

**Aerial Infrared
Roof Moisture Survey of
Collin County Justice Center
McKinney, TX
March 31, 2017**



COLLIN COUNTY

Justice Center



Aerial Infrared Roof Moisture Survey Report

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- Thermographs, photographs and CAD drawings in this report,
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Aerial Infrared Imagery

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Gregory R. Stockton, Level III, CIT #3658

Stockton Infrared Thermographic Services, Inc.
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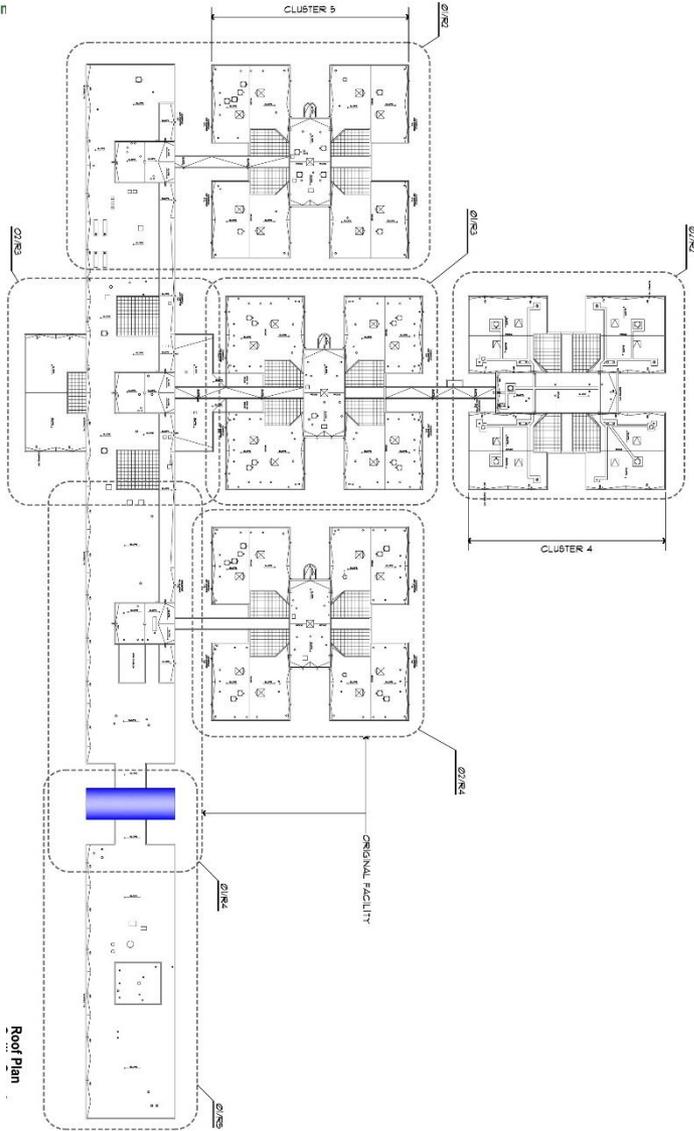


Aerial Infrared Roof Moisture Survey March 31, 2017

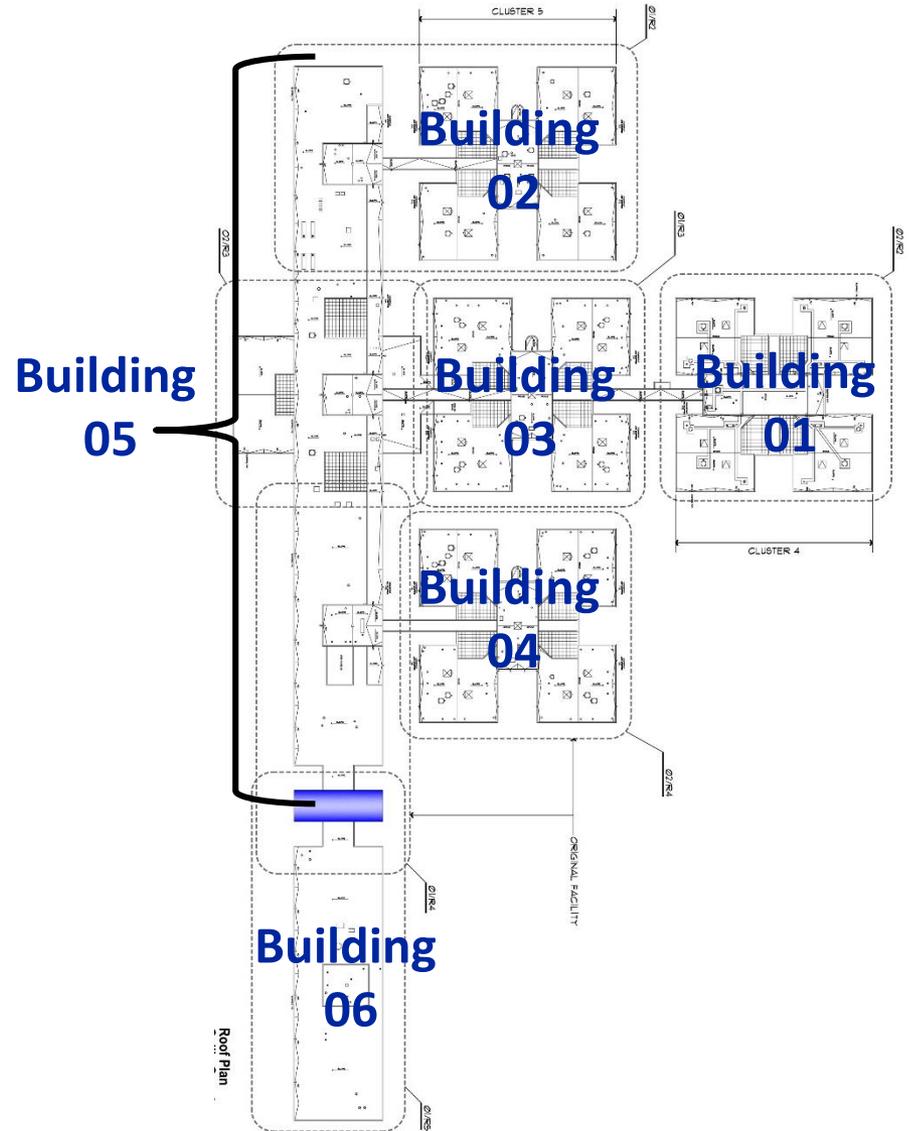


COLLIN COUNTY Justice Center

Key to Building Numbers



Roof Plan



Roof Plan



**Aerial Infrared
Roof Moisture Survey
March 31, 2017**



COLLIN COUNTY
Justice Center

Building 01



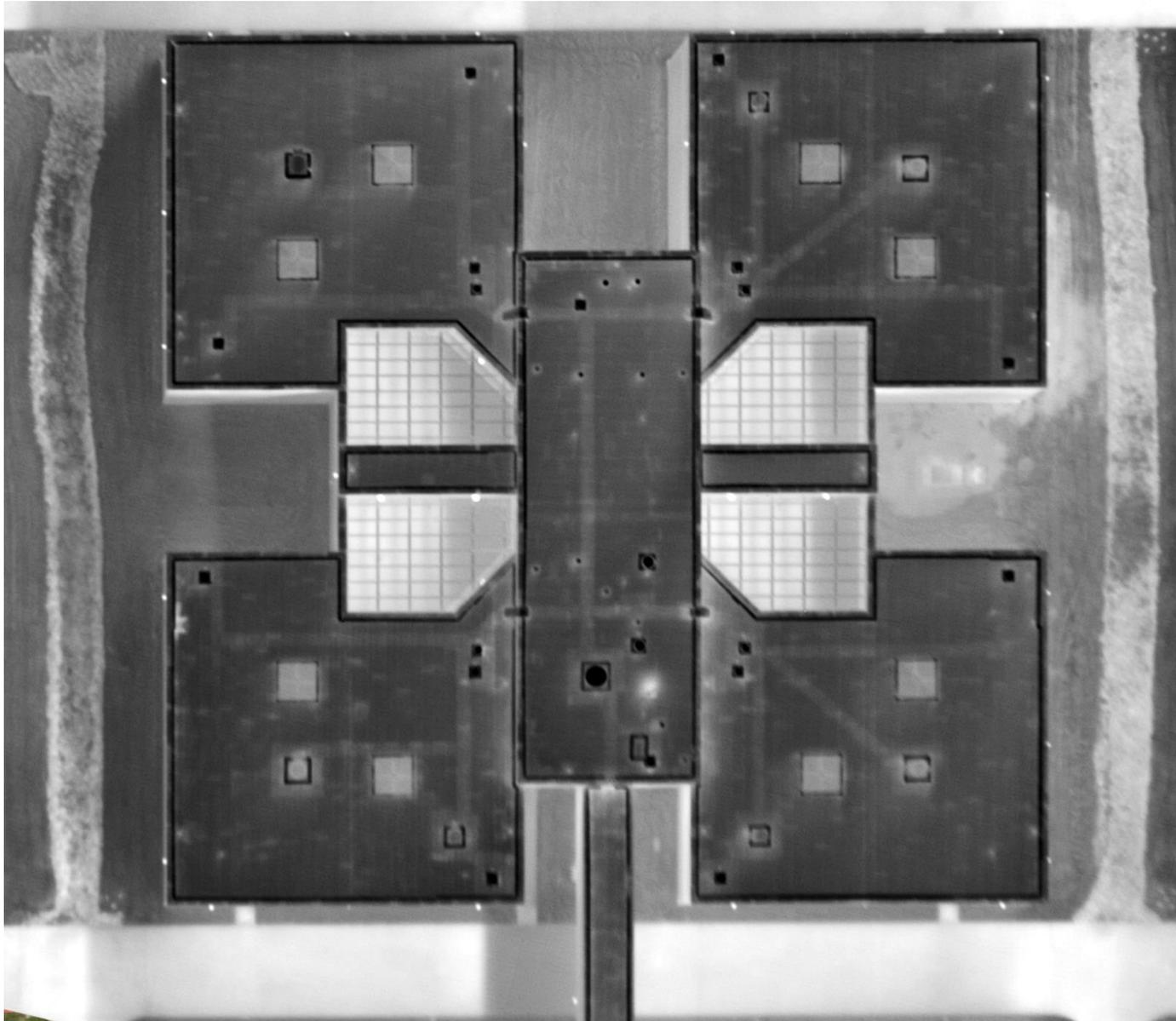


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COLLIN COUNTY
Justice Center

Building 01



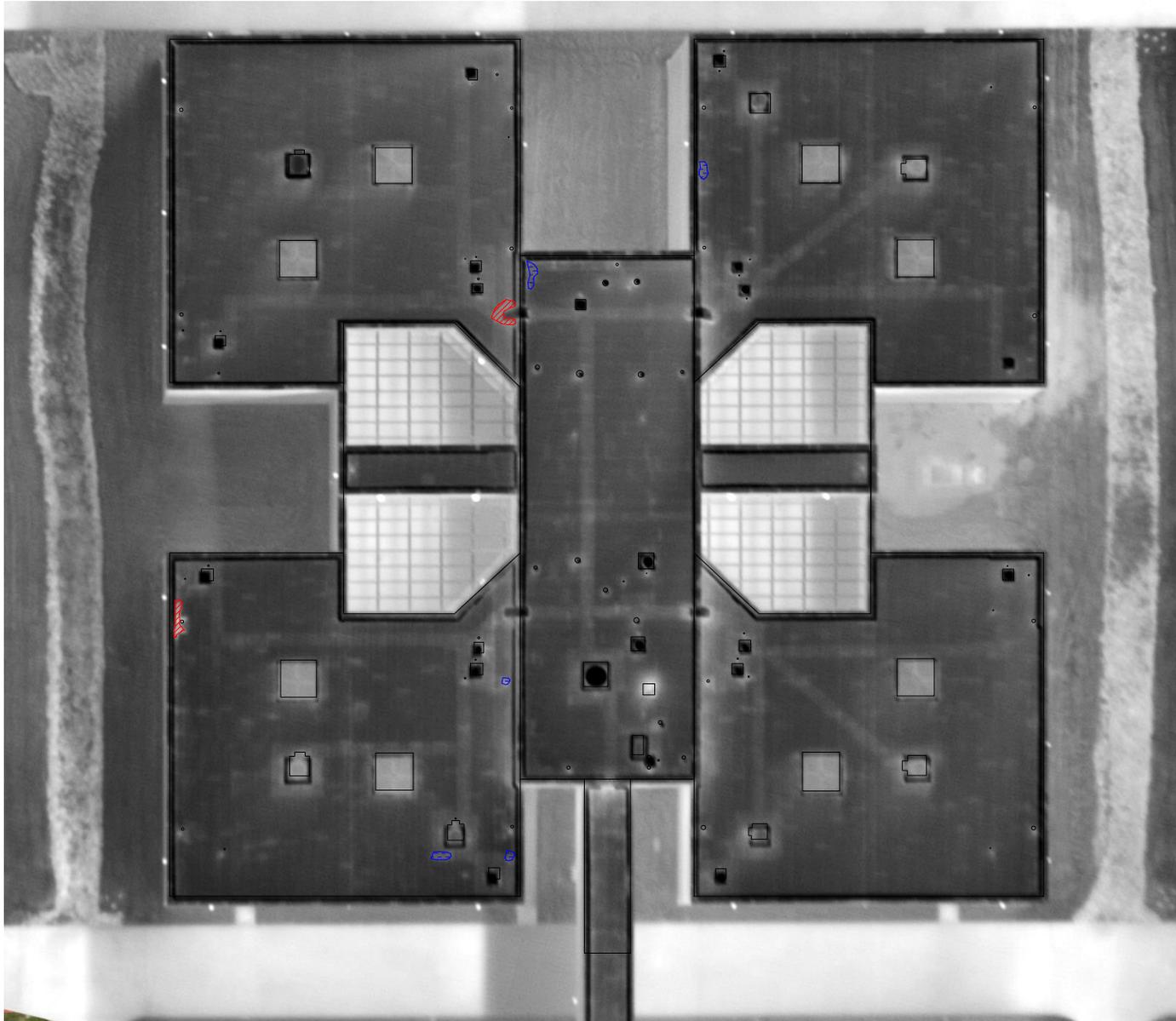


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COLLIN COUNTY
Justice Center

