



OFFICE OF THE SHERIFF

Chad Chronister, Sheriff
Jose Docobo, Chief Deputy
Hillsborough County, Florida

December 7, 2017

SUBJECT: Amendment No. 5 to RFP 11-17 Orient Road Re-Entry Building Roof Replacement

MESSAGE: Please note and acknowledge the following changes or additions to be included in the referenced section(s) of RFP No.11-17:

1. As discussed during the mandatory pre-bid meeting held on 10/26/17, the HCSO would perform an IR scan and provide vendors the results. IR scan was accomplished on 11/20/17 and attached results are amended to Exhibit A, as Appendix One: IR Scan.

Please note that this document hereby becomes a part of RFP No. 11-17 and without this document the Proposal is considered incomplete.

Sincerely,

A handwritten signature in blue ink, appearing to read "Christina R. Porter".

Christina R. Porter, CPA
Chief Financial Officer

CRP/dj

Enclosures

ACKNOWLEDGEMENT OF AMENDMENT

We do hereby acknowledge the information and/or changes to the Scope of Work described in
Amendment No. 5 to RFP No. 11-17.

PLEASE PRINT - Company Name_____

By_____

Title_____

Date_____

*Signature*_____

(Signed Acknowledgement must be included with your RFP/Bid Package)

PROJECT: HCSO Re- Entry Center Roof Renovation
PROJECT NUMBER: 1715-00 / 04-07
ADDENDUM NO.: Five (05)
ADDENDUM DATE: 12/04/17

The following items hereby become a part of the Contract Documents for the above referenced project.

IN THE SPECIFICATIONS:

1. Include Appendix One: IR Scan Report

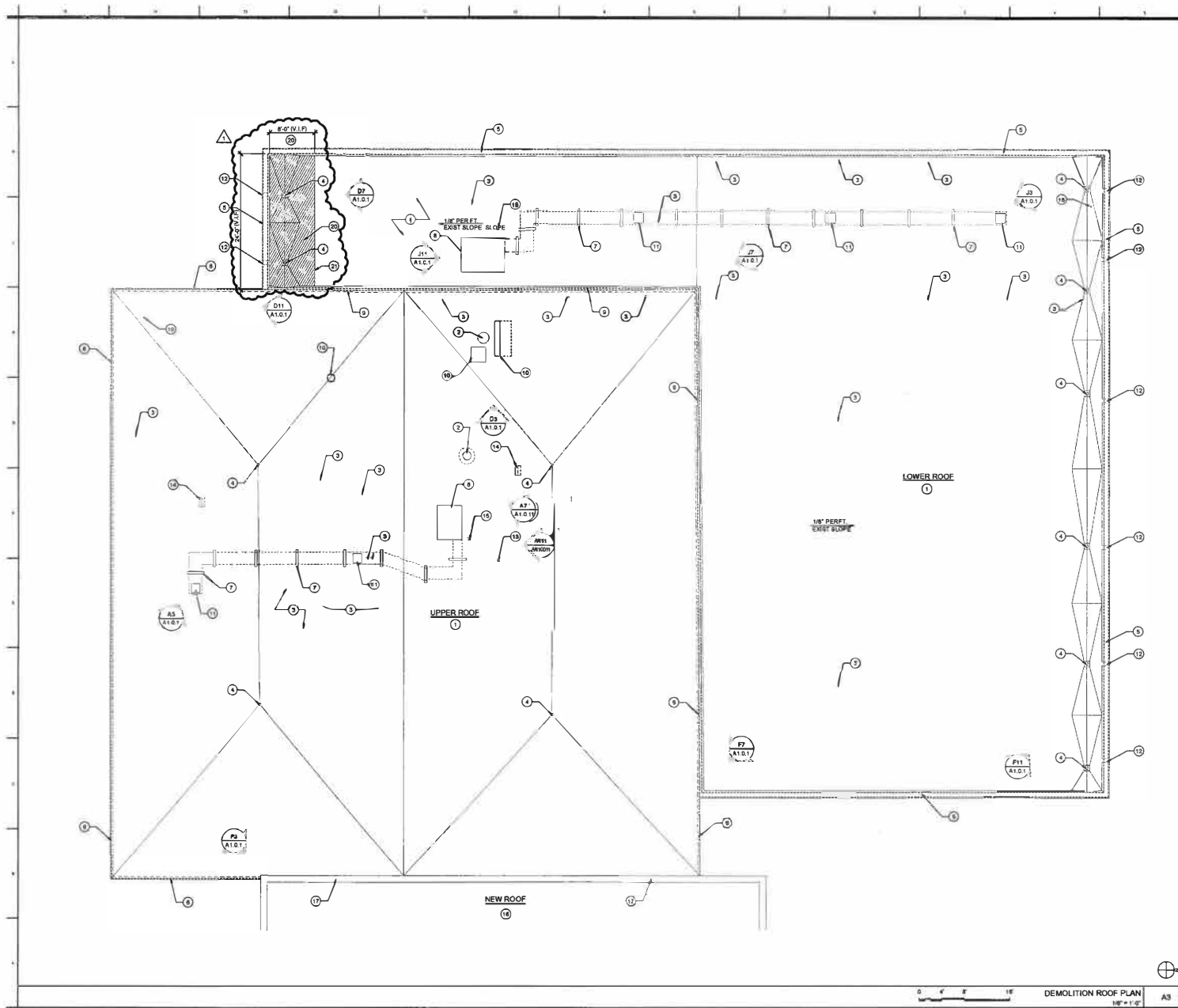
ON THE DRAWINGS:

1. Sheet No.: A1.0
 - A. Revise sheet to include the removal of portion of existing insulation.
 - B. Specific Notes- Revise Specific Notes to include notes 20 and 21.
2. Sheet No.: A1.1
 - A. Revise sheet to include the installation of new insulation.
 - B. Specific Notes- Revise Specific Notes to include note 19.

END OF ADDENDUM NO. Five (05)

ATTACHMENTS:

- IR Scan Report, dated 11/20/17
- Sheet A1.0 and A1.1, dated 12/04/17



- GENERAL NOTES**
1. REMOVE EXIST ROOF SYSTEM (S), TYP.
 2. REMOVE EXIST FLASHING, TYP.
 3. CONTRACTOR TO TAKE REASONABLE CARE TO NOT DAMAGE SUBSTRATE WHEN REMOVING EXIST ROOF SYSTEMS, TYP.
 4. CONTRACTOR TO REMOVE AND REINSTALL ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NECESSARY TO FACILITATE REPLACEMENT OF ROOF SYSTEM.

