

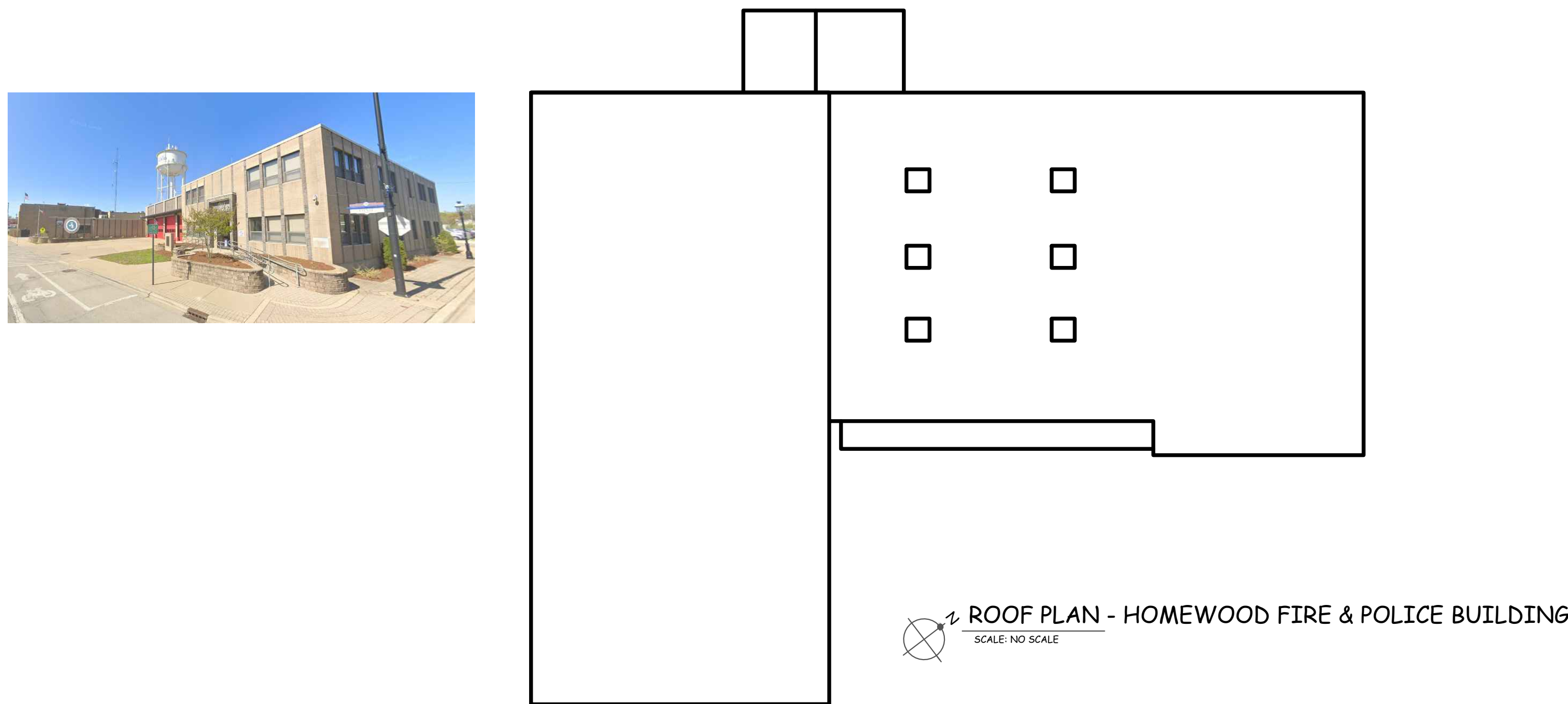
# ROOF DIAGNOSTIC SURVEY FOR VILLAGE OF HOMEWOOD : FIRE & POLICE BUILDING, LM BUILDING, SCIENCE CENTER

