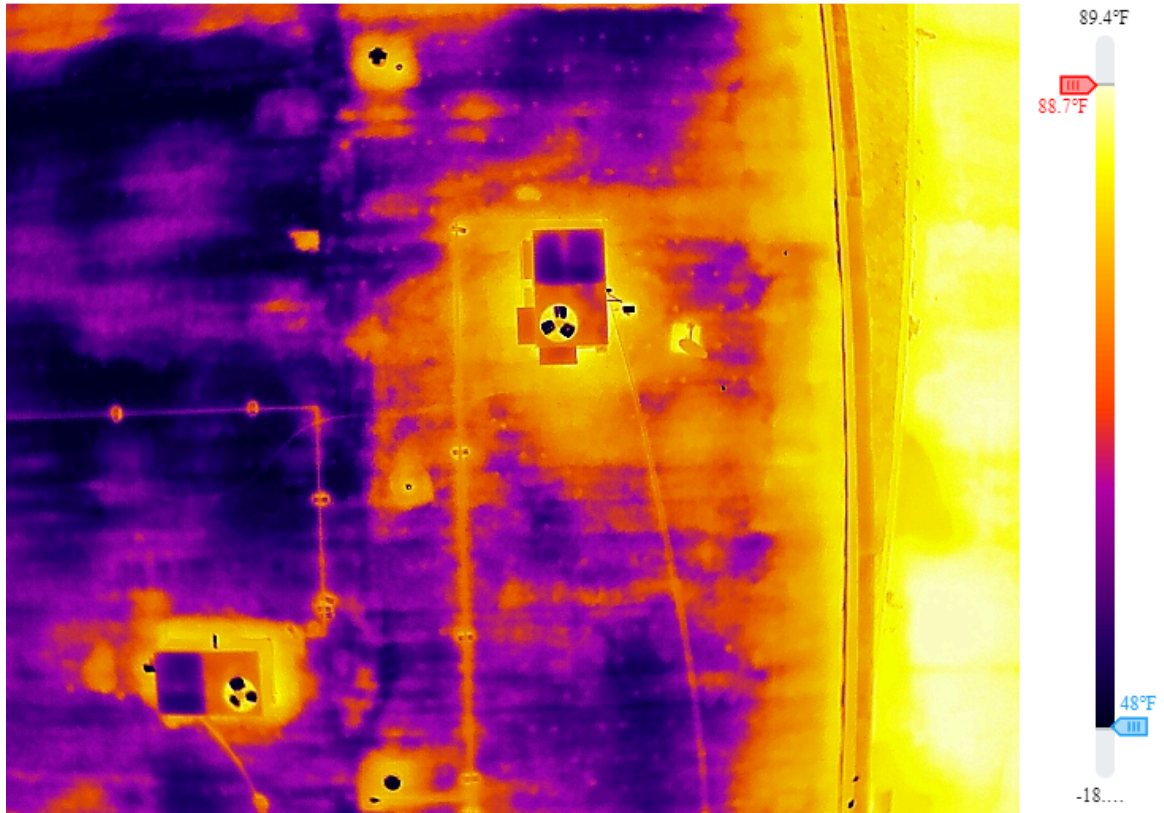
Annotations

KEY	VALUE
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SP1	Most moisture
SP2	Moderate moisture
SP3	Least moisture
SP4	No moisture



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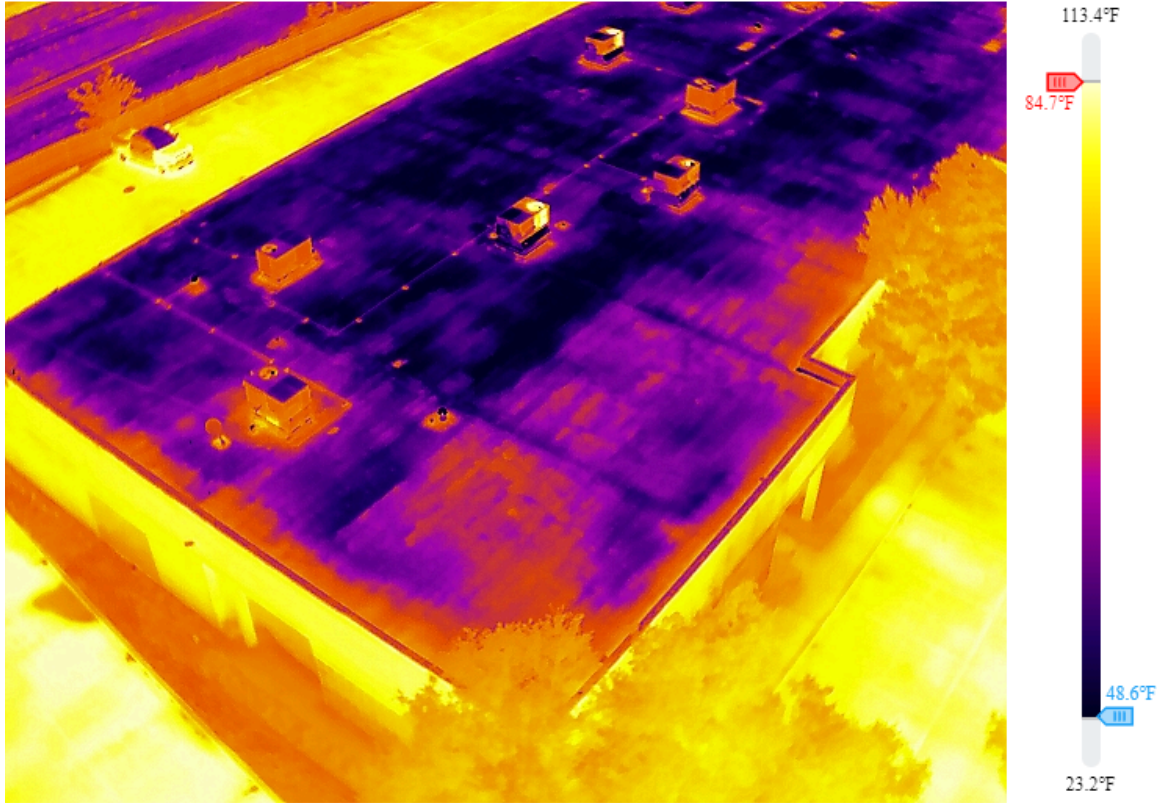


