

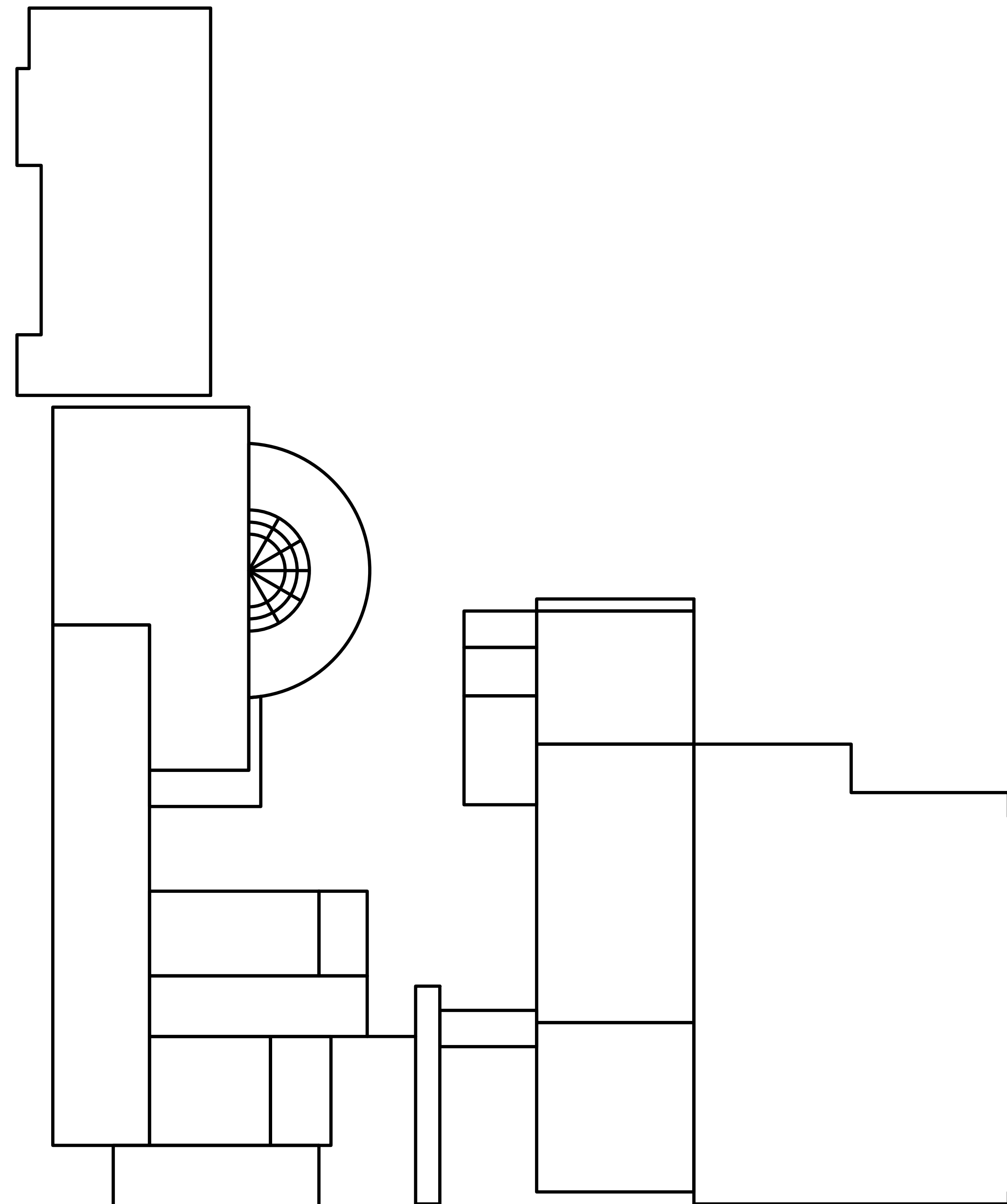
ROOF DIAGNOSTIC SURVEY FOR CITY OF EL MONTE

CITY HALL WEST

11333 VALLEY BOULEVARD EL MONTE, CALIFORNIA 91731

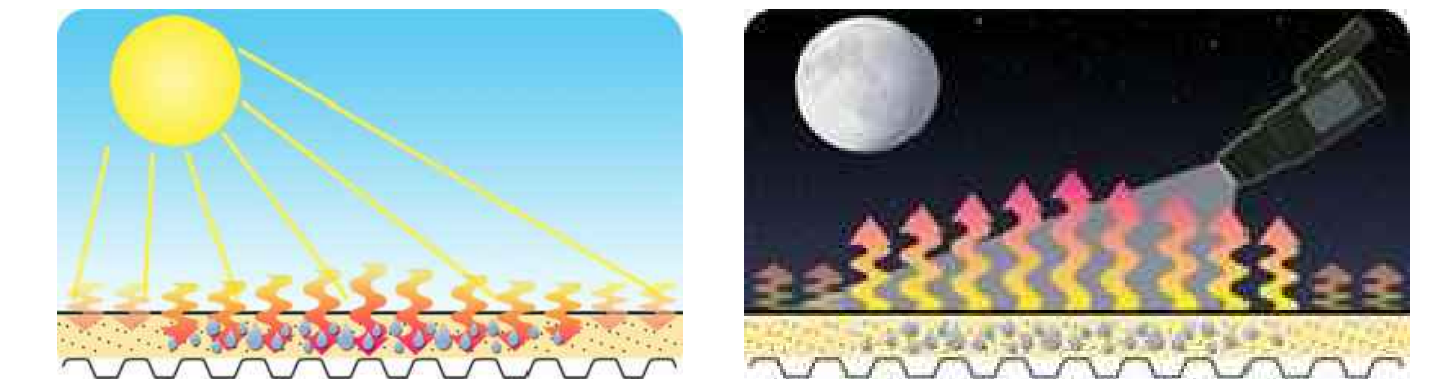
DRAWINGS

TITLE PAGE
SHEET A MOISTURE SURVEY



ROOF PLAN
SCALE: NO SCALE

How An Infrared Survey Works:



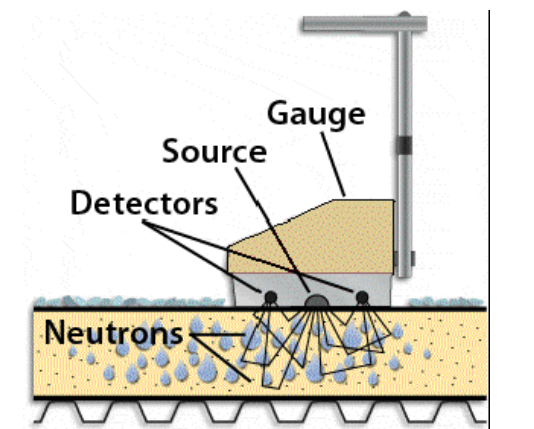
During the daytime, wet roof insulation absorbs more solar energy from the sun than dry roof insulation. During the nighttime, after the roof surface cools, the wet roof insulation will retain more solar