HOMEWOOD, IL 60430

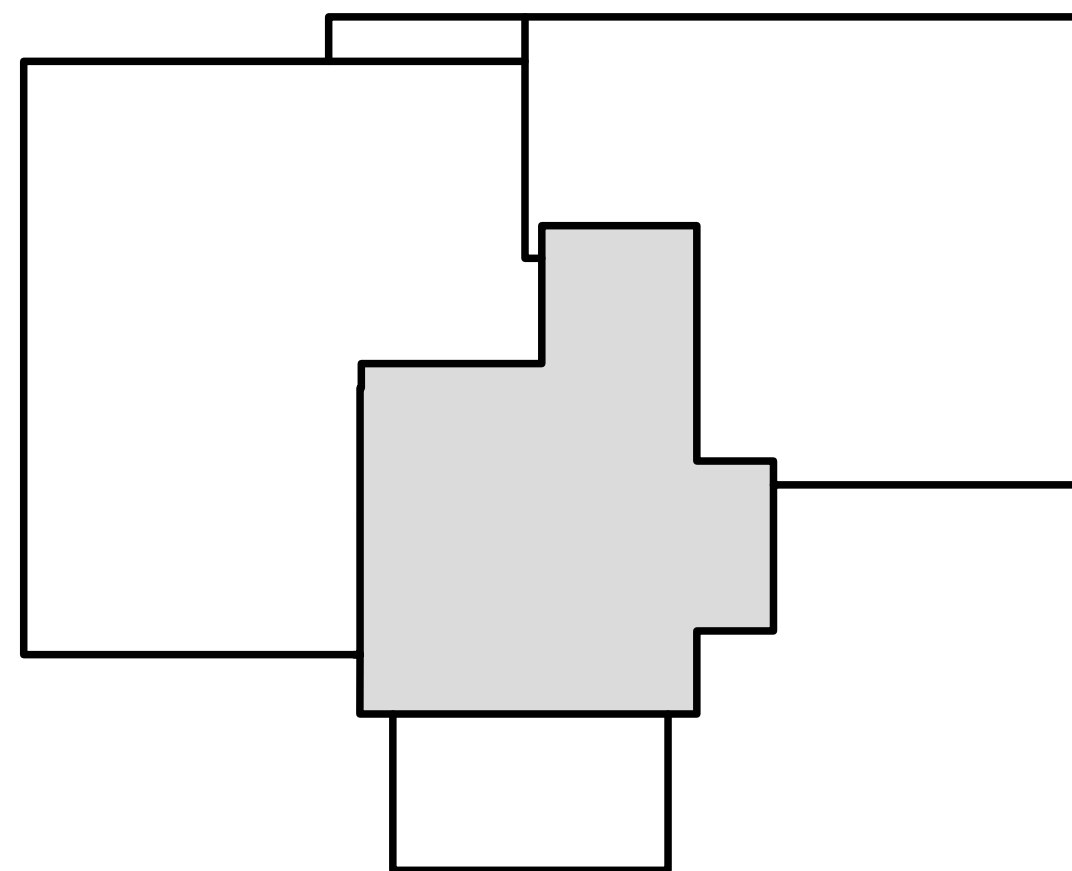
DRAWINGS

TITLE PAGE

- SHEET A-1 VILLAGE OF HOMEWOOD - HOMEWOOD FIRE & POLICE BUILDING - MOISTURE SURVEY
- SHEET A-2 VILLAGE OF HOMEWOOD - HOMEWOOD FIRE & POLICE BUILDING - MOISTURE SURVEY
- SHEET B VILLAGE OF HOMEWOOD - LM BUILDING - MOISTURE SURVEY
- SHEET C VILLAGE OF HOMEWOOD - HOMEWOOD SCIENCE CENTER - MOISTURE SURVEY

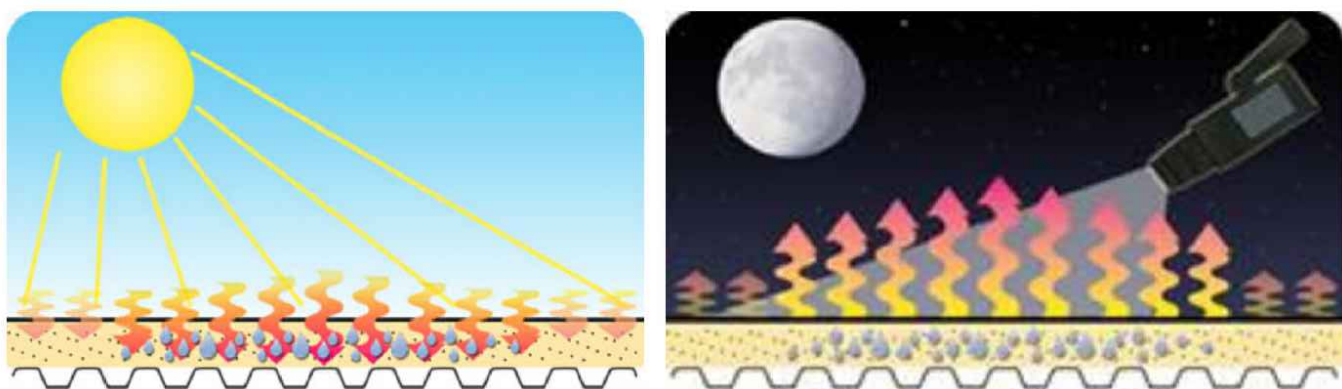


ROOF PLAN -LM BUILDING  
SCALE: NO SCALE



ROOF PLAN -HOMEWOOD SCIENCE CENTER  
SCALE: NO SCALE

How An Infrared Survey Works:



