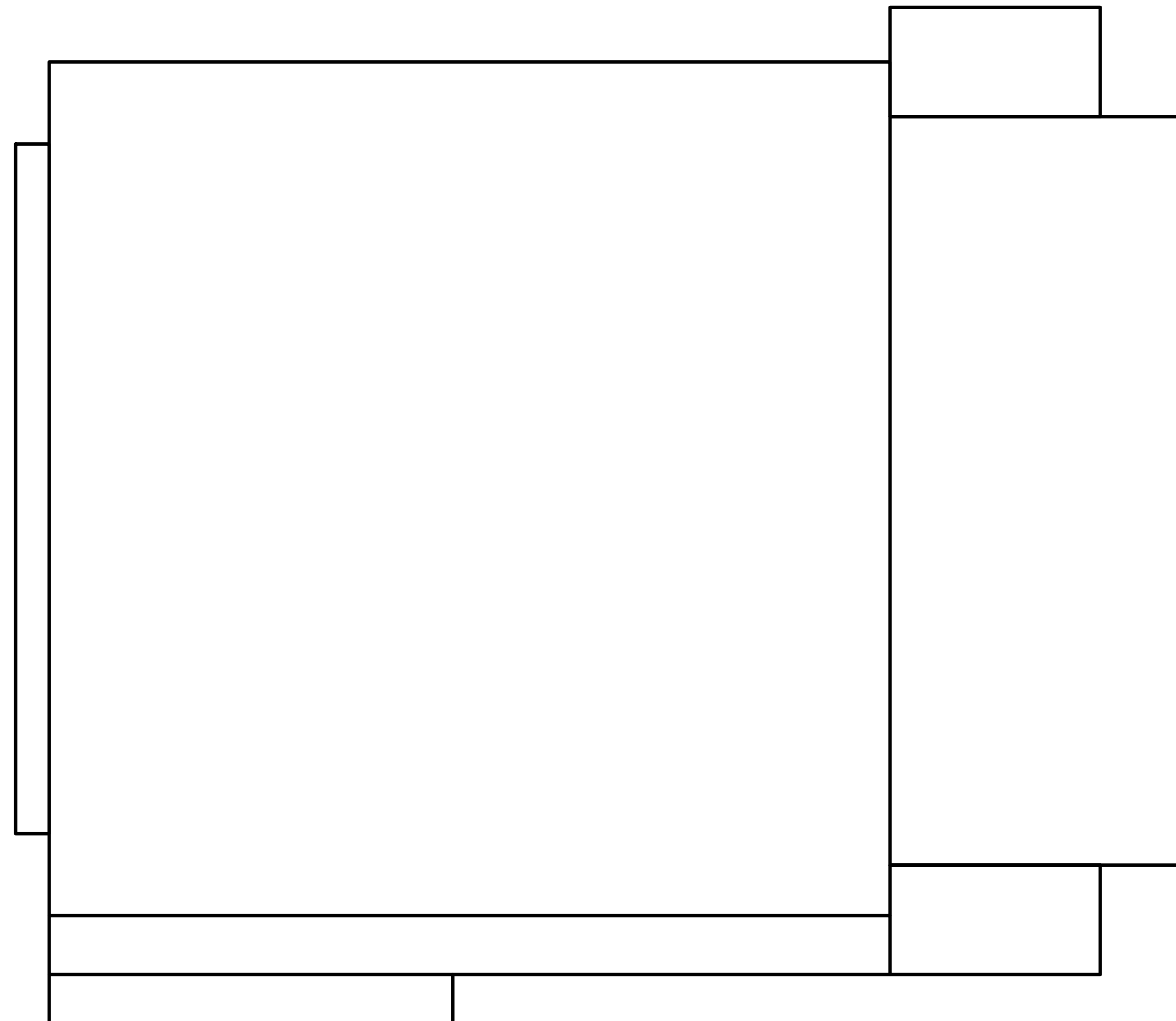


# ROOF DIAGNOSTIC SURVEY FOR COVINA-VALLEY USD - SOUTH HILLS HIGH SCHOOL

645 SOUTH BARRANCA STREET, WEST COVINA, CALIFORNIA 91791

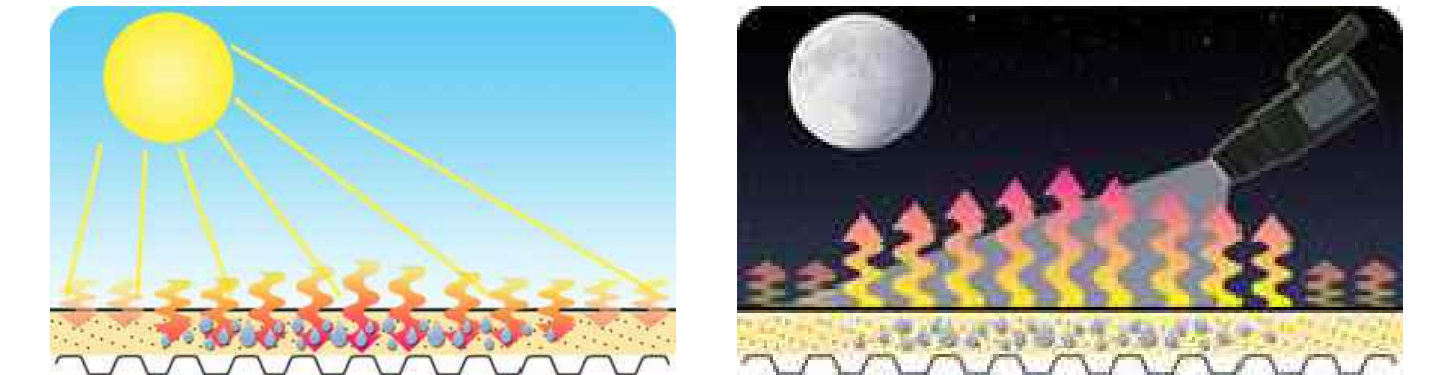
## DRAWINGS

TITLE PAGE  
SHEET A      MOISTURE SURVEY



N  
ROOF PLAN  
SCALE: NO SCALE

### How An Infrared Survey Works:



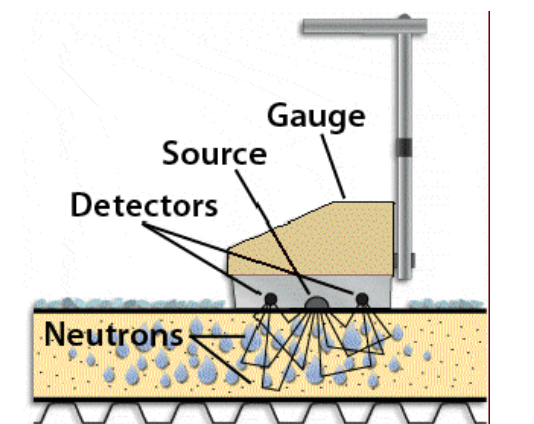
During the daytime, wet roof insulation absorbs more solar energy from the sun than dry roof insulation. During the nighttime, after the roof surface cools, the wet roof insulation will retain more solar energy than dry insulation and these temperature differences are detected by the infrared camera.