- SPECIFIC NOTES- DEMO PLAN**
1. REMOVE EXIST ROOFING MEMBRANE DOWN TO EXISTING TYP.
 2. EXISTING GUTTER TO REMAIN, REMOVE EXIST FLASHING.
 3. EXIST VENT TO REMAIN, REMOVE EXIST FLASHING, TYP.
 4. EXIST RD TO REMAIN, REMOVE EXIST DOME, TYP.
 5. PARAPET CORING TO BE REMOVED, TYP.
 6. EDGE FLASHING TO BE REMOVED, TYP.
 7. EXIST MECH EQUIPMENT SUPPORT TO REMAIN, REMOVE EXIST FLASHING, TYP.
 8. EXIST MECH EQUIPMENT CURB TO REMAIN, REMOVE EXIST FLASHING, TYP.
 9. BUILDING EXPANSION JOINT- REMOVE EXIST FLASHING, CAP AND FLASHING, TYP.
 10. EXIST FAN SUPPORT TO REMAIN, REMOVE EXIST FLASHING, TYP.
 11. EXIST DUCT PENETRATION, REMOVE EXIST FLASHING, TYP.
 12. REMOVE EXIST SCUPPER AND FLASHING, TYP. INFILL OPENING.
 13. EXIST CONDUIT PENETRATION, REMOVE EXIST PAN, PATCH DECK.
 14. EXIST VENT.
 15. EXIST ELEC. COND. IN PITCH PAN, REMOVE PITCH PAN AND FLASHING.
 16. EXISTING ROOFING SYSTEM TO REMAIN.
 17. EXIST CORING TO REMAIN, REMOVE REINSTALLS NEEDED TO INSTALL NEW UPPER ROOF FLASHING.
 18. CORE # LOCATION.
 19. REMOVE PORTION OF EXIST INSUL.
 20. LIMITS OF AREA REMOVAL.

1315 E. SEVENTH AVENUE
SUITE 106
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TELEPHONE 813 242 8877
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wilderarchitecture.com
AA 26005455
WILDERARCHITECTURE, INC.
DEPOSIT
John W. Thompson, AIA
AIA 93271

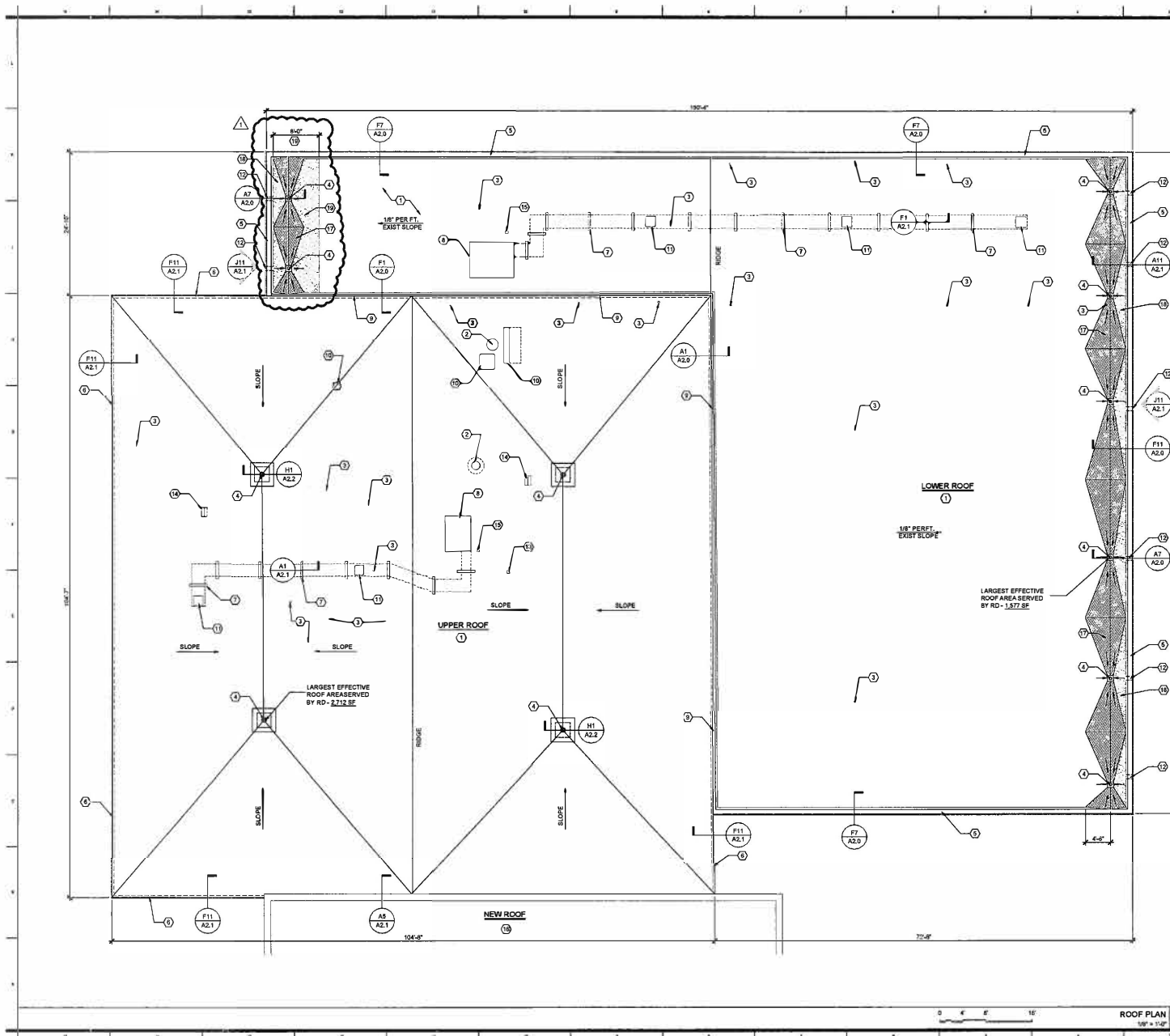
HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
1801 ORIENT ROAD
TAMPA, FLORIDA 33619

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RE-ENTRY CENTER ROOF RENOVATION

PROJECT #: 1715-00
DISTRIBUTION
100% CONST. DOCS 07/21/17
100% CONST. DOCS 08/09/17
ADDENDUMS 12/04/17

DEMOLITION
ROOF PLAN

A1.0



EXISTING VERTICAL LEADER SIZE
MAXIMUM ROOF AREA FOR EXISTING
LEADER (TABLE 106.2)

1" DIA
10,000 SF

ROOF DRAIN CALCULATION

L1

LOWER ROOF

EXIST INSUL. TO REMAIN, ADD 2" COVERBOARD.

UPPER ROOF

EXIST INSUL. TO REMAIN

GENERAL NOTES

1. ALL DIMENSIONS ARE FOR REFERENCE.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EFFECTIVE AREAS.
3. REPLACER ROOF SYSTEM, TYP.
4. REPLACE FLASHINGS, TYP.
5. REPLACER REPAIR ANY DAMAGED SUBSTRATES OR BLOCKING (NOT INDICATED AS DEMO).
6. CONFIRM ROOF SLOPES TO DRAIN AS INDICATED IN PLAN.
7. CONTRACTOR TO REMOVE AND REINSTALL ROOF TOP MOUNTED MECHANICAL EQUIPMENT AS NECESSARY TO FACILITATE REPLACEMENT OF ROOF SYSTEM. ROOF INSULATION NOT TO BE COFFED TO REDUCE PERFORMANCE INCLUDING R-VALUE.