energy than dry insulation and these temperature differences are detected by the infrared camera.

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.

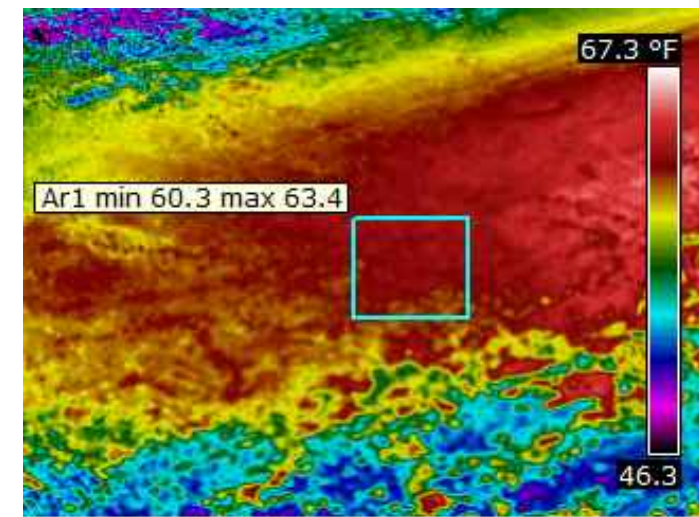
Fast neutrons are emitted from the source in the Roof Moisture Meter into the roof system. The presence of hydrogen in the roof system slows the neutrons. These slowed neutrons as well as the fast neutrons are detected by the Roof Moisture Meter. A reading is displayed in the digital readout and gets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