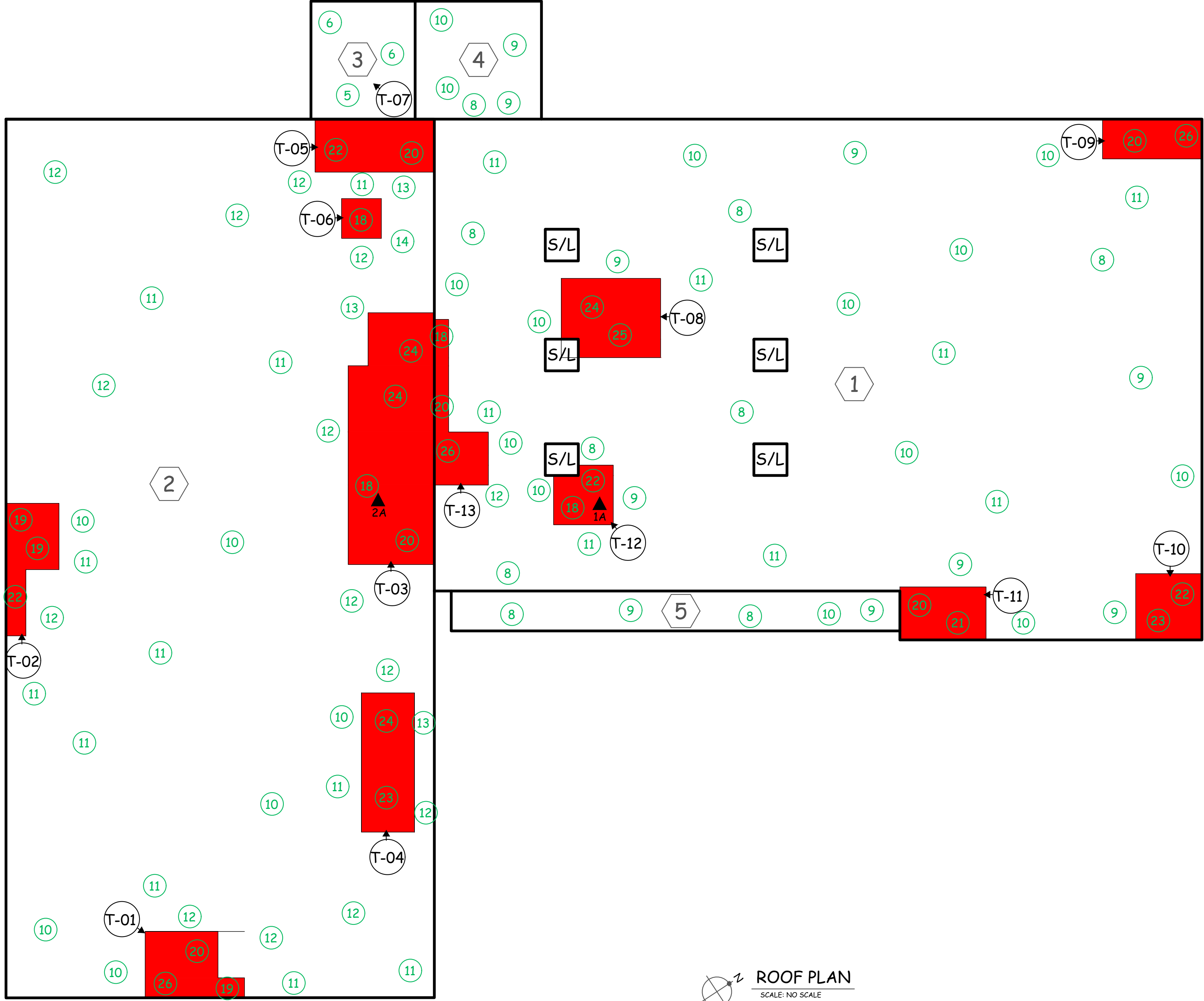
During the daytime, wet roof insulation absorbs more solar energy from the sun than dry roof insulation. During the nighttime, after the roof surface cools, the wet roof insulation will retain more solar energy than dry insulation and these temperature differences are detected by the infrared camera.












The wet roof areas are marked on the roof surface with visible paint markings. The wet roof areas are verified through core cuts and/or a Roof Moisture Meter.



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STANDARD KEY OF SYMBOLS				
	AREA DESIGNATION	 → THERMOGRAM	 WET INSULATION	 N.I.C.
	DRY CUT	 TRACE CORE	 R.I.M. (RANDOM INTERMITTANT MOISTURE)	 MOISTURE GRID
	WET CUT	 → PHOTOGRAPH		 MOISTURE READING