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.

### How A Moisture Meter Works:

During the daytime, readings are taken and recorded in random locations and at wet areas found by the infrared camera.

Fast neutrons are emitted from the source in the Roof Moisture Meter into the roof system. The presence of hydrogen in the roof system slows the neutrons. These slowed neutrons as well as the fast neutrons are detected by the Roof Moisture Meter. A reading is displayed in the digital readout and gets recorded.



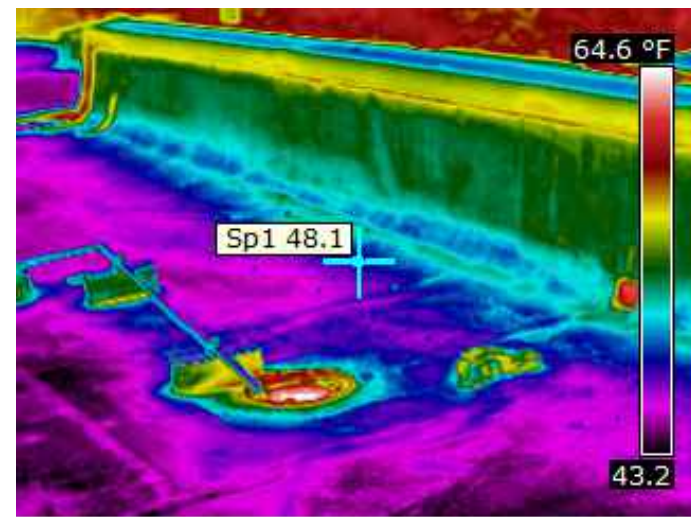
Core cuts are taken to determine a baseline for dry roof materials. Then wet roof areas are marked on the roof surface with visible paint markings.