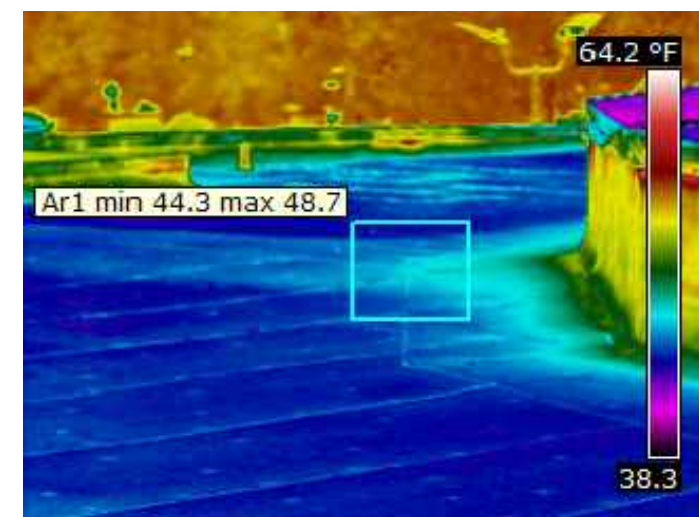
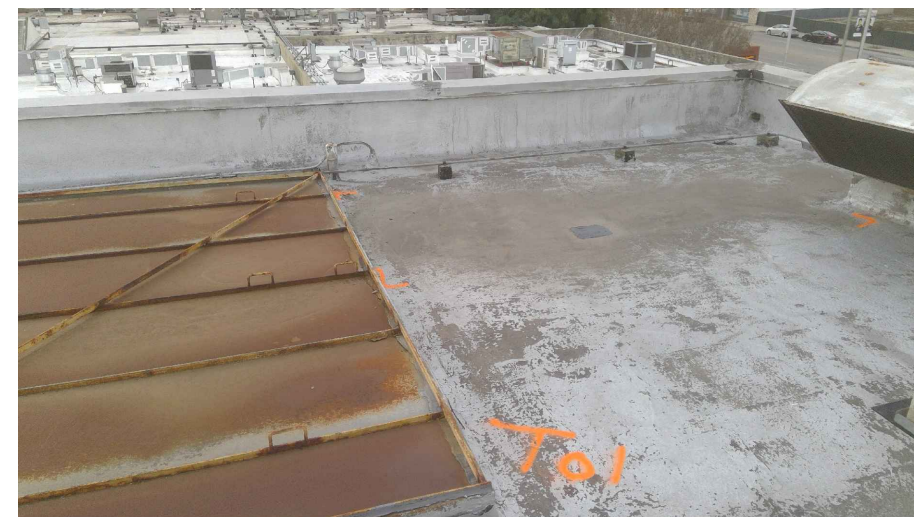
Core cuts are taken to determine a baseline for dry roof materials. Then wet roof areas are marked on the roof surface with visible paint markings.



