



Environmental System Performance Specialists

1035 Suncast Lane, Suite 130

El Dorado Hills, CA 95762

Phone: 916.358.5672 | Fax: 916.358.5673 | rsanalysis.com

TEST & BALANCE REPORT

**STOCKTON CITY HALL
HVAC SURVEY
501 & 509 WEST WEBER AVENUE
STOCKTON, CALIFORNIA
SURVEY**

CLIENT: **PETERS ENGINEERING**

PROJECT NUMBER: 26982-S

DATE: 07/24/2020

TECHNICIAN: CHRIS CUTCHALL

TBE: MICHAEL T. RENOVICH



THIS IS TO CERTIFY THAT RSANALYSIS, INC. HAS BALANCED THE SYSTEM DESCRIBED HEREIN TO THEIR OPTIMUM PERFORMANCE CAPABILITIES, UNLESS OTHERWISE NOTED IN THE PROJECT SUMMARY. THE TESTING AND BALANCING HAS BEEN PERFORMED IN ACCORDANCE WITH THE STANDARD REQUIREMENTS AND PROCEDURES OF THE ASSOCIATED AIR BALANCE COUNCIL AND THE RESULTS OF THESE TESTS ARE HEREIN RECORDED.



Table of Contents

| DESCRIPTION | PAGE |
|--|-------------|
| PERFORMANCE GUARANTY _____ | A |
| CERTIFICATE _____ | B-C |
| GENERAL NOTES _____ | D |
| SYMBOL SHEET _____ | E |
| TEST AND BALANCE INSTRUMENTATION _____ | F |
| PROJECT SUMMARY _____ | G |
| UNIT | |
| <u>BUILDING 509</u> | |
| AHU-509-1 _____ | 1-9 |
| AHU-509-2 _____ | 10-20 |
| 1ST FLOOR HEAT PUMPS _____ | 21-23 |
| EF-509 _____ | 24-25 |
| CEF-1, 2 _____ | 26 |
| SCHEMATIC _____ | |
| <u>BUILDING 501</u> | |
| AHU-501-1 _____ | 27-37 |
| AHU-501-2 _____ | 38-46 |
| 1ST FLOOR HEAT PUMPS _____ | 47-49 |
| EF-501 _____ | 50-51 |
| (E)EF _____ | 52 |
| SCHEMATIC _____ | |

AABC National Performance Guaranty

Pursuant to the agreement between
RSANALYSIS, INC.

AABC Certified Testing & Balancing Agency

PETERS ENGINEERING

and _____

Client

All systems shall be tested and balanced in accordance with the project plans and specifications and to the optimum performance capabilities of the equipment. Testing and balancing shall be done in accordance with the standards published by the Associated Air Balance Council.

If the Agency listed above fails to comply with the specifications for any reason other than termination of business by the AABC agency or equipment malfunction or inadequacy which prevents proper balancing of the systems, AABC will investigate and, if warranted, will provide supervisory personnel to assist the member Agency to perform work in accordance with AABC Standards. This supervision will be provided at no additional cost to the building owner.

This Guaranty is valid for one year from the date of submission of a test and balance report, provided the Agency is a current member of AABC, and may only be invoked in writing by the building owner, architect, or engineer of record. The Guaranty is limited to the terms and conditions as stated herein.

Project Name STOCKTON CITY HALL HVAC SURVEY

Address 501 & 509 WEST WEBER AVENUE

STOCKTON, CALIFORNIA

Name of Engineer N/A

Engineering Firm N/A

Email Address N/A

Address N/A

Date 07/24/2020

TBE # 93-01-32

By _____

AABC Certified TBE



AABC

**Associated Air
Balance Council**

1518 K Street, N.W.
Washington, D.C. 20005
202-737-0202 • Fax 202-638-4833
info@aabc.com • www.aabc.com



Associated Air Balance Council

Annual Certificate

Awarded to

Michael Renovich

RSAnalysis, Inc.

In recognition of his qualifications as a

Certified Test and Balance Engineer

under the rules, regulations, and requirements of the Associated Air Balance Council. The above named is fully authorized to perform total system balance in accordance with the standards as established by the AABC and as a member of the Associated Air Balance Council for the year

2020

*This registration number **93-01-32** is fully recognized by the bylaws and charter of this professional association. Certification is renewable on an annual basis after examination of the agency's record for the preceding year. This certificate expires December 31, 2020.*



Benjiman J. Link, President

Raymond R. Bert, Executive Director



GENERAL NOTES

| | | | |
|------|-----------|-----------|-------|
| Date | 24-Jul-20 | RSA Job # | 26982 |
|------|-----------|-----------|-------|

| | |
|---|---|
| 1 | Correction for temperature and altitude have been made on all test results shown in this report. |
| 2 | Ceiling diffusers were measured with a direct CFM read-out meter (see calibration sheet). |
| 3 | Balance factors for exhaust sidewall and supply grilles were calculated from the core area and measured with a rotating vane anemometer. |
| 4 | Outlets for the fans were numbered with closest to the fan as #1. |
| 5 | All corrections for instruments used for testing and balancing are traceable back to the national bureau of standards and are tested in our own labs. |

SYMBOL SHEET

| | | |
|---|--|---|
| A | F.S.R. - Floor Supply Register | OPEN - No Terminal Device Installed |
| AHU - Air Handling Unit | FT. HD. - Feet of Head | OSA Min. - Outside Air Minimum |
| AC or ACU - Air Conditioning Unit | FTU - Fan Terminal Unit | OAT - Outside Air Temperature |
| ACCU - Air Cooled Condensing Unit | G | P |
| ADJ P.D. - Adjusted Pitch Diameter | GPM - Gallons Per Minute | PF - Power Factor |
| AMP - Amperage | GFH - Gas Fired Heater | PHC - Preheat Coil |
| AVG. - Average | GFHC - Gas Fired Heating Coil | PH - Phase (s) |
| B | H | PMP - Circulating Pump |
| B.H.P - Brake Horsepower | HC - Heating Coil | P.P. - Perforated Plate |
| C | Heater O.L. - Thermal Overload Protection For Motors | PSI - Pounds Per Square Inch |
| C.D. - Ceiling Diffuser | HEPA - High Efficiency Particulate Arrestance | P.T. - Pitot Traverse |
| CFM - Cubic Feet Per Minute | H.F. - Hepa Filter | R |
| C.E. - Ceiling Exhaust | HOA - Hand/Off/Auto Switch | RA - Return Air |
| CEF - Ceiling Exhaust Fan | H.P. - Horsepower | RF - Return Air Fan |
| CH - Chiller | HPS - High Pressure Steam | R.G. - Return Grille |
| CHWR - Chilled Water Return | HRC - Heat Recovery Coil or Heat Reclaim Coil | RHC - Reheat Coil |
| CHW or CHWS - Chilled Water Supply | HVAC - Heating, Ventilation & Air Conditioning | RPM - Revolutions Per Minute |
| C.R. - Ceiling Return | HWR - Hot Water Return or Heating Water Return | S |
| CT - Cooling Tower | HWS - Hot Water Supply or Heating Water Supply | SA - Supply Air |
| CWR - Condenser Water Return | HX - Heat Exchanger | SAT - Supply Air Temperature |
| CW or CWS - Condenser Water Supply | I | S.D. - Supply Diffuser |
| D | I.D. - Inside Diameter | SEF - Smoke Exhaust Fan |
| DB - Dry Bulb | L | SF (Air) - Supply Fan |
| D.D. - Direct Drive | LAT - Leaving Air Temperature | S.F. (Electric) - Service Factor |
| D.P. - Difference, Net Increase or Decrease | L.D. - Linear Supply Diffuser | SHC - Steam Heating Coil |
| DIA - Diameter | LPS - Low Pressure Steam | SP "WC" - Static Pressure, Measured in Inches of Water Column |
| D.N.A. - Data Not Available | L.R.D. - Linear Return Diffuser | S.W.E - Sidewall Exhaust |
| D.N.L. - Data Not Listed | L.T. - Light Troffer | S.W.R. - Sidewall Return |
| E | LWG - Low Wall Griller | S.W.S. Sidewall Supply |
| EAT - Entering Air Temperature | LWR - Low Wall Return | T |
| EDC - Electric Duct Coil | LWT - Leaving Water Temperature | TAB - Test, Adjust, & Balance |
| EDH - Eclectic Duct Heater | M | TSP - Total Static Pressure |
| EF - Exhaust Fan | MAU/MUA - Make Up Air Unit | U |
| EMCS - Energy Management Control System (s) | MBH - 1000 Btu's Per Hour | UH - Unit Heater |
| EWT - Entering Water Temperature | N | V |
| F | N.A. - Not Accessible | V - Volts |
| FCU - Fan Coil Unit | N.I. - Not Installed | VAV - Variable Air Volume |
| F.D. - Floor Diffuser | N.T. - Not Taken | VD - Volume Damper |
| FH - Fume Hood | N.V.L - No Valid Location | VFD - Variable Frequency Drive |
| FG - Floor Grille | N.Z. - Nozzle | VP - Velocity Pressure |
| F.E. - Floor Exhaust or Return | O | W |
| F.L.A. - Full Load Amperage | O.D. - Outside Diameter | W - Watts |
| FPB - Fan Powered Box | | WB - Wet Bulb |
| FPM - Feet Per Minute | | W.G. - Water Gauge |
| F.S. - Floor Supply | | Misc. |
| | | ΔP - Differential (Delta) Pressure |
| | | ΔT - Differential (Delta) Temperature |



TEST & BALANCE INSTRUMENTATION

| | | | | | |
|-------------|-----------|------------------|-------|-------------------|----------------|
| Date | 24-Jul-20 | RSA Job # | 26982 | Technician | Chris Cutchall |
|-------------|-----------|------------------|-------|-------------------|----------------|

THE FOLLOWING INSTRUMENTS WERE USED TO RECORD AND SET EACH DEVICE ON THIS PROJECT.

| INSTRUMENT | MANUFACTURER | MODEL | SERIAL NO. | CALIBRATION DUE DATE |
|--------------------------|---------------------|--------------|------------|----------------------|
| RVA | Alnor | RVA801 | A00917 | 3/20/2021 |
| AMP Probe | Fluke | 902 | 96860165 | 3/20/2021 |
| Tachometer | Jaquet | 253 | 735899 | 3/20/2021 |
| Temperature Logger | ACR Systems | Smart Reader | - | 3/20/2021 |
| 15" Capture Hood | Evergreen Telemetry | CH-15D | 1500144 | 3/20/2021 |
| Pressure/Velocity Sensor | Evergreen Telemetry | S-PVF-1 | 1500158 | 3/20/2021 |
| | | | | |
| | | | | |
| | | | | |



Project Summary

| | |
|-------------|--------------------------------|
| Date: | 7/17/2020 |
| Project: | Stockton City Hall HVAC Survey |
| Job Number: | 26982 |
| Technician: | Chris Cutchall |

Scope of Work

Survey of HVAC equipment for buildings 501 and 509.

Observations & Outcomes

- All grilles and diffusers were measured and recorded in the condition in which they were found.
- Air flow at all terminal units was cycled between cooling and heating. Air flows were recorded for each setting.
- Duct work inlet sizes were all measured and recorded.
- Fan performance data was collected for the main air handlers on the roof. The return fans were not running at the time of testing. Building 501's AHU's are running with only 1 compressor installed in each unit.
- Multiple heat pump units were not functional at the time of testing. These were noted to be non-operational.
- The main house units are separated within the building by North and South. These units are all ducted to VAV type pneumatic controlled systems. The units are dual duct systems. The individual zones (VAV's) were tested in their cooling and heating setpoints one at a time. There was no testing done to show the system at its capacity.

*In our efforts to constantly improve in all aspects of our performance, we would appreciate any feedback, positive or negative, regarding your experience with the RSA team.
Please click the link below to be directed to our Quality Assurance Survey. Thank you!*

[RSA Quality Assurance](#)

AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|-----|------|-----------|
| Date | 15-Jul-20 | Area Served | 509 | Unit | AHU-509-1 |
|------|-----------|-------------|-----|------|-----------|

Unit Information

| | | | |
|--------------------|-----------|---------------|----------------------|
| Fan Identification | AHU-509-1 | Equipment MFG | Trane |
| Equipment Location | Roof | Model Number | SAHA60040JSSA84DJ0BP |
| Type/Size | - | Serial Number | B82A00476 |

Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|-------------|-----------|--------|------------------|-------------------------------------|
| Total Fan CFM | DNT | DNL | DNT | Fan Sheave | 18-1/2" O.D. |
| Total S/A CFM | DNL/Outlets | DNL | 17,905 | Fan Shaft | 2" |
| Total R/A CFM | DNT | DNL | DNT | Shaft C/C | 30" |
| O/A CFM | | DNL | DNT | Belt Size/Number | C101 / 2 |
| Fan RPM | | DNL | 1,217 | Motor | |
| TSP <input type="checkbox"/> ESP <input checked="" type="checkbox"/> | | DNL | 2.60" | Motor Sheave | 11-1/2" O.D. |
| Inlet SP | | -0.71" | | Motor Shaft | 1-7/8" |
| Discharge SP | | +1.89" | | Sheave Adj. | - |
| Pre / Final Filter ΔP | P | - | F | Fixed Sheave | <input checked="" type="checkbox"/> |
| Control Set Point | | - | | | |

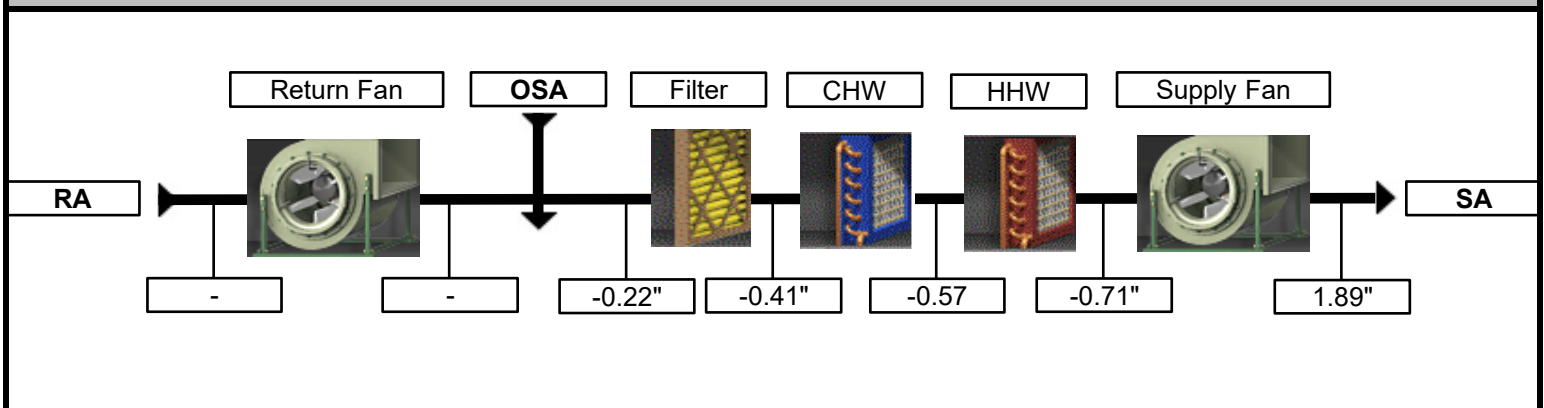
Motor Data

| Motor MFG. | Century | Specified | Actual |
|--------------------|---------|-------------|-----------------|
| Motor HP | 30 | Voltage | 460 - 461 (1) - |
| Service Factor | 1.15 | Amperage | 37 - 28.6 (1) - |
| Phase/Hz | 3/60 | Motor BHP | DNL - |
| Heater Size/Rating | - | Motor RPM | 1750 1711 (1) |
| Motor Frame# | 286T | Speed (VFD) | VFD 58.1 Hz (1) |

Temperature Data

| | | | | | | | |
|------------|------|------------|------|------------|------|------------|------|
| Clg E.A.T. | 71 ° | Clg L.A.T. | 54 ° | Htg E.A.T. | 72 ° | Htg L.A.T. | 99 ° |
|------------|------|------------|------|------------|------|------------|------|

Fan Static Profile



Remarks

(1) Data obtained from VFD display.