SPECIFIC NOTES- ROOF PLAN

1. SINGLE PLY. ROOF SYSTEM ON EXIST INSUL. ON EXIST METAL DECK, TYP.
2. EXIST EXHAUST FAN TO REMAIN. PROVIDE NEW FLASHING.
3. EXIST VTR TO REMAIN. PROVIDE NEW FLASHING. SEE DETAIL A1A2.2.
4. EXIST RD. REPLACE CLAMPING RING AND STRAINER, TYP. RESET WITH NEW ROOF SYSTEM.
5. NEW PARAPET CORING, TYP.
6. NEW EDGE FLASHING, TYP.
7. EXIST MECH EQUIPMENT SUPPORT TO REMAIN. PROVIDE NEW FLASHING, TYP.
8. EXIST MECH EQUIPMENT CURB TO REMAIN. PROVIDE NEW FLASHING, TYP. SEE DETAILS J1A2.1 AND F1A2.1.
9. BUILDING EXPANSION JOINT. PROVIDE NEW EDGE FLASHING, TYP.
10. EXIST FAN SUPPORT TO REMAIN. PROVIDE NEW FLASHING, TYP. SEE DETAIL F1A2.1.
11. EXIST DUCT PENETRATION, TYP. SEE DETAILS J1A2.1 AND F1A2.1.
12. NEW SCUPPER 4" X 8". PROVIDE NEW FLASHING. INSTALL MET. DECK INFILL AND RECONCUL TO MATCH SURROUNDING THICKNESS OF ROOF.
13. EXIST VENT.
14. EXIST ELEC. COND. IN NEW PITCH POCKET WITH WATER TIGHT COVER. PROVIDE NEW FLASHING. SEE DETAIL E1A2.2.
15. EXISTING ROOFING SYSTEM TO REMAIN.
16. NEW CRACK REPAIR, TYP.
17. NEW CRACK REPAIR, TYP.
18. NEW CRACK REPAIR, TYP.
19. NEW CRACK REPAIR, TYP.
20. NEW CRACK REPAIR, TYP.

1315 E. SEVENTH AVENUE
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TELEPHONE 813.242.8877
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AA2000005
WILDERARCHITECTURE, INC.

DESIGN BY
JAMES W. THOMPSON, AIA
ARCHITECT
AIA 002791

HILLSBOROUGH COUNTY
SHERIFF'S OFFICE
1801 ORIENT ROAD
TAMPA, FLORIDA 33619

HILLSBOROUGH COUNTY SHERIFF'S OFFICE
RE-ENTRY CENTER ROOF RENOVATION

PROJECT # 1719-00
DISTRIBUTION DATE
50% CONST. DCOS 07/27/17
100% CONST. DCOS 08/08/17
ADDENDUM 5 12/06/17

ROOF PLAN

A1.1

Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 19:05:58



FLIR1672.JPG

2017/11/20 19:05:58



FLIR1672.JPG

PARAMETERS

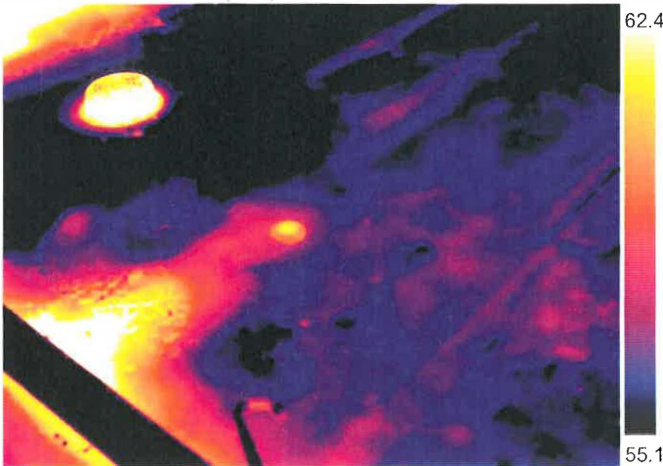
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	68.00 ft
Relative humidity	68 %
Atmospheric temperature	66.00 °F
Transmission	0.85

1800 Orient Road, Tampa, Florida. Three areas on each roof were verified positive thru impedance testing and core cuts. 13 core cuts were provided in dry and wet areas for verification. Refer to CAD for locations.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 19:37:41



FLIR1675.JPG

2017/11/20 19:37:41



FLIR1675.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Area #1 Core #1 on the lower roof
Southwest section. Perlite/ISO. Perlite wet
and ISO damp on bottom.

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Thermographer	Ron Kough	Contact Person	John Thompson



FLIR1676.JPG



FLIR1676.JPG

PARAMETERS

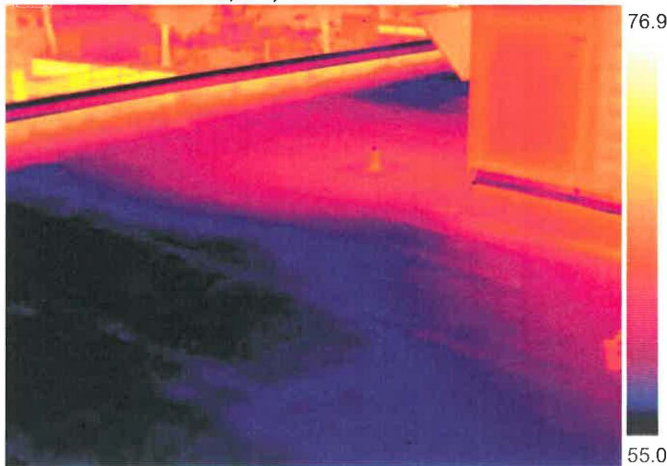
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	30.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Lower roof Southwest end Area #1 Core #2.
 Moisture between plies and damp ISO at
 bottom verified with impedance testing and
 core cut. Area under debris in corner could
 not be scanned.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 19:47:15



FLIR1678.JPG

2017/11/20 19:47:15



FLIR1678.JPG

PARAMETERS

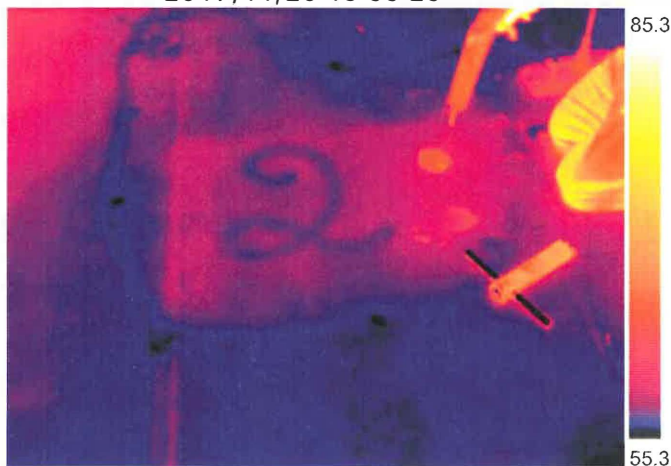
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	30.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Exhaust from mechanical unit on West side of lower roof. No elevated impedance was found.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 19:55:25