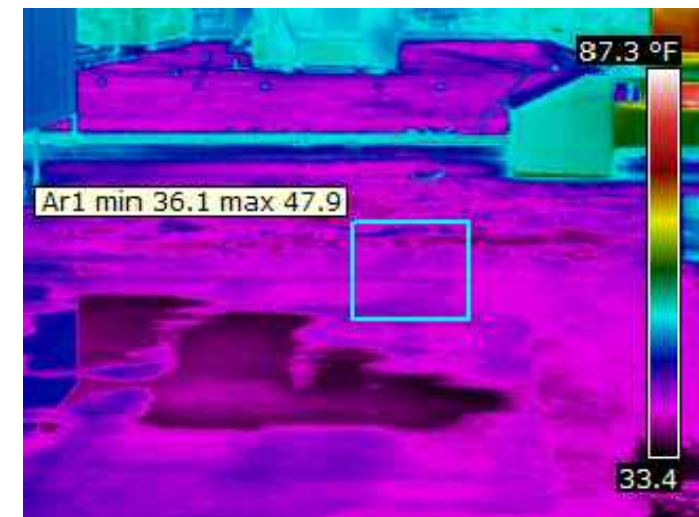
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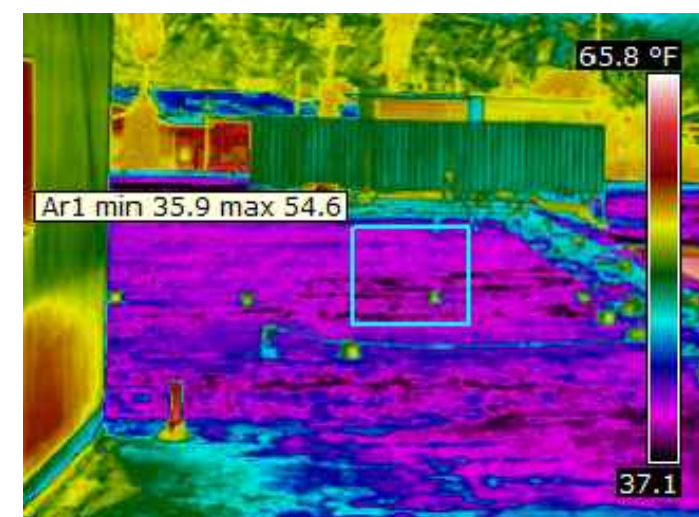
Thermogram T-01