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 10-Jul-20 | Unit | AHU-509-1 | Constant | <input type="checkbox"/> | Variable | <input checked="" type="checkbox"/> | Single | <input type="checkbox"/> | Dual | <input checked="" type="checkbox"/> | Flow Spec | -% | - | + | + | % | - |
|----------------|------------|-------------------|------------|----------|--------------------------|------------|-------------------------------------|--------|--------------------------|------------|-------------------------------------|------------|----|---|---|---|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % | | | | |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | | | | | |
| | Cold / Hot | | | | | | | | | | | | | | | | | |
| TU-5-1 | 6 / 6 | - | DNL | DNL | | - | 360 | | DNL | DNL | - | 150 | | | | | | |
| TU-5-2 | 10 / 8 | - | DNL | DNL | | - | 505 | | DNL | DNL | - | 310 | | | | | | |
| TU-5-3 | 8 / 8 | - | DNL | DNL | | - | 820 | | DNL | DNL | - | 275 | | | | | | |
| TU-5-4 | 8 / 8 | - | DNL | DNL | | - | 410 | | DNL | DNL | - | 180 | | | | | | |
| TU-5-5 | 6 / 6 | - | DNL | DNL | | - | 300 | | DNL | DNL | - | 75 | | | | | | |
| TU-5-6 | 8 / 8 | - | DNL | DNL | | - | 790 | | DNL | DNL | - | 520 | | | | | | |
| TU-5-7 | 8 / 8 | - | DNL | DNL | | - | 590 | | DNL | DNL | - | 295 | | | | | | |
| TU-5-8 | 12 / 10 | - | DNL | DNL | | - | 815 | | DNL | DNL | - | 365 | | | | | | |
| TU-4-1 | 8 / - (1) | - | DNL | DNL | | - | 285 | | DNL | DNL | - | - | | | | | | |
| TU-4-2 | 8 / 6 | - | DNL | DNL | | - | 415 | | DNL | DNL | - | 120 | | | | | | |
| TU-4-3 | 10 / 8 | - | DNL | DNL | | - | 1,265 | | DNL | DNL | - | 410 | | | | | | |
| TU-4-4 | 10 / 8 | - | DNL | DNL | | - | 0 | | DNL | DNL | - | 0 | | | | | | |
| TU-4-5 | 8 / 6 | - | DNL | DNL | | - | 565 | | DNL | DNL | - | 295 | | | | | | |
| TU-4-6 | 6 / 6 | - | DNL | DNL | | - | 325 | | DNL | DNL | - | 280 | | | | | | |
| TU-4-7 | 10 / 8 | - | DNL | DNL | | - | 220 | | DNL | DNL | - | 80 | | | | | | |
| TU-4-8 | 12 / 10 | - | DNL | DNL | | - | 95 | | DNL | DNL | - | 80 | | | | | | |
| TU-4-9 | 12 / 10 | - | DNL | DNL | | - | 510 | | DNL | DNL | - | 280 | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | | |
| | | (1) Cooling only. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-509-1 | Constant | <input type="checkbox"/> | Variable | <input checked="" type="checkbox"/> | Single | <input type="checkbox"/> | Dual | <input checked="" type="checkbox"/> | Flow Spec | -% | - | + | % | - |
|-------------------|------------|------------------|------------|----------|--------------------------|------------|-------------------------------------|--------|--------------------------|------------|-------------------------------------|------------|----|---|---|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % | | | |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | | | | |
| | Cold / Hot | | | | | | | | | | | | | | | | |
| TU-3-1 | 8 / 6 | - | DNL | DNL | | - | 255 | | DNL | DNL | - | 50 | | | | | |
| TU-3-2 | 10 / 6 | - | DNL | DNL | | - | 105 | | DNL | DNL | - | 60 | | | | | |
| TU-3-3 | 10 / 6 | - | DNL | DNL | | - | 470 | | DNL | DNL | - | 205 | | | | | |
| TU-3-4 | 12 / 8 | - | DNL | DNL | | - | 915 | | DNL | DNL | - | 475 | | | | | |
| TU-3-5 | 8 / - (1) | - | DNL | DNL | | - | 405 | | DNL | DNL | - | - | | | | | |
| TU-3-6 | 10 / 6 | - | DNL | DNL | | - | 685 | | DNL | DNL | - | 395 | | | | | |
| TU-3-7 | 10 / 6 | - | DNL | DNL | | - | 735 | | DNL | DNL | - | 510 | | | | | |
| TU-3-8 | 8 / 6 | - | DNL | DNL | | - | 240 | | DNL | DNL | - | 120 | | | | | |
| TU-3-9 | 10 / 6 | - | DNL | DNL | | - | 640 | | DNL | DNL | - | 280 | | | | | |
| TU-2-1 | 10 / 8 | - | DNL | DNL | | - | 755 | | DNL | DNL | - | 360 | | | | | |
| TU-2-2 | 6 / 6 | - | DNL | DNL | | - | 170 | | DNL | DNL | - | 55 | | | | | |
| TU-2-3 | 6 / 6 | - | DNL | DNL | | - | 240 | | DNL | DNL | - | 220 | | | | | |
| TU-2-4 | 8 / 6 | - | DNL | DNL | | - | 485 | | DNL | DNL | - | 215 | | | | | |
| TU-2-5 | 8 / 6 | - | DNL | DNL | | - | 590 | | DNL | DNL | - | 180 | | | | | |
| TU-2-6 | 8 / 6 | - | DNL | DNL | | - | 235 | | DNL | DNL | - | 200 | | | | | |
| TU-2-7 | 6 / 6 | - | DNL | DNL | | - | 280 | | DNL | DNL | - | 120 | | | | | |
| TU-2-8 | 6 / 6 | - | DNL | DNL | | - | 770 | | DNL | DNL | - | 495 | | | | | |
| TU-2-9 | 12 / 8 | - | DNL | DNL | | - | 935 | | DNL | DNL | - | 620 | | | | | |
| TU-2-10 | 12 / 8 | - | DNL | DNL | | - | 725 | | DNL | DNL | - | 380 | | | | | |
| Remarks | | | | | | | | | | | | | | | | | |
| (1) Cooling only. | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 10-Jul-20 | Unit | | AHU-509-1 | | Flow Spec | | -% | - | +% | - |
|---------------------|--------------|------------|------|-----------|----------------|-----------|------------|----------|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-5-1 | Office | 1 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| TU-5-1 | Office | 2 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| Total TU-5-1 | | | | | | | DNL | - | | 360 | |
| TU-5-2 | Office | 3 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| TU-5-2 | Office | 4 | CD | 24X24 | - | - | DNL | - | - | 25 | |
| TU-5-2 | Corridor | 5 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| TU-5-2 | Office | 6 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-5-2 | Office | 7 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| Total TU-5-2 | | | | | | | DNL | - | | 505 | |
| TU-5-3 | Office | 8 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| TU-5-3 | Office | 9 | CD | 24X24 | - | - | DNL | - | - | 275 | |
| TU-5-3 | File Storage | 10 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-5-3 | File Storage | 11 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| Total TU-5-3 | | | | | | | DNL | - | | 820 | |
| TU-5-4 | Corridor | 12 | CD | 24X24 | - | - | DNL | - | - | 40 | |
| TU-5-4 | Office | 13 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| TU-5-4 | Corridor | 14 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| Total TU-5-4 | | | | | | | DNL | - | | 410 | |
| TU-5-5 | Office | 15 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| TU-5-5 | Conf.Room | 16 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| Total TU-5-5 | | | | | | | DNL | - | | 300 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 8-Jul-20 | | Unit | AHU-509-1 | | Flow Spec | | | -% | - | +% | - |
|---------------------|------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|----|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % | |
| | | | | | | FPM | CFM | | FPM | CFM | | |
| TU-4-4 | Office | 35 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | | |
| TU-4-4 | Office | 36 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | | |
| Total TU-4-4 | | | | | | | DNL | - | | 0 | | |
| TU-4-5 | Conference | 37 | CD | 24X24 | - | - | DNL | - | - | 525 | | |
| TU-4-5 | Office | 38 | CD | 24X24 | - | - | DNL | - | - | 40 | | |
| Total TU-4-5 | | | | | | | DNL | - | | 565 | | |
| TU-4-6 | Office | 39 | CD | 24X24 | - | - | DNL | - | - | 40 | | |
| TU-4-6 | Fax/Copy | 40 | CD | 24X24 | - | - | DNL | - | - | 105 | | |
| TU-4-6 | Reception | 41 | CD | 24X24 | - | - | DNL | - | - | 180 | | |
| Total TU-4-6 | | | | | | | DNL | - | | 325 | | |
| TU-4-7 | Conference | 42 | CD | 24X24 | - | - | DNL | - | - | 40 | | |
| TU-4-7 | Office | 43 | CD | 24X24 | - | - | DNL | - | - | 85 | | |
| TU-4-7 | Corridor | 44 | CD | 24X24 | - | - | DNL | - | - | 45 | | |
| TU-4-7 | Office | 45 | CD | 24X24 | - | - | DNL | - | - | 50 | | |
| Total TU-4-7 | | | | | | | DNL | - | | 220 | | |
| TU-4-8 | Office | 46 | CD | 24X24 | - | - | DNL | - | - | 95 | | |
| Total TU-4-8 | | | | | | | DNL | - | | 95 | | |
| TU-4-9 | Conference | 47 | CD | 24X24 | - | - | DNL | - | - | 510 | | |
| Total TU-4-9 | | | | | | | DNL | - | | 510 | | |
| TU-3-1 | Office | 48 | CD | 24X24 | - | - | DNL | - | - | 90 | | |
| TU-3-1 | Conference | 49 | CD | 24X24 | - | - | DNL | - | - | 90 | | |
| TU-3-1 | Conference | 50 | CD | 24X24 | - | - | DNL | - | - | 75 | | |
| Total TU-3-1 | | | | | | | DNL | - | | 255 | | |

Remarks

(1) Inlet dampers are closed. No modulation when called for cooling or heating.

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 8-Jul-20 | Unit | AHU-509-1 | | | Flow Spec | - | - | + | - | |
|---------------------|-------------|------------|-----------|-------|----------------|-----------|------------|----------|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-3-2 | Server | 50A | CD | 24X24 | - | - | DNL | - | - | 105 | |
| Total TU-3-2 | | | | | | | DNL | - | | 105 | |
| TU-3-3 | Office | 51 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| TU-3-3 | Office | 52 | CD | 24X24 | - | - | DNL | - | - | 195 | |
| TU-3-3 | Corridor | 52A | CD | 24X24 | - | - | DNL | - | - | 55 | |
| Total TU-3-3 | | | | | | | DNL | - | | 470 | |
| TU-3-4 | Office | 53 | CD | 24X24 | - | - | DNL | - | - | 460 | |
| TU-3-4 | Office | 54 | CD | 24X24 | - | - | DNL | - | - | 455 | |
| Total TU-3-4 | | | | | | | DNL | - | | 915 | |
| TU-3-5 | Fax/Copy | 55 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-3-5 | Office | 56 | CD | 24X24 | - | - | DNL | - | - | 285 | |
| Total TU-3-5 | | | | | | | DNL | - | | 405 | |
| TU-3-6 | Office | 57 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| TU-3-6 | Office | 58 | CD | 24X24 | - | - | DNL | - | - | 195 | |
| TU-3-6 | Office | 59 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| TU-3-6 | Office | 60 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| Total TU-3-6 | | | | | | | DNL | - | | 685 | |
| TU-3-7 | Open Office | 61 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| TU-3-7 | Office | 62 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-3-7 | Office | 63 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| TU-3-7 | Corridor | 64 | CD | 24X24 | - | - | DNL | - | - | 260 | |
| Total TU-3-7 | | | | | | | DNL | - | | 735 | |
| TU-3-8 | Office | 65 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| Total TU-3-8 | | | | | | | DNL | - | | 240 | |
| TU-3-9 | Office | 66 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| TU-3-9 | Office | 67 | CD | 24X24 | - | - | DNL | - | - | 230 | |
| TU-3-9 | Office | 68 | CD | 24X24 | - | - | DNL | - | - | 260 | |
| Total TU-3-9 | | | | | | | DNL | - | | 640 | |

| Remarks | |
|---------|--|
| | |
| | |
| | |

AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|-----------|------|-----------|
| Date | 15-Jul-20 | Area Served | Bldg. 509 | Unit | AHU-509-2 |
|------|-----------|-------------|-----------|------|-----------|

Unit Information

| | | | |
|--------------------|-----------|---------------|----------------------|
| Fan Identification | AHU-509-2 | Equipment MFG | Trane |
| Equipment Location | Roof | Model Number | SAHA60040JSSA84DJ0BP |
| Type/Size | - | Serial Number | B82A00477 |

Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|-------------|-----------|--------|------------------|-------------------------------------|
| Total Fan CFM | DNT | DNL | DNT | Fan Sheave | 18-1/2" O.D. |
| Total S/A CFM | DNL/Outlets | DNL | 21,070 | Fan Shaft | 2" |
| Total R/A CFM | DNT | DNL | DNT | Shaft C/C | 30" |
| O/A CFM | | DNL | DNT | Belt Size/Number | C101 / 2 |
| Fan RPM | | DNL | 1,021 | Motor | |
| TSP <input checked="" type="checkbox"/> ESP <input type="checkbox"/> | | DNL | 2.45" | Motor Sheave | 11-1/2" O.D. |
| Inlet SP | | -0.61" | | Motor Shaft | 1-7/8" |
| Discharge SP | | +1.84" | | Sheave Adj. | - |
| Pre / Final Filter ΔP | P | 0.24" | F | Fixed Sheave | <input checked="" type="checkbox"/> |
| Control Set Point | | - | | | |