FLIR1684.JPG

2017/11/20 19:55:25



FLIR1684.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	15.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Lower roof Area #2 Core #3 verified that the perlite contained moisture but the ISO was dry.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 19:57:07



FLIR1685.JPG

2017/11/20 19:57:07



FLIR1685.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	35.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Under the duct work on the west side did not indicate any positive anomalies.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

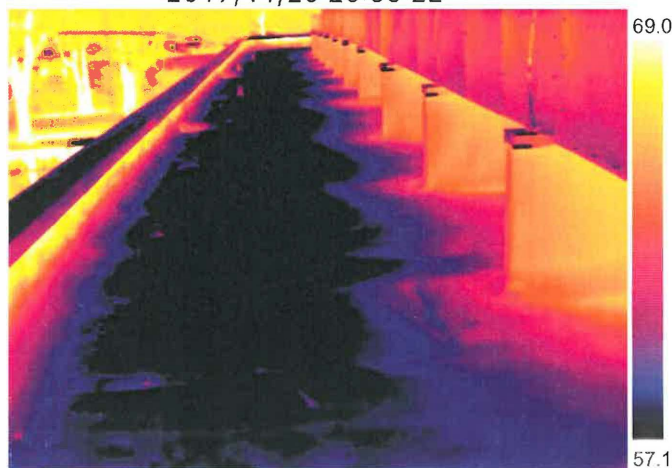
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking under the duct work did not find any elevated impedance.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:00:22



FLIR1691.JPG

2017/11/20 20:00:22



FLIR1691.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Overview on the West side of the lower roof duct work with debris. No positive anomalies were found.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:01:41



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2017/11/20 20:01:41



FLIR1693.JPG

PARAMETERS

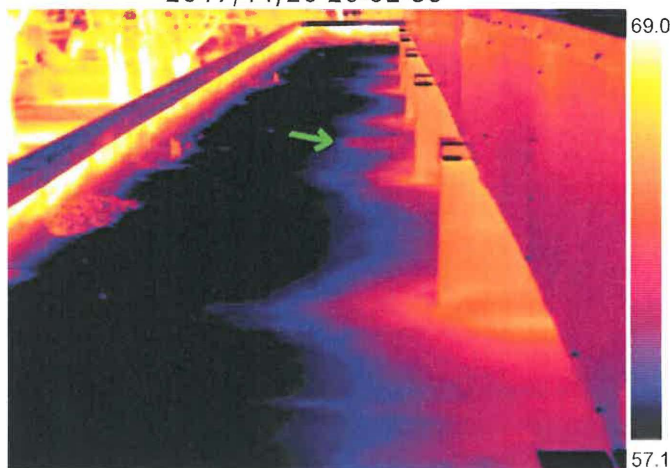
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance on the West side of the duct work.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:02:35



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2017/11/20 20:02:35



FLIR1695.JPG

PARAMETERS

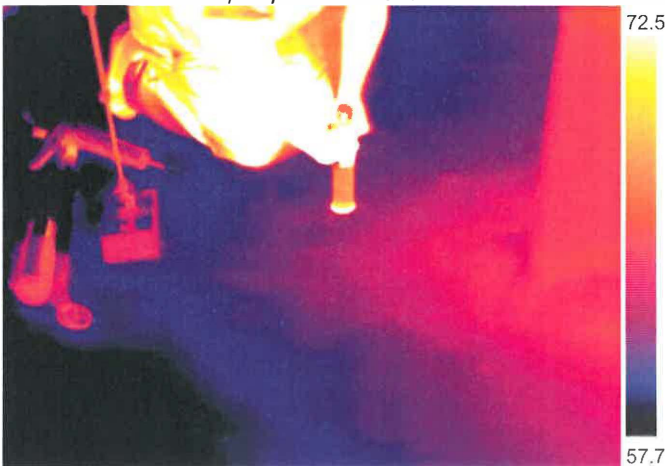
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	35.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Facing North on the West side of the duct work. Debris against the wall and arrow indicates a possible anomaly.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:03:52



FLIR1696.JPG

2017/11/20 20:03:52



FLIR1696.JPG

PARAMETERS

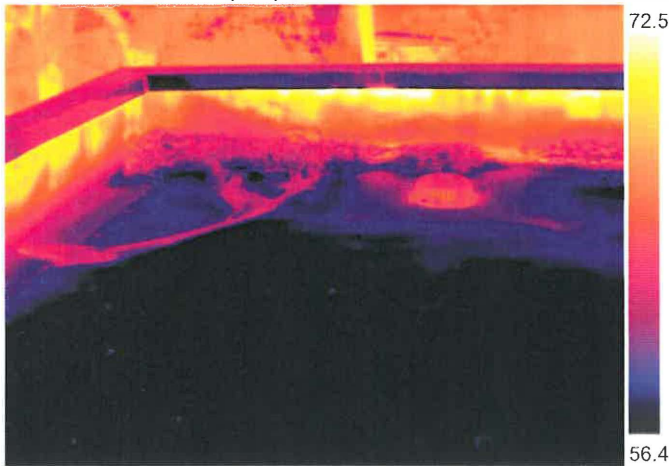
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Faint anomaly was checked and did not indicate any elevated impedance. Core cut #4 noted dry perlite and ISO. See CAD for location.

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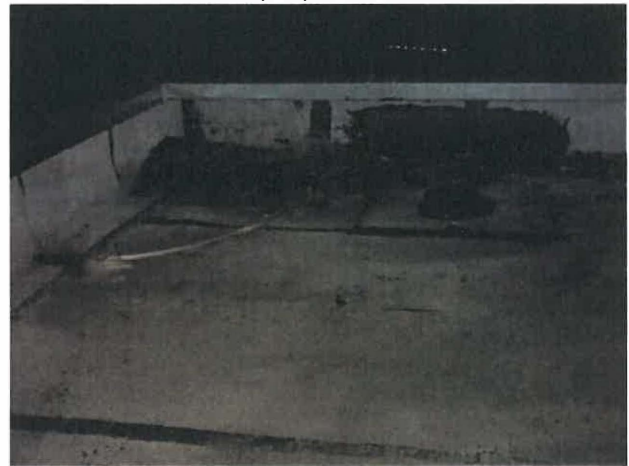
Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:09:15