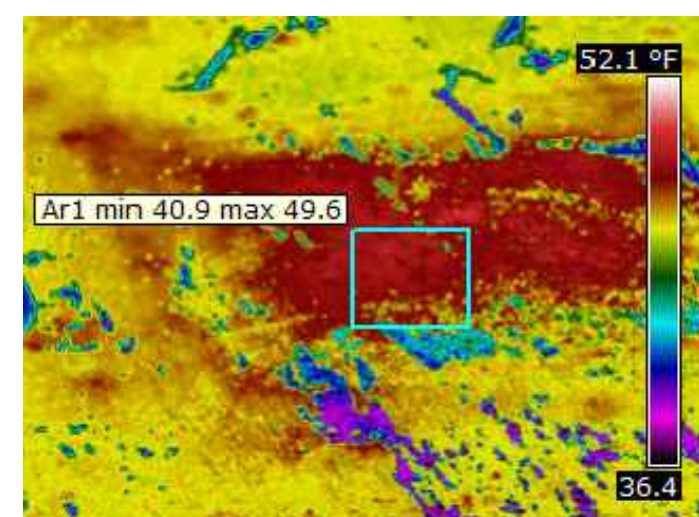
Thermogram T-02



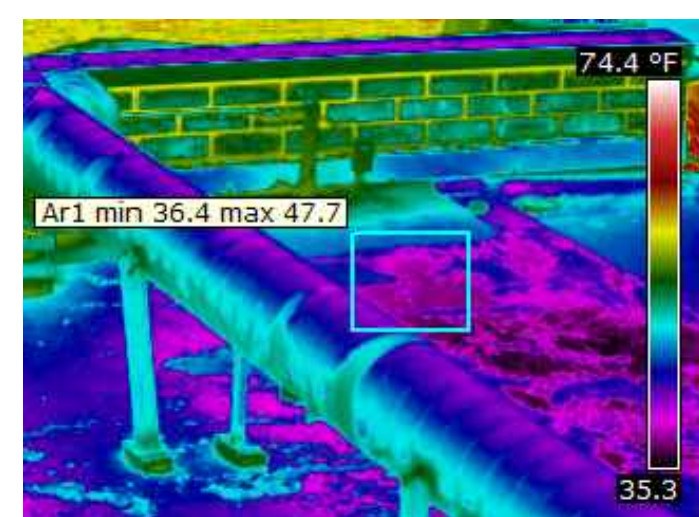
Thermogram T-03



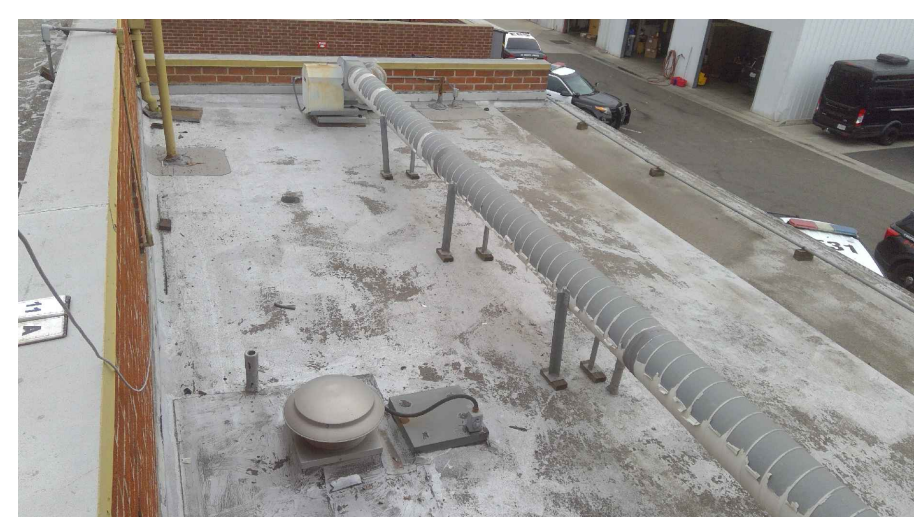
Thermogram T-04



Thermogram T-05

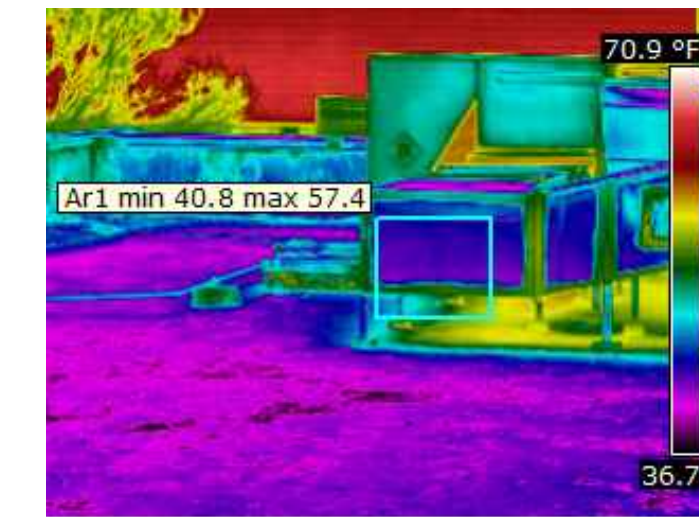


Thermogram T-06



ROOF AREA DATA			
ROOF SECTION	SIZE (S.F.)	WET (S.F.)	% WET
2	9,750	0	0.00%
3	4,071	0	0.00%
4	8,600	0	0.00%
11	2,450	0	0.00%
11A	700	0	0.00%
14	2,250	0	0.00%
20	2,125	0	0.00%
TOTALS	29,946	0	0.00%