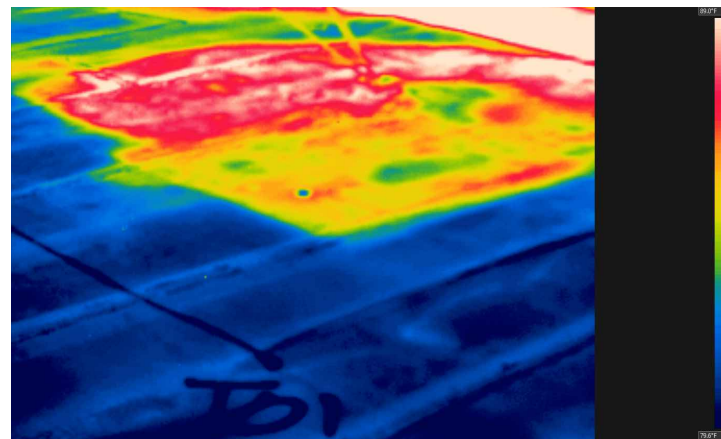


VILLAGE OF HOMEWOOD  
HOMEWOOD FIRE & POLICE BUILDING  
17950 DIXIE HIGHWAY  
HOMEWOOD, IL 60430

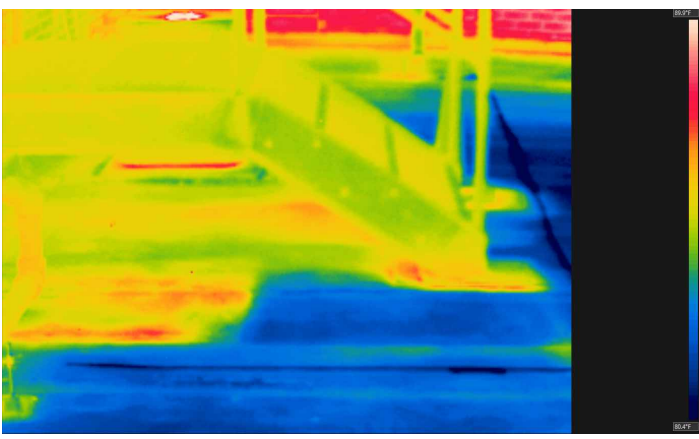
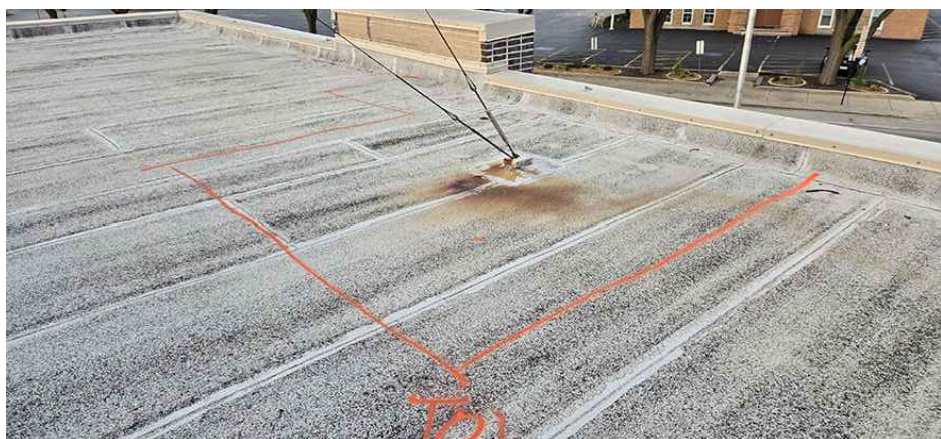
PROJECT NO.:	-
DRAWN BY:	C.R.C. / T.T.
DATE:	06/21/25