FLIR1698.JPG

2017/11/20 20:09:15



FLIR1698.JPG

PARAMETERS

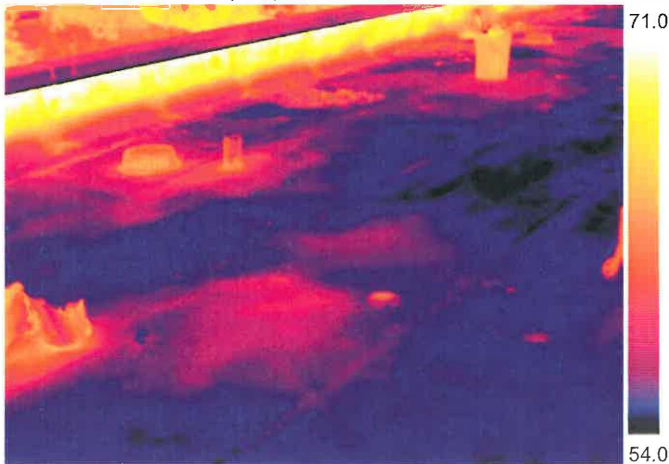
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

The Northwest corner with debris.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:23:09



FLIR1700.JPG

2017/11/20 20:23:09



FLIR1700.JPG

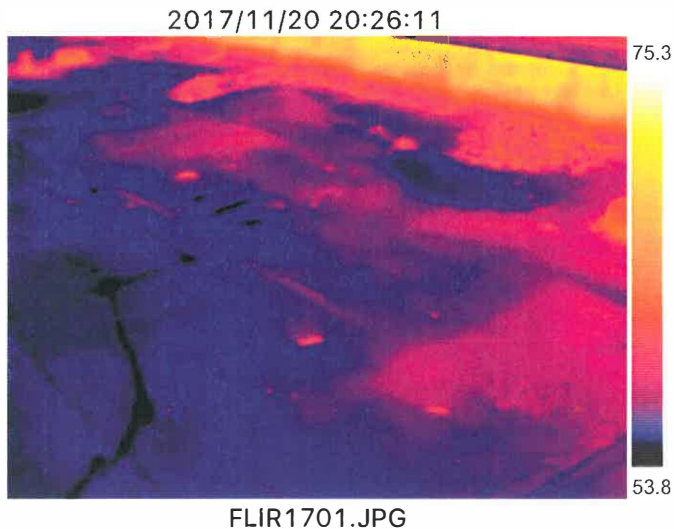
PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	35.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

The North end of the lower roof with debris and anomalies. Identified as area #3 with core cut #5 & #6. #5 was wet between the plies and #6 contained moisture between the plies and the perlite was wet.

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Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

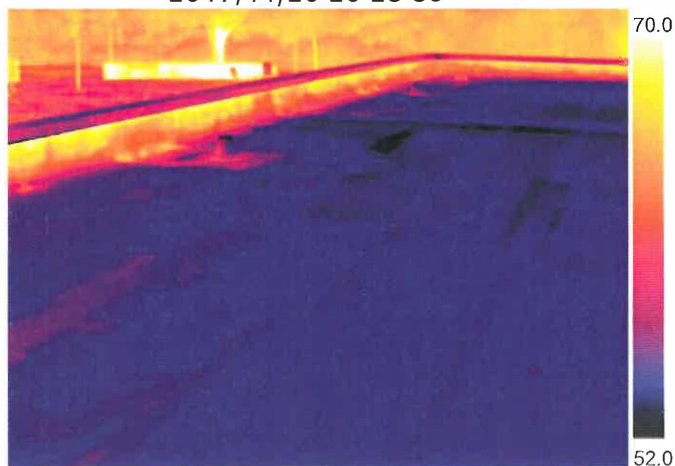
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	35.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Area #3 on the North side of the lower roof with positive anomalies. See CAD for location.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:28:39



FLIR1702.JPG

2017/11/20 20:28:39



FLIR1702.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	40.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Overview of the remaining North end of the lower roof did not indicate any anomalies with elevated impedance.

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Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



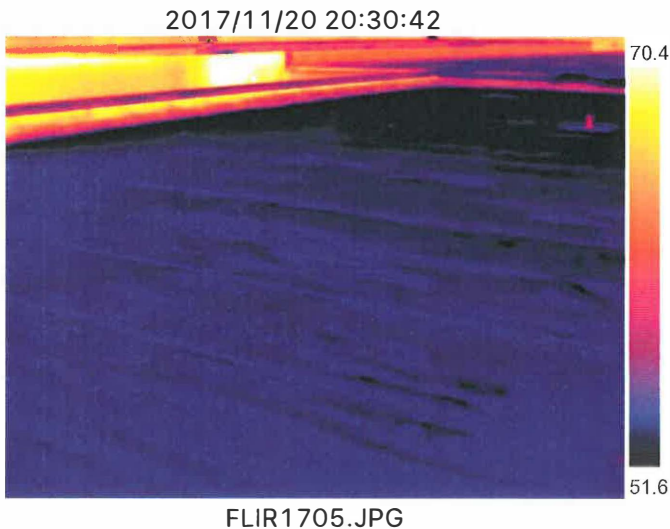
PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance on the North side.

Disclaimer: Infrared and/or digital images provided in any report are time dependent and conditions will change. It should be understood that any visual or infrared inspections/scans were of existing conditions and that in the absence of destructive testing, not all aspects of the building construction and or conditions could be specifically validated. The information contained in any reports submitted, reflects the conditions on the date and time the infrared/visual inspection/scan was performed. The accuracy of the information submitted is not to be construed as a guarantee. No other warranties are expressed or implied.

Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	40.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Overview of the lower roof facing Southeast with blisters did not indicate any positive anomalies.

Disclaimer: Infrared and/or digital images provided in any report are time dependent and conditions will change. It should be understood that any visual or infrared inspections/scans were of exiting conditions and that in the absence of destructive testing, not all aspects of the building construction and or conditions could be specifically validated. The information contained in any reports submitted, reflects the conditions on the date and time the infrared/visual inspection/scan was performed. The accuracy of the information submitted is not to be construed as a guarantee. No other warranties are expressed or implied.

Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	40.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance which was not elevated.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:33:18



FLIR1708.JPG

2017/11/20 20:33:18



FLIR1708.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance which was not elevated.

Disclaimer: Infrared and/or digital images provided in any report are time dependent and conditions will change. It should be understood that any visual or infrared inspections/scans were of existing conditions and that in the absence of destructive testing, not all aspects of the building construction and or conditions could be specifically validated. The information contained in any reports submitted, reflects the conditions on the date and time the infrared/visual inspection/scan was performed. The accuracy of the information submitted is not to be construed as a guarantee. No other warranties are expressed or implied.

Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

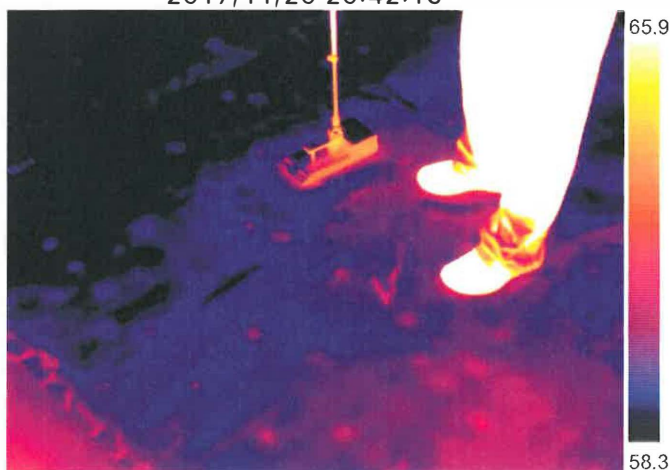
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	40.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Heavy asphalt and repair indicate faint anomalies. No elevated impedance was noted.