South.JPG

2024/06/05 21:49:19



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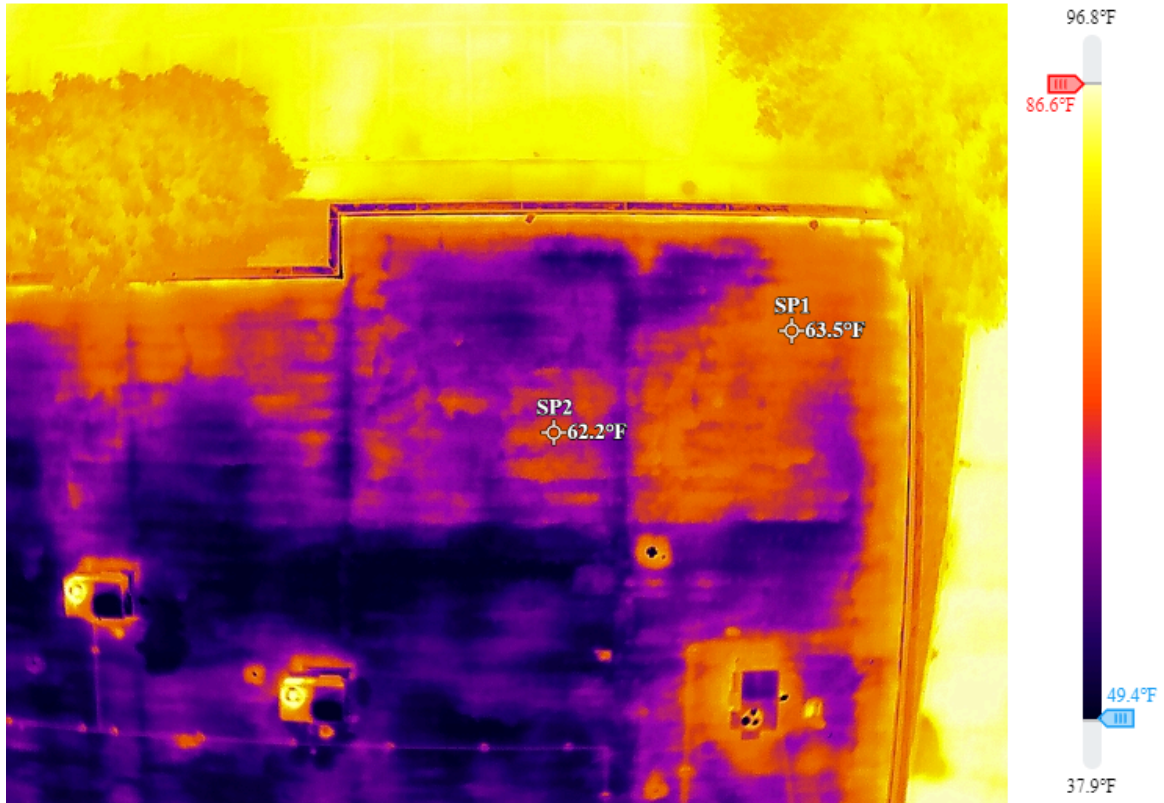