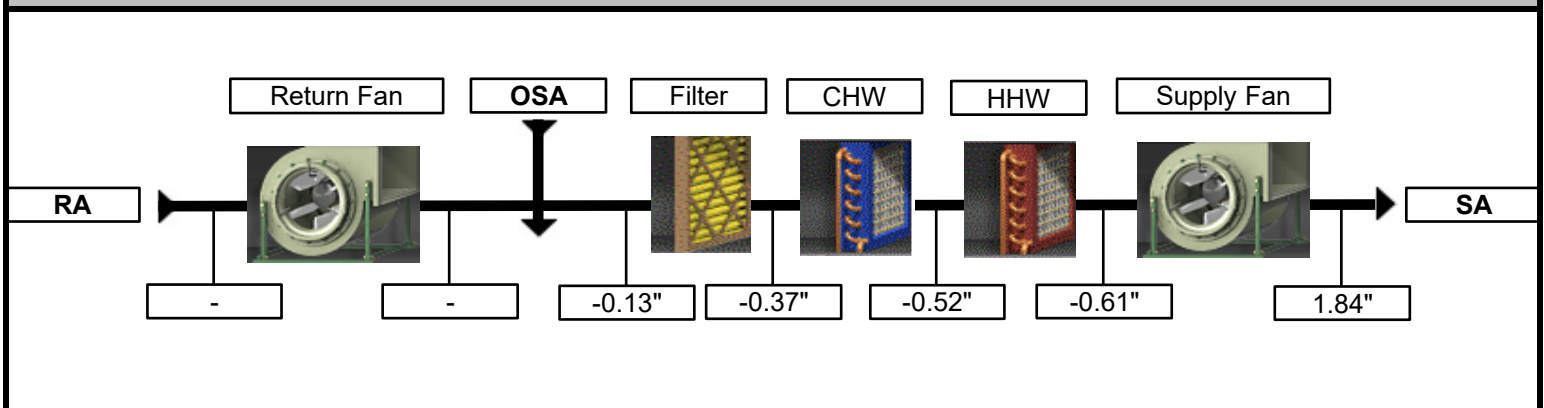
Motor Data

| Motor MFG. | Century | Specified | Actual |
|--------------------|---------|-------------|-----------------|
| Motor HP | 30 | Voltage | 460 - 462 (1) - |
| Service Factor | 1.15 | Amperage | 37 - 27.8 (1) - |
| Phase/Hz | 3/60 | Motor BHP | DNL - |
| Heater Size/Rating | - | Motor RPM | 1750 1690 (1) |
| Motor Frame# | 286T | Speed (VFD) | VFD 57.7 Hz (1) |

Temperature Data

| | | | | | | | |
|------------|------|------------|------|------------|------|------------|------|
| Clg E.A.T. | 70 ° | Clg L.A.T. | 53 ° | Htg E.A.T. | 70 ° | Htg L.A.T. | 95 ° |
|------------|------|------------|------|------------|------|------------|------|

Fan Static Profile



Remarks

(1) Data obtained from VFD display.

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-509-2 | Constant | <input type="checkbox"/> | Variable | <input checked="" type="checkbox"/> | Single | <input type="checkbox"/> | Dual | <input checked="" type="checkbox"/> | Flow Spec | -% | - | + | + | % | - |
|---------------|------------|---|------------|----------|--------------------------|------------|-------------------------------------|--------|--------------------------|------------|-------------------------------------|------------|----|---|---|---|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % | | | | |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | | | | | |
| | Cold / Hot | | | | | | | | | | | | | | | | | |
| TU-5-9 | 8 / 6 | - | DNL | DNL | | - | 440 | | DNL | DNL | - | 180 | | | | | | |
| TU-5-10 | 10 / 6 | - | DNL | DNL | | - | 895 | | DNL | DNL | - | 530 | | | | | | |
| TU-5-11 | 6 / 6 | - | DNL | DNL | | - | 120 | | DNL | DNL | - | 55 | | | | | | |
| TU-5-12 | 14 / 12 | - | DNL | DNL | | - | 1,200 | | DNL | DNL | - | 950 | | | | | | |
| TU-5-13 | 8 / 6 | - | DNL | DNL | | - | 310 | | DNL | DNL | - | 200 | | | | | | |
| TU-5-14 | 10 / 6 | - | DNL | DNL | | - | 520 | | DNL | DNL | - | 195 | | | | | | |
| TU-5-15 | 8 / 8 | - | DNL | DNL | | - | 0 (1) | | DNL | DNL | - | 280 | | | | | | |
| TU-5-16 | 8 / 6 | - | DNL | DNL | | - | 305 | | DNL | DNL | - | 115 | | | | | | |
| TU-5-17 | 8 / 6 | - | DNL | DNL | | - | 365 | | DNL | DNL | - | 100 | | | | | | |
| TU-4-9 | 4 / - (2) | | DNL | DNL | | - | 180 | | DNL | DNL | - | - | | | | | | |
| TU-4-10 | 8 / 6 | - | DNL | DNL | | - | 735 | | DNL | DNL | - | 390 | | | | | | |
| TU-4-11 | 10 / 8 | - | DNL | DNL | | - | 660 | | DNL | DNL | - | 245 | | | | | | |
| TU-4-12 | 10 / 8 | - | DNL | DNL | | - | 615 | | DNL | DNL | - | 480 | | | | | | |
| TU-4-13 | 12 / 10 | - | DNL | DNL | | - | 930 | | DNL | DNL | - | 620 | | | | | | |
| TU-4-14 | 12 / 8 | - | DNL | DNL | | - | 950 | | DNL | DNL | - | 500 | | | | | | |
| TU-4-15 | 8 / - (2) | | DNL | DNL | | - | 400 | | DNL | DNL | - | - | | | | | | |
| TU-4-16 | 8 / 6 | - | DNL | DNL | | - | 1,025 | | DNL | DNL | - | 690 | | | | | | |
| TU-4-17 | 8 / 6 | - | DNL | DNL | | - | 275 | | DNL | DNL | - | 125 | | | | | | |
| TU-4-18 | 10 / 6 | - | DNL | DNL | | - | 560 | | DNL | DNL | - | 275 | | | | | | |
| TU-4-19 | 12 / 10 | - | DNL | DNL | | - | 850 | | DNL | DNL | - | 390 | | | | | | |
| Remarks | | | | | | | | | | | | | | | | | | |
| | | (1) Main cold deck ductwork is not attached to the terminal unit. | | | | | | | | | | | | | | | | |
| | | (2) Cooling only. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-509-2 | Constant | <input type="checkbox"/> | Variable | <input checked="" type="checkbox"/> | Single | <input type="checkbox"/> | Dual | <input checked="" type="checkbox"/> | Flow Spec | -% | - | + | + | % | - |
|----------------|------------|-------------------|------------|----------|--------------------------|------------|-------------------------------------|--------|--------------------------|------------|-------------------------------------|------------|-----|---|---|---|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % | | | | |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | | | | | |
| | Cold / Hot | | | | | | | | | | | | | | | | | |
| TU-3-10 | 8 / - (1) | - | DNL | DNL | | - | 285 | | DNL | DNL | | - | - | | | | | |
| TU-3-11 | 10 / 6 | - | DNL | DNL | | - | 150 | | DNL | DNL | | - | 60 | | | | | |
| TU-3-12 | 10 / 6 | - | DNL | DNL | | - | 350 | | DNL | DNL | | - | 115 | | | | | |
| TU-3-13 | 10 / 6 | - | DNL | DNL | | - | 945 | | DNL | DNL | | - | 460 | | | | | |
| TU-3-14 | 10 / 6 | - | DNL | DNL | | - | 570 | | DNL | DNL | | - | 285 | | | | | |
| TU-3-15 | 8 / 6 | - | DNL | DNL | | - | 460 | | DNL | DNL | | - | 200 | | | | | |
| TU-3-16 | 8 / 6 | - | DNL | DNL | | - | 685 | | DNL | DNL | | - | 280 | | | | | |
| TU-3-17 | 8 / 6 | - | DNL | DNL | | - | 425 | | DNL | DNL | | - | 140 | | | | | |
| TU-3-18 | 6 / 6 | - | DNL | DNL | | - | 250 | | DNL | DNL | | - | 100 | | | | | |
| TU-2-11 | 6 / 6 | - | DNL | DNL | | - | 255 | | DNL | DNL | | - | 80 | | | | | |
| TU-2-12 | 8 / 8 | - | DNL | DNL | | - | 425 | | DNL | DNL | | - | 310 | | | | | |
| TU-2-13 | 8 / 6 | - | DNL | DNL | | - | 290 | | DNL | DNL | | - | 95 | | | | | |
| TU-2-14 | 8 / 6 | - | DNL | DNL | | - | 360 | | DNL | DNL | | - | 120 | | | | | |
| TU-2-15 | 10 / 8 | - | DNL | DNL | | - | 590 | | DNL | DNL | | - | 160 | | | | | |
| TU-2-16 | 6 / 6 | - | DNL | DNL | | - | 330 | | DNL | DNL | | - | 100 | | | | | |
| TU-2-17 | 6 / 6 | - | DNL | DNL | | - | 170 | | DNL | DNL | | - | 50 | | | | | |
| TU-2-18 | 6 / 6 | - | DNL | DNL | | - | 225 | | DNL | DNL | | - | 65 | | | | | |
| TU-2-19 | 12 / 8 | - | DNL | DNL | | - | 1,015 | | DNL | DNL | | - | 580 | | | | | |
| TU-2-20 | 8 / 8 | - | DNL | DNL | | - | 550 | | DNL | DNL | | - | 215 | | | | | |
| Remarks | | | | | | | | | | | | | | | | | | |
| | | (1) Cooling only. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |



TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| | | | | | | | | | | | | |
|------|-----------|------|-----------|-----------------------------------|--|---------------------------------|--|-----------|----|---|----|---|
| Date | 13-Jul-20 | Unit | AHU-509-2 | Constant <input type="checkbox"/> | Variable <input checked="" type="checkbox"/> | Single <input type="checkbox"/> | Dual <input checked="" type="checkbox"/> | Flow Spec | -% | - | +% | - |
|------|-----------|------|-----------|-----------------------------------|--|---------------------------------|--|-----------|----|---|----|---|

| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | |
|---------------|------------|------------------|------------|-----|---|------------|-----|-----|---------|------------|-----|------------|-----|---|
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | |
| | Cold / Hot | | | | | | | | | | | | | |
| TU-2-21 | 8 / 8 | - | DNL | DNL | | | - | 620 | | DNL | DNL | - | 260 | |
| TU-2-22 | 10 / 10 | - | DNL | DNL | | | - | 685 | | DNL | DNL | - | 410 | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| Remarks | |
|---------|--|
| | |
| | |
| | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 9-Jul-20 | Unit | | AHU-509-2 | | Flow Spec | | -% | - | +% | - |
|----------------------|------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|-----|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-5-15 | Office | 18 | CD | 24X24 | - | - | DNL | - | - | 0 | (1) |
| TU-5-15 | Office | 19 | CD | 24X24 | - | - | DNL | - | - | 0 | (1) |
| Total TU-5-15 | | | | | | | DNL | - | | 0 | |
| TU-5-16 | Conf.Room | 20 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| TU-5-16 | Conf.Room | 21 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| TU-5-16 | Conf.Room | 22 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| Total TU-5-16 | | | | | | | DNL | - | | 305 | |
| TU-5-17 | Copy Area | 23 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| TU-5-17 | Copy Area | 24 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| TU-5-17 | Copy Area | 25 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| Total TU-5-17 | | | | | | | DNL | - | | 365 | |
| TU-4-9 | Lobby | 26 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| Total TU-4-9 | | | | | | | DNL | - | | 180 | |
| TU-4-10 | Conference | 27 | CD | 24X24 | - | - | DNL | - | - | 375 | |
| TU-4-10 | Conference | 28 | CD | 24X24 | - | - | DNL | - | - | 360 | |
| Total TU-4-10 | | | | | | | DNL | - | | 735 | |
| TU-4-11 | Office | 29 | CD | 24X24 | - | - | DNL | - | - | 365 | |
| TU-4-11 | Office | 30 | CD | 24X24 | - | - | DNL | - | - | 295 | |
| Total TU-4-11 | | | | | | | DNL | - | | 660 | |
| TU-4-12 | Office | 31 | CD | 24X24 | - | - | DNL | - | - | 615 | |
| Total TU-4-12 | | | | | | | DNL | - | | 615 | |

Remarks

(1) Main cold deck ductwork is not attached to the terminal unit.