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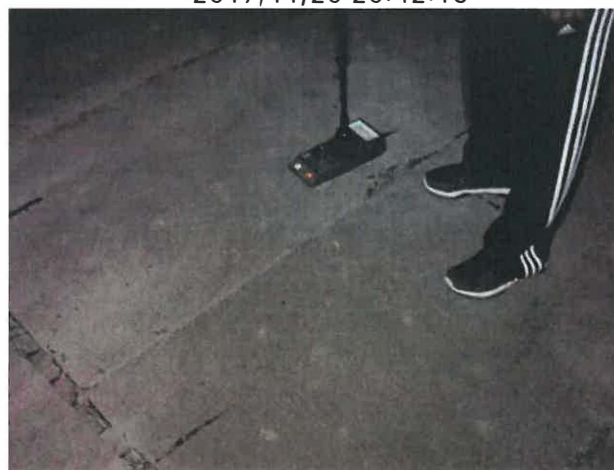
Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:42:15



FLIR1713.JPG

2017/11/20 20:42:15



FLIR1713.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Area on the East side of the upper roof with reflection from wall. No elevated impedance was noted. Core #7 noted dry.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



FLIR1716.JPG



FLIR1716.JPG

PARAMETERS

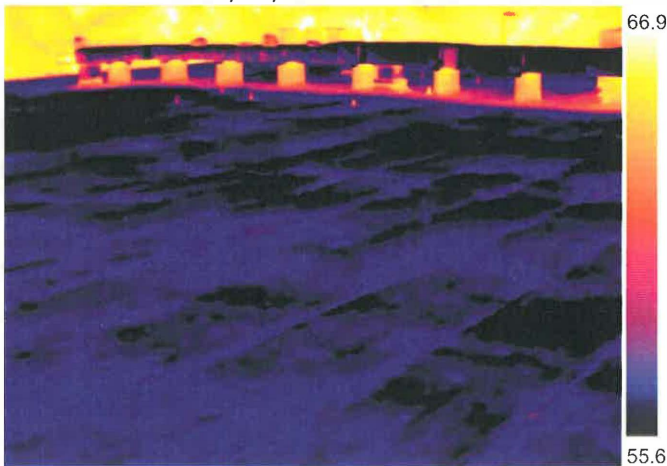
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	25.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Another section near the East wall is checked with no elevated impedance.

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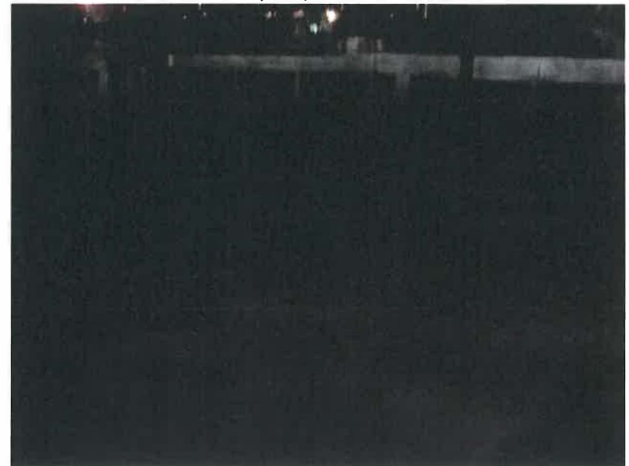
Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:45:39



FLIR1717.JPG

2017/11/20 20:45:39



FLIR1717.JPG

PARAMETERS

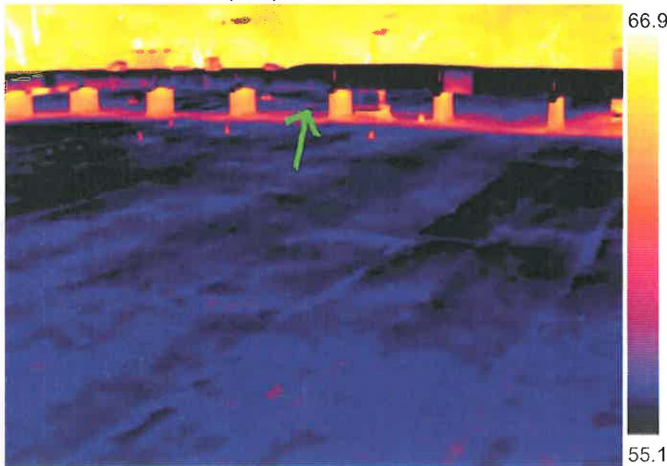
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	50.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Overview Southwest did not indicate any anomalies with elevated impedance.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:46:21



FLIR1718.JPG

2017/11/20 20:46:21



FLIR1718.JPG

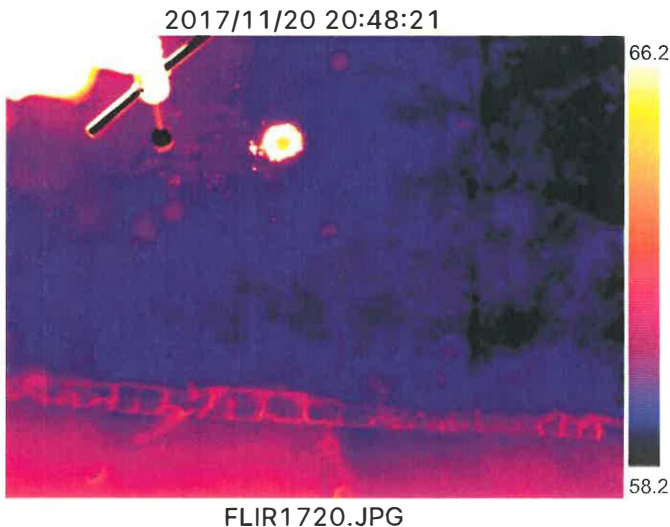
PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	50.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Overview Southwest indicates one possible anomaly.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

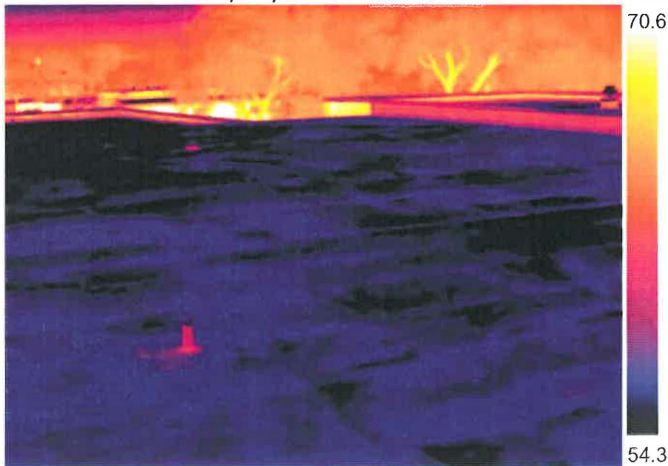
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	8.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Core #8 near the East wall was dry.