Southeast Corner.JPG

2024/06/05 22:03:30



Chenault Drive



Southeast.JPG

2024/06/05 21:54:10

Measurements

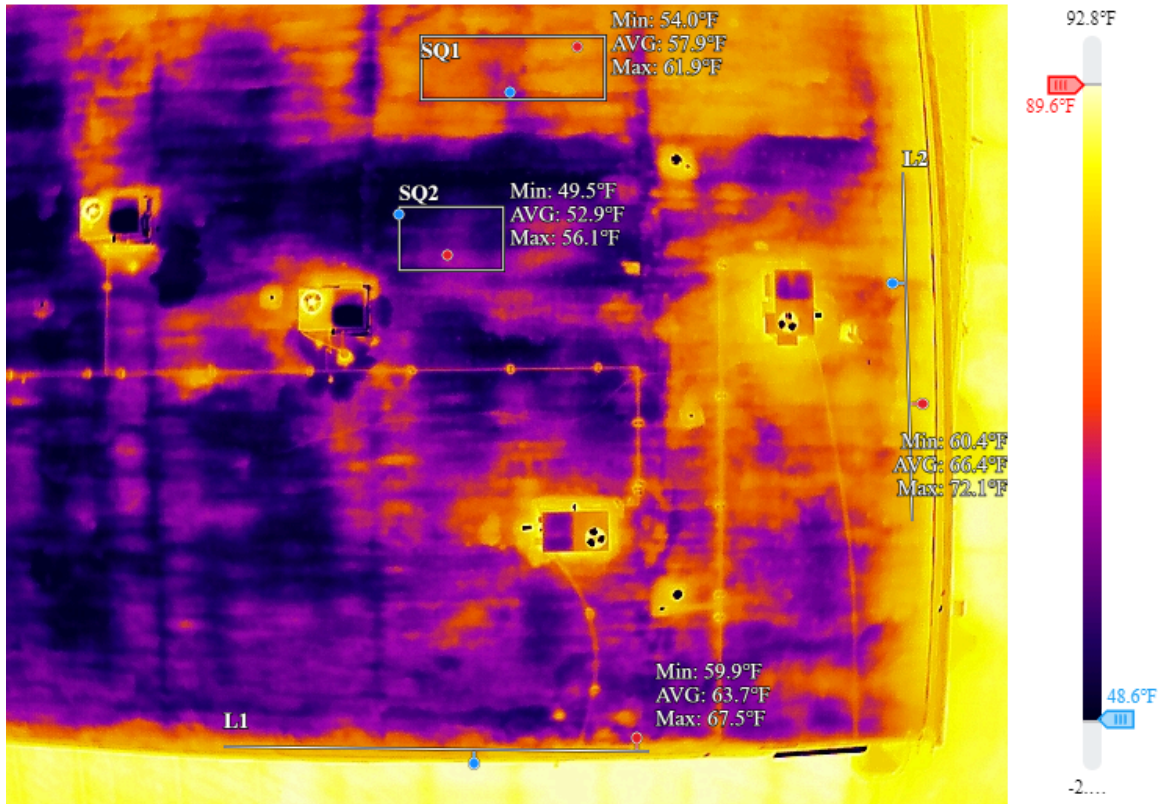
SP1	VALUE	63.5°F
SP2	VALUE	62.2°F

Annotations

KEY	VALUE
SP1	Moisture
SP2	Moisture



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Southwest 1.JPG

2024/06/05 21:50:46

Measurements

L1	MIN	59.9°F
	AVERAGE	63.7°F
	MAX	67.5°F
L2	MIN	60.4°F
	AVERAGE	66.4°F

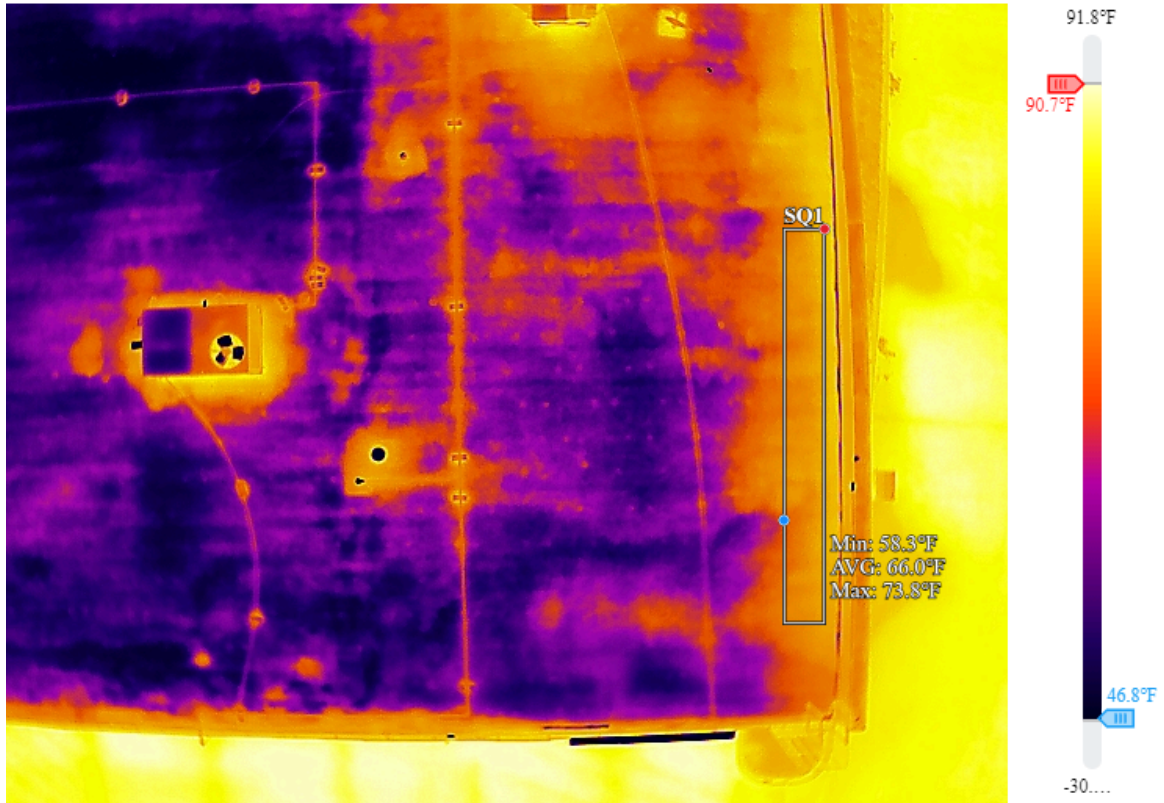
	MAX	72.1°F
SQ1	MIN	54.0°F
	AVERAGE	57.9°F
	MAX	61.9°F
SQ2	MIN	49.5°F
	AVERAGE	52.9°F
	MAX	56.1°F