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 8-Jul-20 | Unit | AHU-509-2 | | | Flow Spec | - | -% | - | +% | - |
|----------------------|-------------|------------|-----------|-------|----------------|-----------|------------|-----|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-4-13 | Conference | 32 | CD | 24X24 | - | - | DNL | - | - | 485 | |
| TU-4-13 | Conference | 33 | CD | 24X24 | - | - | DNL | - | - | 445 | |
| Total TU-4-13 | | | | | | | DNL | - | | 930 | |
| TU-4-14 | Office | 34 | CD | 24X24 | - | - | DNL | - | - | 315 | |
| TU-4-14 | Office | 35 | CD | 24X24 | - | - | DNL | - | - | 385 | |
| TU-4-14 | Women's | 36 | CD | 24X24 | - | - | DNL | - | - | 125 | |
| TU-4-14 | Men's | 37 | CD | 24X24 | - | - | DNL | - | - | 125 | |
| Total TU-4-14 | | | | | | | DNL | - | | 950 | |
| TU-4-15 | Library | 38 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-4-15 | Library | 39 | CD | 24X24 | - | - | DNL | - | - | 105 | |
| TU-4-15 | Library | 40 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| TU-4-15 | Stairwell | 41 | CD | 24X24 | - | - | DNL | - | - | 85 | |
| Total TU-4-15 | | | | | | | DNL | - | | 400 | |
| TU-4-16 | Office Area | 42 | CD | 24X24 | - | - | DNL | - | - | 755 | |
| TU-4-16 | Office Area | 43 | CD | 24X24 | - | - | DNL | - | - | 270 | |
| Total TU-4-16 | | | | | | | DNL | - | | 1,025 | |
| TU-4-17 | Office | 44 | CD | 24X24 | - | - | DNL | - | - | 275 | |
| Total TU-4-17 | | | | | | | DNL | - | | 275 | |
| TU-4-18 | Break Room | 45 | CD | 24X24 | - | - | DNL | - | - | 115 | |
| TU-4-18 | Break Room | 46 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-4-18 | Break Room | 47 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| TU-4-18 | Break Room | 48 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| Total TU-4-18 | | | | | | | DNL | - | | 560 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 8-Jul-20 | Unit | | AHU-509-2 | | Flow Spec | | -% | - | +% | - |
|----------------------|------------|------------|------|-----------|----------------|-----------|------------|----------|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-3-14 | Break Room | 63 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| TU-3-14 | Office | 64 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| TU-3-14 | Office | 65 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-3-14 | Office | 66 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| Total TU-3-14 | | | | | | | DNL | - | | 570 | |
| TU-3-15 | Office | 67 | CD | 24X24 | - | - | DNL | - | - | 155 | |
| TU-3-15 | Office | 68 | CD | 24X24 | - | - | DNL | - | - | 305 | |
| Total TU-3-15 | | | | | | | DNL | - | | 460 | |
| TU-3-16 | Office | 69 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| TU-3-16 | Office | 70 | CD | 24X24 | - | - | DNL | - | - | 405 | |
| Total TU-3-16 | | | | | | | DNL | - | | 685 | |
| TU-3-17 | Office | 71 | CD | 24X24 | - | - | DNL | - | - | 425 | |
| Total TU-3-17 | | | | | | | DNL | - | | 425 | |
| TU-3-18 | Office | 72 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| Total TU-3-18 | | | | | | | DNL | - | | 250 | |
| TU-2-11 | Break Rm | 73 | CD | 24X24 | - | - | DNL | - | - | 155 | |
| TU-2-11 | Server Rm | 74 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| Total TU-2-11 | | | | | | | DNL | - | | 255 | |
| TU-2-12 | Conference | 75 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-2-12 | Conference | 76 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| Total TU-2-12 | | | | | | | DNL | - | | 425 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 6-Jul-20 | Unit | AHU-509-2 | | | Flow Spec | -% | - | + | - | |
|----------------------|----------|------------|-----------|-------|----------------|-----------|------------|----------|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-2-13 | Office | 77 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| TU-2-13 | Office | 78 | CD | 24X24 | - | - | DNL | - | - | 155 | |
| Total TU-2-13 | | | | | | | DNL | - | | 290 | |
| TU-2-14 | Office | 79 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| TU-2-14 | Office | 80 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| Total TU-2-14 | | | | | | | DNL | - | | 360 | |
| TU-2-15 | Office | 81 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| TU-2-15 | Office | 82 | CD | 24X24 | - | - | DNL | - | - | 300 | |
| Total TU-2-15 | | | | | | | DNL | - | | 590 | |
| TU-2-16 | Office | 83 | CD | 24X24 | - | - | DNL | - | - | 330 | |
| Total TU-2-16 | | | | | | | DNL | - | | 330 | |
| TU-2-17 | Office | 84 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| Total TU-2-17 | | | | | | | DNL | - | | 170 | |
| TU-2-18 | Office | 85 | CD | 24X24 | - | - | DNL | - | - | 225 | |
| Total TU-2-18 | | | | | | | DNL | - | | 225 | |
| TU-2-19 | Office | 86 | CD | 24X24 | - | - | DNL | - | - | 345 | |
| TU-2-19 | Office | 87 | CD | 24X24 | - | - | DNL | - | - | 325 | |
| TU-2-19 | Office | 88 | CD | 24X24 | - | - | DNL | - | - | 345 | |
| Total TU-2-19 | | | | | | | DNL | - | | 1,015 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 6-Jul-20 | Unit | | Heat Pumps | | Flow Spec | | -% | - | +% | - |
|---------------------|-------------|------------|------|------------|----------------|-----------|------------|-----|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-1 | Office | 1 | CD | 24X24 | - | - | DNL | - | - | 70 | |
| HP-1-1 | Storage | 2 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| HP-1-1 | Office | 3 | CD | 24X24 | - | - | DNL | - | - | 50 | |
| HP-1-1 | Open Office | 4 | CD | 24X24 | - | - | DNL | - | - | 335 | |
| Total HP-1-1 | | | | | | | DNL | - | | 655 | |
| HP-1-2 | Open Office | 5 | CD | 24X24 | - | - | DNL | - | - | 265 | |
| HP-1-2 | Open Office | 6 | CD | 24X24 | - | - | DNL | - | - | 285 | |
| HP-1-2 | Open Office | 7 | CD | 24X24 | - | - | DNL | - | - | 395 | |
| Total HP-1-2 | | | | | | | DNL | - | | 945 | |
| HP-1-3 | Break Room | 8 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-3 | Break Room | 9 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-3 | Break Room | 10 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-3 | Break Room | 11 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| Total HP-1-3 | | | | | | | DNL | - | | 0 | |
| HP-1-4 | Break Room | 12 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| HP-1-4 | Break Room | 13 | CD | 24X24 | - | - | DNL | - | - | 225 | |
| HP-1-4 | Break Room | 14 | CD | 24X24 | - | - | DNL | - | - | 260 | |
| HP-1-4 | Break Room | 15 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| Total HP-1-4 | | | | | | | DNL | - | | 1,010 | |
| HP-1-5 | Server Room | 16 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-5 | Server Room | 17 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| Total HP-1-5 | | | | | | | DNL | - | | 0 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Remarks | | | | | | | | | | | |

(1) Heat pump is abandoned above the ceiling. Fan does not energize.

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 6-Jul-20 | Unit | | Heat Pumps | | Flow Spec | | -% | - | +% | - |
|---------------------|-------------|------------|------|------------|----------------|-----------|------------|-----|---------|----------------------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-6 | Office Area | 18 | CD | 24X24 | - | - | DNL | - | - | 305 | |
| HP-1-6 | Office Area | 19 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| HP-1-6 | Office Area | 20 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| HP-1-6 | Office Area | 21 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| HP-1-6 | Office Area | 22 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| HP-1-6 | Office Area | 23 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| HP-1-6 | Office Area | 24 | CD | 24X24 | - | - | DNL | - | - | 195 | |
| HP-1-6 | Office | 25 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| HP-1-6 | Office Area | 26 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| HP-1-6 | Office Area | 27 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| Total HP-1-6 | | | | | | | DNL | - | | 1,920⁽¹⁾ | |
| HP-1-7 | Break Room | 28 | CD | 24X24 | - | - | DNL | - | - | 345 | |
| HP-1-7 | Break Room | 29 | CD | 24X24 | - | - | DNL | - | - | 370 | |
| HP-1-7 | Break Room | 30 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| HP-1-7 | Break Room | 31 | CD | 24X24 | - | - | DNL | - | - | 105 | |
| Total HP-1-7 | | | | | | | DNL | - | | 950 | |
| HP-1-8 | Office Area | 32 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| HP-1-8 | Office | 33 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| HP-1-8 | Office Area | 34 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| HP-1-8 | Office Area | 35 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| HP-1-8 | Office Area | 36 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| Total HP-1-8 | | | | | | | DNL | - | | 970 | |
| HP-1-9 | Office Area | 37 | CD | 24X24 | - | - | DNL | - | - | 225 | |
| HP-1-9 | Office Area | 38 | CD | 24X24 | - | - | DNL | - | - | 315 | |
| HP-1-9 | Office Area | 39 | CD | 24X24 | - | - | DNL | - | - | 315 | |
| HP-1-9 | Office Area | 40 | CD | 24X24 | - | - | DNL | - | - | 300 | |
| HP-1-9 | Office Area | 41 | CD | 24X24 | - | - | DNL | - | - | 330 | |
| Total HP-1-9 | | | | | | | DNL | - | | 1,485 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 6-Jul-20 | Unit | Heat Pumps | | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------------|-------|----------------|-----------|------------|-----|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-10 | Fax/Copy | 42 | CD | 24X24 | - | - | DNL | - | - | 675 | |
| HP-1-10 | Fax/Copy | 43 | CD | 24X24 | - | - | DNL | - | - | 420 | |
| Total HP-1-10 | | | | | | | DNL | - | | 1,095 | |
| HP-1-11 | Office Area | 20 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-11 | Office Area | 21 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-11 | Office Area | 22 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| Total HP-1-11 | | | | | | | DNL | - | | 0 | |
| HP-1-12 | Conference | 23 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-12 | Conference | 24 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-12 | Conference | 25 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| HP-1-12 | Conference | 26 | CD | 24X24 | - | - | DNL | - | - | 0 (1) | |
| Total HP-1-12 | | | | | | | DNL | - | | 0 | |
| HP-1-13 | Conference | 27 | CD | 24X24 | - | - | DNL | - | - | 195 | |
| HP-1-13 | Conference | 28 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| HP-1-13 | Conference | 29 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| HP-1-13 | Conference | 30 | CD | 24X24 | - | - | DNL | - | - | 115 | |
| HP-1-13 | Conference | 31 | CD | 24X24 | - | - | DNL | - | - | 105 | |
| HP-1-13 | Conference | 32 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| Total HP-1-13 | | | | | | | DNL | - | | 905 | |
| Remarks | | | | | | | | | | | |

EXHAUST AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|-----|------|--------|
| Date | 15-Jul-20 | Area Served | 509 | Unit | EF-509 |
|------|-----------|-------------|-----|------|--------|

Unit Information

| | | | |
|--------------------|--------|---------------|------------|
| Fan Identification | EF-590 | Equipment MFG | Fantech |
| Equipment Location | Roof | Model Number | 5ADE16EA |
| Type/Size | - | Serial Number | 1003034014 |

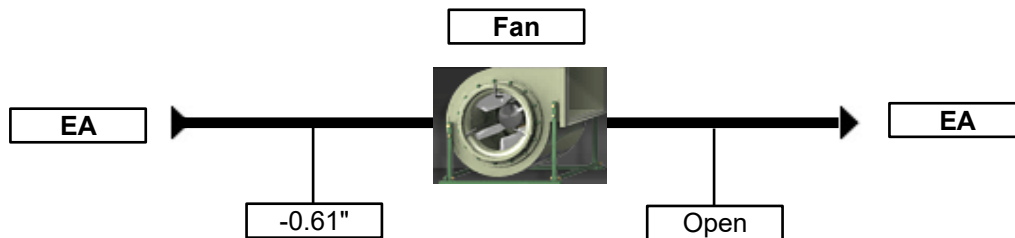
Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|------------|---------------|--------|------------------|--------------------------|
| Total Fan CFM | NVL | DNL | NVL | Fan Sheave | D.D. |
| Total E/A CFM | DNL/Inlets | DNL | 1,220 | Fan Shaft | D.D. |
| Fan RPM | | DNL | 1,697 | Shaft C/C | D.D. |
| TSP <input type="checkbox"/> ESP <input checked="" type="checkbox"/> | | DNL | 0.61" | Belt Size/Number | D.D. |
| Inlet SP | | -0.61" | | Motor | |
| Discharge SP | | Open | | Motor Sheave | D.D. |
| Pre / Final Filter ΔP | | P - F - | | Motor Shaft | D.D. |
| Control Set Point | | - | | Sheave Adj. | - |
| | | | | Fixed Sheave | <input type="checkbox"/> |

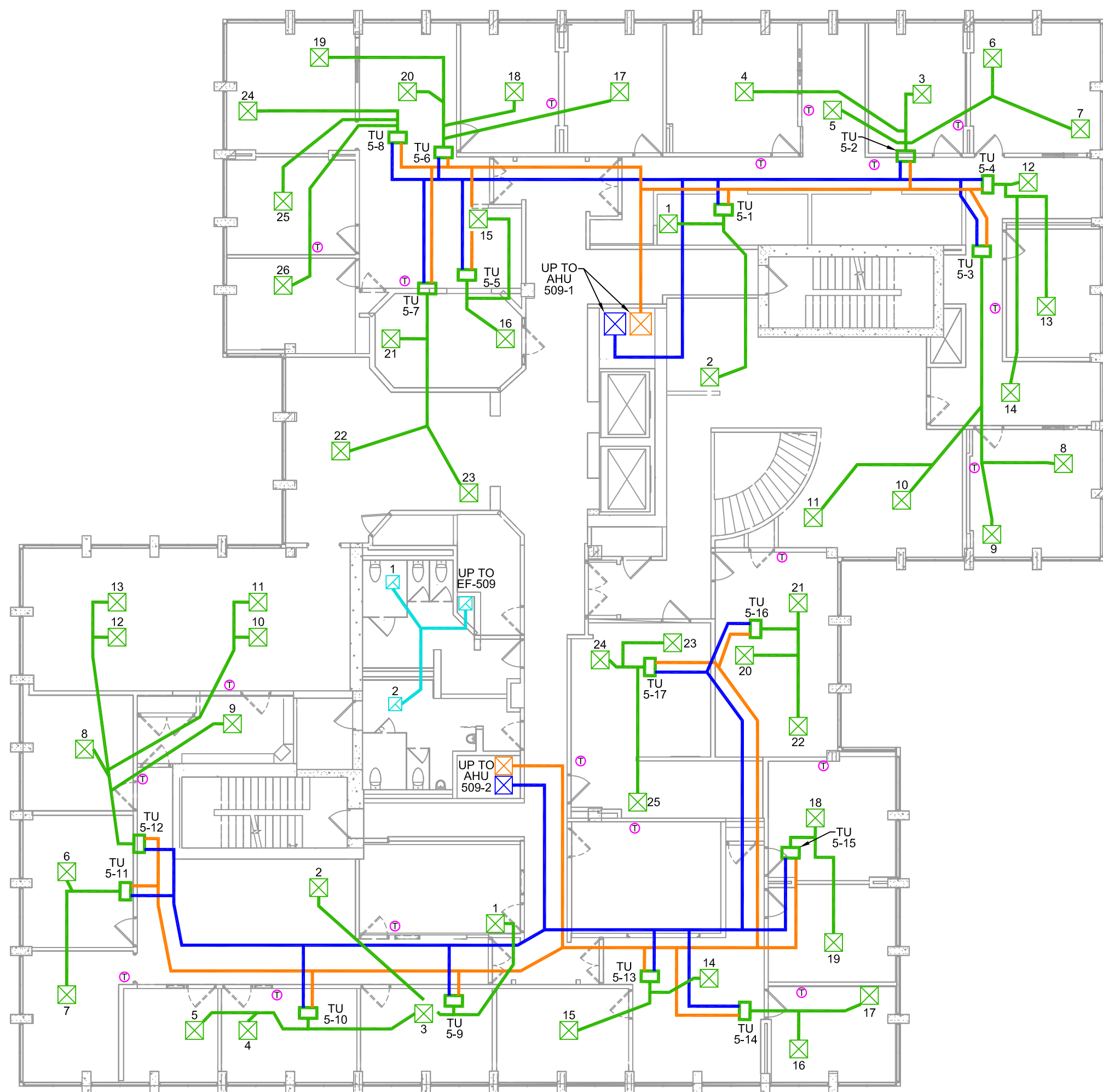
Motor Data

| Motor MFG. | US Motors | | Specified | Actual | | |
|--------------------|-----------|-------------|-----------|--------|-----|---|
| Motor HP | 3/4 | Voltage | 115 | - | 121 | - |
| Service Factor | 1.15 | Amperage | 6.7 | - | 5.1 | - |
| Phase/Hz | 1/60 | Motor BHP | DNL | - | | |
| Heater Size/Rating | - | Motor RPM | 1725 | 1697 | | |
| Motor Frame# | DNL | Speed (VFD) | Single | - | | |