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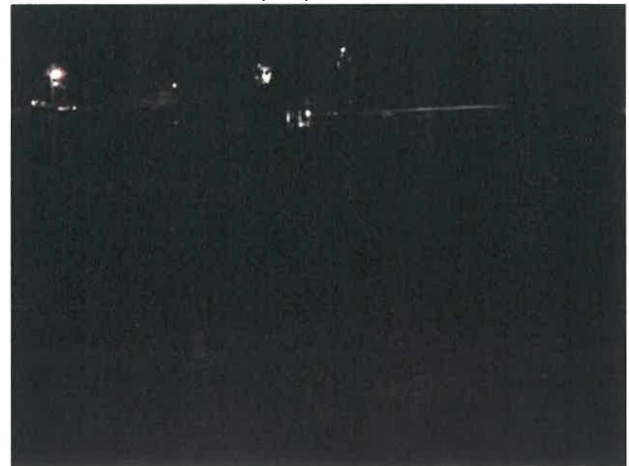
Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:52:43



FLIR1721.JPG

2017/11/20 20:52:43



FLIR1721.JPG

PARAMETERS

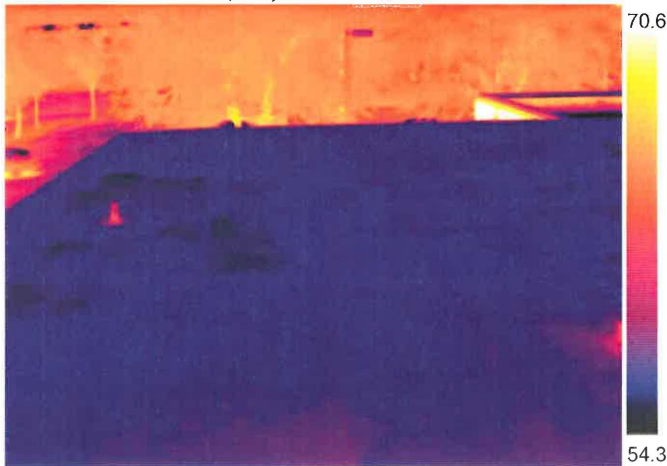
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	50.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Facing North with no positive anomalies found.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:53:07



FLIR1722.JPG

2017/11/20 20:53:07



FLIR1722.JPG

PARAMETERS

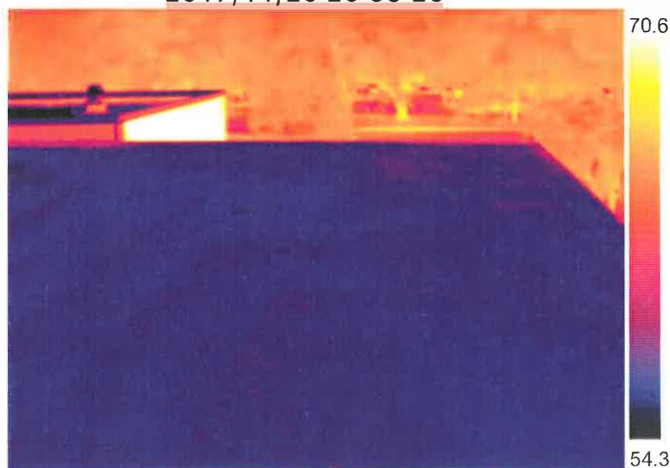
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	50.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

The Southwest corner with no positive anomalies found.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:53:26



FLIR1723.JPG

2017/11/20 20:53:26



FLIR1723.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	50.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

The Southeast corner of the upper roof with no positive anomalies found.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson



PARAMETERS

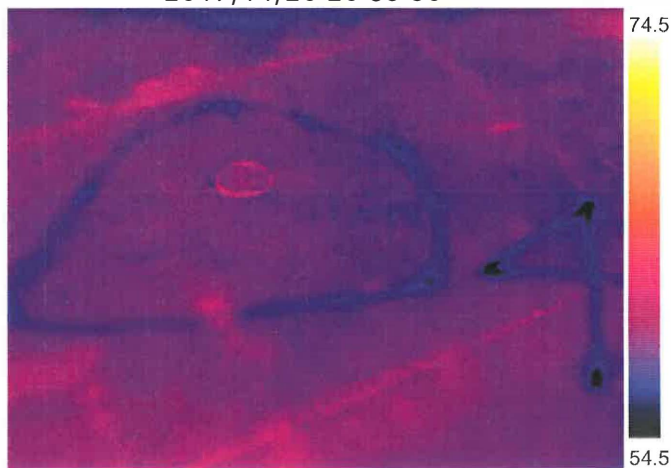
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	5.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Core #9 of a faint anomaly on the West side of the duct work on the upper roof indicated moisture between the roofing plies.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 20:59:30



FLIR1726.JPG

2017/11/20 20:59:30



FLIR1726.JPG

PARAMETERS

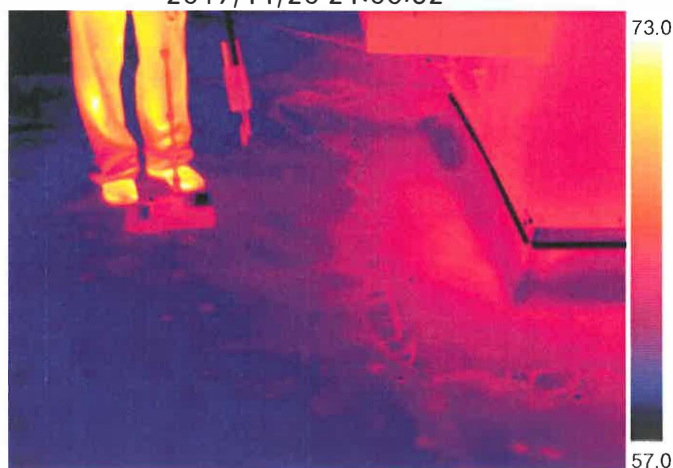
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	5.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Slight anomaly in Area #4 core #9.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:06:52



FLIR1729.JPG

2017/11/20 21:06:52



FLIR1729.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance near a mechanical unit with no elevated impedance.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:19:29



FLIR1730.JPG

2017/11/20 21:19:29



FLIR1730.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	40.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Area #5 with Core #11 and #12 noting moisture between the roofing plies. See CAD for location.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:21:43