Annotations

KEY	VALUE
L1	West edge moisture
L2	South edge moisture
SQ1	Moisture
SQ2	No moisture



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Southwest 2.JPG

2024/06/05 21:49:00

Measurements

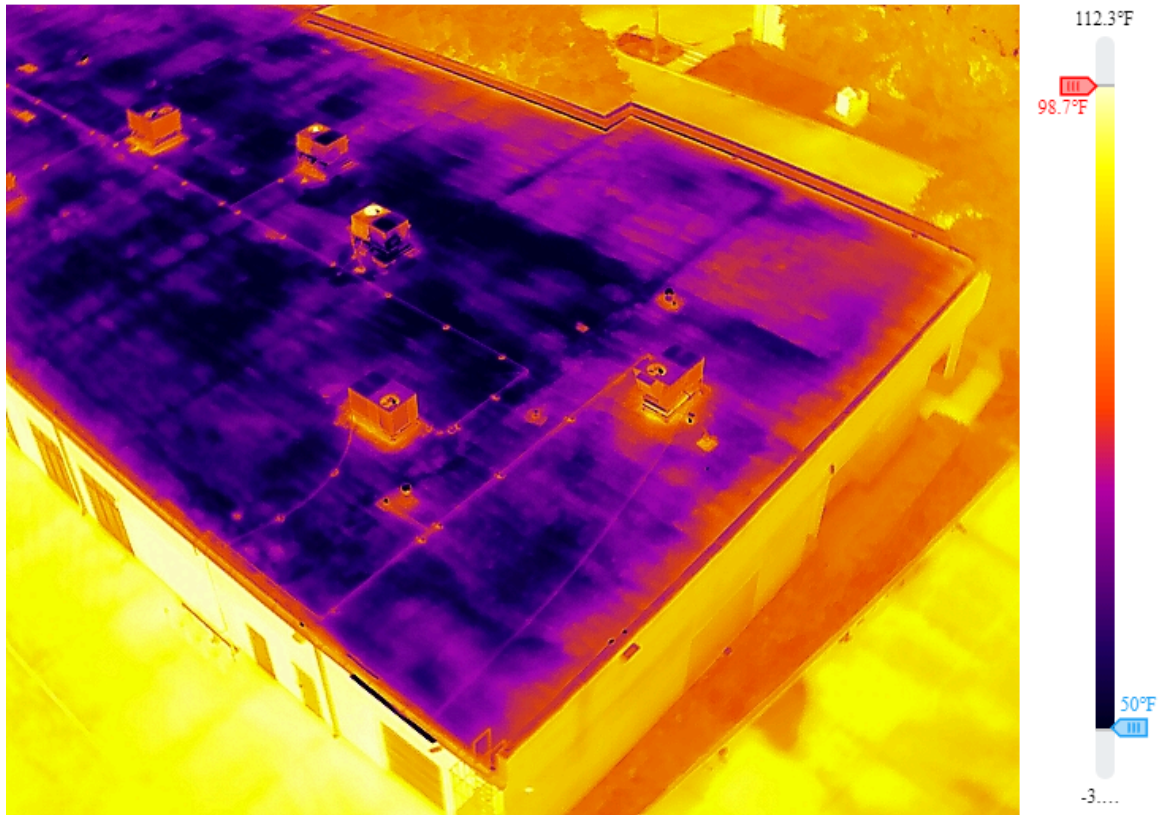
SQ1	MIN	58.3°F
	AVERAGE	66.0°F
	MAX	73.8°F

Annotations

KEY	VALUE
SQ1	South edge moisture



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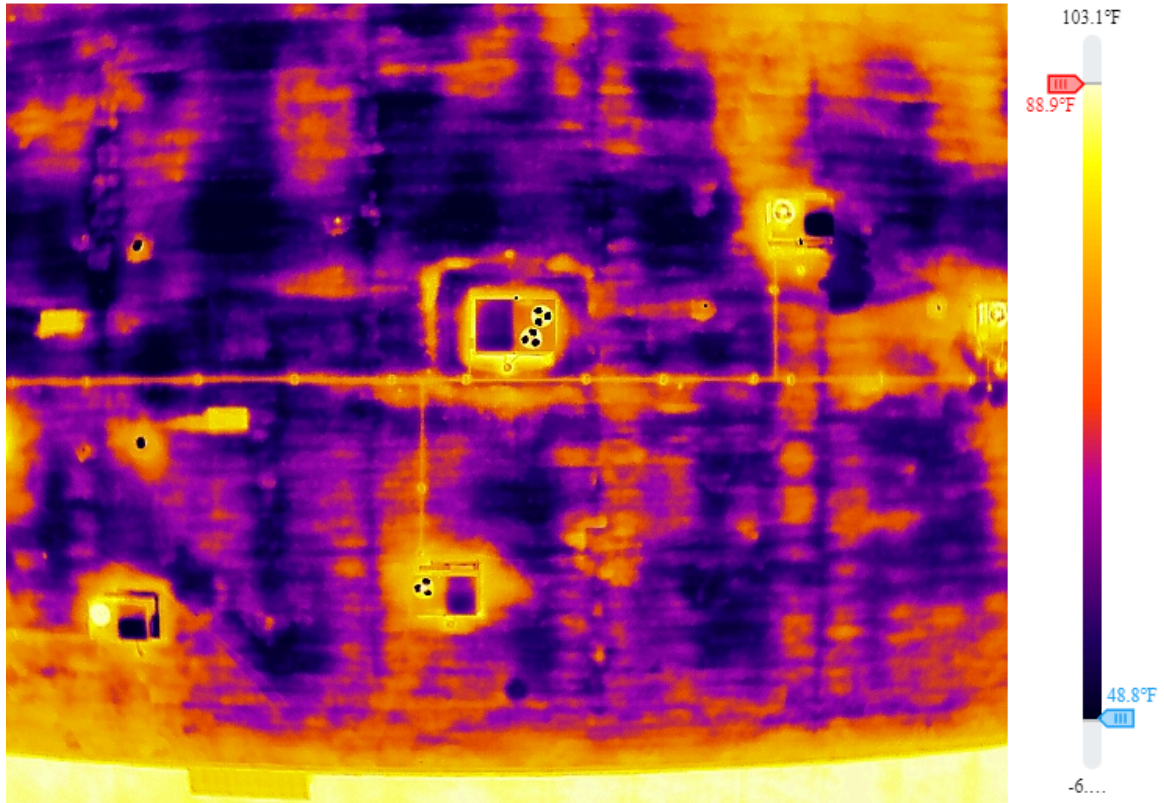