Building 01



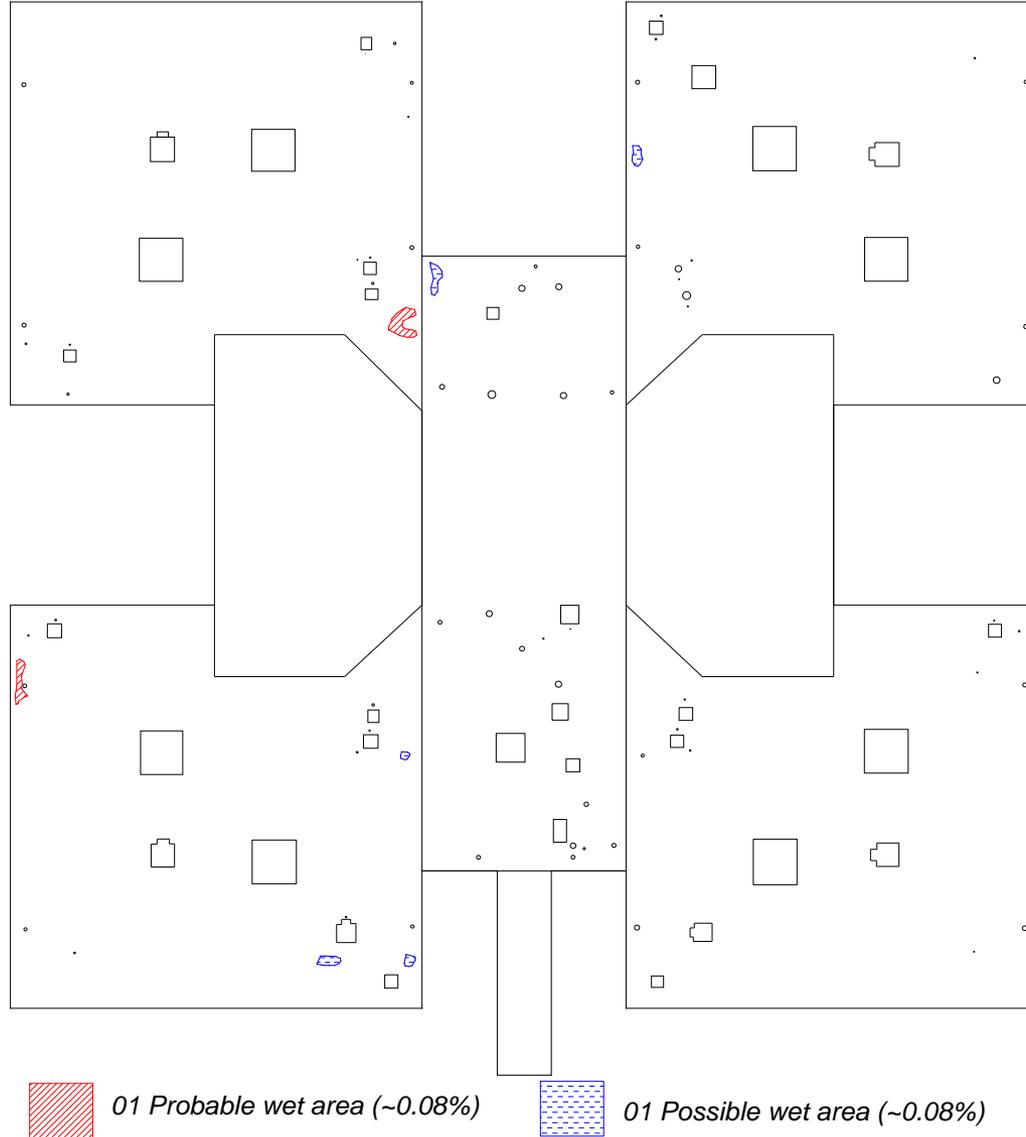


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COLLIN COUNTY Justice Center

Building 01





Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY *Justice Center*

Building 01



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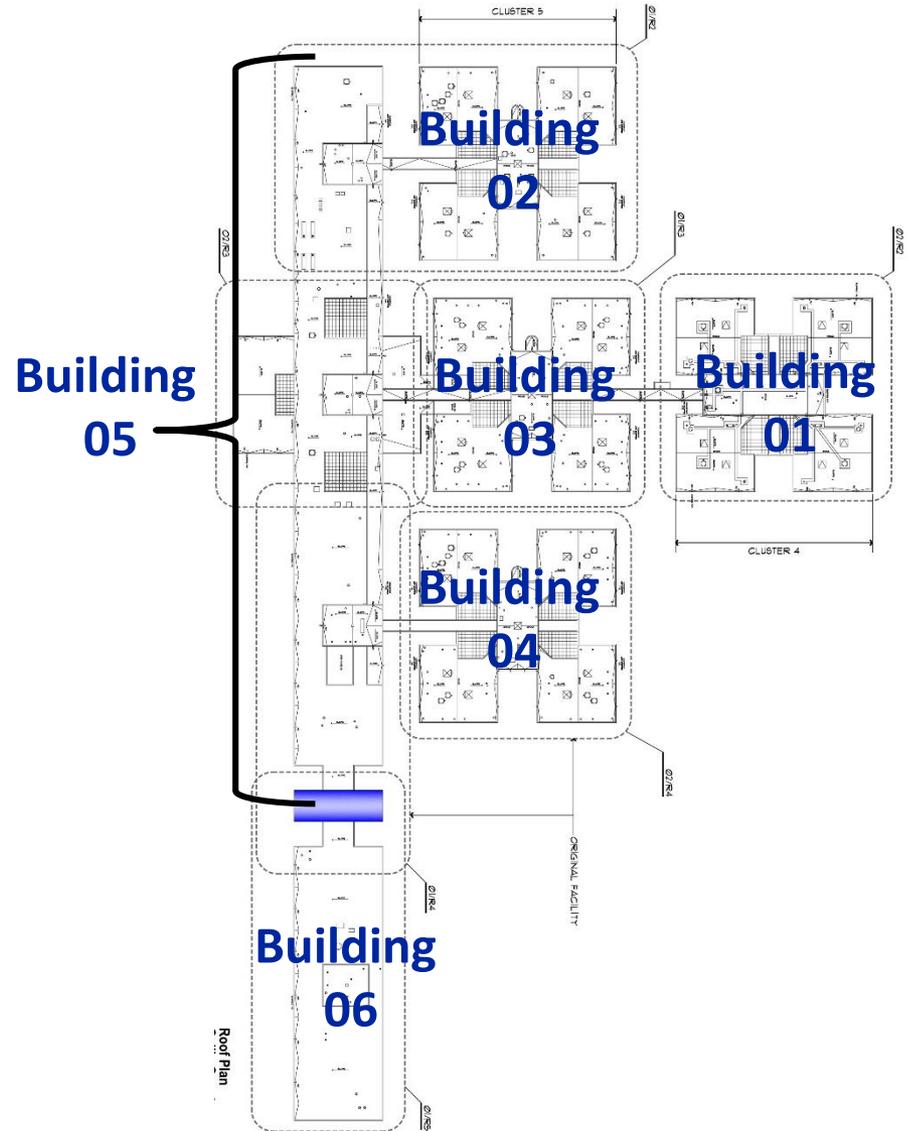
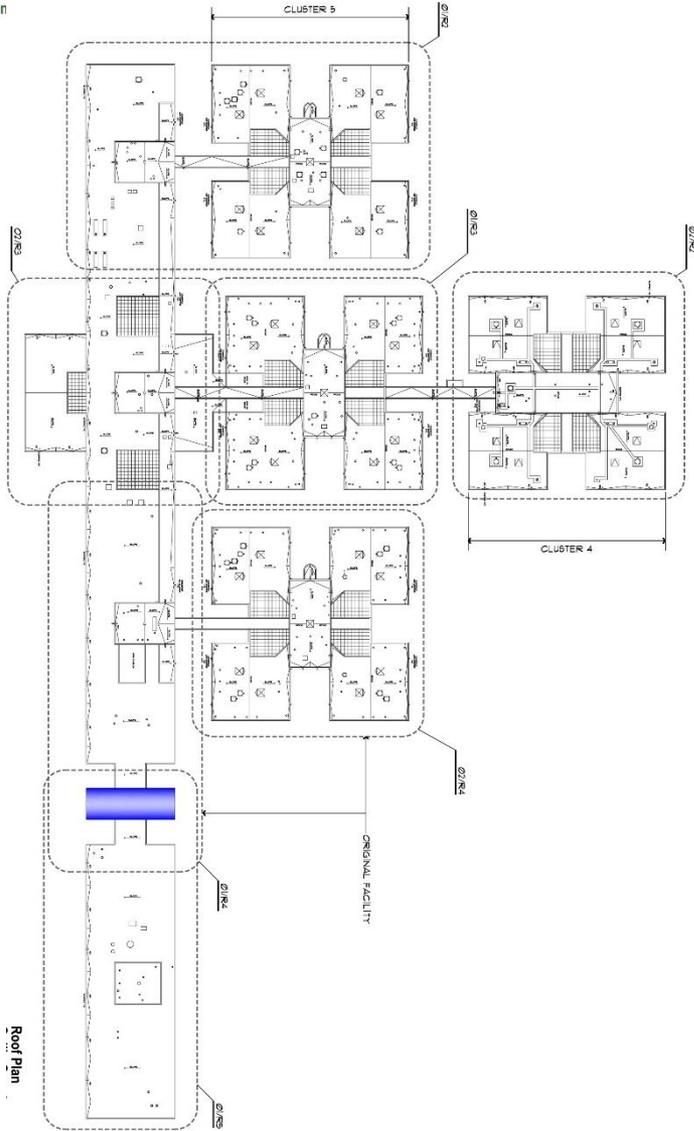


Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY Justice Center

Key to Building Numbers





**Aerial Infrared
Roof Moisture Survey
March 31, 2017**



COLLIN COUNTY
Justice Center

Building 02





Moisture Protection
Technology Consultants

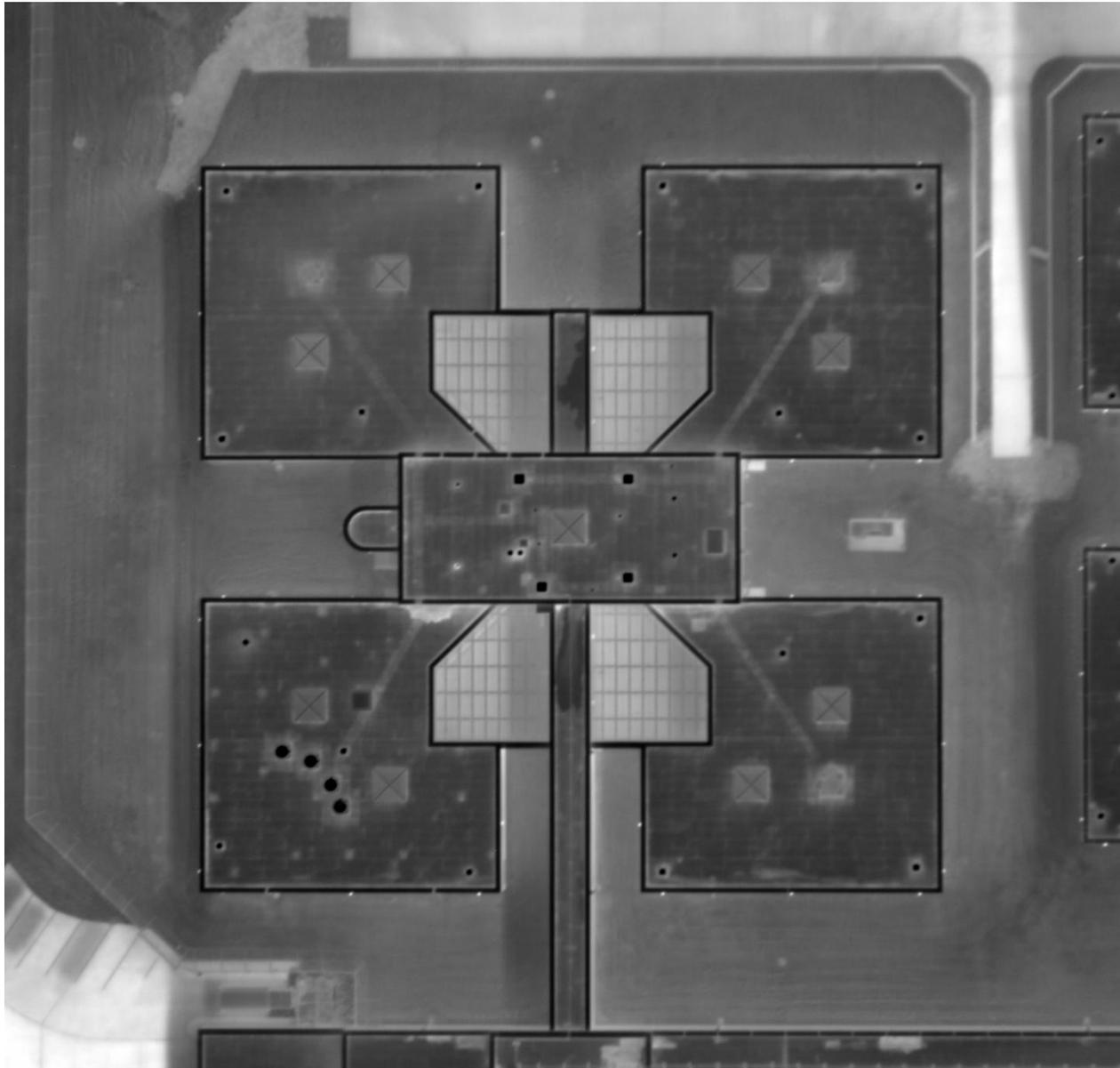


Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY
Justice Center

Building 02



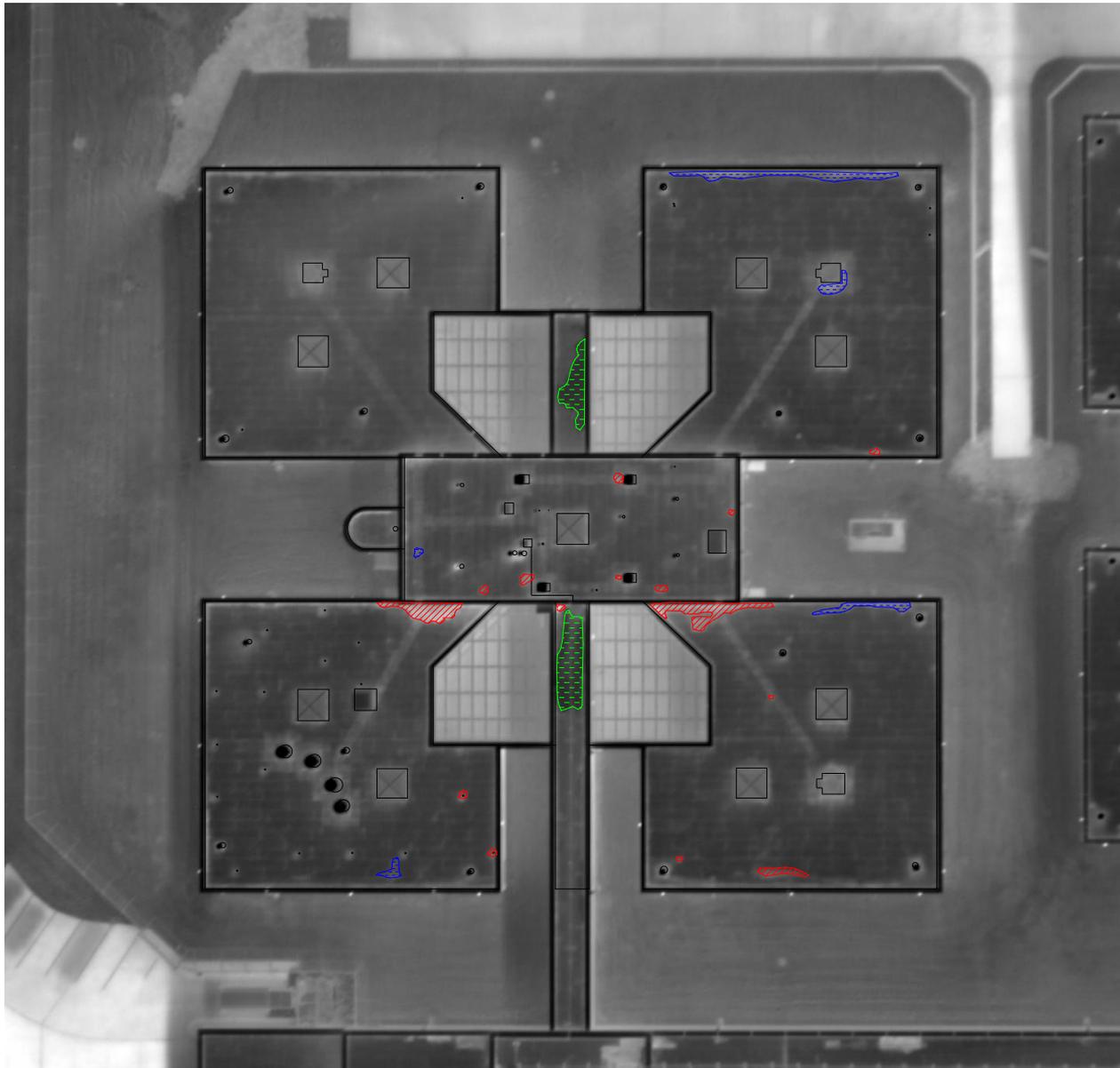


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COLLIN COUNTY Justice Center

Building 02



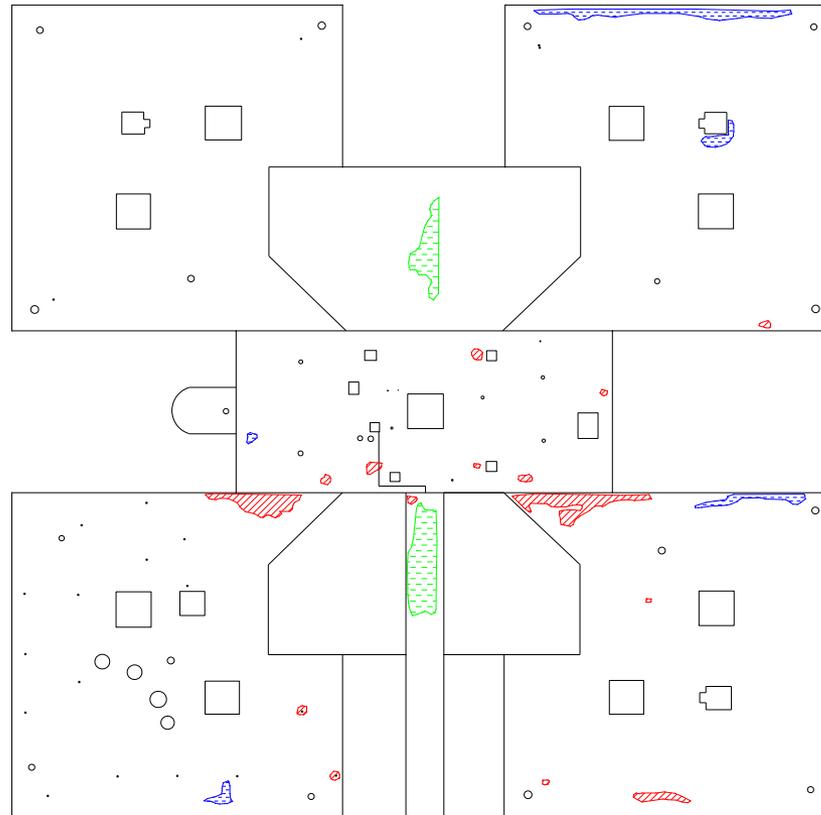


Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY Justice Center

Building 02



02 Probable wet area (~0.72%)



02 Possible wet area (~0.53%)



02 Ponding area (~0.77%)



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COLLIN COUNTY
Justice Center

Building 02



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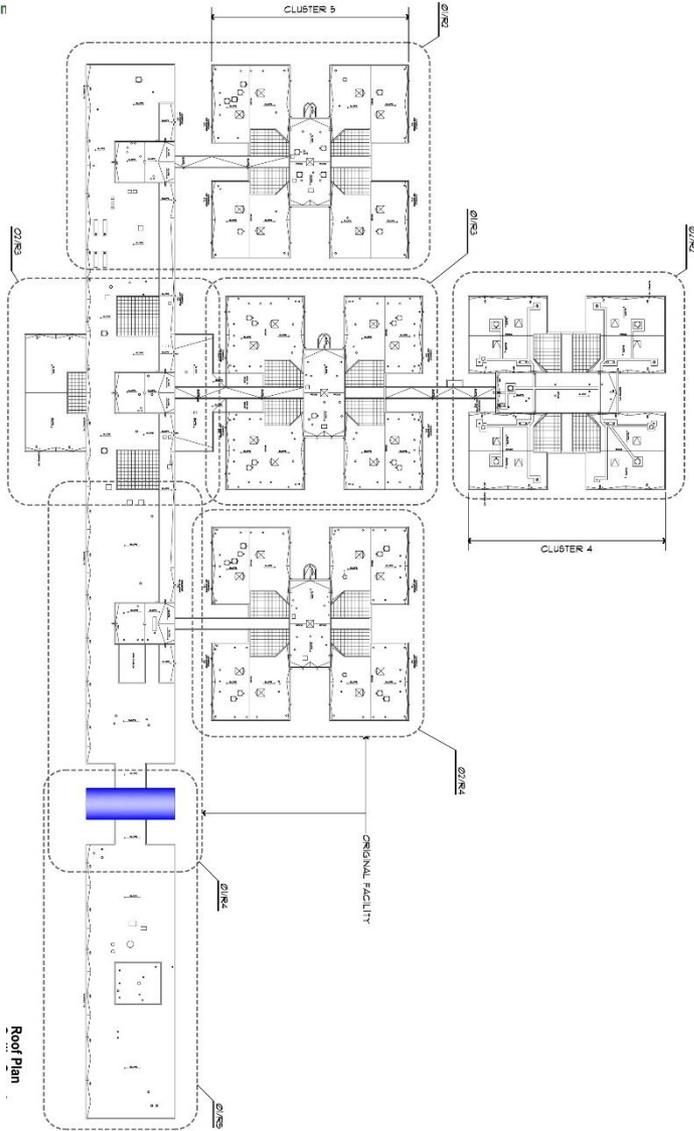


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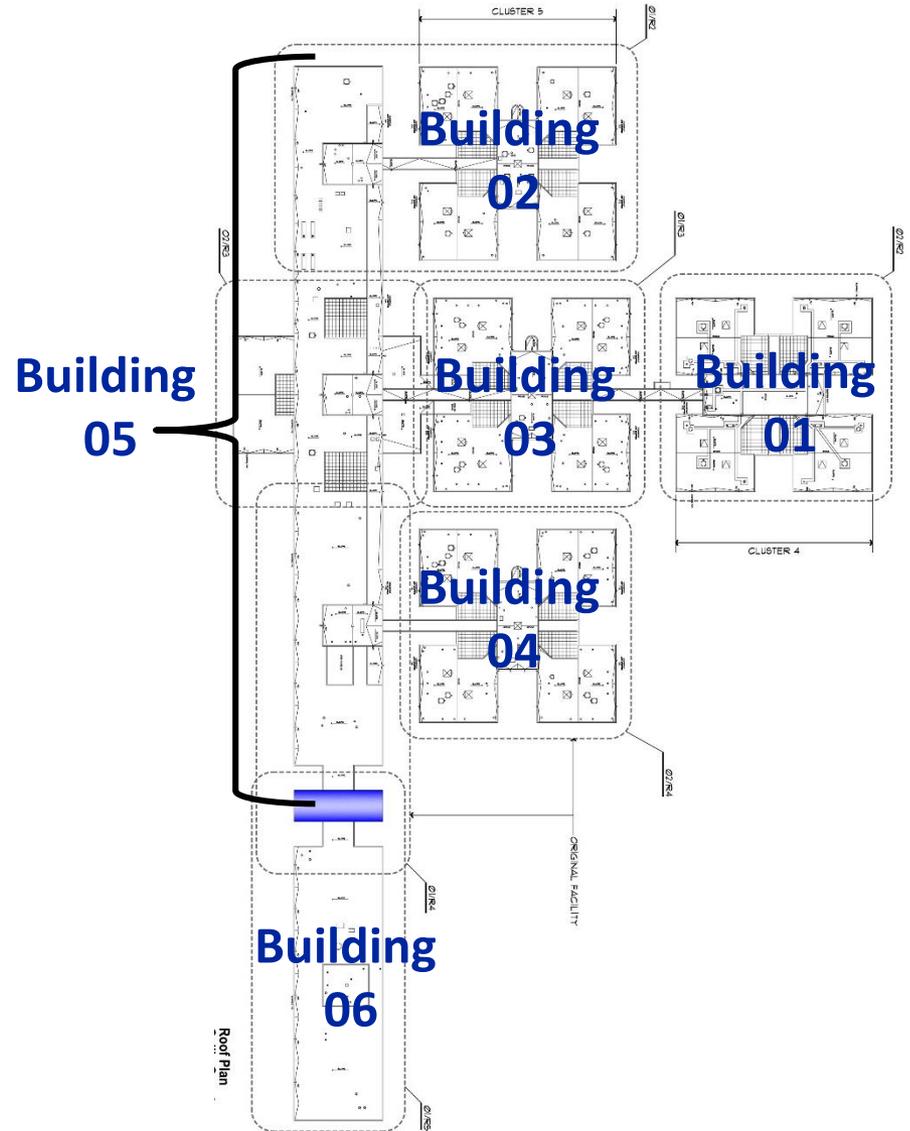