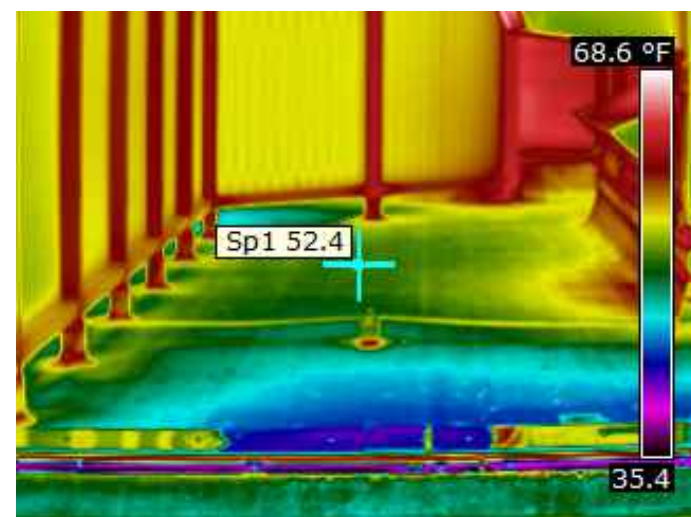
Roofing & Building Maintenance

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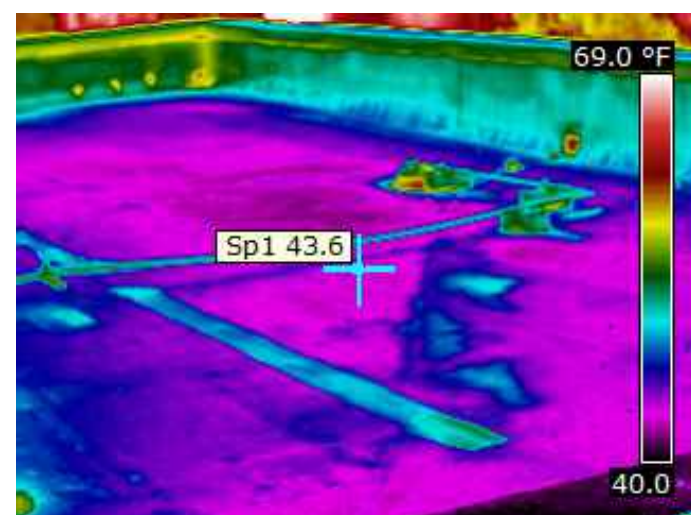