Southwest Corner.JPG

2024/06/05 22:03:05



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West 1.JPG

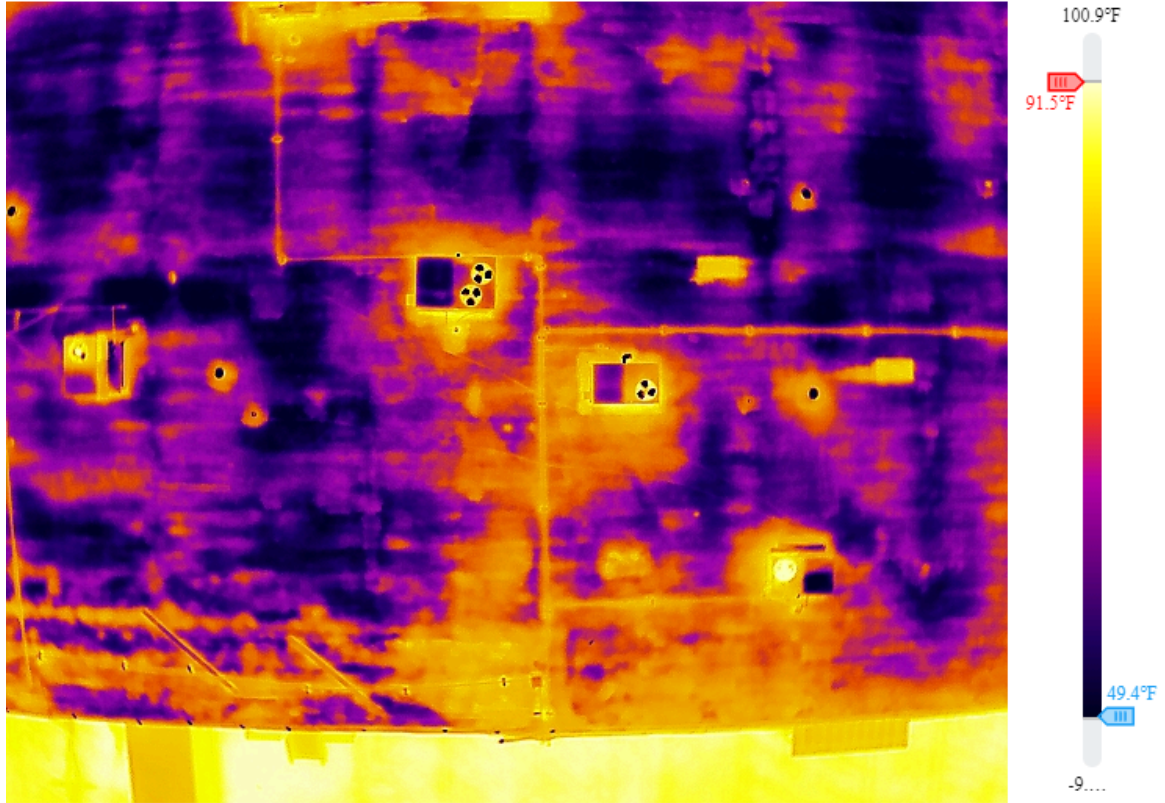
2024/06/05 21:51:15

Remarks

Significant indicated moisture present along western + central portions of roof.