COLLIN COUNTY Justice Center

Key to Building Numbers



Roof Plan



Roof Plan



**Aerial Infrared
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COLLIN COUNTY
Justice Center

Building 03



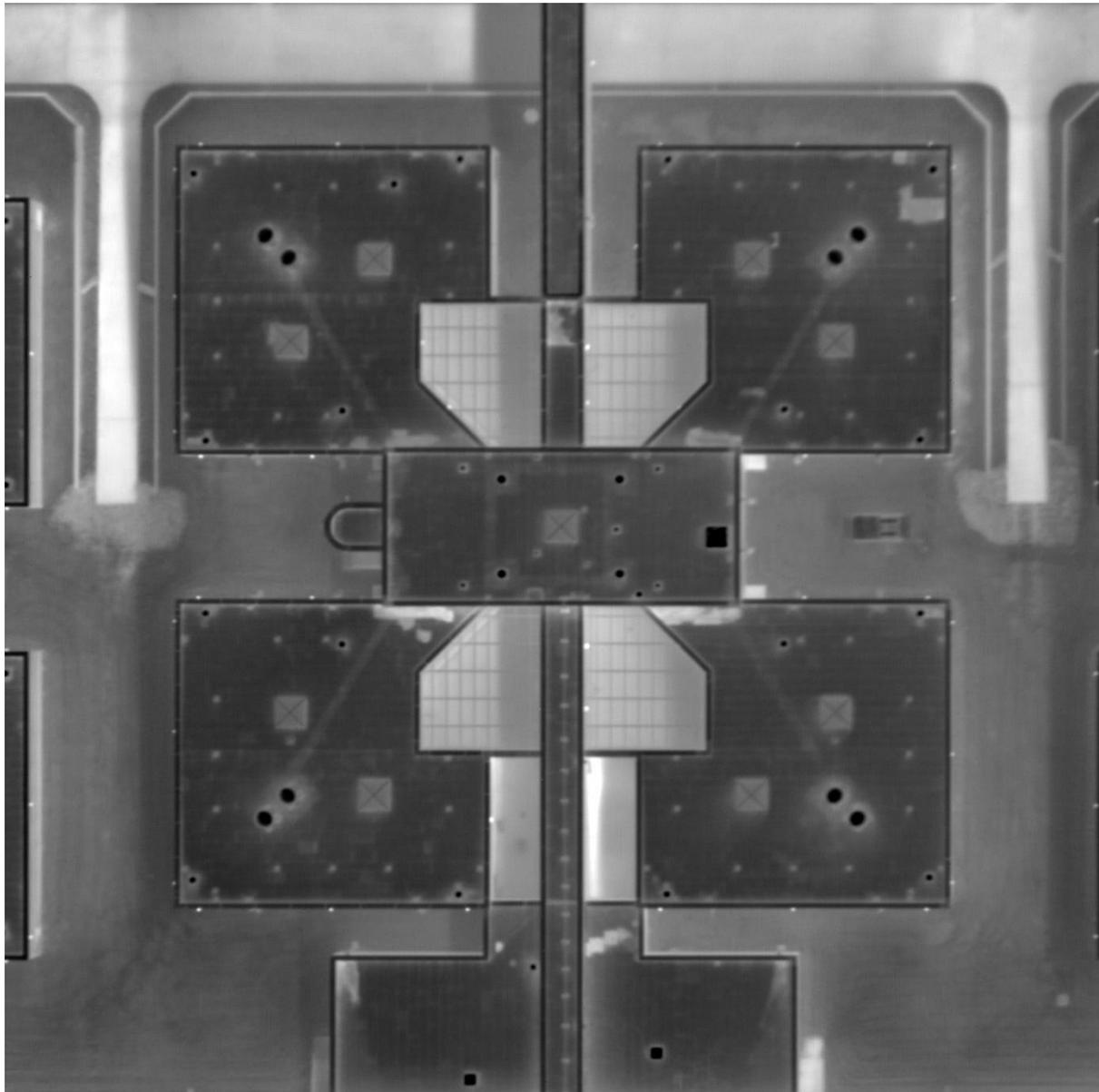


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COLLIN COUNTY
Justice Center

Building 03



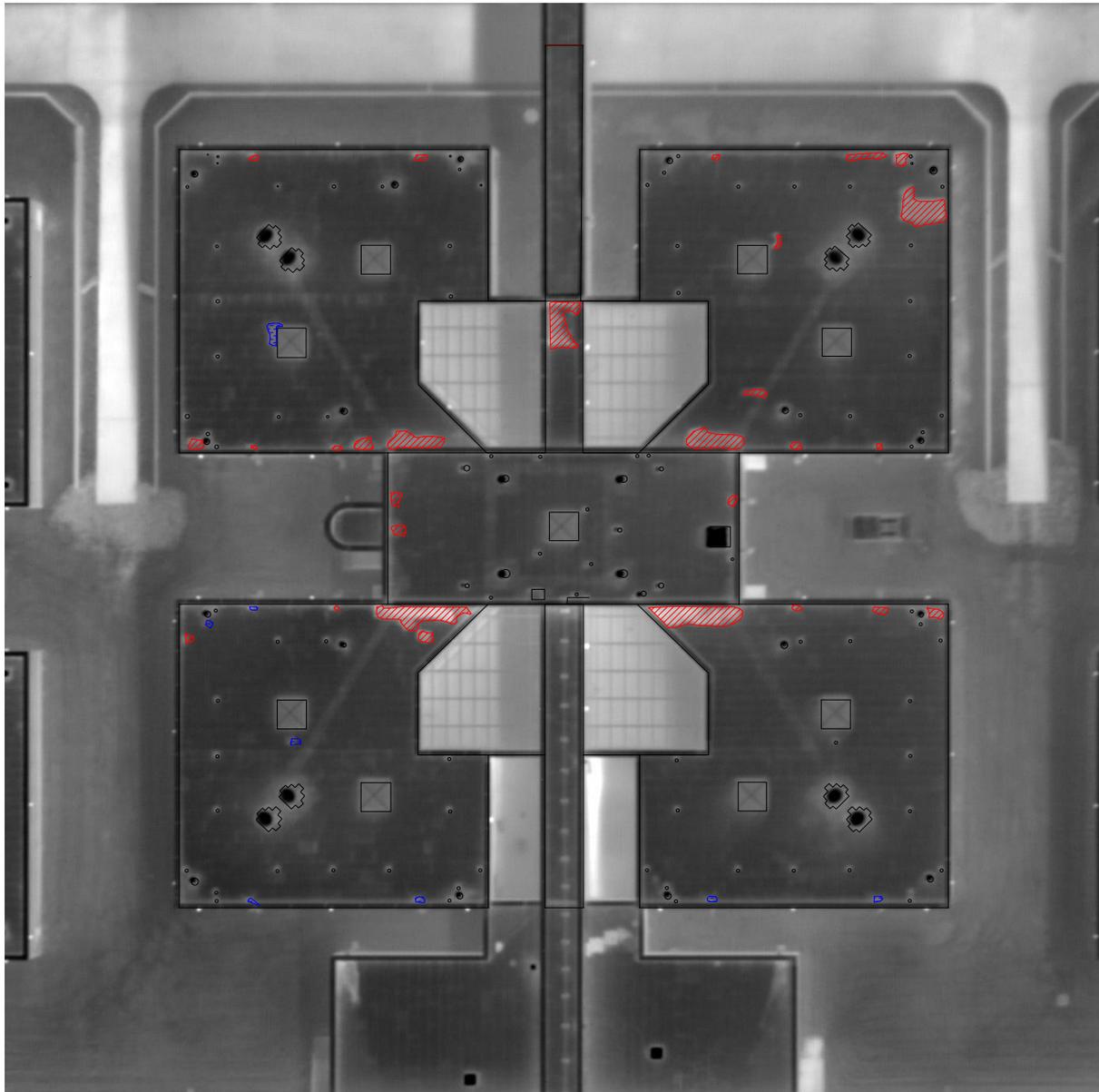


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COLLIN COUNTY
Justice Center

Building 03



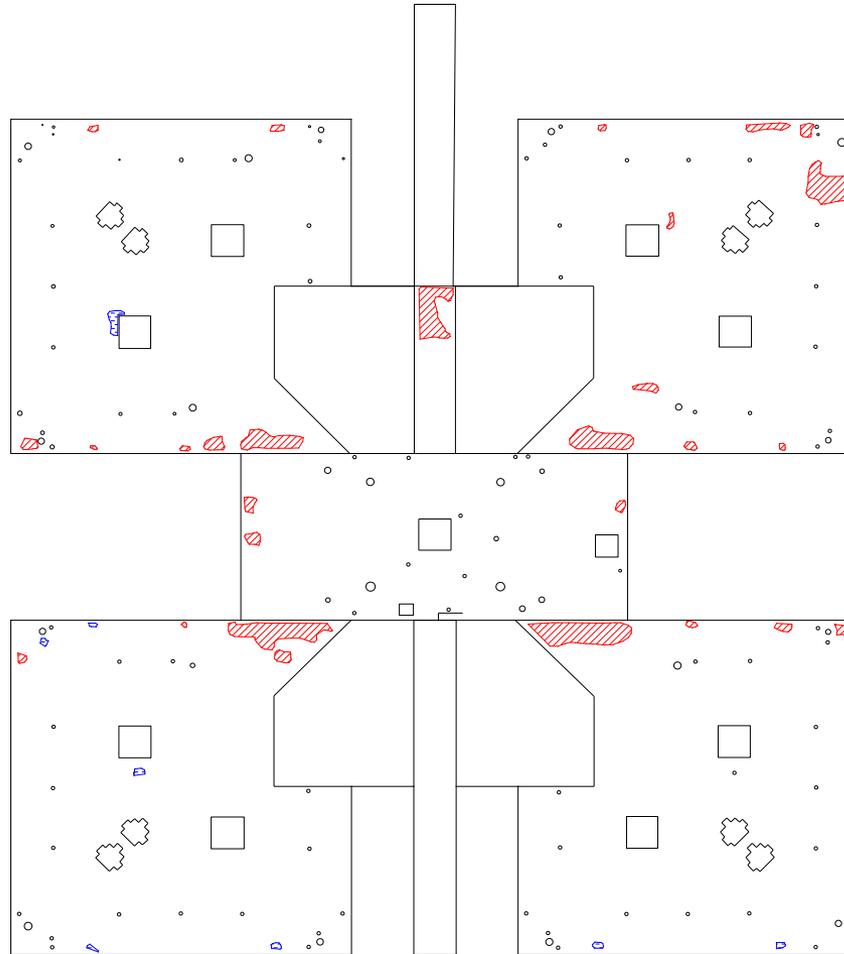


Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY Justice Center

Building 03



 03 Probable wet area (~1.74%)

 03 Possible wet area (~0.09%)



Aerial Infrared Roof Moisture Survey March 31, 2017



COLLIN COUNTY Justice Center

Building 03



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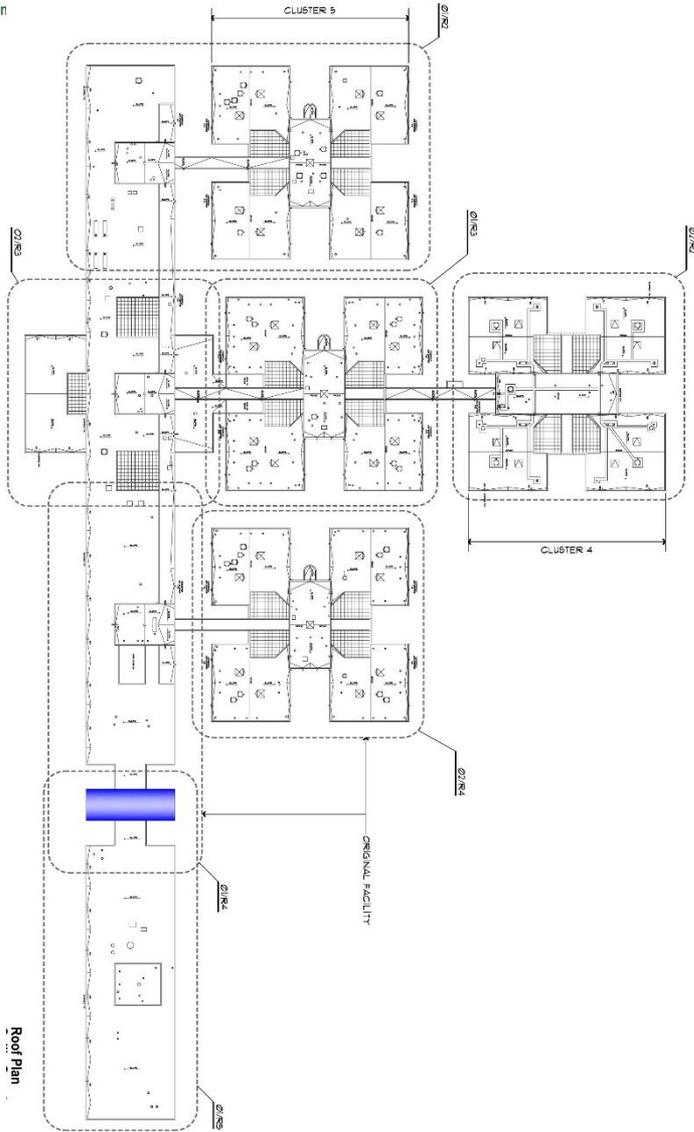