FLIR1731.JPG

2017/11/20 21:21:43



FLIR1731.JPG

PARAMETERS

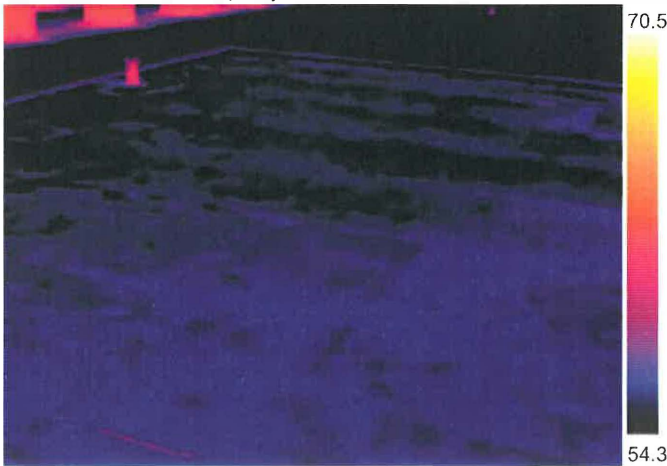
Emissivity	0.95
Refl. temp.	68.00 °F
Distance	20.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Another view of anomaly #5.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2505 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:23:20



FLIR1733.JPG

2017/11/20 21:23:20



FLIR1733.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	30.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Facing North with no positive anomalies found.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:24:58



FLIR1736.JPG

2017/11/20 21:24:58



FLIR1736.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	30.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Checking impedance.

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Company	Roof Assessment Specialists, Inc.	Customer	Wilder Architecture
Address	2605 72nd Avenue, #922 Ellenton, FL 34222	Site Address	1800 Orient Road Tampa, Florida
Thermographer	Ron Kough	Contact Person	John Thompson

2017/11/20 21:29:55



FLIR1738.JPG

2017/11/20 21:29:55



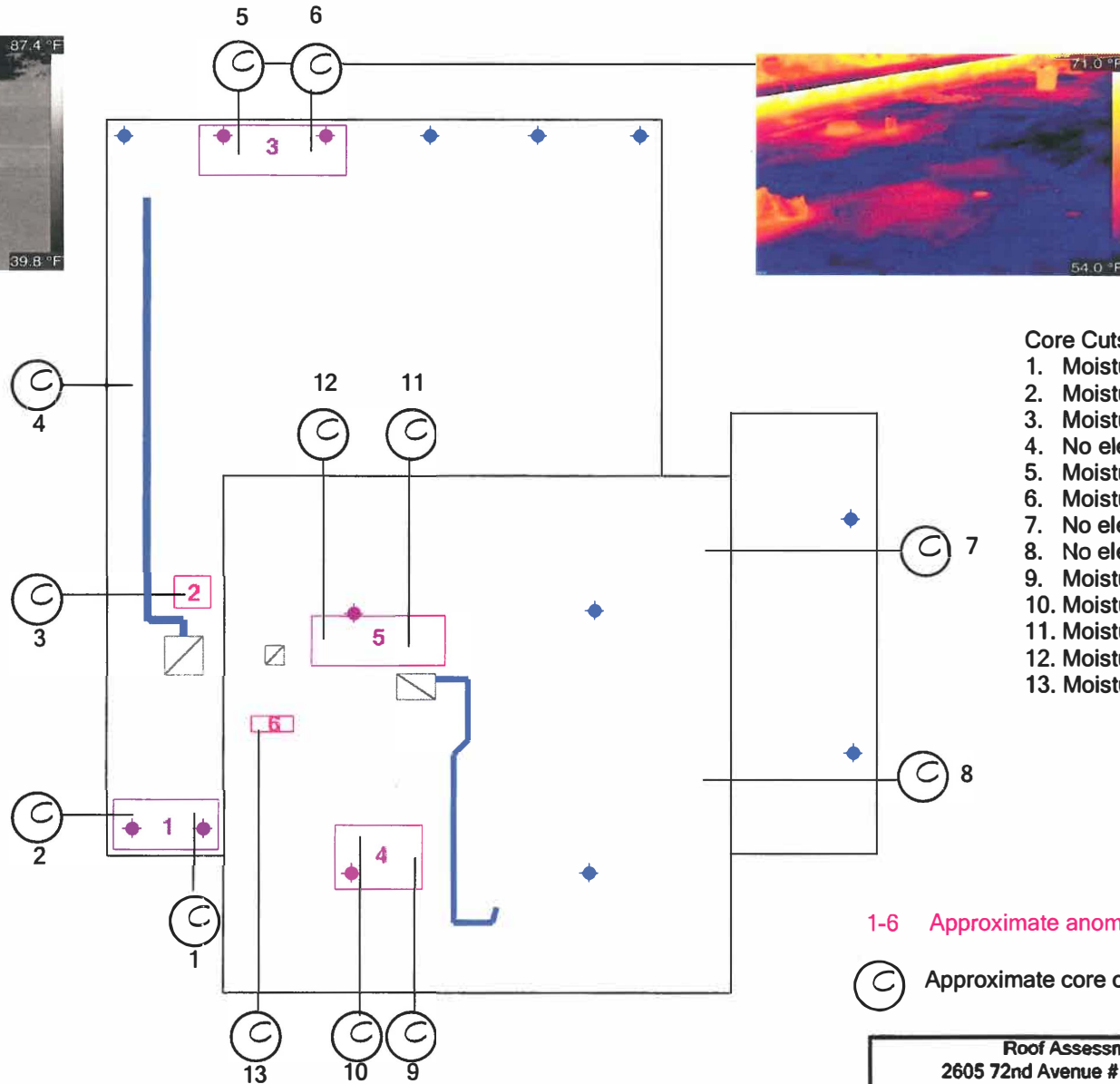
FLIR1738.JPG

PARAMETERS

Emissivity	0.95
Refl. temp.	68.00 °F
Distance	10.00 ft
Relative humidity	73 %
Atmospheric temperature	64.00 °F
Transmission	0.85

Area #6 with Core #13 noted positive anomaly with moisture found between the roofing plies.

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Core Cuts

1. Moisture in perlite & ISO.
2. Moisture between BUR plies.
3. Moisture in perlite-ISO dry.
4. No elevated impedance-dry.
5. Moisture between BUR plies.
6. Moisture between BUR plies.
7. No elevated impedance-dry.
8. No elevated impedance-dry.
9. Moisture between BUR plies.
10. Moisture on bottom of base ply.
11. Moisture between BUR plies.
12. Moisture between BUR plies.
13. Moisture between BUR plies.

1-6 Approximate anomaly/high impedance areas.

(C) Approximate core cut location.

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Exhibit A: Page 40 of Appendix One

Roof Assessment Specialists, Inc. 2605 72nd Avenue # 922, Ellenton, Florida 34222 941-812-5996	
Project:	1800 Orient Road
Client:	Wilder Architecture, Inc.
DWG. BY:	Roof Assessment Specialists, Inc.
Date:	11/20/17
Scale:	N.T.S.
Drawing property of Roof Assessment Specialists, Inc. It may not be reproduced without written consent.	