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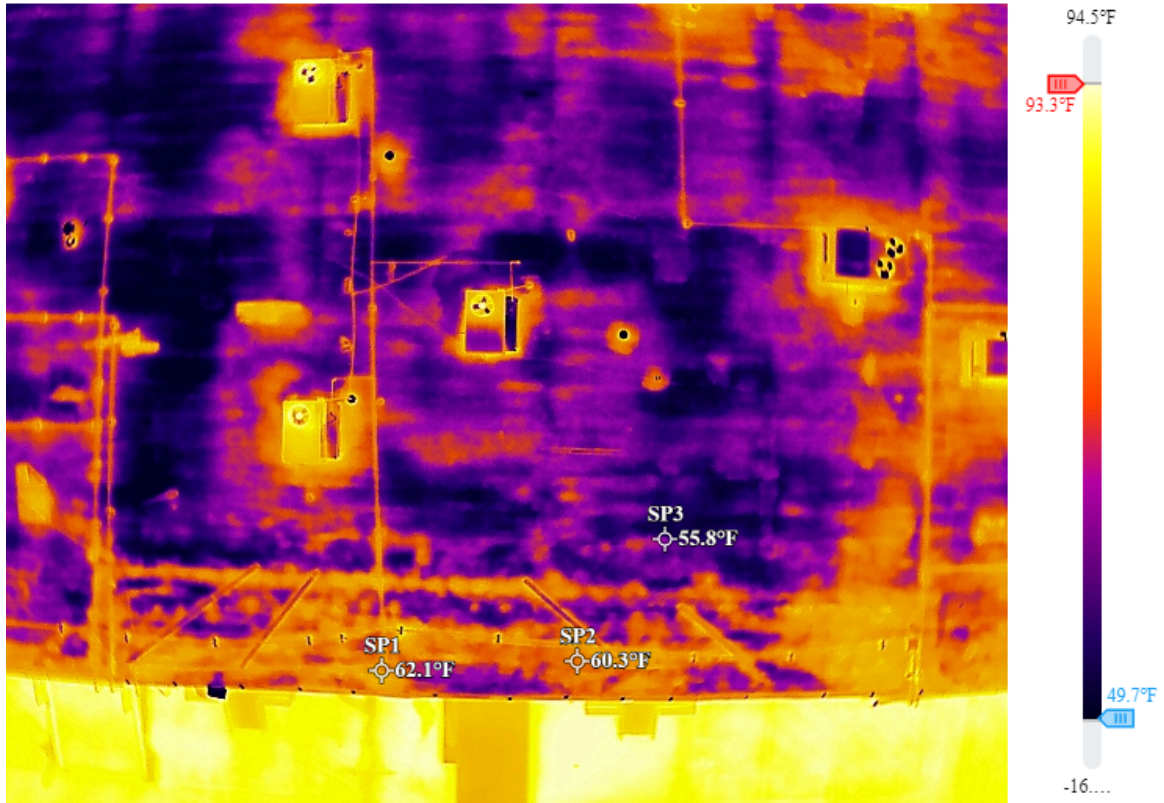


West 2.JPG

2024/06/05 21:51:40



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West 3.JPG

2024/06/05 21:51:54

Measurements

SP1	VALUE	62.1°F
SP2	VALUE	60.3°F
SP3	VALUE	55.8°F

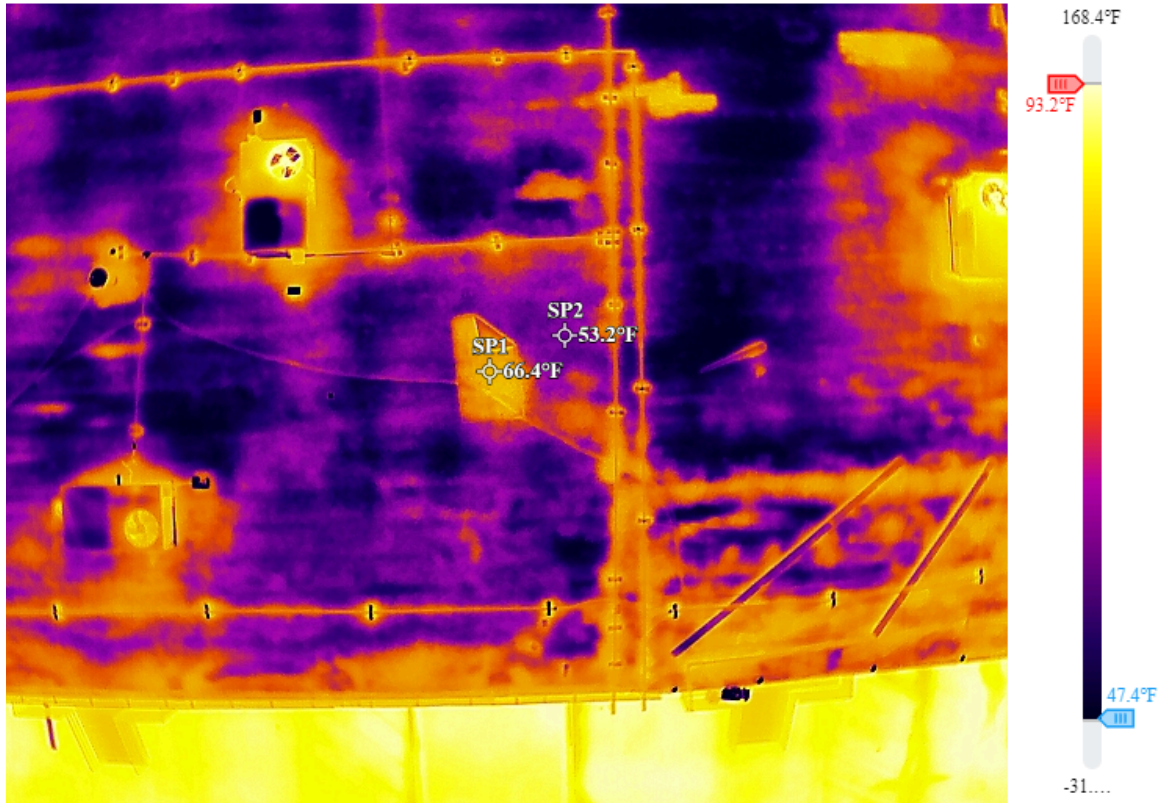
Annotations

KEY	VALUE
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SP1	Moisture
SP2	Moisture
SP3	No moisture