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

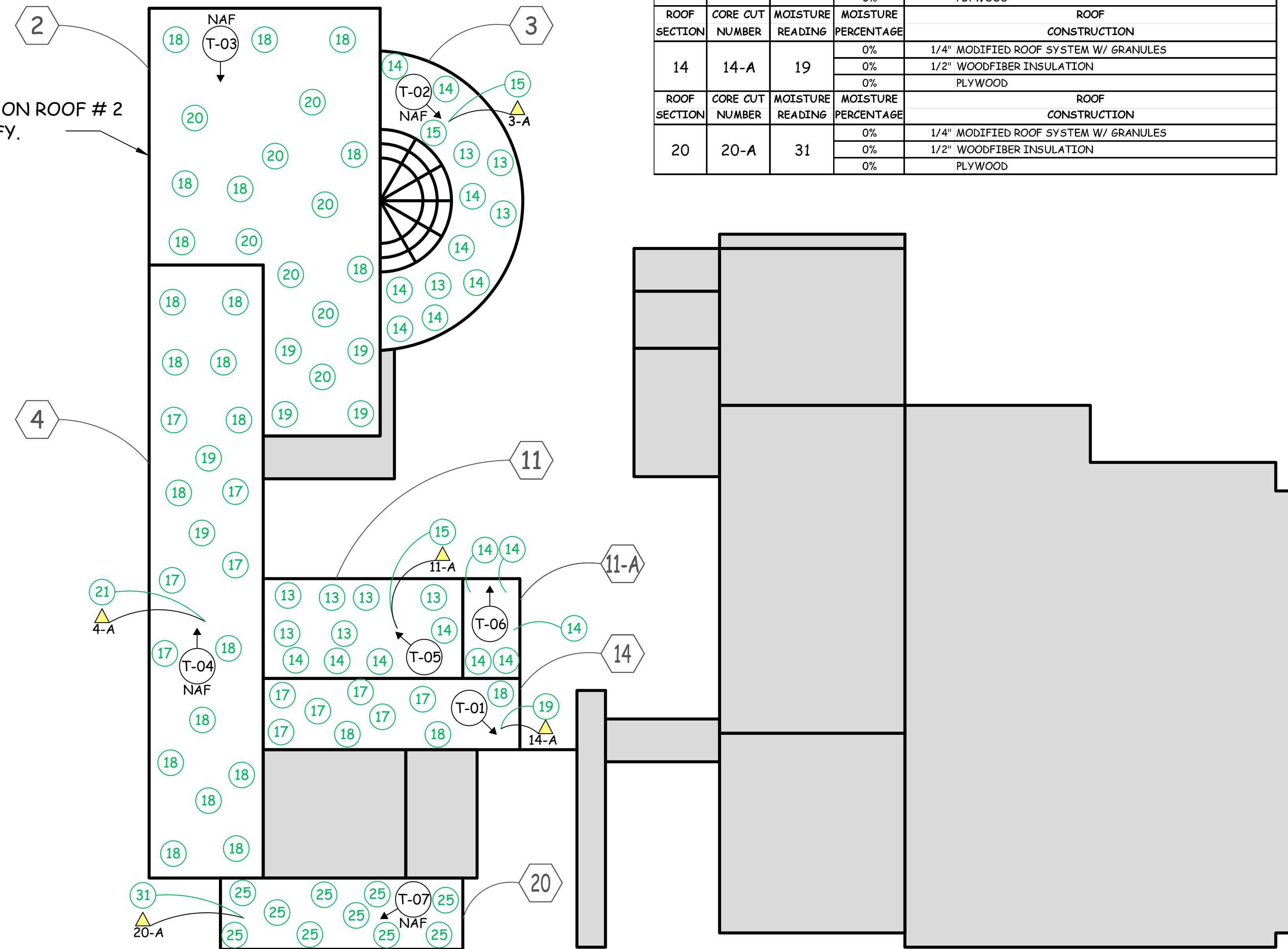


Thermogram T-07



CONSTRUCTION DATA				
ROOF SECTION	CORE CUT NUMBER	MOISTURE READING	MOISTURE PERCENTAGE	ROOF CONSTRUCTION
3	3-A	15	0%	1/4" MODIFIED ROOF SYSTEM W/ GRANULES
			0%	LIGHTWEIGHT CONCRETE
4	4-A	21	0%	1/4" MODIFIED ROOF SYSTEM W/ GRANULES
			0%	1/2" WOODFIBER INSULATION
			0%	PLYWOOD
11	11-A	15	0%	1/4" MODIFIED ROOF SYSTEM W/ GRANULES
			0%	PLYWOOD
14	14-A	19	0%	1/4" MODIFIED ROOF SYSTEM W/ GRANULES
			0%	1/2" WOODFIBER INSULATION
			0%	PLYWOOD
20	20-A	31	0%	1/4" MODIFIED ROOF SYSTEM W/ GRANULES
			0%	1/2" WOODFIBER INSULATION
			0%	PLYWOOD

PONDING WATER ON ROOF # 2 COULD NOT VERIFY.



ROOF PLAN
SCALE: NO SCALE

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



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DRAWN BY: R.L.	SHEET NO.: A
DATE: 12/22/2021	