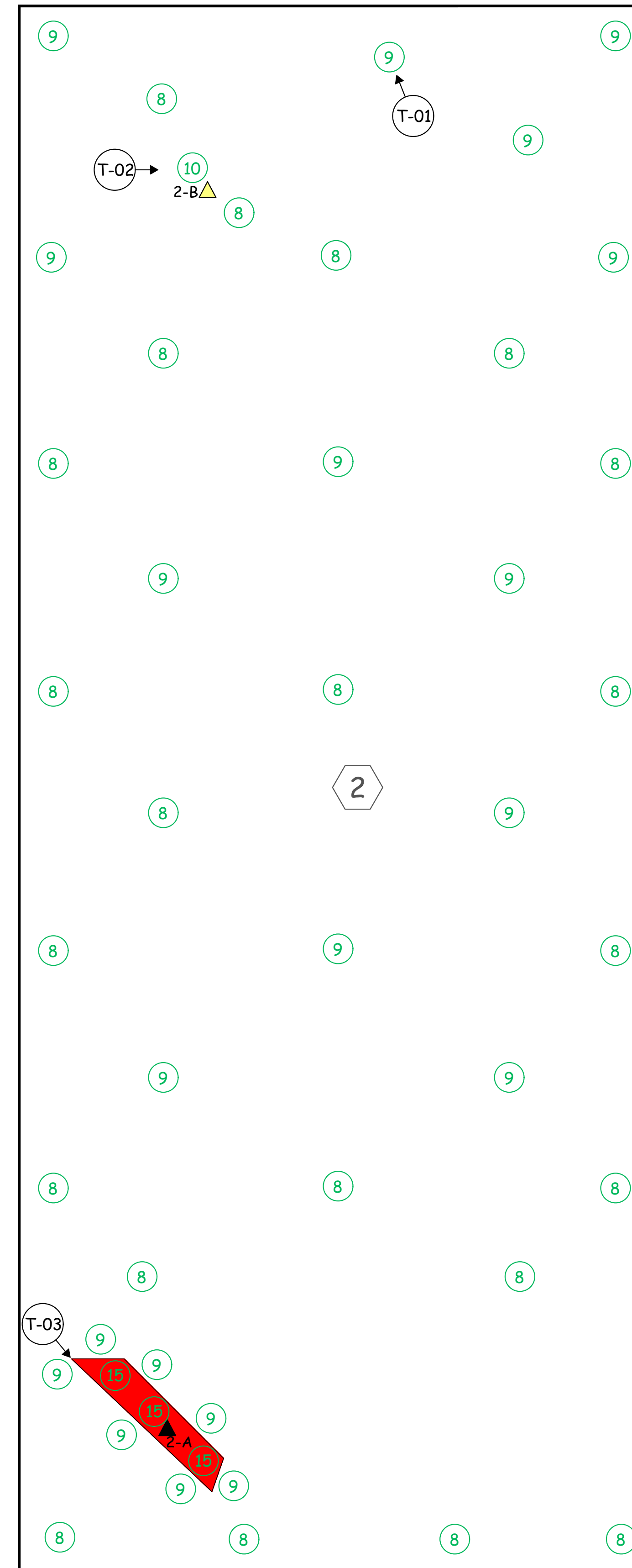
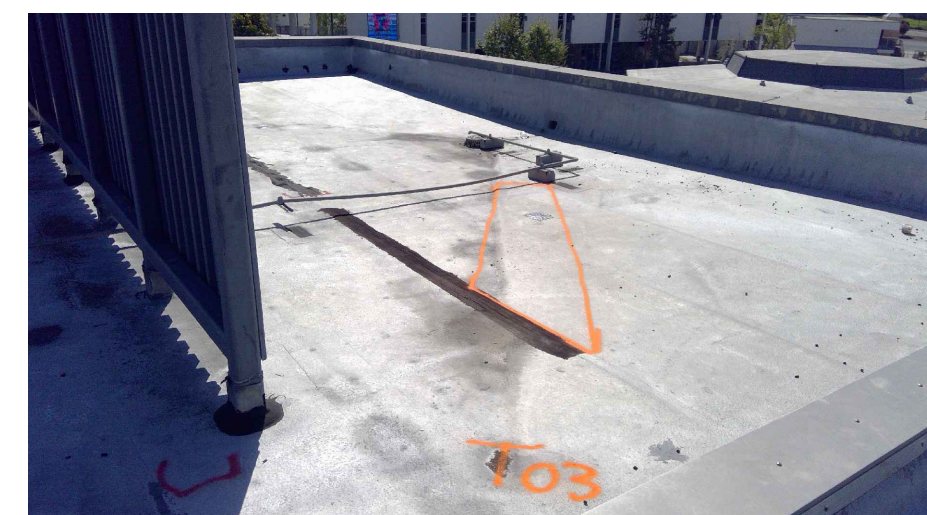
Thermogram T-01