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West 4.JPG

2024/06/05 21:58:20

Measurements

SP1	VALUE	66.4°F
SP2	VALUE	53.2°F

Annotations

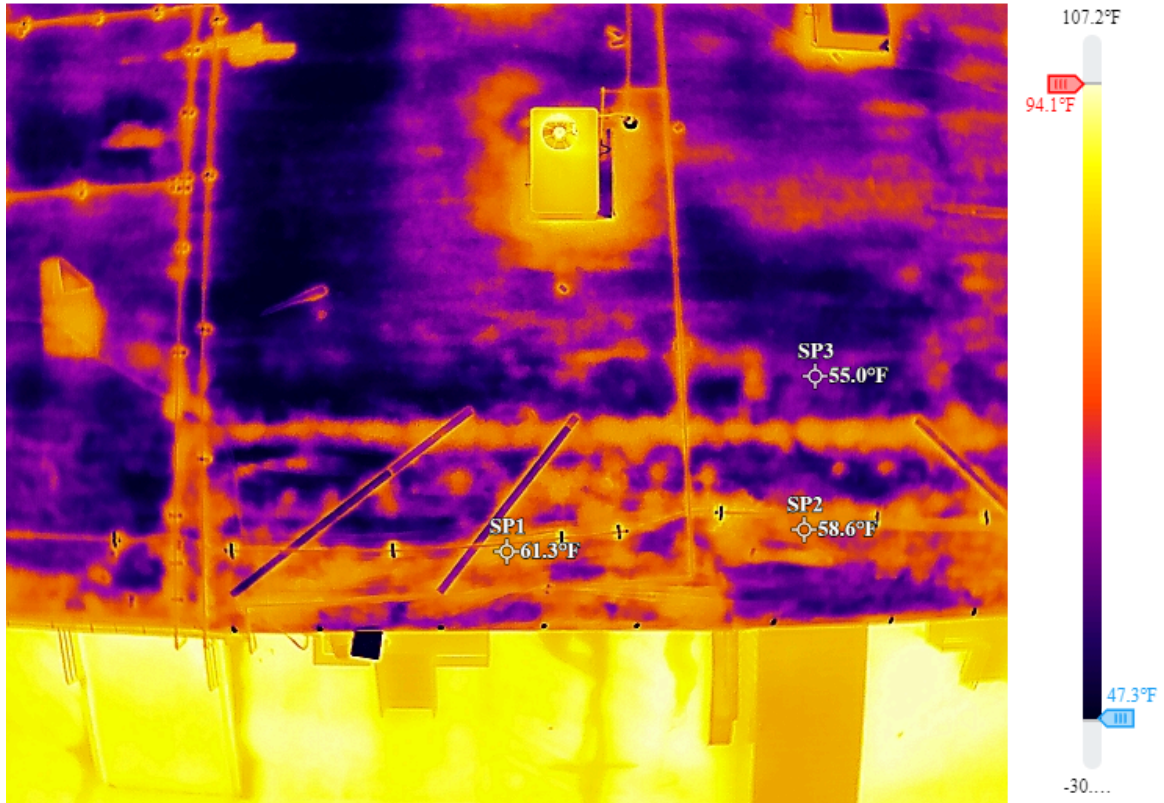
KEY	VALUE
SP1	Moisture/suspected damage
SP2	No moisture

Remarks

Suspected surface damage/defect marked with SP1.