Fan Static Profile



| | |
|---------|--|
| Remarks | |
|---------|--|

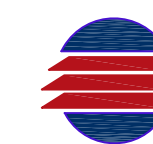


BUILDING 509 - FIFTH FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

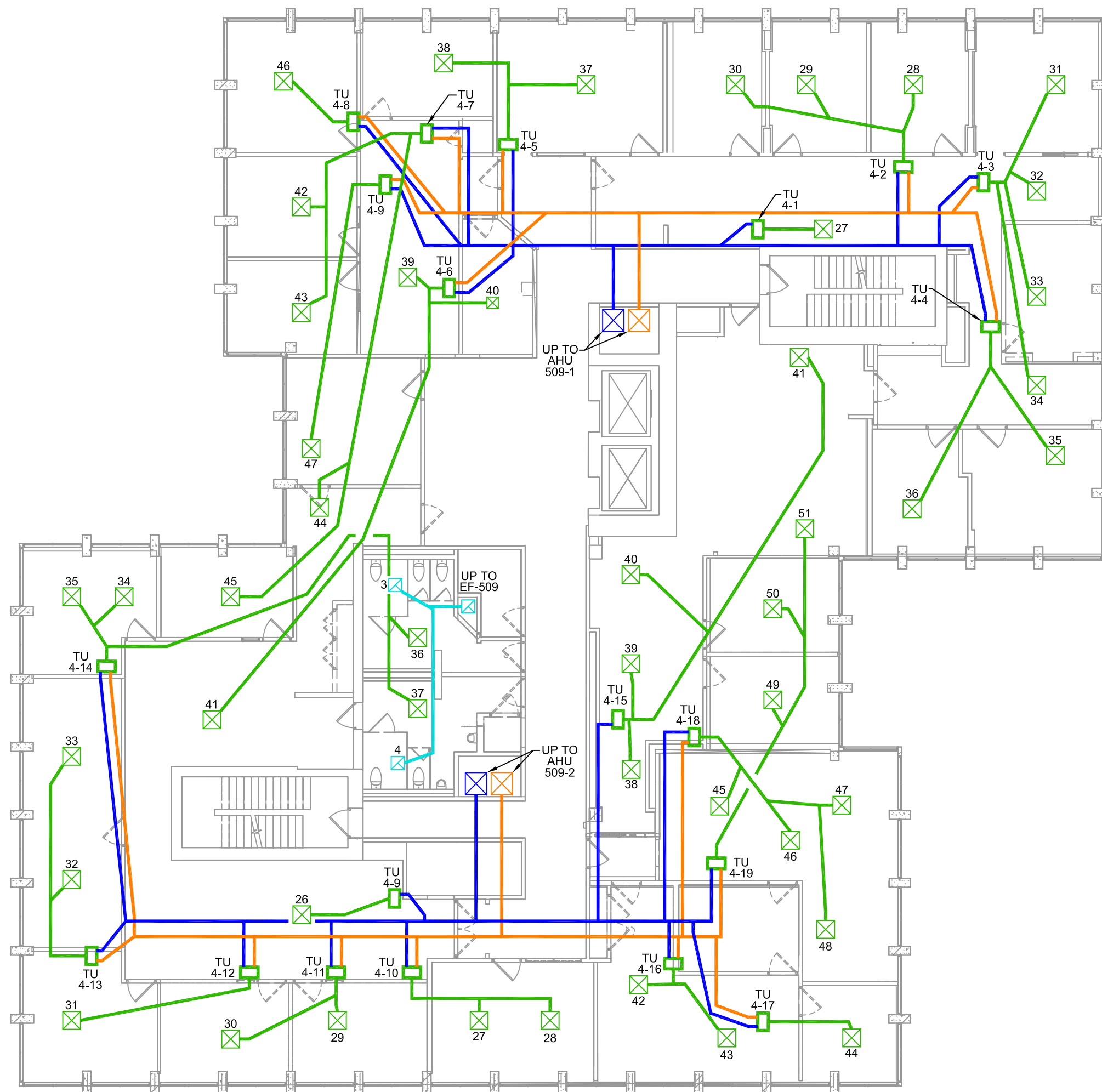
HVAC PLAN

| | | |
|----------|-----------|-----------|
| DATE: | DRAWN BY: | CHECK BY: |
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

| | |
|--------|---------|
| N ↑ | MD2-105 |
|--------|---------|

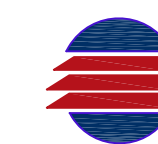


BUILDING 509 - FOURTH FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

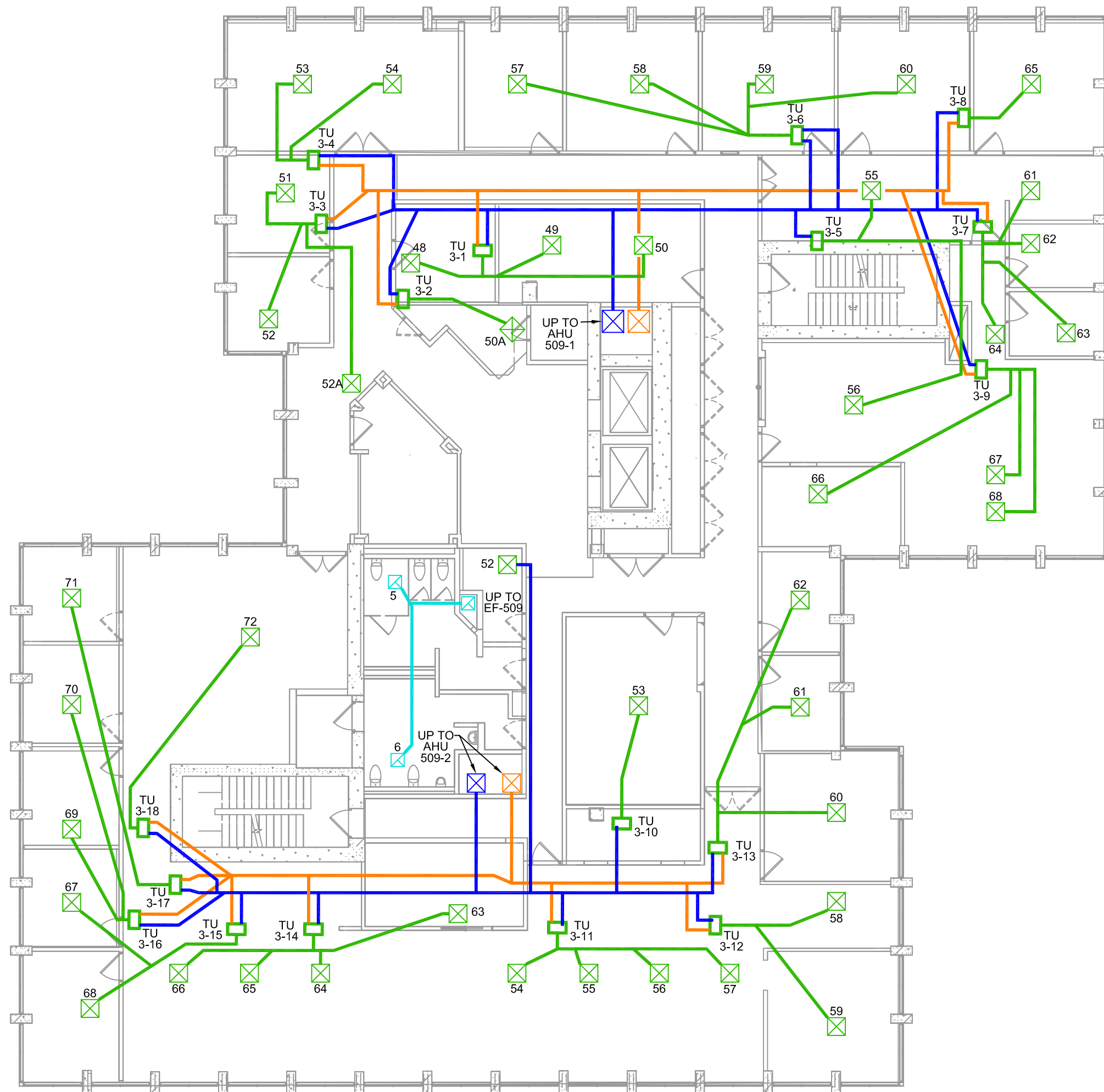
HVAC PLAN

| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

| | |
|--------|---------|
| N ↑ | MD2-104 |
|--------|---------|

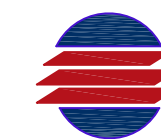


BUILDING 509 - THIRD FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

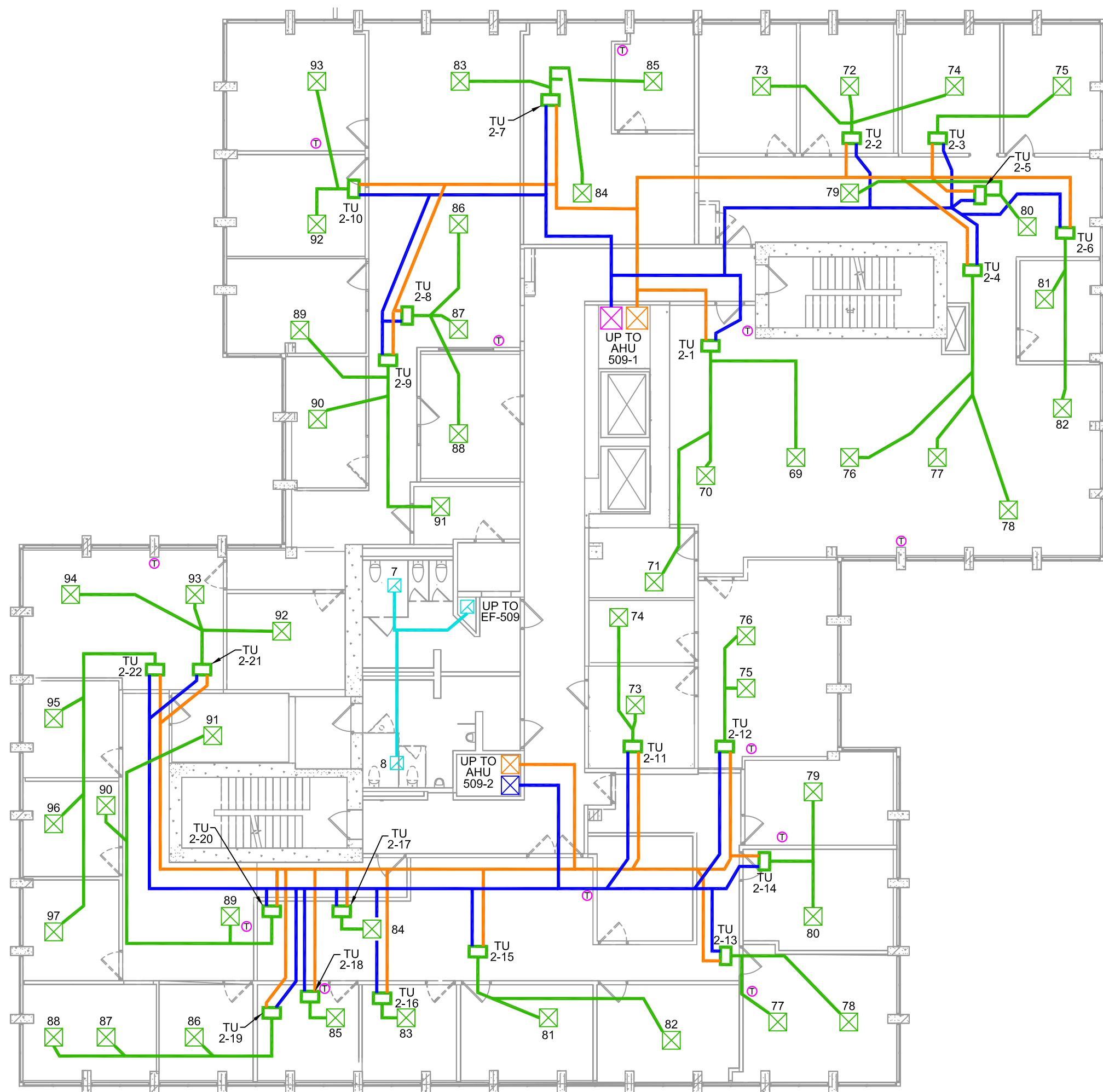
HVAC PLAN

| | | |
|----------|-----------|-----------|
| DATE: | DRAWN BY: | CHECK BY: |
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

| | |
|--------|---------|
| N ↑ | MD2-103 |
|--------|---------|

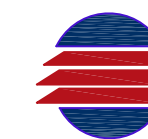


BUILDING 509 - SECOND FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

HVAC PLAN

| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

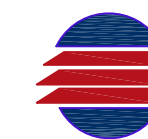


MD2-102



ENVIRONMENTAL SYSTEM TEST & BALANCE
1035 SUNCAST LN., STE., 130
EL DORADO HILLS, CA., 95762
PH: 888-330-1935
FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |
| | |

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |
| | |

PROJECT NAME:
STOCKTON CITY HALL HVAC SURVEY
501 & 509 WEST WEBER AVE., STOCKTON, CA
SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY
OF AND OWNED BY RS ANALYSIS, INC. NO USE,
PUBLICATION, EXHIBITION, REPRODUCTION
OR DUPLICATION OF THIS DRAWING IN PART
OR IN WHOLE MAY BE MADE WITHOUT THE
WRITTEN PERMISSION OF RS ANALYSIS, INC.