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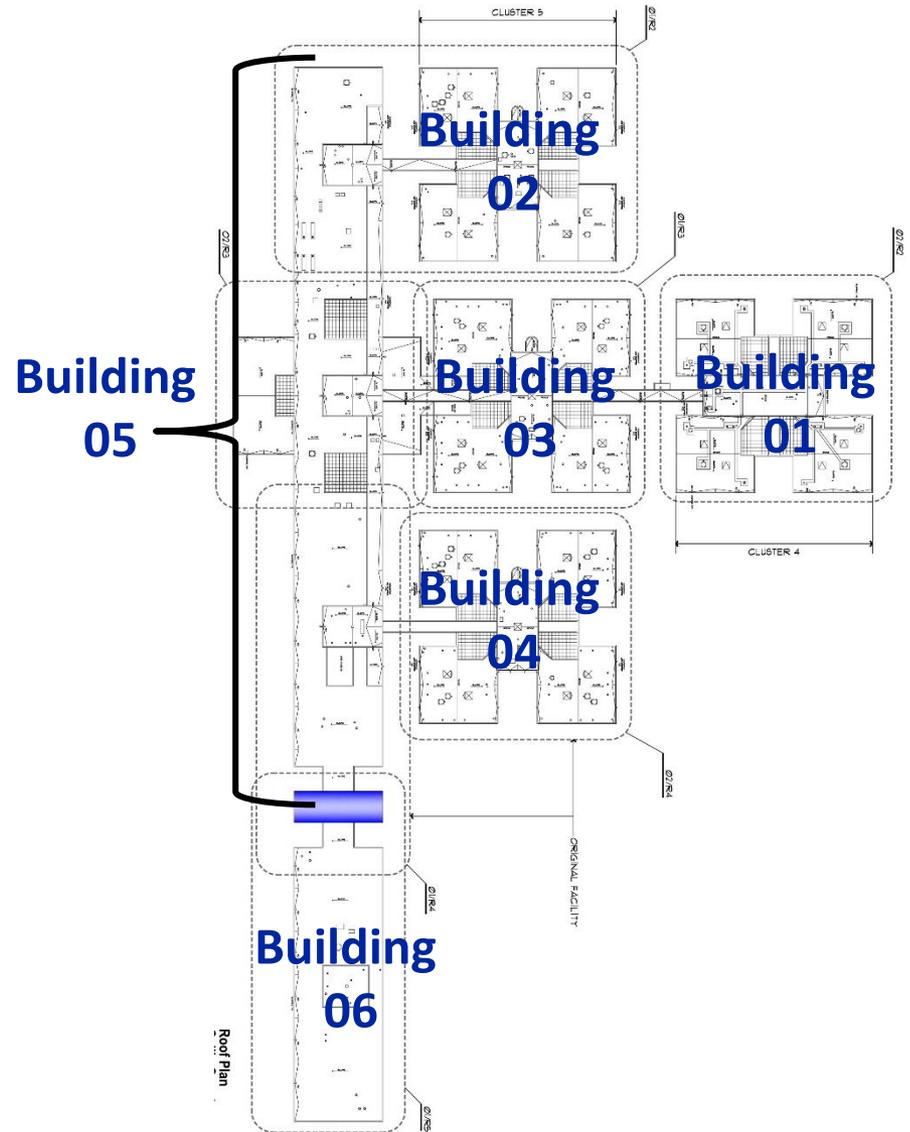


COLLIN COUNTY Justice Center

Key to Building Numbers



Roof Plan



Roof Plan



**Aerial Infrared
Roof Moisture Survey
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COLLIN COUNTY
Justice Center

Building 04



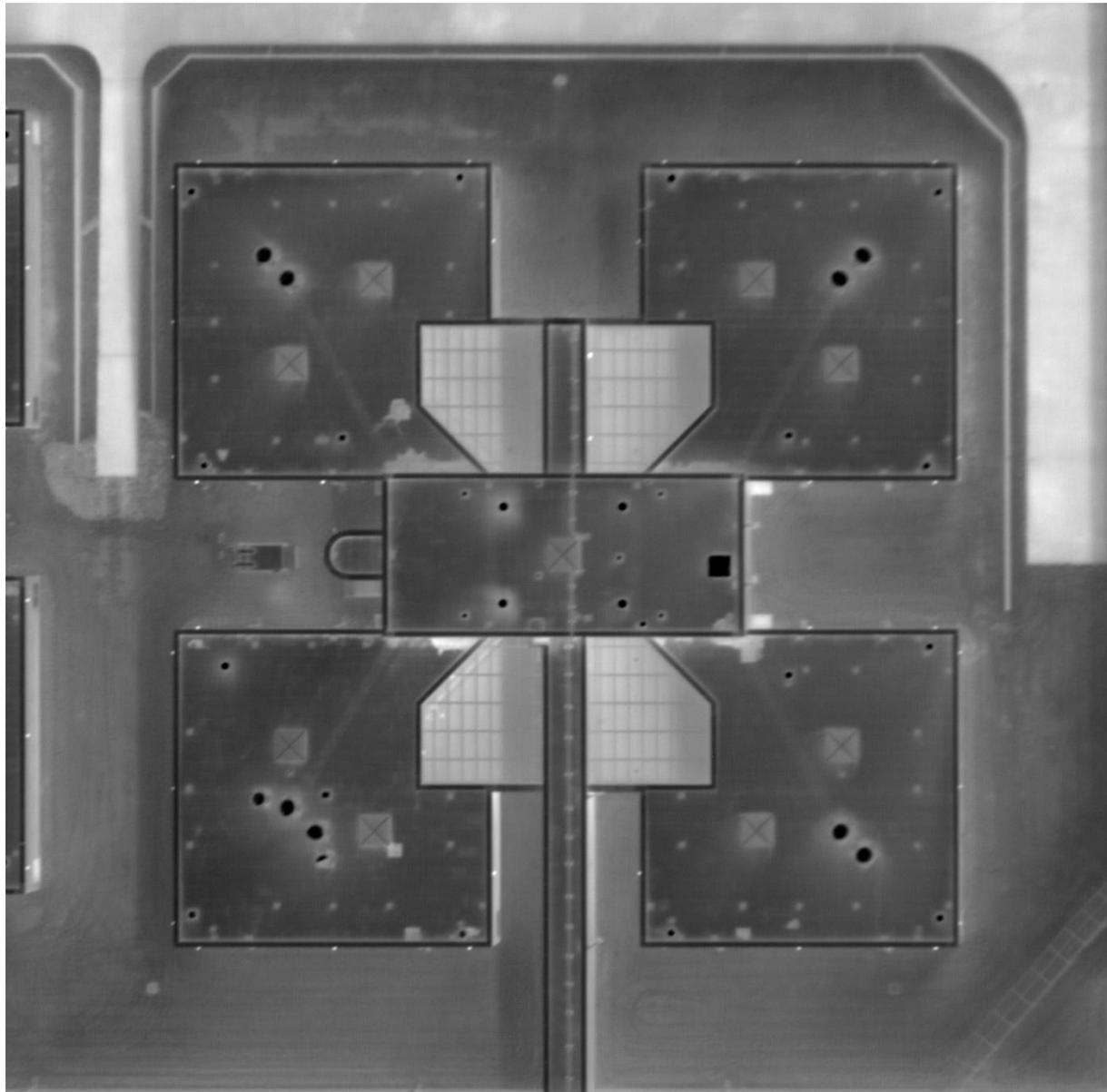


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COLLIN COUNTY
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Building 04



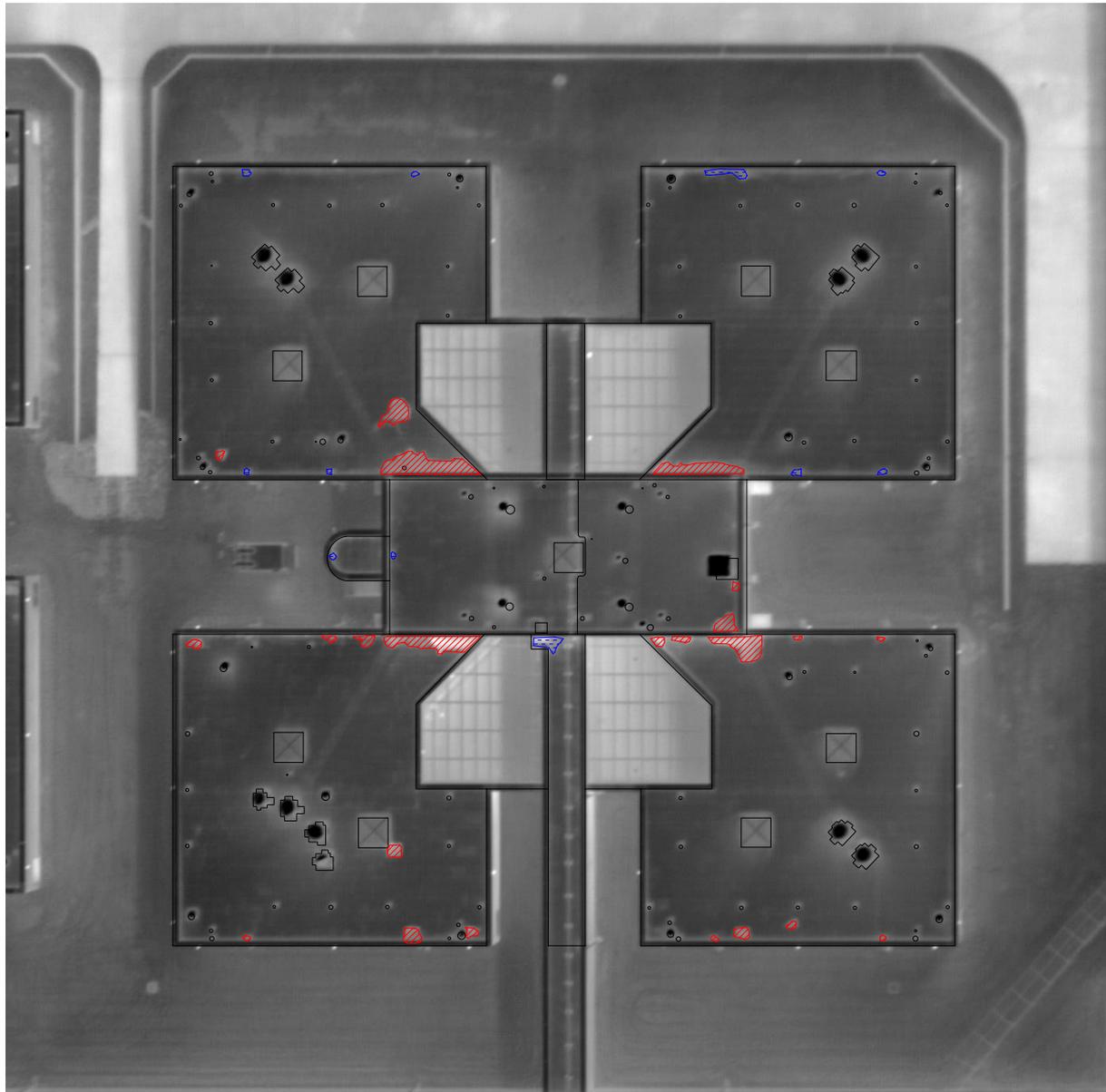


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COLLIN COUNTY Justice Center

Building 04



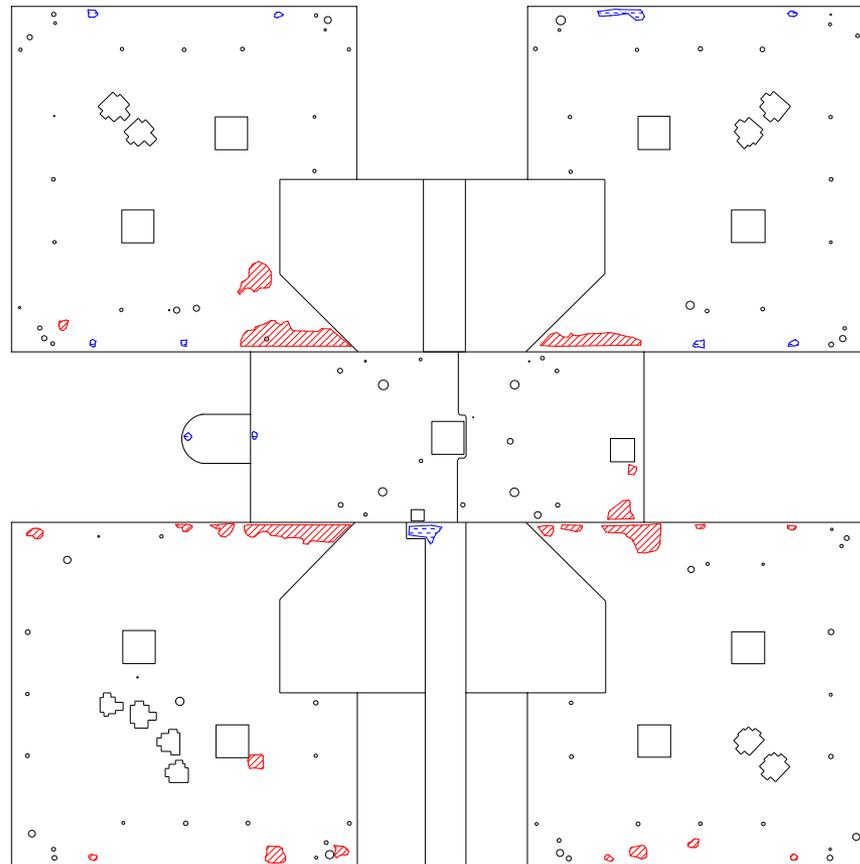


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COLLIN COUNTY Justice Center