Chenault Drive



West 5.JPG

2024/06/05 21:58:38

Measurements

SP1	VALUE	61.3°F
SP2	VALUE	58.6°F
SP3	VALUE	55.0°F

Annotations

KEY	VALUE
SP1	Moisture

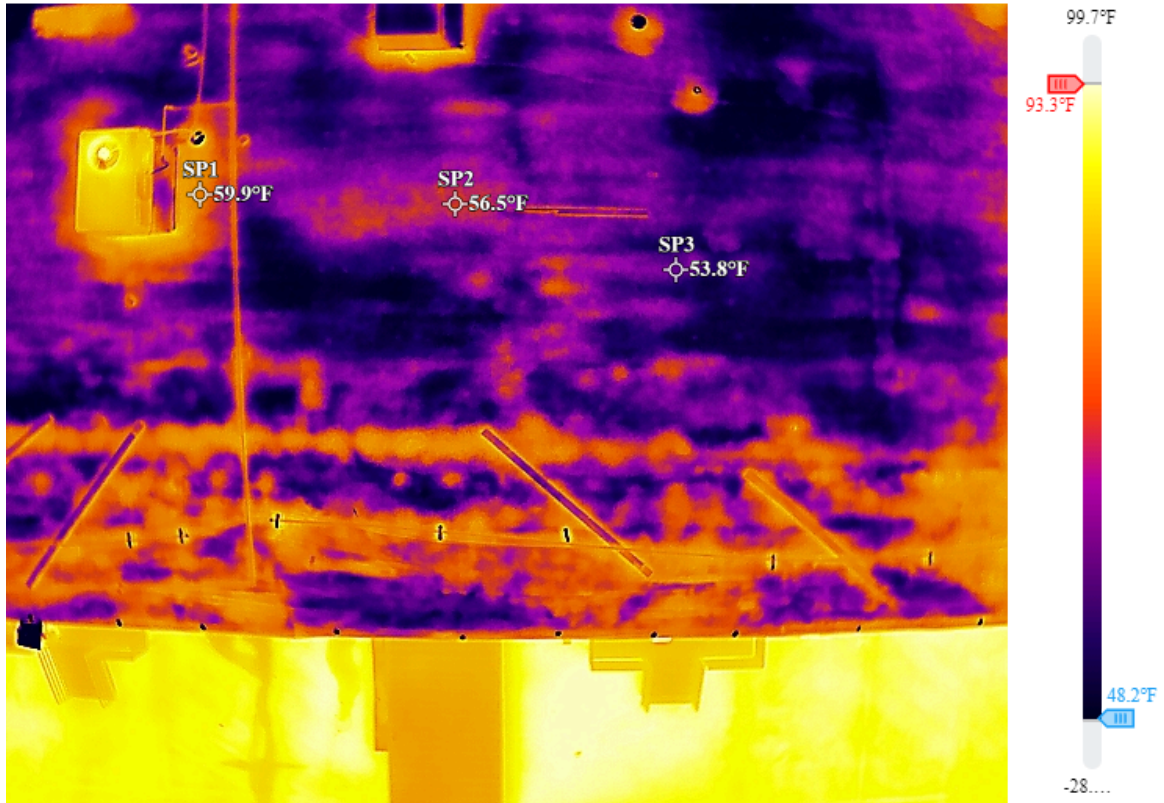
SP2	Moisture
SP3	No moisture

Remarks

Significant amount of suspected moisture ingress on western side of roof co-located with suspected visible damage.



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West 6.JPG

2024/06/05 21:58:50

Measurements

SP1	VALUE	59.9°F
SP2	VALUE	56.5°F
SP3	VALUE	53.8°F

Annotations

KEY	VALUE
SP1	Moisture

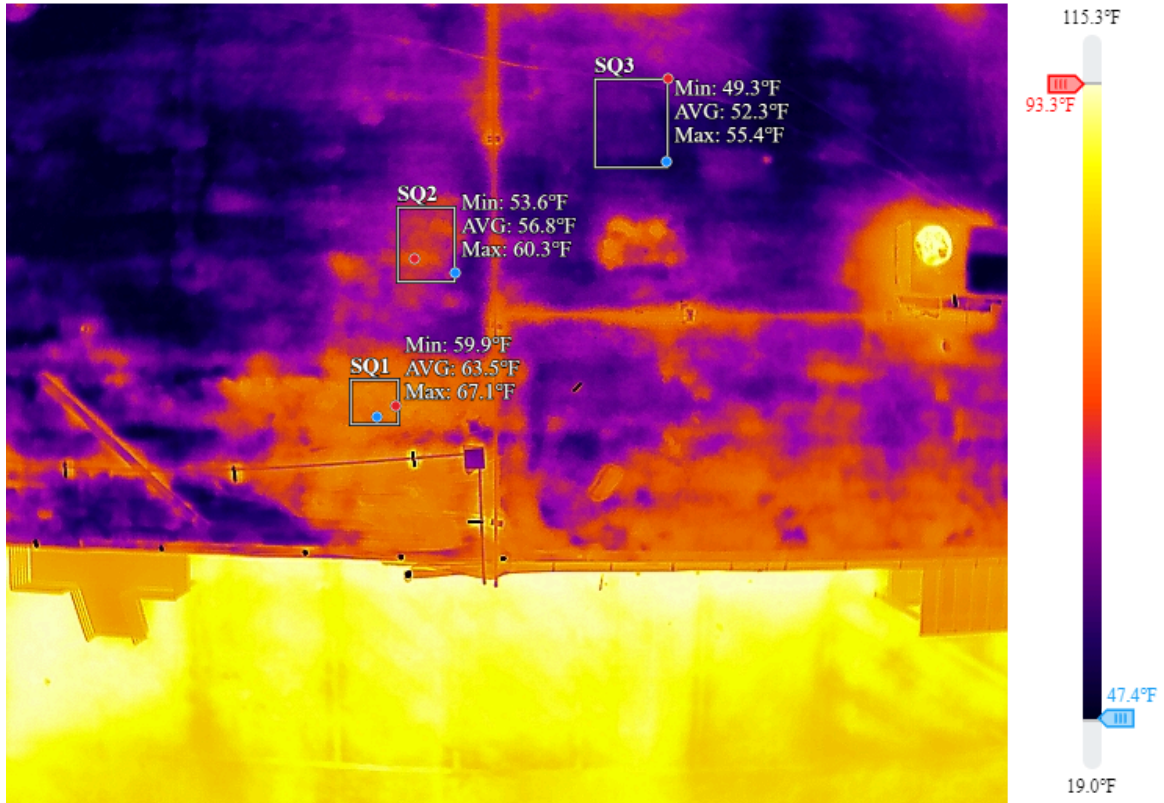
SP2	Less moisture
SP3	No moisture

Remarks

Suspected moisture ingress indicated past western side into the central portion of the roof.



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West 7.JPG

2024/06/05 22:08:48

Measurements

SQ1	MIN	59.9°F
	AVERAGE	63.5°F
	MAX	67.1°F
SQ2	MIN	53.6°F
	AVERAGE	56.8°F
	MAX	60.3°F

SQ3	MIN	49.3°F
	AVERAGE	52.3°F
	MAX	55.4°F

Annotations

KEY	VALUE
SQ1	Most moisture
SQ2	Less moisture
SQ3	No moisture

Remarks

Significant amount of suspected moisture concentrated just south of visibly damaged area along western edge of roof.