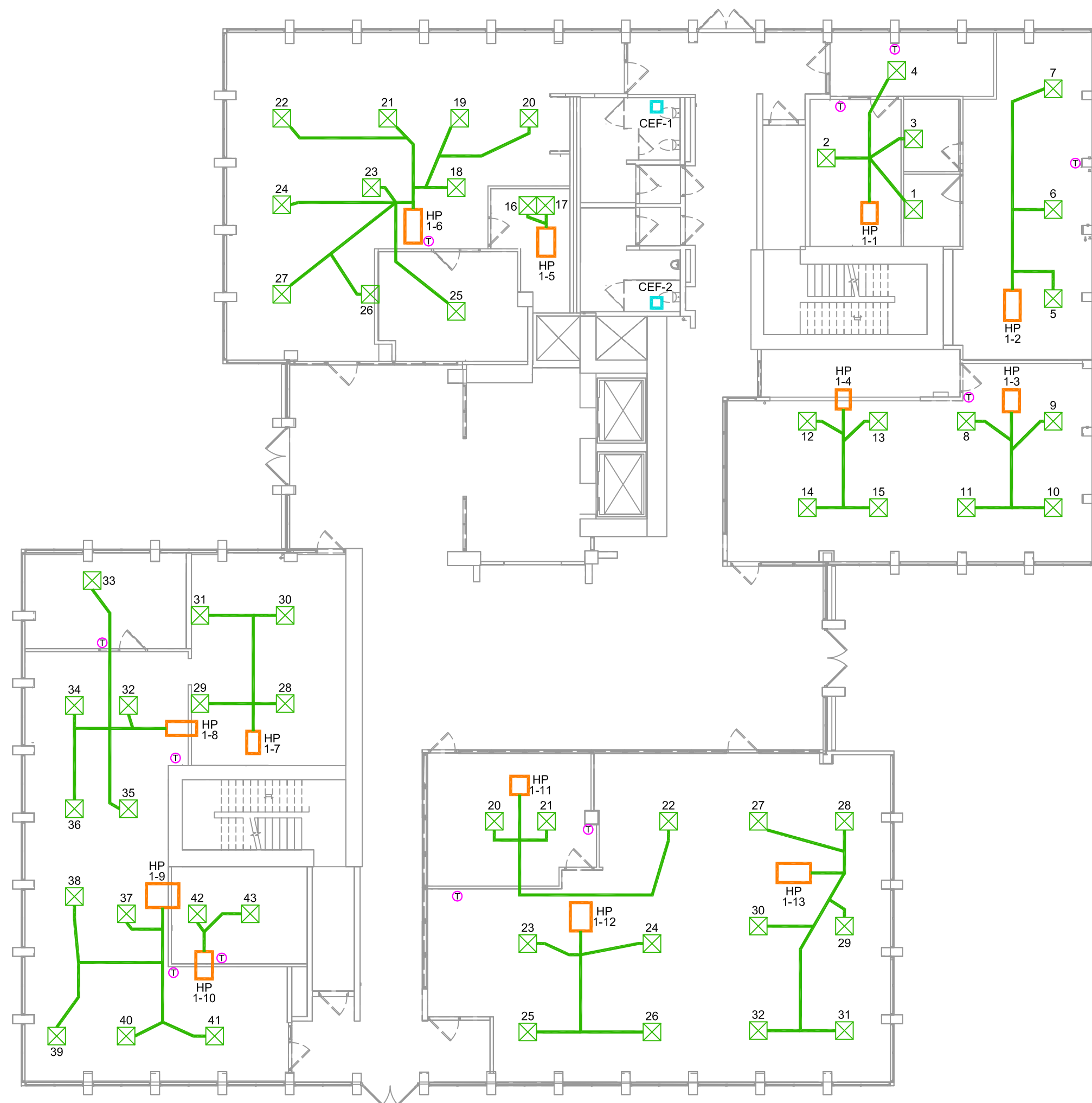
HVAC PLAN

| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

| | |
|--------|---------|
| N ↑ | MD2-101 |
|--------|---------|



BUILDING 509 - FIRST FLOOR

AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|-----|------|-----------|
| Date | 14-Jul-20 | Area Served | 501 | Unit | AHU-501-1 |
|------|-----------|-------------|-----|------|-----------|

Unit Information

| | | | |
|--------------------|-----------|---------------|----------------------|
| Fan Identification | AHU-501-1 | Equipment MFG | Trane |
| Equipment Location | Roof | Model Number | SAHA60040JSSA84DJ0BP |
| Type/Size | - | Serial Number | B82A00478 |

Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|-------------|-----------|--------|------------------|--------------------------|
| Total Fan CFM | DNT | DNL | DNT | Fan Sheave | 18.5" O.D. |
| Total S/A CFM | DNL/Outlets | DNL | 16,510 | Fan Shaft | 2" |
| Total R/A CFM | DNT | DNL | DNT | Shaft C/C | 30" |
| O/A CFM | | DNL | DNT | Belt Size/Number | V80 / 2 |
| Fan RPM | | DNL | 989 | Motor | |
| TSP <input checked="" type="checkbox"/> ESP <input type="checkbox"/> | | DNL | 1.86" | Motor Sheave | 11.5" O.D. |
| Inlet SP | | -0.42" | | Motor Shaft | 1-7/8" |
| Discharge SP | | +1.44" | | Sheave Adj. | - |
| Pre / Final Filter ΔP | | P 0.13" F | - | Fixed Sheave | <input type="checkbox"/> |
| Control Set Point | | - | | | |

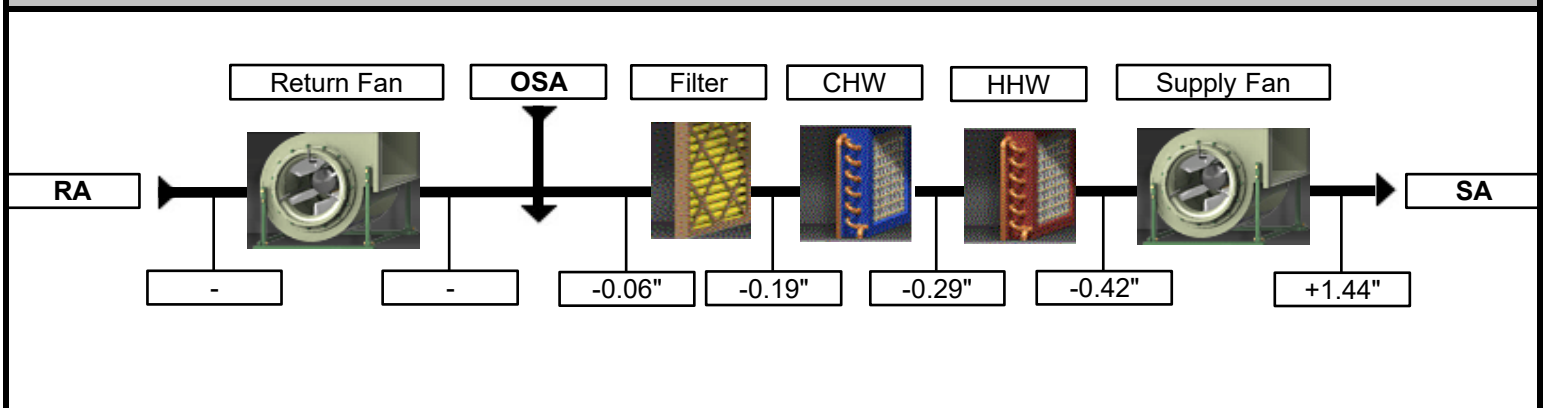
Motor Data

| Motor MFG. | Century | Specified | Actual | | |
|--------------------|---------|-------------|--------|---------|-----|
| Motor HP | 30 | Voltage | 460 | - | 449 |
| Service Factor | 1.15 | Amperage | 37 | - | 29 |
| Phase/Hz | 3/60 | Motor BHP | DNL | 23.5 | |
| Heater Size/Rating | - | Motor RPM | 1750 | 1747 | |
| Motor Frame# | 286T | Speed (VFD) | VFD | 51.4 Hz | |

Temperature Data

| | | | | | | | |
|------------|------|------------|------|------------|------|------------|------|
| Clg E.A.T. | 70 ° | Clg L.A.T. | 59 ° | Htg E.A.T. | 70 ° | Htg L.A.T. | 90 ° |
|------------|------|------------|------|------------|------|------------|------|

Fan Static Profile



Remarks

| |
|--|
| |
| |
| |
| |
| |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-501-1 | | Constant <input type="checkbox"/> | Variable <input checked="" type="checkbox"/> | Single <input type="checkbox"/> | Dual <input checked="" type="checkbox"/> | Flow Spec | -% | - | +% | - | |
|---------------|------------|------------------|------------|-----|-----------------------------------|--|---------------------------------|--|-----------|------------|-----|------------|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | |
| | Cold / Hot | | | | | | | | | | | | | |
| TU-5-1 | 8 / 6 | - | DNL | DNL | | - | 700 | | DNL | DNL | - | 210 | | |
| TU-5-2 | 6 / 6 | - | DNL | DNL | | - | 320 | | DNL | DNL | - | 100 | | |
| TU-5-3 | 8 / 6 | - | DNL | DNL | | - | 240 | | DNL | DNL | - | 50 | | |
| TU-5-4 | 6 / 6 | - | DNL | DNL | | - | 270 | | DNL | DNL | - | 60 | | |
| TU-5-5 | 10 / 8 | - | DNL | DNL | | - | 880 | | DNL | DNL | - | 460 | | |
| TU-5-6 | 6 / 6 | - | DNL | DNL | | - | 255 | | DNL | DNL | - | 185 | | |
| TU-5-7 | 10 / 8 | - | DNL | DNL | | - | 640 | | DNL | DNL | - | 420 | | |
| TU-5-8 | 8 / 6 | - | DNL | DNL | | - | 355 | | DNL | DNL | - | 85 | | |
| TU-5-9 | 6 / 6 | - | DNL | DNL | | - | 315 | | DNL | DNL | - | 60 | | |
| TU-5-10 | 8 / 8 | - | DNL | DNL | | - | 415 | | DNL | DNL | - | 300 | | |
| | | | | | | | | | | | | | | |
| TU-4-1 | 8 / 6 | - | DNL | DNL | | - | 435 | | DNL | DNL | - | 120 | | |
| TU-4-2 | 10 / 8 | - | DNL | DNL | | - | 535 | | DNL | DNL | - | 300 | | |
| TU-4-3 | 8 / 8 | - | DNL | DNL | | - | 300 | | DNL | DNL | - | 180 | | |
| TU-4-4 | 8 / 6 | - | DNL | DNL | | - | 415 | | DNL | DNL | - | 160 | | |
| TU-4-5 | 10 / 8 | - | DNL | DNL | | - | 545 | | DNL | DNL | - | 380 | | |
| TU-4-6 | 6 / 6 | - | DNL | DNL | | - | 380 | | DNL | DNL | - | 140 | | |
| TU-4-7 | 8 / 6 | - | DNL | DNL | | - | 590 | | DNL | DNL | - | 245 | | |
| TU-4-8 | 8 / 8 | - | DNL | DNL | | - | 445 | | DNL | DNL | - | 305 | | |
| TU-4-9 | 10 / 8 | - | DNL | DNL | | - | 680 | | DNL | DNL | - | 220 | | |
| | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-501-1 | | Constant <input type="checkbox"/> | Variable <input checked="" type="checkbox"/> | Single <input type="checkbox"/> | Dual <input checked="" type="checkbox"/> | Flow Spec | -% | - | +% | - | |
|---------------|------------|------------------|------------|-----|-----------------------------------|--|---------------------------------|--|-----------|------------|-----|------------|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | |
| | Cold / Hot | | | | | | | | | | | | | |
| TU-3-1 | 6 / 6 | - | DNL | DNL | | - | 65 | | DNL | DNL | - | 30 | | |
| TU-3-2 | 10 / 8 | - | DNL | DNL | | - | 625 | | DNL | DNL | - | 410 | | |
| TU-3-3 | 8 / 8 | - | DNL | DNL | | - | 365 | | DNL | DNL | - | 150 | | |
| TU-3-4 | 8 / 6 | - | DNL | DNL | | - | 325 | | DNL | DNL | - | 100 | | |
| TU-3-5 | 6 / 6 | - | DNL | DNL | | - | 155 | | DNL | DNL | - | 60 | | |
| TU-3-6 | 6 / 6 | - | DNL | DNL | | - | 225 | | DNL | DNL | - | 70 | | |
| TU-3-7 | 8 / 6 | - | DNL | DNL | | - | 190 | | DNL | DNL | - | 110 | | |
| TU-3-8 | 8 / 6 | - | DNL | DNL | | - | 190 | | DNL | DNL | - | 85 | | |
| TU-3-9 | 8 / 6 | - | DNL | DNL | | - | 485 | | DNL | DNL | - | 260 | | |
| TU-3-10 | 6 / 6 | - | DNL | DNL | | - | 240 | | DNL | DNL | - | 100 | | |
| TU-3-11 | 10 / 8 | - | DNL | DNL | | - | 605 | | DNL | DNL | - | 32 | | |
| TU-3-12 | 10 / 8 | - | DNL | DNL | | - | 530 | | DNL | DNL | - | 270 | | |
| | | | | | | | | | | | | | | |
| TU-2-1 | 8 / 6 | - | DNL | DNL | | - | 210 | | DNL | DNL | - | 100 | | |
| TU-2-2 | 6 / 6 | - | DNL | DNL | | - | 140 | | DNL | DNL | - | 65 | | |
| TU-2-3 | 8 / 6 | - | DNL | DNL | | - | 365 | | DNL | DNL | - | 250 | | |
| TU-2-4 | 8 / 6 | - | DNL | DNL | | - | 385 | | DNL | DNL | - | 185 | | |
| TU-2-5 | 6 / 6 | - | DNL | DNL | | - | 300 | | DNL | DNL | - | 205 | | |
| TU-2-6 | 6 / 6 | - | DNL | DNL | | - | 75 | | DNL | DNL | - | 40 | | |
| TU-2-7 | 10 / 8 | - | DNL | DNL | | - | 870 | | DNL | DNL | - | 545 | | |
| | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 14-Jul-20 | Unit | | AHU-501-1 | | Flow Spec | | -% | - | +% | - |
|----------------------|-----------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-5-7 | Office Area | 19 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| TU-5-7 | Office Area | 20 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| TU-5-7 | Open Office | 21 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| TU-5-7 | Open Office | 22 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| Total TU-5-7 | | | | | | | DNL | - | | 640 | |
| TU-5-8 | Office Area | 23 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-5-8 | Conference Room | 24 | CD | 24X24 | - | - | DNL | - | - | 235 | |
| Total TU-5-8 | | | | | | | DNL | - | | 355 | |
| TU-5-9 | Office | 25 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| TU-5-9 | Office | 26 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| Total TU-5-9 | | | | | | | DNL | - | | 315 | |
| TU-5-10 | Conference Room | 27 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| TU-5-10 | Conference Room | 28 | CD | 24X24 | - | - | DNL | - | - | 235 | |
| Total TU-5-10 | | | | | | | DNL | - | | 415 | |
| TU-4-1 | Office Area | 29 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-4-1 | Office Area | 30 | CD | 24X24 | - | - | DNL | - | - | 225 | |
| Total TU-4-1 | | | | | | | DNL | - | | 435 | |
| TU-4-2 | Office | 31 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| TU-4-2 | Office | 32 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| TU-4-2 | Conference Room | 33 | CD | 24X24 | - | - | DNL | - | - | 105 | |
| Total TU-4-2 | | | | | | | DNL | - | | 535 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 14-Jul-20 | Unit | | AHU-501-1 | | Flow Spec | | -% | - | +% | - |
|---------------------|---------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-4-3 | Storage | 34 | CD | 24X24 | - | - | DNL | - | - | 60 | |
| TU-4-3 | Elec Room | 35 | SWS | 18X18 | - | - | DNL | - | - | 240 | |
| Total TU-4-3 | | | | | | | DNL | - | | 300 | |
| TU-4-4 | Fax/Copy Area | 36 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| TU-4-4 | Office | 37 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| Total TU-4-4 | | | | | | | DNL | - | | 415 | |
| TU-4-5 | Break Room | 38 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-4-5 | Break Room | 39 | CD | 24X24 | - | - | DNL | - | - | 295 | |
| Total TU-4-5 | | | | | | | DNL | - | | 545 | |
| TU-4-6 | Office | 40 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-4-6 | Office | 41 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| TU-4-6 | Office | 42 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| Total TU-4-6 | | | | | | | DNL | - | | 380 | |
| TU-4-7 | Office Area | 43 | CD | 24X24 | - | - | DNL | - | - | 310 | |
| TU-4-7 | Office Area | 44 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| Total TU-4-7 | | | | | | | DNL | - | | 590 | |
| TU-4-8 | Office Area | 45 | CD | 24X24 | - | - | DNL | - | - | 265 | |
| TU-4-8 | Office | 46 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| Total TU-4-8 | | | | | | | DNL | - | | 445 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 14-Jul-20 | Unit | AHU-501-1 | | | Flow Spec | - | - | + | - | |
|---------------------|-----------------|------------|-----------|-------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-4-9 | Office | 47 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-4-9 | Conference Room | 48 | CD | 24X24 | - | - | DNL | - | - | 165 | |
| TU-4-9 | Conference Room | 49 | CD | 24X24 | - | - | DNL | - | - | 305 | |
| Total TU-4-9 | | | | | | | DNL | - | | 680 | |
| TU-3-1 | Break Room | 50 | CD | 24X24 | - | - | DNL | - | - | 65 | |
| Total TU-3-1 | | | | | | | DNL | - | | 65 | |
| TU-3-2 | Reception | 51 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| TU-3-2 | Break Room | 52 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| TU-3-2 | Corridor | 53 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-3-2 | Elec Room | 54 | CD | 24X24 | - | - | DNL | - | - | 85 | |
| Total TU-3-2 | | | | | | | DNL | - | | 625 | |
| TU-3-3 | Open Office | 55 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| TU-3-3 | Open Office | 56 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| TU-3-3 | Office | 57 | CD | 24X24 | - | - | DNL | - | - | 50 | |
| Total TU-3-3 | | | | | | | DNL | - | | 365 | |
| TU-3-4 | Office | 58 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-3-4 | Office | 59 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| TU-3-4 | Office | 60 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| Total TU-3-4 | | | | | | | DNL | - | | 325 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 14-Jul-20 | Unit | | AHU-501-1 | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-3-5 | Office | 61 | CD | 24X24 | - | - | DNL | - | - | 75 | |
| TU-3-5 | Office | 62 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| Total TU-3-5 | | | | | | | DNL | - | | 155 | |
| TU-3-6 | Office | 63 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-3-6 | Office | 64 | CD | 24X24 | - | - | DNL | - | - | 55 | |
| Total TU-3-6 | | | | | | | DNL | - | | 225 | |
| TU-3-7 | Office | 65 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-3-7 | Office | 66 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| Total TU-3-7 | | | | | | | DNL | - | | 190 | |
| TU-3-8 | Office | 67 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-3-8 | Office | 68 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| Total TU-3-8 | | | | | | | DNL | - | | 190 | |
| TU-3-9 | Open Office | 69 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-3-9 | Open Office | 70 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| TU-3-9 | Office | 71 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| Total TU-3-9 | | | | | | | DNL | - | | 485 | |
| TU-3-10 | Office | 72 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| Total TU-3-10 | | | | | | | DNL | - | | 240 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 15-Jul-20 | Unit | | AHU-501-1 | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-3-11 | Office Area | 73 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-3-11 | Office Area | 74 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| TU-3-11 | Office Area | 75 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| Total TU-3-11 | | | | | | | DNL | - | | 605 | |
| TU-3-12 | Open Office | 76 | CD | 24X24 | - | - | DNL | - | - | 260 | |
| TU-3-12 | Open Office | 77 | CD | 24X24 | - | - | DNL | - | - | 270 | |
| Total TU-3-12 | | | | | | | DNL | - | | 530 | |
| TU-2-1 | Office | 78 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-2-1 | Office | 79 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| Total TU-2-1 | | | | | | | DNL | - | | 210 | |
| TU-2-2 | Office | 80 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| Total TU-2-2 | | | | | | | DNL | - | | 140 | |
| TU-2-3 | Break Room | 81 | CD | 24X24 | - | - | DNL | - | - | 165 | |
| TU-2-3 | Break Room | 82 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| Total TU-2-3 | | | | | | | DNL | - | | 365 | |
| TU-2-4 | Hallway | 83 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-2-4 | Hallway | 84 | CD | 24X24 | - | - | DNL | - | - | 60 | |
| TU-2-4 | Women's | 85 | CD | 24X24 | - | - | DNL | - | - | 55 | |
| TU-2-4 | Men's | 86 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| TU-2-4 | Elec Room | 87 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| Total TU-2-4 | | | | | | | DNL | - | | 385 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 15-Jul-20 | Unit | AHU-501-1 | | | Flow Spec | -% | - | + | - | |
|----------------------|-------------|------------|-----------|-------|----------------|-----------|------------|----------|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-2-5 | Open Office | 88 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| TU-2-5 | Office | 89 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-2-5 | Office | 90 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| Total TU-2-5 | | | | | | | DNL | - | | 300 | |
| TU-2-6 | Office | 91 | CD | 24X24 | - | - | DNL | - | - | 75 | |
| Total TU-2-6 | | | | | | | DNL | - | | 75 | |
| TU-2-7 | Office Area | 92 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-2-7 | Office Area | 93 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-2-7 | Office Area | 94 | CD | 24X24 | - | - | DNL | - | - | 300 | |
| TU-2-7 | Office Area | 95 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| Total TU-2-7 | | | | | | | DNL | - | | 870 | |
| TU-2-8 | Office Area | 96 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-2-8 | Office | 97 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-2-8 | Office | 98 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| Total TU-2-8 | | | | | | | DNL | - | | 470 | |
| TU-2-9 | Office | 99 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| Total TU-2-9 | | | | | | | DNL | - | | 280 | |
| TU-2-10 | Office Area | 100 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| TU-2-10 | Office Area | 101 | CD | 24X24 | - | - | DNL | - | - | 270 | |
| TU-2-10 | Office | 102 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-2-10 | Office | 103 | CD | 24X24 | - | - | DNL | - | - | 145 | |
| Total TU-2-10 | | | | | | | DNL | - | | 700 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|----------|------|-----------|
| Date | 15-Jul-20 | Area Served | Bldg 501 | Unit | AHU-501-2 |
|------|-----------|-------------|----------|------|-----------|