SHEET NO.:  
**A-1**

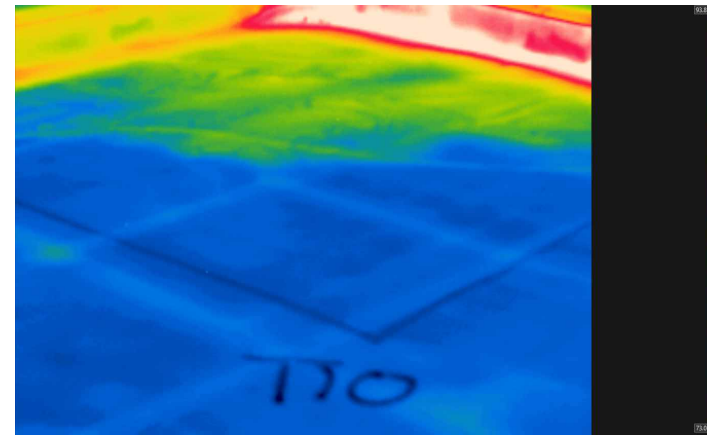




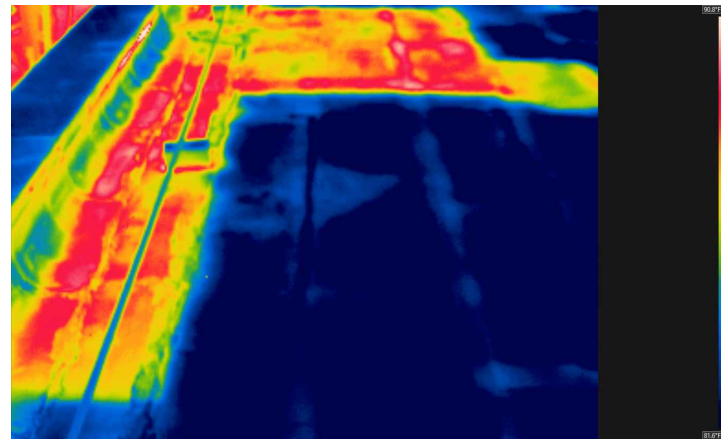
Thermogram T-01



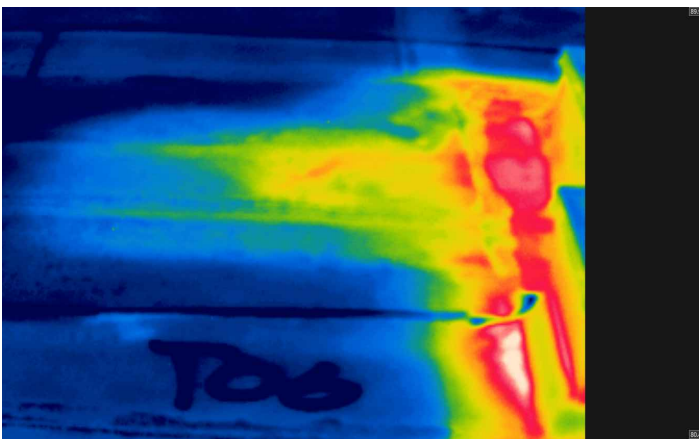
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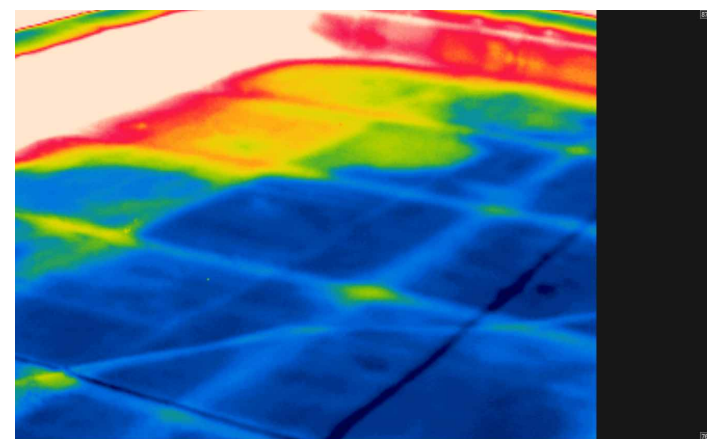
Thermogram T-10



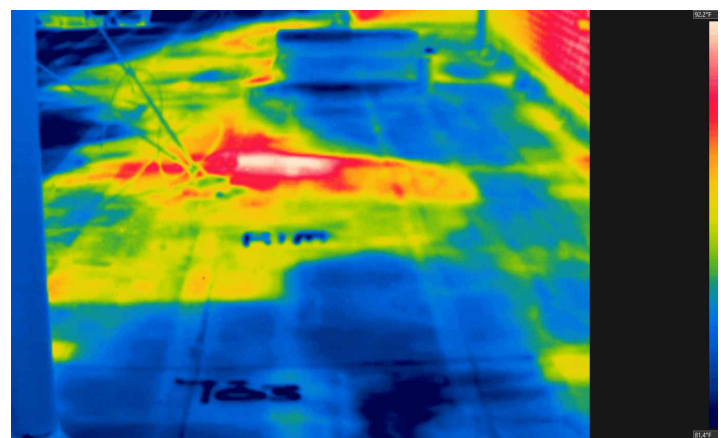
Thermogram T-02



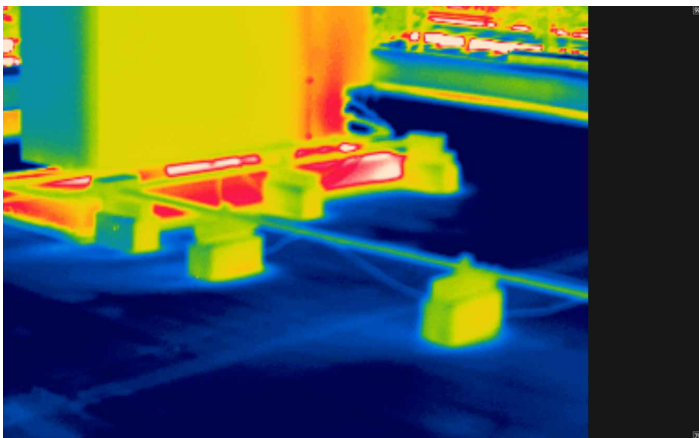
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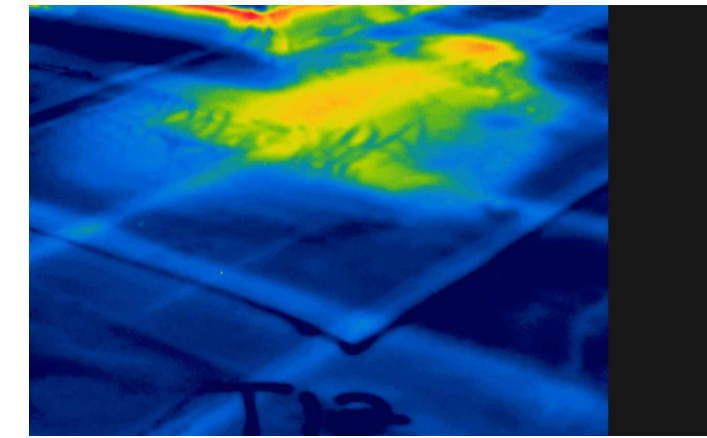
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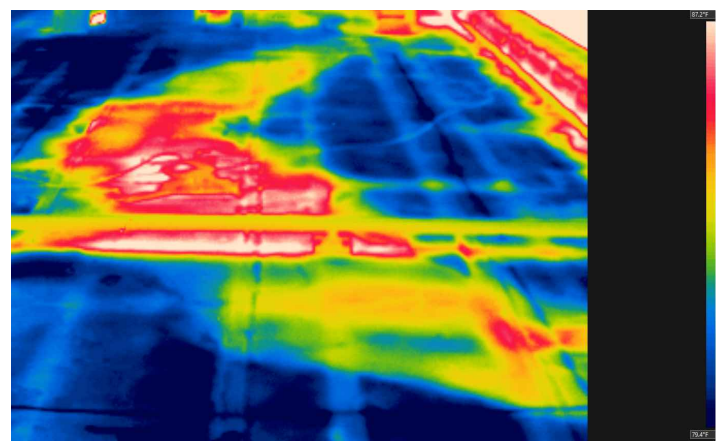
Thermogram T-03