Building 04



 04 Probable wet area (~1.27%)

 04 Possible wet area (~0.15%)



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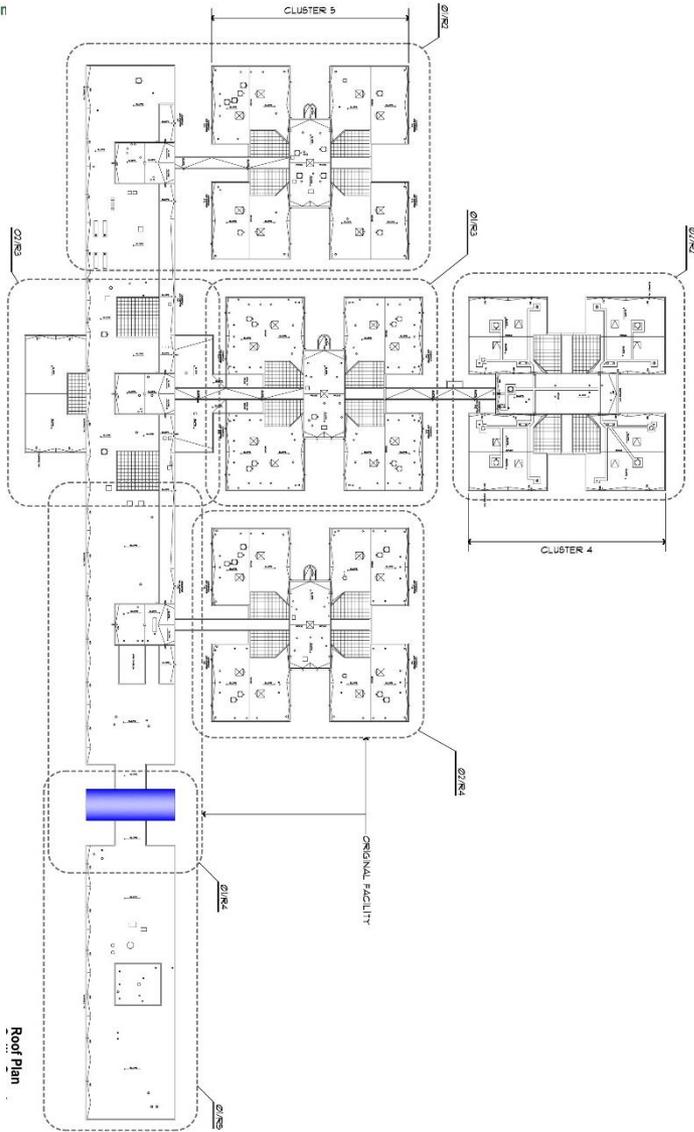


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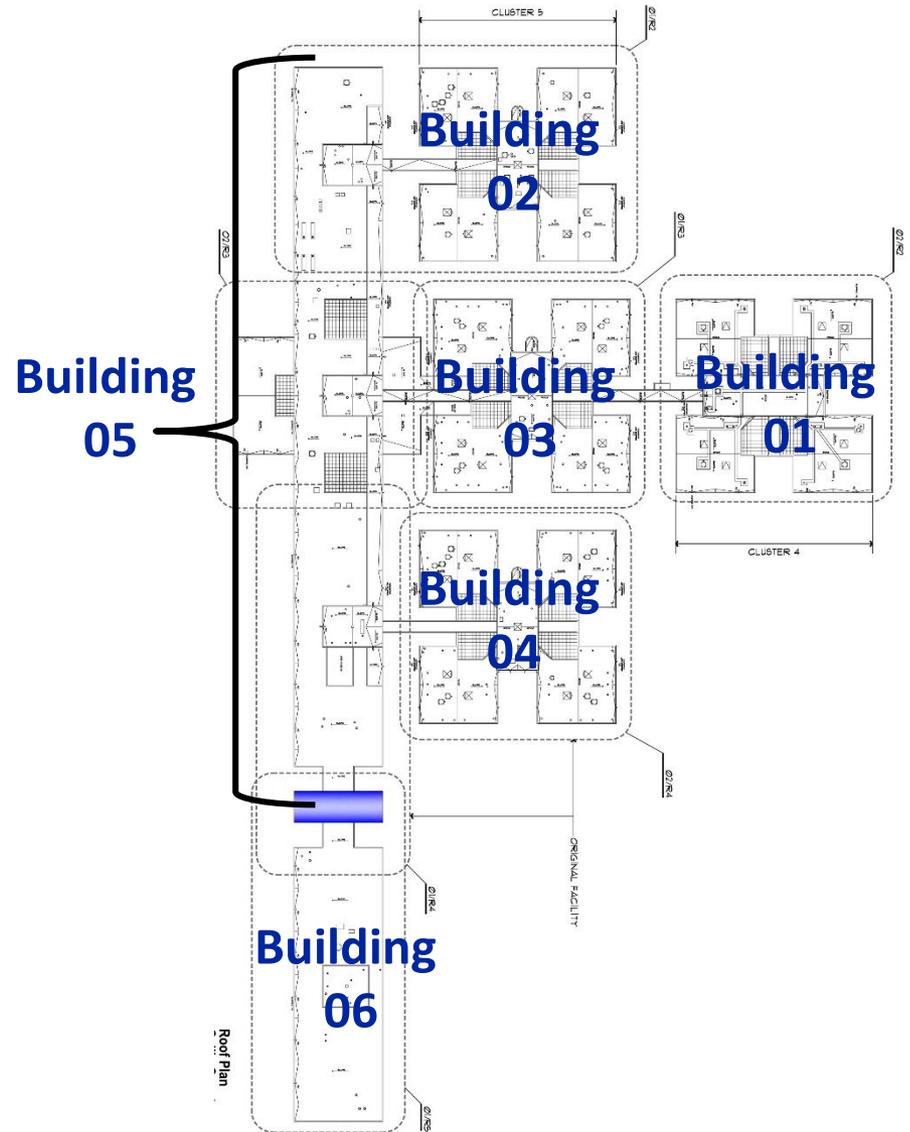