Unit Information

| | | | |
|--------------------|-----------|---------------|----------------------|
| Fan Identification | AHU-501-2 | Equipment MFG | Trane |
| Equipment Location | Roof | Model Number | SAHA60040JSSA84DJ0BP |
| Type/Size | - | Serial Number | B82A00478 |

Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|-------------|-----------|--------|------------------|-------------------------------------|
| Total Fan CFM | DNT | DNL | DNT | Fan Sheave | 18-1/2" O.D. |
| Total S/A CFM | DNL/Outlets | DNL | 17,755 | Fan Shaft | 2" |
| Total R/A CFM | DNT | DNL | DNT | Shaft C/C | 30" |
| O/A CFM | | DNL | DNT | Belt Size/Number | V80 / 2 |
| Fan RPM | | DNL | 913 | Motor | |
| TSP <input type="checkbox"/> ESP <input checked="" type="checkbox"/> | | DNL | 2.18" | Motor Sheave | 11.5" O.D. |
| Inlet SP | | -0.51" | | Motor Shaft | 1/78" |
| Discharge SP | | +1.67" | | Sheave Adj. | - |
| Pre / Final Filter ΔP | P | - | F | Fixed Sheave | <input checked="" type="checkbox"/> |
| Control Set Point | | - | | | |

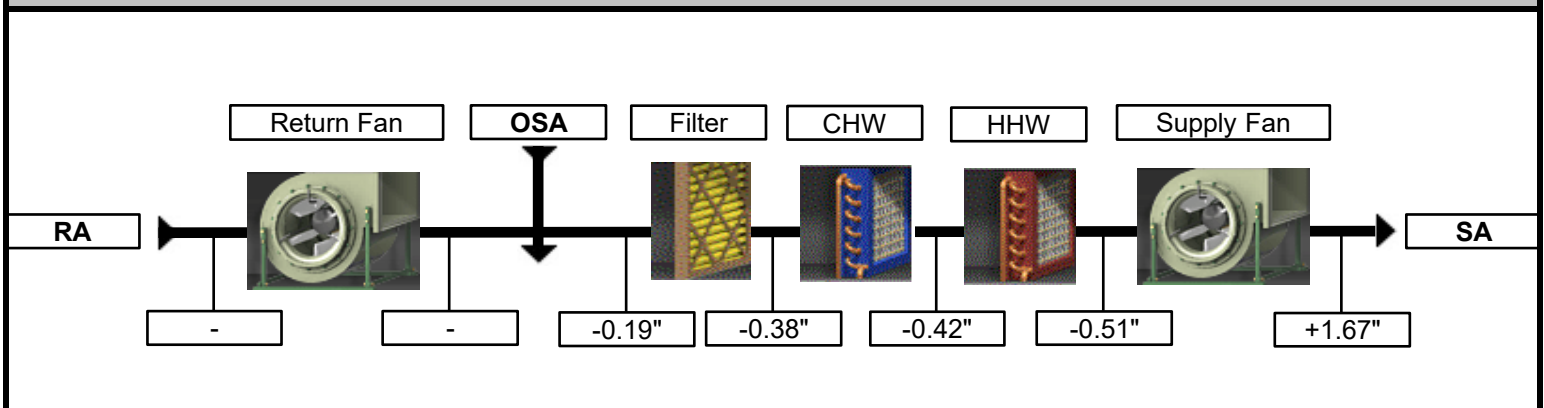
Motor Data

| Motor MFG. | Century | Specified | Actual | | |
|--------------------|---------|-------------|--------|---------|-----|
| Motor HP | 30 | Voltage | 460 | - | 444 |
| Service Factor | 1.15 | Amperage | 37 | - | 27 |
| Phase/Hz | 3/60 | Motor BHP | DNL | - | |
| Heater Size/Rating | - | Motor RPM | 1750 | 1737 | |
| Motor Frame# | 286T | Speed (VFD) | VFD | 50.8 Hz | |

Temperature Data

| | | | | | | | |
|------------|------|------------|------|------------|------|------------|------|
| Clg E.A.T. | 70 ° | Clg L.A.T. | 52 ° | Htg E.A.T. | 70 ° | Htg L.A.T. | 97 ° |
|------------|------|------------|------|------------|------|------------|------|

Fan Static Profile



| | |
|----------------|--|
| Remarks | |
| | |
| | |
| | |
| | |
| | |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 15-Jul-20 | Unit | AHU-501-2 | | Constant <input type="checkbox"/> | Variable <input checked="" type="checkbox"/> | Single <input type="checkbox"/> | Dual <input checked="" type="checkbox"/> | Flow Spec | -% | - | +% | - | |
|----------------|------------|------------------|------------|-----|-----------------------------------|--|---------------------------------|--|-----------|------------|-----|------------|---|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | |
| | Cold / Hot | | | | | | | | | | | | | |
| TU-5-11 | 12 / 12 | - | DNL | DNL | | - | 1,345 | | DNL | DNL | - | 590 | | |
| TU-5-12 | 8 / 6 | - | DNL | DNL | | - | 220 | | DNL | DNL | - | 80 | | |
| TU-5-13 | 6 / 6 | - | DNL | DNL | | - | 280 | | DNL | DNL | - | 100 | | |
| TU-5-14 | 8 / 6 | - | DNL | DNL | | - | 325 | | DNL | DNL | - | 250 | | |
| TU-5-15 | 8 / 6 | - | DNL | DNL | | - | 395 | | DNL | DNL | - | 180 | | |
| TU-5-16 | 12 / 10 | - | DNL | DNL | | - | 820 | | DNL | DNL | - | 610 | | |
| TU-5-17 | 6 / 6 | - | DNL | DNL | | - | 70 | | DNL | DNL | - | 55 | | |
| TU-5-18 | 8 / / | - | DNL | DNL | | - | 480 | | DNL | DNL | - | 365 | | |
| TU-5-19 | 6 / 6 | - | DNL | DNL | | - | 210 | | DNL | DNL | - | 70 | | |
| TU-5-20 | 6 / 6 | - | DNL | DNL | | - | 180 | | DNL | DNL | - | 50 | | |
| TU-4-10 | 12 / 12 | - | DNL | DNL | | - | 800 | | DNL | DNL | - | 295 | | |
| TU-4-11 | 6 / 6 | - | DNL | DNL | | - | 195 | | DNL | DNL | - | 90 | | |
| TU-4-12 | 12 / 12 | - | DNL | DNL | | - | 355 | | DNL | DNL | - | 200 | | |
| TU-4-13 | 10 / 8 | - | DNL | DNL | | - | 605 | | DNL | DNL | - | 410 | | |
| TU-4-14 | 10 / 8 | - | DNL | DNL | | - | 405 | | DNL | DNL | - | 125 | | |
| TU-4-15 | 10 / 8 | - | DNL | DNL | | - | 290 | | DNL | DNL | - | 95 | | |
| TU-4-16 | 10 / 8 | - | DNL | DNL | | - | 610 | | DNL | DNL | - | 265 | | |
| TU-4-17 | 10 / 8 | - | DNL | DNL | | - | 560 | | DNL | DNL | - | 325 | | |
| TU-4-18 | 6 / 6 | - | DNL | DNL | | - | 70 | | DNL | DNL | - | 50 | | |
| TU-4-19 | 6 / 6 | - | DNL | DNL | | - | 90 | | DNL | DNL | - | 50 | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