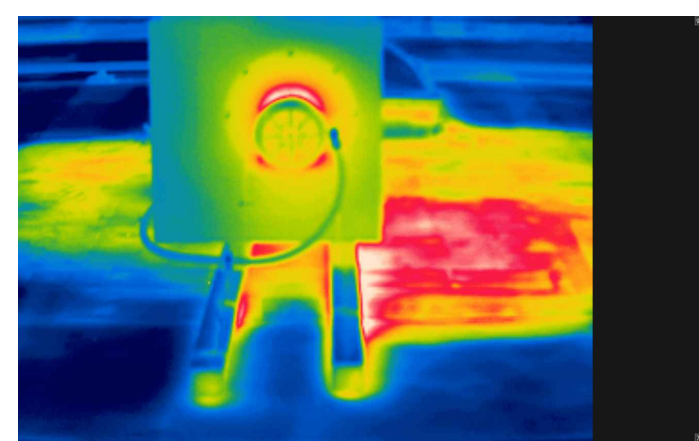
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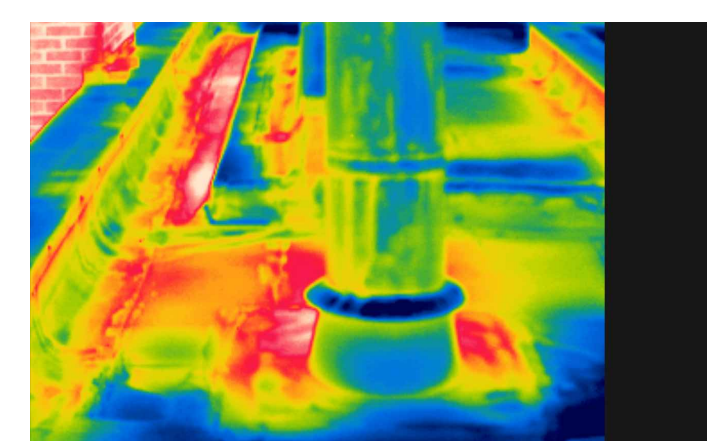
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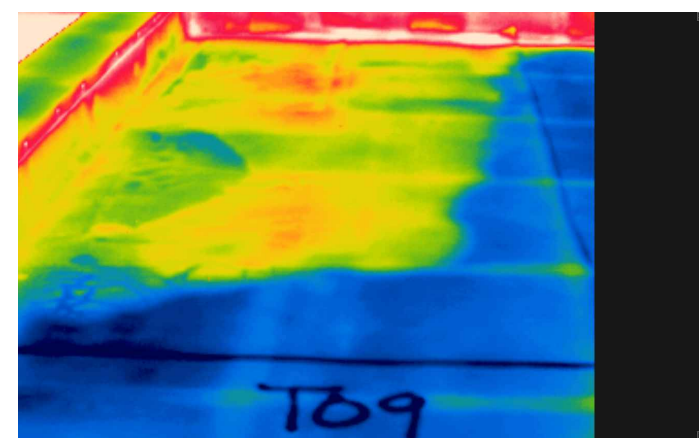
Thermogram T-04



Thermogram T-08



Thermogram T-13



Thermogram T-09



ROOF SECTION DATA			
ROOF SECT.	SIZE (S.F.)	WET (S.F.)	% WET
1	8,486	653	7.70%
2	8,594	1,038	12.08%
3	314	0	0.00%
4	285	0	0.00%
5	301	0	0.00%
TOTALS	17,980	1,691	9.40%

CONSTRUCTION DATA				
ROOF SECTION	CORE CUT NUMBER	MOISTURE READING	MOISTURE PERCENTAGE	ROOF CONSTRUCTION
1	1A	18	N/A	SMOOTH SURFACED MODIFIED ROOF SYSTEM
			80%	1/2" WOODFIBER INSULATION
			0%	1-3/4" POLYISOCYANURATE INSULATION
			N/A	VAPOR BARRIER
			N/A	METAL DECK
2	2A	18	N/A	SMOOTH SURFACED MODIFIED ROOF SYSTEM
			100%	1/2" WOODFIBER INSULATION
			50%	2-1/4" POLYISOCYANURATE INSULATION
			N/A	VAPOR BARRIER
			N/A	CONCRETE DECK

A

AREA DESIGNATION

△

DRY CUT

▲

WET CUT

T-01→

THERMOGRAM

☒

TRACE CORE

P-01→

PHOTOGRAPH

■

WET INSULATION

☒

R.I.M. (RANDOM INTERMITTANT MOISTURE)

⊕

MOISTURE READING

■

N.I.C.