Thermogram T-02



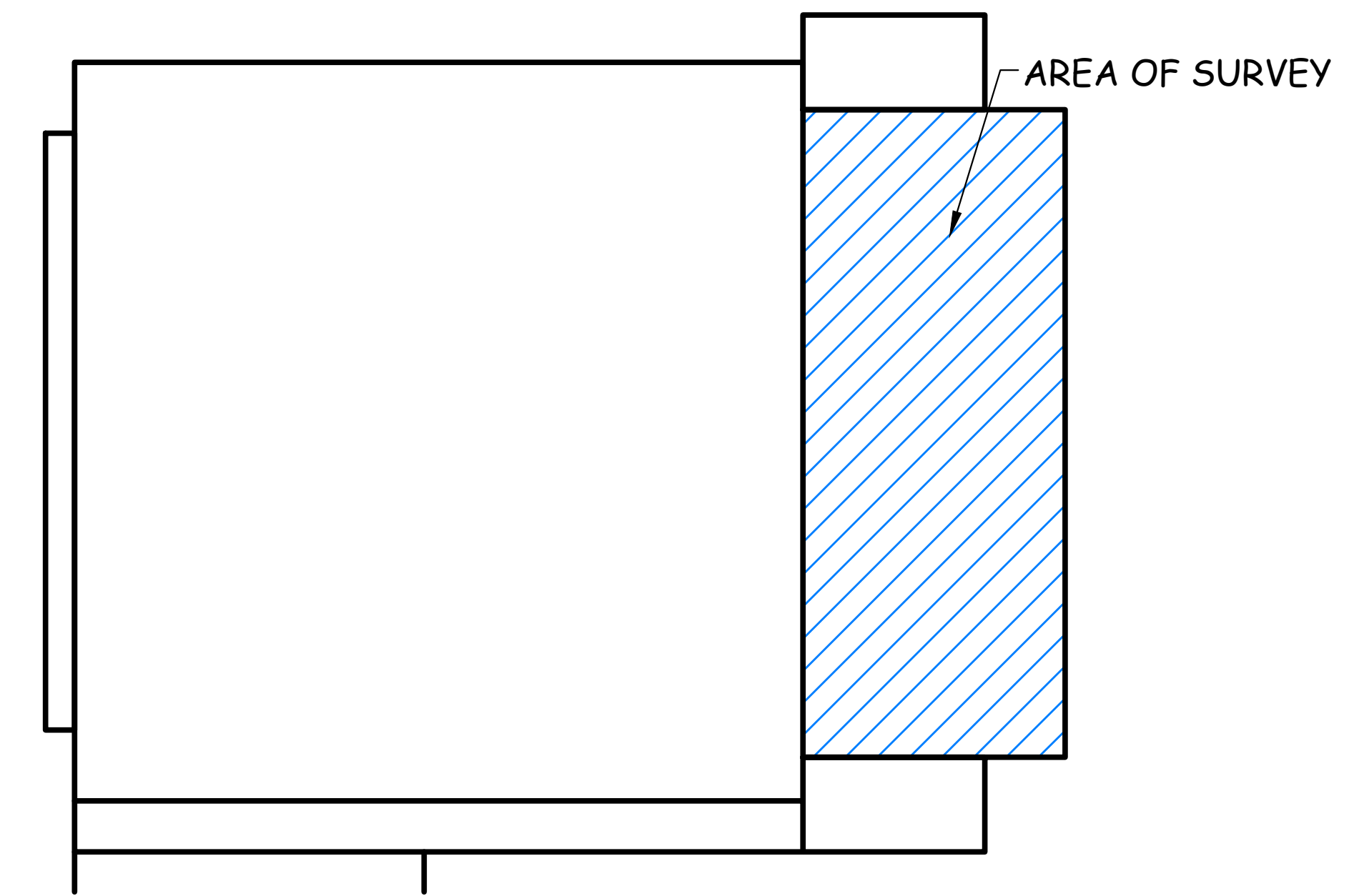
Thermogram T-03



CONSTRUCTION DATA				
ROOF SECTION	CORE CUT NUMBER	MOISTURE READING	MOISTURE PERCENTAGE	ROOF CONSTRUCTION
2	2-A	15	99%	1/2" MODIFIED ROOF SYSTEM
			99%	1/2" PERLITE INSULATION
			0%	4" POLYISOCYANURATE INSULATION
			NA	METAL DECK
2	2-B	10	0%	1/2" MODIFIED ROOF SYSTEM
			0%	4" POLYISOCYANURATE INSULATION
			NA	METAL DECK

THE MOISTURE PERCENTAGES ARE INTENDED TO BE USED AS A QUALITATIVE MEASUREMENT RATHER THAN AN EXACT READING

ROOF SECTION DATA			
ROOF SECTION	SIZE (S.F.)	WET (S.F.)	% WET
2	3,204	19	0.59%
<b>TOTALS</b>	<b>3,204</b>	<b>19</b>	<b>0.59%</b>



ROOF PLAN  
SCALE: NO SCALE

KEY PLAN  
SCALE: NO SCALE

STANDARD KEY OF SYMBOLS			
#	ROOF SECTION	P-#	PHOTO
▲	WET CORE	T-#	THERMOGRAM
▲	WET CORE	N.A.F.	(NO ANOMALIES FOUND)
■	N.I.C.	■	WET INSULATION
□	MOISTURE GRID	■	R.I.M. (RANDOM INTERMITTENT MOISTURE)
□	TRACE CORE	■	MOISTURE READING



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DATE: 4/7/23	