COLLIN COUNTY Justice Center

Key to Building Numbers



Roof Plan



Roof Plan

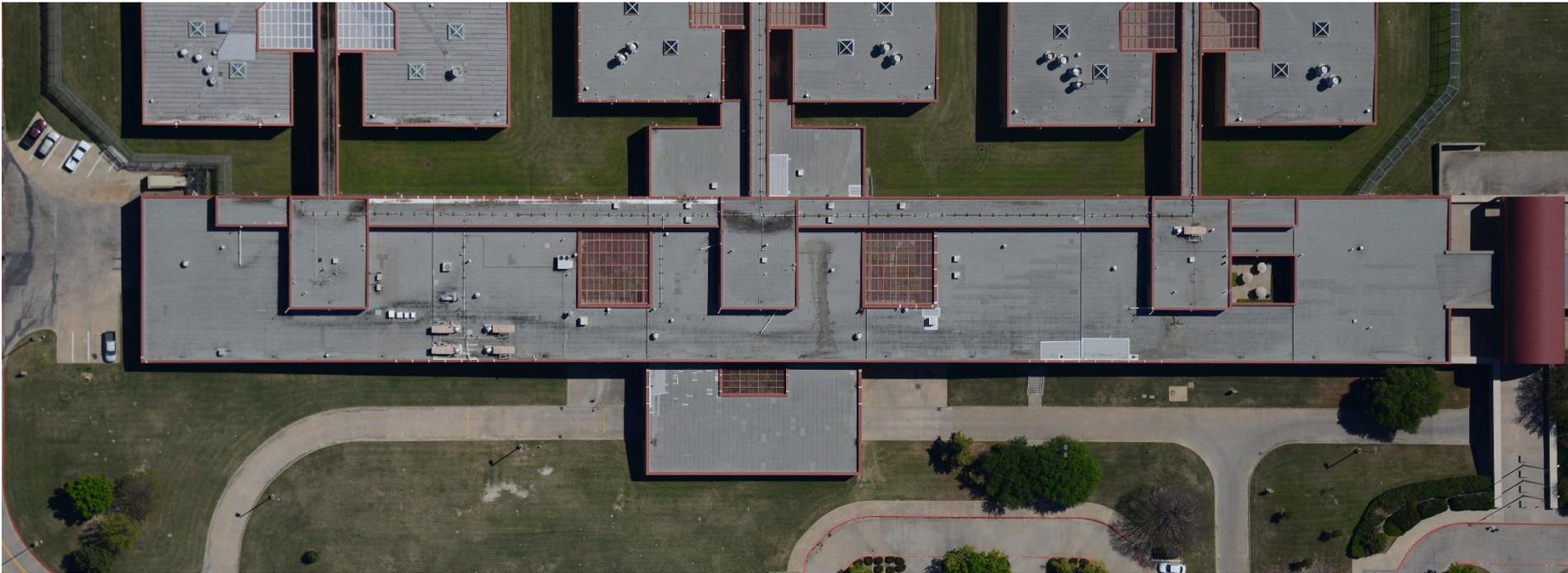


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Building 05



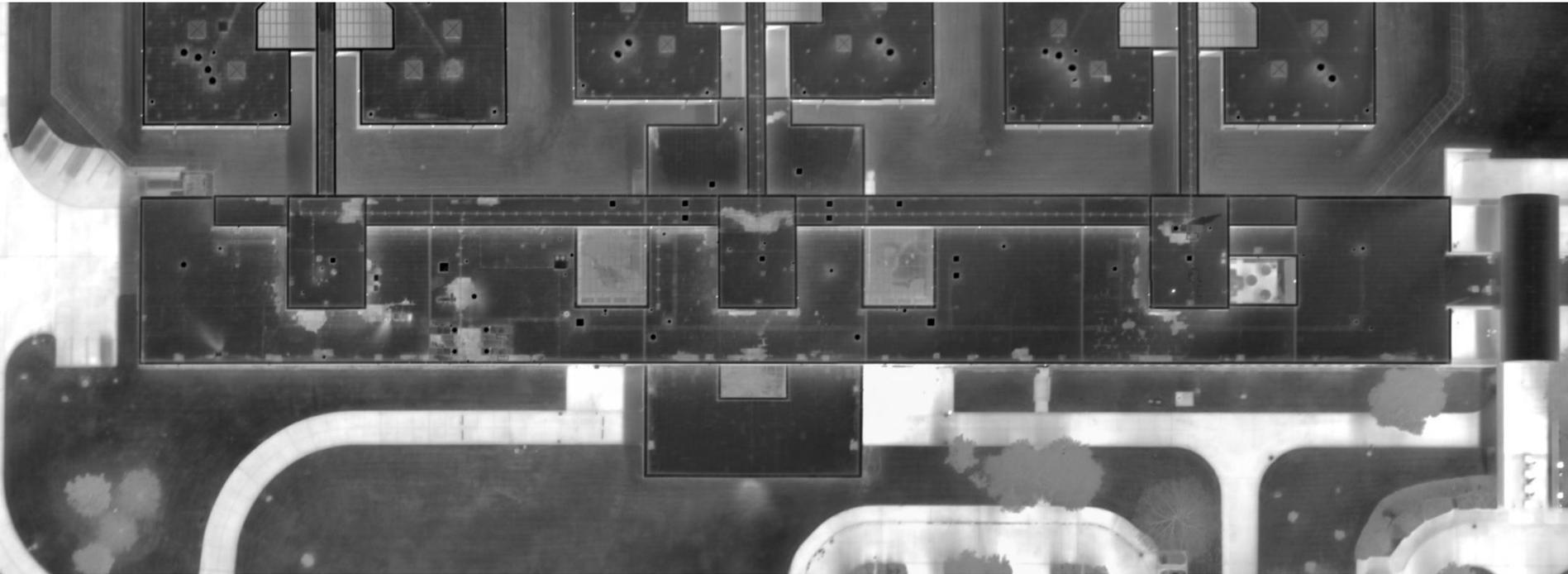


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Building 05



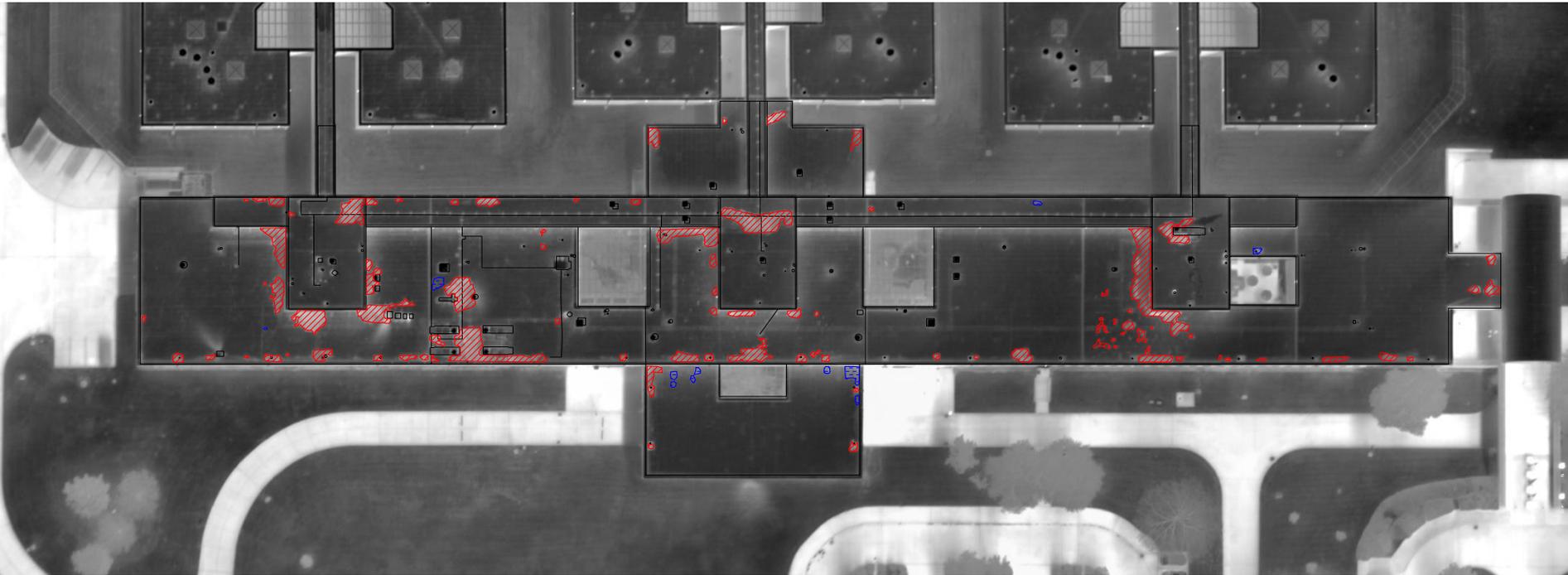


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Building 05



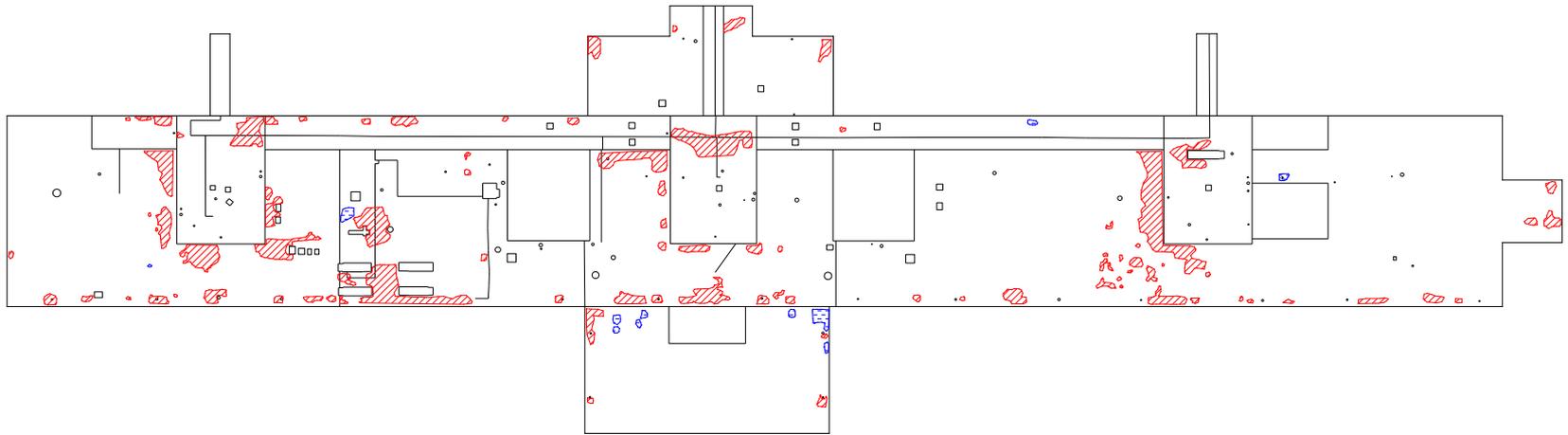


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Building 05



05 Probable wet area (~4.88%)



05 Possible wet area (~0.21%)

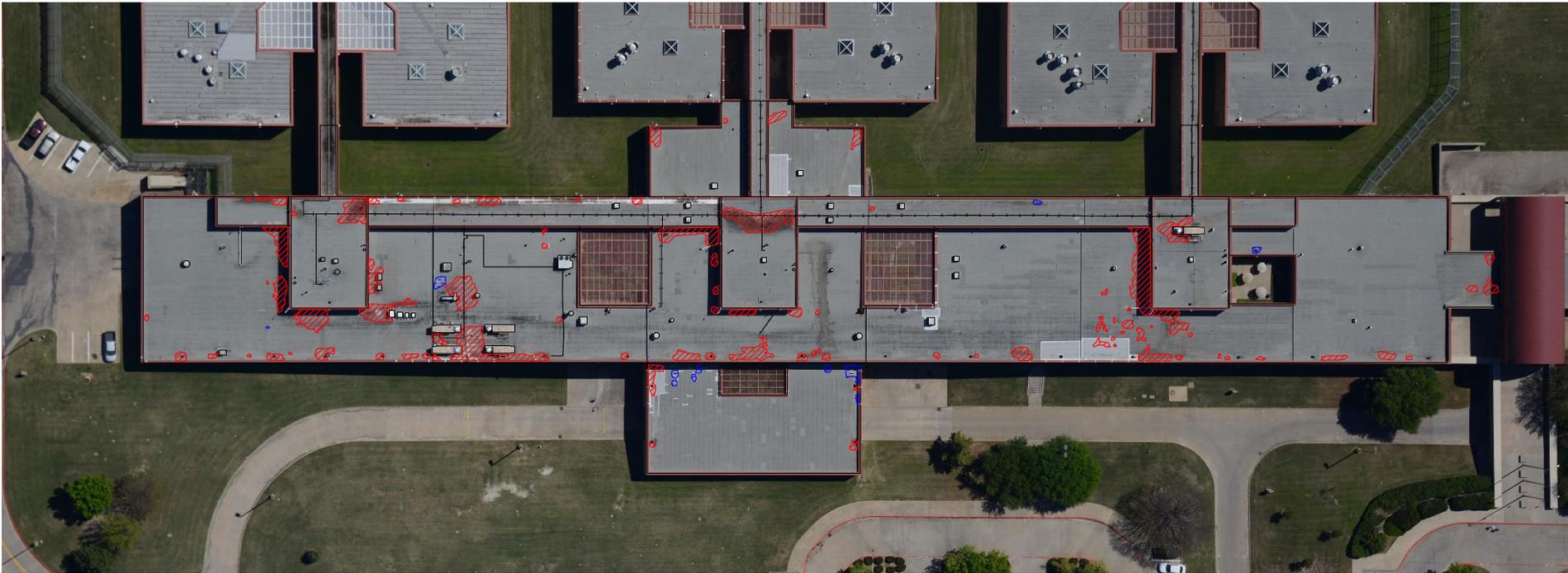


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Collin County Justice Center
McKinney, TX
March 31, 2017**



COLLIN COUNTY

Justice Center



Aerial Infrared Roof Moisture Survey Report

The building roofs of Collin County Justice Center in McKinney, TX were the subject of an aerial infrared (IR) survey on the night of March 31, 2017. The weather was dry with few clouds in the vicinity and low surface winds, providing excellent infrared imaging conditions. Aerial photographs were taken earlier in the day. This report includes:

- Thermographs, photographs and CAD drawings in this report,
- AutoCAD™ roof drawing annotated with probable/possible wet areas,
- Digital infrared thermograph mosaic and visual photograph mosaic of the roofs.



Aerial Infrared Imagery

Infrared imagery is often a grayscale picture whose scales (or shades of gray) represent the differences in temperature and emissivity of objects in the image. As a general rule, objects in the image that are lighter in color are warmer and darker objects are cooler. No object in the images is detected via visible light wavelengths (400-700 nanometers) rather, only from infrared wavelengths in the 3000-5000 nanometers or in the 3-5 micrometers (microns) range. Lights and other relatively hot objects are very evident, but as a result of their heat - not light emissions. When an image is taken by our infrared camera, it is often recorded on digital videotape and/or to digital media and later converted to a digital image file with the help of a computer. The images were then modified in a number of ways to enhance the value to the end user.

Analysis and Recommendations

The AutoCAD™ drawings included with this report are based on the aerial digital photographs of the roof and the IR imagery. The drawing has been named Bldg X.dwg', where X is the building designation. The drawings were named with an arbitrary numbering system as we broke the complex into building pieces. The drawings have been made to show roof areas analyzed as probably or possibly containing entrained moisture in the subsurface insulation. Most rooftop equipment and other appurtenance locations are also indicated on the drawings.

Definitions:

Probable Wet Area - An area of the roof system shown as a red-colored 'hatched' area on the roof drawing that is highly suspected of containing entrained moisture in the underlying roof insulation.

Possible Wet Area - An area of the roof system shown as a blue-colored 'dashed' area that is suspected of containing entrained moisture, but whose thermal signature is weaker than a 'probable' wet area and may be the result of factors other than entrained moisture that are causing the retention and transmission of heat. Such signatures may be the result of excess ballast material, roof patches, dark stains and the like, or, they may be areas of wet roofing but are less saturated than areas labeled as 'probable'.

Ponding Area - An area of the roof system shown as a green-colored 'dashed' area on the roof drawing where water ponds appear on the visual and/or infrared imagery. In the IR images, they are dark areas which can mask underlying subsurface moisture contamination.

We recommend that the roof maintenance team carefully review the report. Then, with reference to the CAD drawings, photographs and thermographs provided, the areas noted as 'probable wet' 'possible' wet and 'ponding' areas should be physically located and given a thorough visual examination for signs of subsurface moisture contamination. When warranted, these areas should be subjected to a destructive test (core sample) within the marked areas to confirm the analysis. After your on-roof analysis, please send the results to us and we will update the CAD drawings and return the updated report.

Please let me know if I can be of assistance to you by calling (800) 248-7226. We are looking forward to working with you on this and future projects.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregory R. Stockton".

Gregory R. Stockton, Level III, CIT #3658

Stockton Infrared Thermographic Services, Inc.
8472 Adams Farm Road Randleman, NC 27317
800-AIT-SCAN