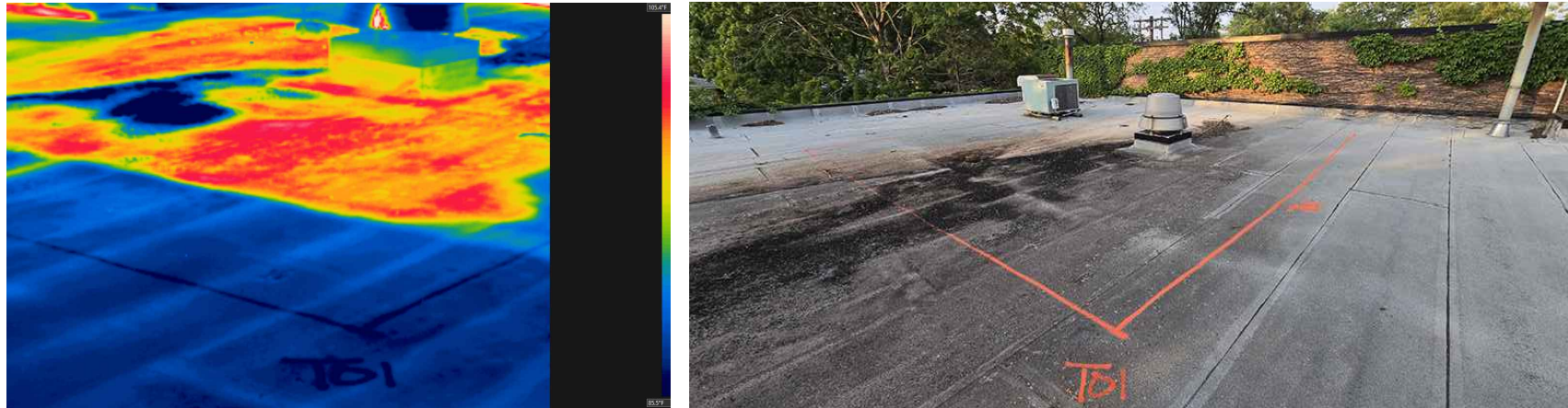
□

MOISTURE GRID

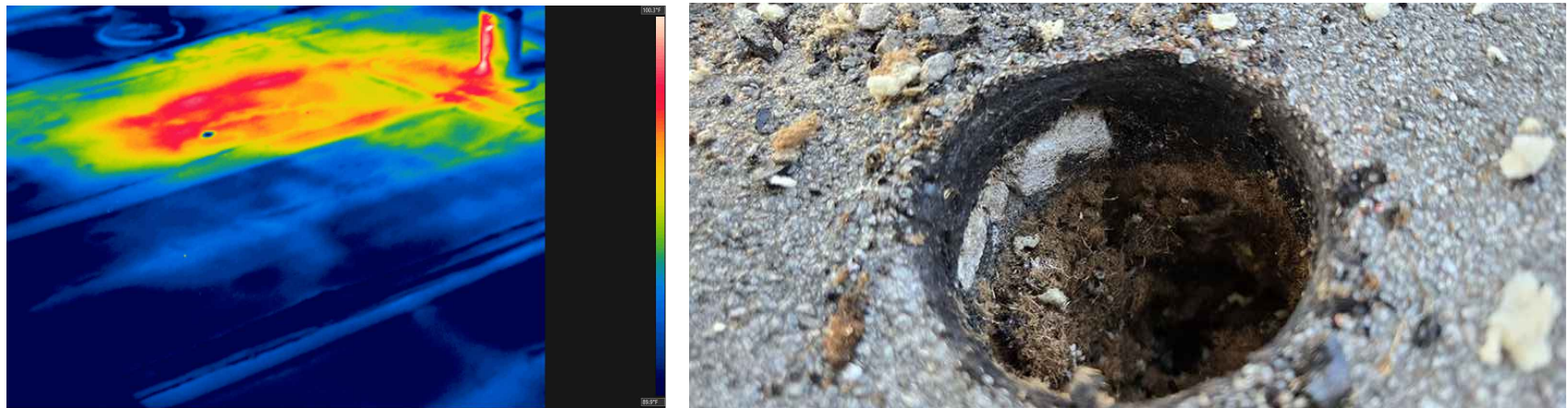
VILLAGE OF HOMEWOOD  
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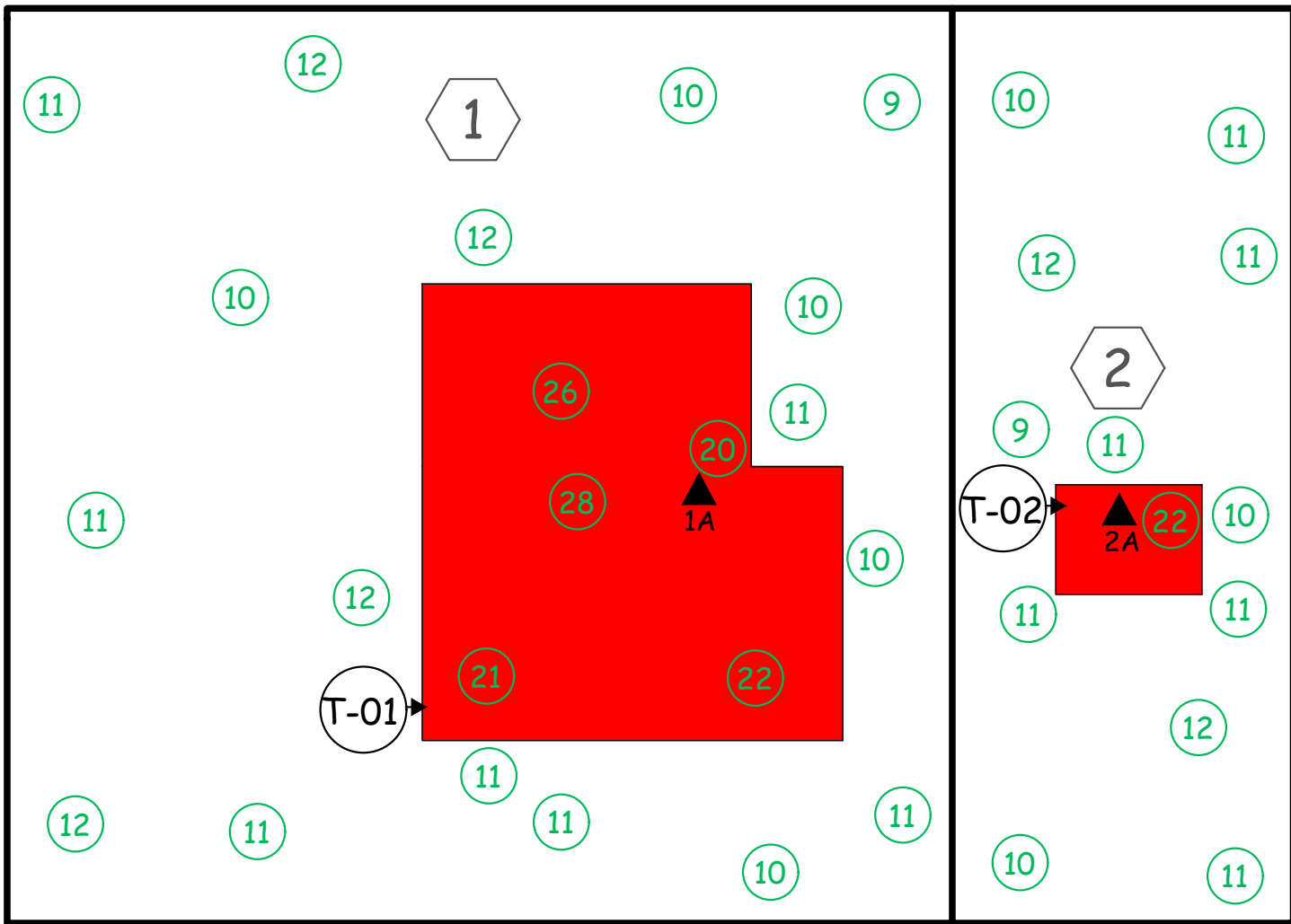
Thermogram T-01



Thermogram T-02

ROOF SECTION DATA			
ROOF SECT.	SIZE (S.F.)	WET (S.F.)	% WET
1	2,491	525	21.08%
2	955	48	5.03%
TOTALS	3,446	573	16.63%

CONSTRUCTION DATA					
ROOF SECTION	CORE CUT NUMBER	MOISTURE READING	MOISTURE PERCENTAGE	ROOF CONSTRUCTION	
1	1A	20	N/A	SMOOTH SURFACED MODIFIED ROOF SYSTEM	
			100%	1/2"	WOODFIBER INSULATION
			100%	1"	POLYISOCYANURATE INSULATION
			50%	1/2"	POLYISOCYANURATE INSULATION
			0%	1"	POLYISOCYANURATE INSULATION
			N/A	VAPOR BARRIER	
2	2A	22	N/A	TECTUM DECK	
			N/A	SMOOTH SURFACED MODIFIED ROOF SYSTEM	
			100%	1/2"	GYPSON BOARD
			10%	1/2"	WOODFIBER INSULATION
			0%	1"	POLYISOCYANURATE INSULATION
			0%	1"	POLYISOCYANURATE INSULATION
			N/A	VAPOR BARRIER	
			N/A	TECTUM DECK	



A

AREA DESIGNATION

▲

WET CUT

▲

DRY CUT

T-01

→THERMOGRAM

P-01

→PHOTOGRAPH

■

TRACE CORE

■

WET INSULATION

■

R.I.M. (RANDOM INTERMITTANT MOISTURE)

■

N.I.C.

■

MOISTURE GRID

#

MOISTURE READING



VILLAGE OF HOMEWOOD  
LM BUILDING  
18359 PIERCE AVE  
HOMEWOOD, IL 60430

PROJECT NO.:	B
DRAWN BY: C.R.C. / T.T.	
DATE: 06/21/25	