Moisture Protection
Technology Consultan

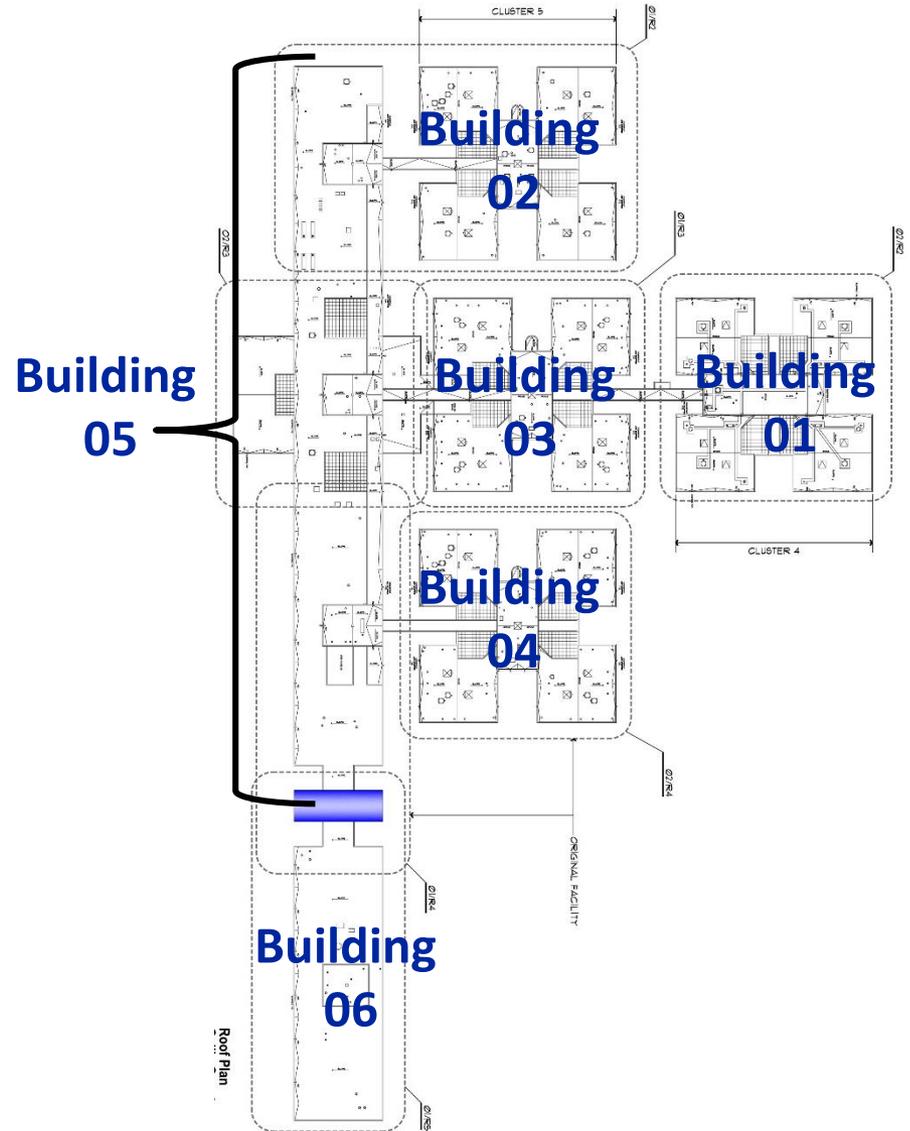
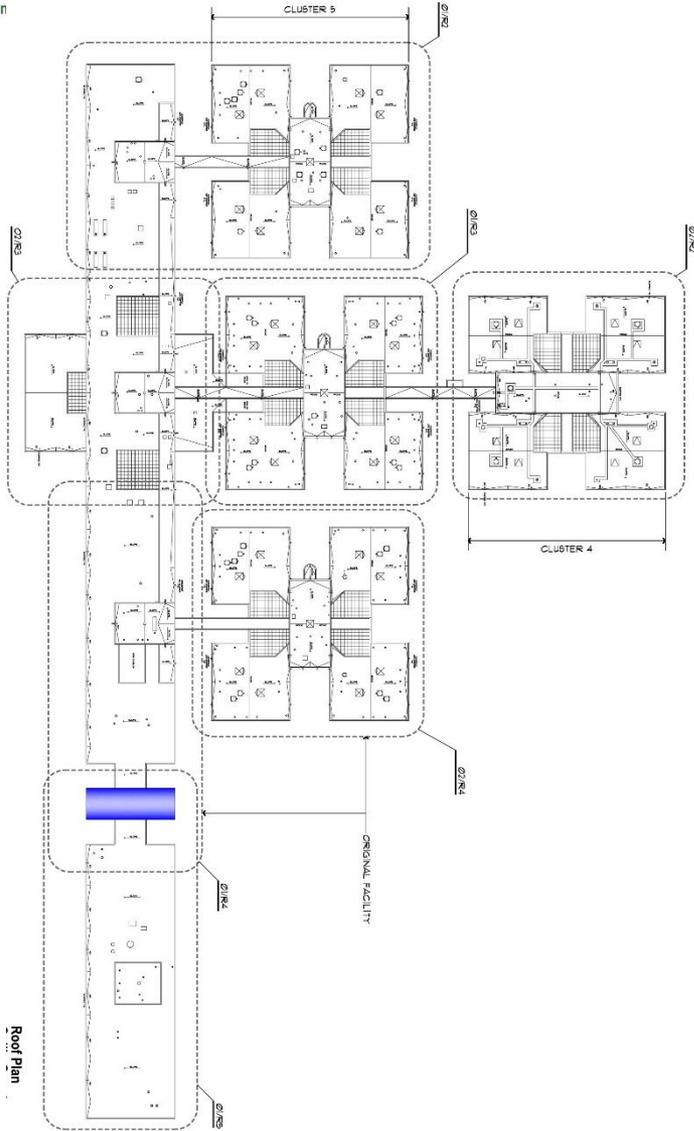


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COLLIN COUNTY Justice Center

Key to Building Numbers





**Aerial Infrared
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COLLIN COUNTY
Justice Center

Building 06



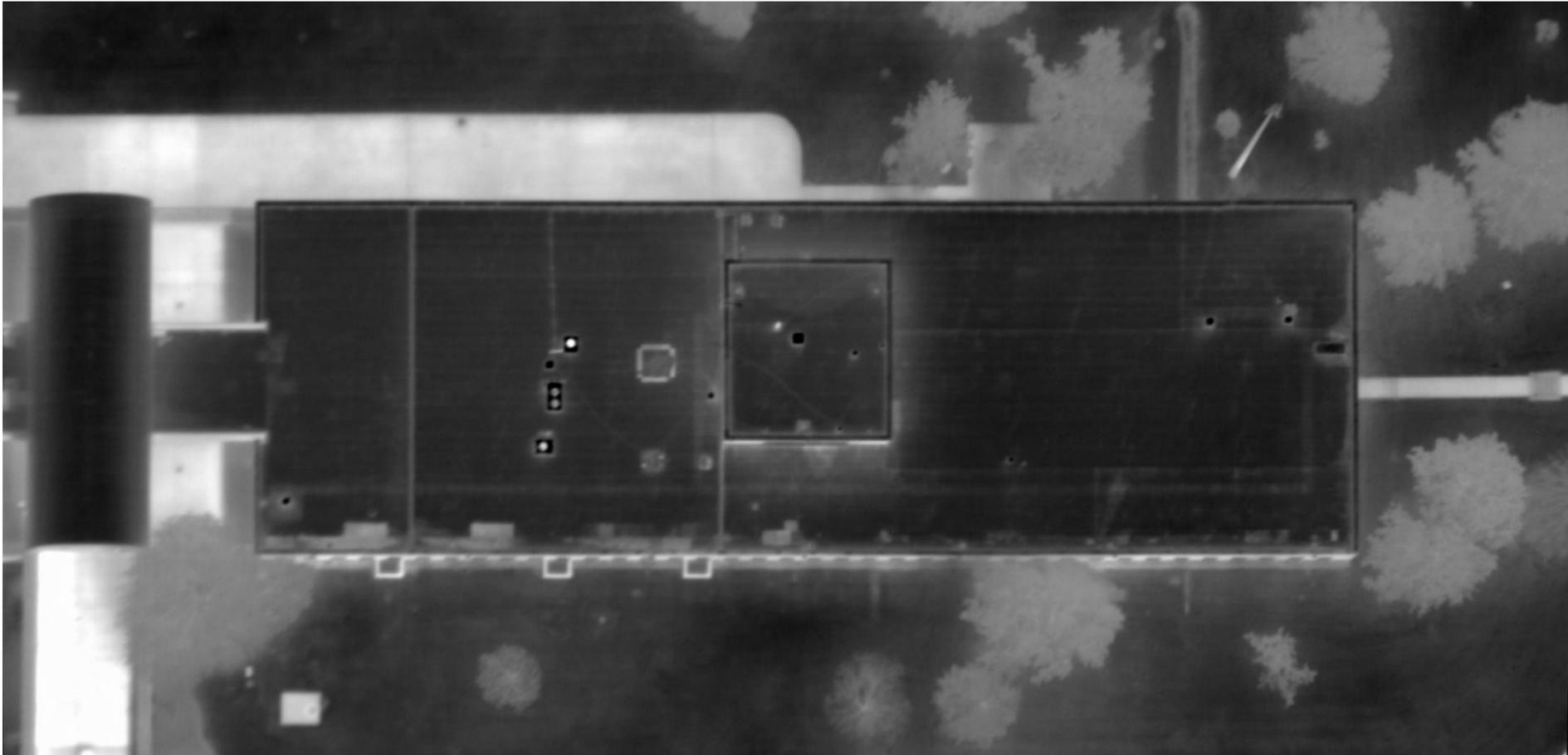


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COLLIN COUNTY
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Building 06



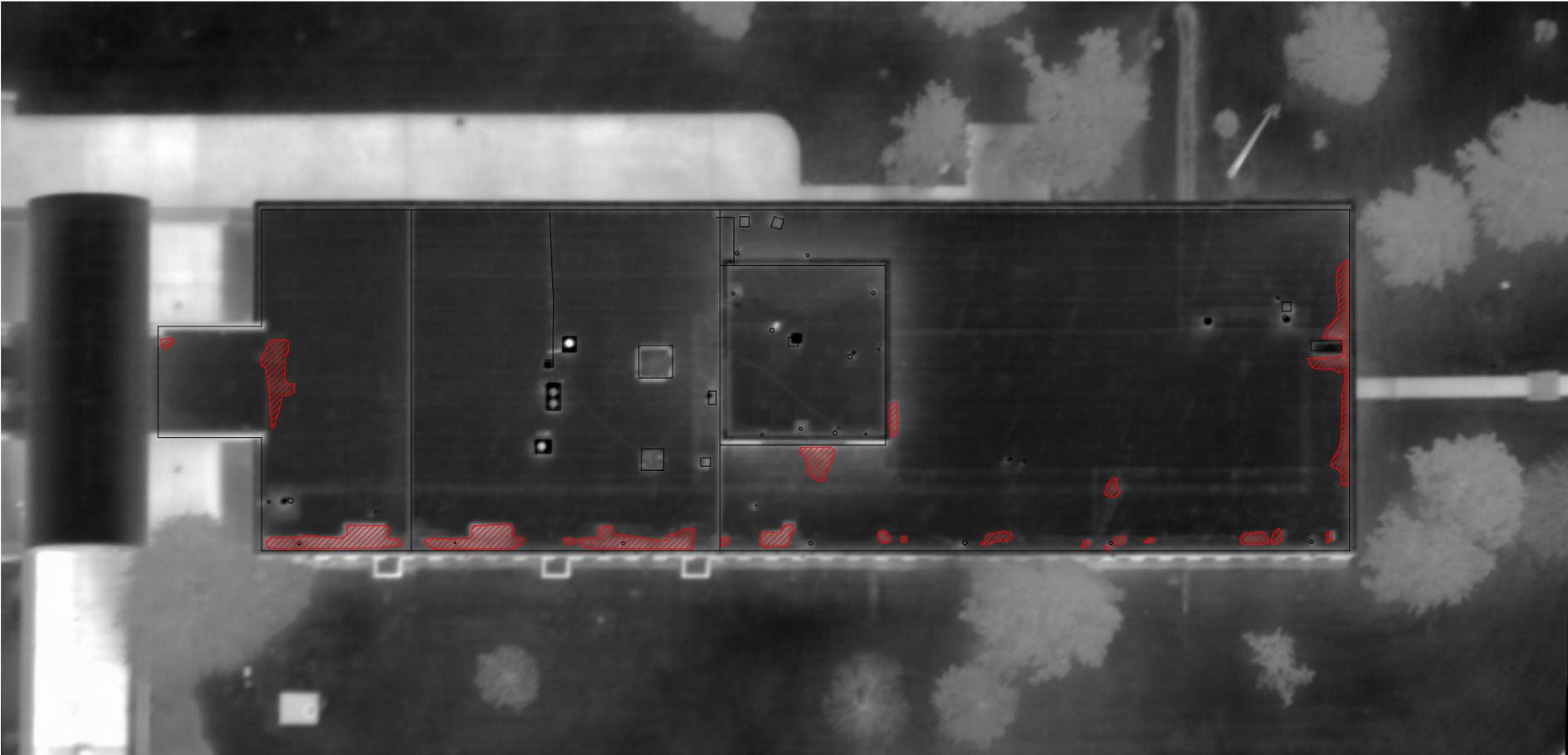


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Building 06



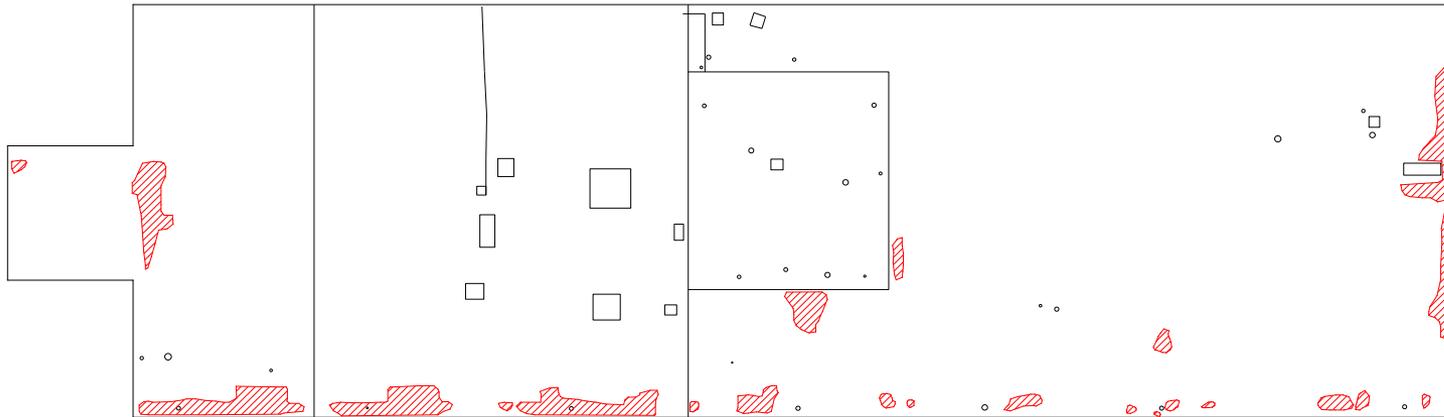


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 06 Probable wet area (~3.08%)

 06 Possible wet area (NONE)



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