TERMINAL UNIT SUMMARY SHEET (SUPPLY)

| Date | 13-Jul-20 | Unit | AHU-501-2 | | Constant <input type="checkbox"/> | Variable <input checked="" type="checkbox"/> | Single <input type="checkbox"/> | Dual <input checked="" type="checkbox"/> | Flow Spec | -% | | +% | | |
|----------------|------------|------------------|------------|-----|-----------------------------------|--|---------------------------------|--|-----------|------------|-----|------------|--|---|
| Terminal Unit | Box Size | Flow Coefficient | Cooling | | | | | | Heating | | | | | |
| | | | Design CFM | | | Actual CFM | | | % | Design CFM | | Actual CFM | | % |
| | | | MIN | MAX | ↓ | MIN | MAX | MIN | | MAX | MIN | MAX | | |
| | Cold / Hot | | | | | | | | | | | | | |
| TU-3-13 | 8 / 6 | - | DNL | DNL | | - | 495 | | DNL | DNL | - | 120 | | |
| TU-3-14 | 6 / 6 | - | DNL | DNL | | - | 80 | | DNL | DNL | - | 45 | | |
| TU-3-15 | 10 / 8 | - | DNL | DNL | | - | 995 | | DNL | DNL | - | 460 | | |
| TU-3-16 | 8 / 6 | - | DNL | DNL | | - | 375 | | DNL | DNL | - | 155 | | |
| TU-3-17 | 8 / 6 | - | DNL | DNL | | - | 515 | | DNL | DNL | - | 320 | | |
| TU-3-18 | 8 / 6 | - | DNL | DNL | | - | 675 | | DNL | DNL | - | 280 | | |
| TU-3-19 | 6 / 6 | - | DNL | DNL | | - | 235 | | DNL | DNL | - | 115 | | |
| TU-3-20 | 8 / 6 | - | DNL | DNL | | - | 460 | | DNL | DNL | - | 210 | | |
| | | | | | | | | | | | | | | |
| TU-2-11 | 10 / 8 | - | DNL | DNL | | - | 925 | | DNL | DNL | - | 455 | | |
| TU-2-12 | 8 / 6 | - | DNL | DNL | | - | 435 | | DNL | DNL | - | 210 | | |
| TU-2-13 | 6 / 6 | - | DNL | DNL | | - | 95 | | DNL | DNL | - | 45 | | |
| TU-2-14 | 10 / 8 | - | DNL | DNL | | - | 910 | | DNL | DNL | - | 610 | | |
| TU-2-15 | 8 / 6 | - | DNL | DNL | | - | 360 | | DNL | DNL | - | 145 | | |
| TU-2-16 | 6 / 6 | - | DNL | DNL | | - | 280 | | DNL | DNL | - | 100 | | |
| TU-2-17 | 12 / 12 | - | DNL | DNL | | - | 1,605 | | DNL | DNL | - | 685 | | |
| TU-2-18 | 12 / 12 | - | DNL | DNL | | - | 1,010 | | DNL | DNL | - | 540 | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 16-Jul-20 | Unit | | AHU-501-2 | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------|-----------|----------------|-----------|------------|-----|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-5-11 | Office Area | 1 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-5-11 | Office Area | 2 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| TU-5-11 | Office Area | 3 | CD | 24X24 | - | - | DNL | - | - | 275 | |
| TU-5-11 | Office Area | 4 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| TU-5-11 | Office Area | 5 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| TU-5-11 | Office Area | 6 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| Total TU-5-11 | | | | | | | DNL | - | | 1,345 | |
| TU-5-12 | Office | 7 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| Total TU-5-12 | | | | | | | DNL | - | | 220 | |
| TU-5-13 | Office | 8 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-5-13 | Office | 9 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| Total TU-5-13 | | | | | | | DNL | - | | 280 | |
| TU-5-14 | Office | 10 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-5-14 | Office | 11 | CD | 24X24 | - | - | DNL | - | - | 50 | |
| TU-5-14 | Office | 12 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| TU-5-14 | Storage | 13 | CD | 24X24 | - | - | DNL | - | - | 75 | |
| Total TU-5-14 | | | | | | | DNL | - | | 325 | |
| TU-5-15 | Office | 14 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-5-15 | Office | 15 | CD | 24X24 | - | - | DNL | - | - | 185 | |
| Total TU-5-15 | | | | | | | DNL | - | | 395 | |
| TU-5-16 | Office Area | 16 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| TU-5-16 | Office | 17 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| TU-5-16 | Kitchen | 18 | CD | 24X24 | - | - | DNL | - | - | 230 | |
| TU-5-16 | Kitchen | 19 | CD | 24X24 | - | - | DNL | - | - | 260 | |
| Total TU-5-16 | | | | | | | DNL | - | | 820 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 17-Jul-20 | | Unit | AHU-501-2 | | Flow Spec | -% | - | +% | - | |
|----------------------|-----------------|------------|------|-----------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-4-12 | Office | 37 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| TU-4-12 | Office | 38 | CD | 24X24 | - | - | DNL | - | - | 195 | |
| Total TU-4-12 | | | | | | | DNL | - | | 355 | |
| TU-4-13 | Conference Room | 39 | CD | 24X24 | - | - | DNL | - | - | 305 | |
| TU-4-13 | Conference Room | 40 | CD | 24X24 | - | - | DNL | - | - | 300 | |
| Total TU-4-13 | | | | | | | DNL | - | | 605 | |
| TU-4-14 | Conference Room | 41 | CD | 24X24 | - | - | DNL | - | - | 405 | |
| Total TU-4-14 | | | | | | | DNL | - | | 405 | |
| TU-4-15 | Office | 42 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-4-15 | Office | 43 | CD | 24X24 | - | - | DNL | - | - | 120 | |
| Total TU-4-15 | | | | | | | DNL | - | | 290 | |
| TU-4-16 | Office Area | 44 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-4-16 | Office Area | 45 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| TU-4-16 | Office Area | 46 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| Total TU-4-16 | | | | | | | DNL | - | | 610 | |
| TU-4-17 | Mail Room | 47 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| TU-4-17 | Office Area | 48 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| TU-4-17 | Women's | 49 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| TU-4-17 | Men's | 50 | CD | 24X24 | - | - | DNL | - | - | 60 | |
| Total TU-4-17 | | | | | | | DNL | - | | 560 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 15-Jul-20 | Unit | | AHU-501-2 | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------|-----------|----------------|-----------|------------|----------|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-3-18 | Open Office | 66 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| TU-3-18 | Fax/Copy | 67 | CD | 24X24 | - | - | DNL | - | - | 70 | |
| TU-3-18 | Open Office | 68 | CD | 24X24 | - | - | DNL | - | - | 230 | |
| TU-3-18 | Open Office | 69 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| Total TU-3-18 | | | | | | | DNL | - | | 675 | |
| TU-3-19 | Office | 70 | CD | 24X24 | - | - | DNL | - | - | 135 | |
| TU-3-19 | Office | 71 | CD | 24X24 | - | - | DNL | - | - | 100 | |
| Total TU-3-19 | | | | | | | DNL | - | | 235 | |
| TU-3-20 | Hallway | 72 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-3-20 | Office | 73 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| TU-3-20 | Office | 74 | CD | 24X24 | - | - | DNL | - | - | 75 | |
| TU-3-20 | Office | 75 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| Total TU-3-20 | | | | | | | DNL | - | | 460 | |
| TU-2-11 | Open Office | 76 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| TU-2-11 | Open Office | 77 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| TU-2-11 | Open Office | 78 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| TU-2-11 | Open Office | 79 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| Total TU-2-11 | | | | | | | DNL | - | | 925 | |
| TU-2-12 | Open Office | 80 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-2-12 | Open Office | 81 | CD | 24X24 | - | - | DNL | - | - | 185 | |
| Total TU-2-12 | | | | | | | DNL | - | | 435 | |
| TU-2-13 | Office | 82 | CD | 24X24 | - | - | DNL | - | - | 95 | |
| Total TU-2-13 | | | | | | | DNL | - | | 95 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 14-Jul-20 | Unit | AHU-501-2 | | | Flow Spec | - | - | + | - | |
|----------------------|-------------|------------|-----------|-------|----------------|-----------|------------|----------|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| TU-2-14 | Office Area | 83 | CD | 24X24 | - | - | DNL | - | - | 305 | |
| TU-2-14 | Office Area | 84 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| TU-2-14 | Office Area | 85 | CD | 24X24 | - | - | DNL | - | - | 315 | |
| Total TU-2-14 | | | | | | | DNL | - | | 910 | |
| TU-2-15 | Open Office | 86 | CD | 24X24 | - | - | DNL | - | - | 360 | |
| Total TU-2-15 | | | | | | | DNL | - | | 360 | |
| TU-2-16 | Office | 87 | CD | 24X24 | - | - | DNL | - | - | 280 | |
| Total TU-2-16 | | | | | | | DNL | - | | 280 | |
| TU-2-17 | Open Office | 88 | CD | 24X24 | - | - | DNL | - | - | 140 | |
| TU-2-17 | Open Office | 89 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| TU-2-17 | Open Office | 90 | CD | 24X24 | - | - | DNL | - | - | 250 | |
| TU-2-17 | Open Office | 91 | CD | 24X24 | - | - | DNL | - | - | 165 | |
| TU-2-17 | Open Office | 92 | CD | 24X24 | - | - | DNL | - | - | 235 | |
| TU-2-17 | Open Office | 93 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| TU-2-17 | Open Office | 94 | CD | 24X24 | - | - | DNL | - | - | 145 | |
| TU-2-17 | Open Office | 95 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| Total TU-2-17 | | | | | | | DNL | - | | 1,605 | |
| TU-2-18 | Open Office | 96 | CD | 24X24 | - | - | DNL | - | - | 230 | |
| TU-2-18 | Open Office | 97 | CD | 24X24 | - | - | DNL | - | - | 255 | |
| TU-2-18 | Open Office | 98 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| TU-2-18 | Office | 99 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| TU-2-18 | Office | 100 | CD | 24X24 | - | - | DNL | - | - | 125 | |
| Total TU-2-18 | | | | | | | DNL | - | | 1,010 | |
| Remarks | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 16-Jul-20 | Unit | | Heat Pumps | | Flow Spec | | -% | - | +% | - |
|---------------------|-------------|------------|------|------------|----------------|-----------|------------|----------|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-1 | Office | 1 | CD | 24X24 | - | - | DNL | - | - | 85 | |
| HP-1-1 | Office | 2 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| Total HP-1-1 | | | | | | | DNL | - | | 195 | |
| HP-1-2 | Office | 3 | CD | 24X24 | - | - | DNL | - | - | 130 | |
| HP-1-2 | Office | 4 | CD | 24X24 | - | - | DNL | - | - | 145 | |
| HP-1-2 | Office | 5 | CD | 24X24 | - | - | DNL | - | - | 160 | |
| HP-1-2 | Office | 6 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| Total HP-1-2 | | | | | | | DNL | - | | 645 | |
| HP-1-3 | Office | 7 | CD | 24X24 | - | - | DNL | - | - | 80 | |
| HP-1-3 | Office | 8 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| HP-1-3 | Office | 9 | CD | 24X24 | - | - | DNL | - | - | 155 | |
| HP-1-3 | Office | 10 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| HP-1-3 | Office | 11 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| HP-1-3 | Office | 12 | CD | 24X24 | - | - | DNL | - | - | 70 | |
| Total HP-1-3 | | | | | | | DNL | - | | 795 | |
| HP-1-4 | Storage | 13 | CD | 24X24 | - | - | DNL | - | - | 310 | |
| HP-1-4 | Storage | 14 | CD | 24X24 | - | - | DNL | - | - | 365 | |
| Total HP-1-4 | | | | | | | DNL | - | | 675 | |
| HP-1-5 | Office Area | 15 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| HP-1-5 | Office Area | 16 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| HP-1-5 | Open Office | 17 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| HP-1-5 | Open Office | 18 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| HP-1-5 | Office Area | 19 | CD | 24X24 | - | - | DNL | - | - | 175 | |
| HP-1-5 | Open Office | 20 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| Total HP-1-5 | | | | | | | DNL | - | | 1,150 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 16-Jul-20 | Unit | | Heat Pumps | | Flow Spec | | -% | - | +% | - |
|--|-------------|------------|------|------------|----------------|-----------|------------|-----|---------|--------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-6 | Office | 21 | CD | 24X24 | - | - | DNL | - | - | 520 | |
| HP-1-6 | Office | 22 | CD | 24X24 | - | - | DNL | - | - | 485 | |
| Total HP-1-6 | | | | | | | DNL | - | | 1,005 | |
| HP-1-7 | Office Area | 23 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| HP-1-7 | Office Area | 24 | CD | 24X24 | - | - | DNL | - | - | 165 | |
| HP-1-7 | Office Area | 25 | CD | 24X24 | - | - | DNL | - | - | 170 | |
| HP-1-7 | Office Area | 26 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| HP-1-7 | Office Area | 27 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| Total HP-1-7 | | | | | | | DNL | - | | 980 | |
| HP-1-8 | Office | 28 | CD | 24X24 | - | - | DNL | - | - | 315 | |
| HP-1-8 | Office | 29 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| HP-1-8 | Office | 30 | CD | 24X24 | - | - | DNL | - | - | 330 | |
| Total HP-1-8 | | | | | | | DNL | - | | 935 | |
| HP-1-9 | Office | 31 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| HP-1-9 | Office | 32 | CD | 24X24 | - | - | DNL | - | - | 300 | |
| HP-1-9 | Office | 33 | CD | 24X24 | - | - | DNL | - | - | 325 | |
| Total HP-1-9 | | | | | | | DNL | - | | 840 | |
| HP-1-10 | Office Area | 34 | CD | 24X24 | - | - | DNL | - | - | 215 | |
| HP-1-10 | Office Area | 35 | CD | 24X24 | - | - | DNL | - | - | 220 | |
| HP-1-10 | Office Area | 36 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| HP-1-10 | Office Area | 37 | CD | 24X24 | - | - | DNL | - | - | 150 | |
| Total HP-1-10 | | | | | | | DNL | - | | 765 | |
| <div style="background-color: #cccccc; padding: 5px; border: 1px solid black; margin-bottom: 5px;">Remarks</div> | | | | | | | | | | | |

DIFFUSER & GRILLE TEST SHEET (SUPPLY)

| Date | 16-Jul-20 | Unit | | Heat Pumps | | Flow Spec | | -% | - | +% | - |
|----------------------|-------------|------------|------|------------|----------------|-----------|------------|-----|---------|------------|---|
| Unit | Room | Outlet No. | Code | Size | Effective Area | Design | | N/A | Initial | | % |
| | | | | | | FPM | CFM | | FPM | CFM | |
| HP-1-11 | Office Area | 38 | CD | 24X24 | - | - | DNL | - | - | 190 | |
| HP-1-11 | Office Area | 39 | CD | 24X24 | - | - | DNL | - | - | 60 | |
| HP-1-11 | Conference | 40 | CD | 24X24 | - | - | DNL | - | - | 245 | |
| HP-1-11 | Conference | 41 | CD | 24X24 | - | - | DNL | - | - | 200 | |
| Total HP-1-11 | | | | | | | DNL | - | | 695 | |
| HP-1-12 | Office Area | 42 | CD | 24X24 | - | - | DNL | - | - | 365 | |
| HP-1-12 | Office Area | 43 | CD | 24X24 | - | - | DNL | - | - | 410 | |
| Total HP-1-12 | | | | | | | DNL | - | | 775 | |
| HP-1-13 | Women's | 44 | CD | 24X24 | - | - | DNL | - | - | 110 | |
| HP-1-13 | Men's | 45 | CD | 24X24 | - | - | DNL | - | - | 90 | |
| HP-1-13 | Open Office | 46 | CD | 24X24 | - | - | DNL | - | - | 290 | |
| HP-1-13 | Open Office | 47 | CD | 24X24 | - | - | DNL | - | - | 310 | |
| Total HP-1-13 | | | | | | | DNL | - | | 800 | |
| HP-1-14 | Open Office | 48 | CD | 24X24 | - | - | DNL | - | - | 205 | |
| HP-1-14 | Open Office | 49 | CD | 24X24 | - | - | DNL | - | - | 180 | |
| HP-1-14 | Open Office | 50 | CD | 24X24 | - | - | DNL | - | - | 210 | |
| HP-1-14 | Open Office | 51 | CD | 24X24 | - | - | DNL | - | - | 275 | |
| Total HP-1-14 | | | | | | | DNL | - | | 870 | |
| HP-1-15 | Office | 52 | CD | 24X24 | - | - | DNL | - | - | 405 | |
| HP-1-15 | Office | 53 | CD | 24X24 | - | - | DNL | - | - | 385 | |
| Total HP-1-15 | | | | | | | DNL | - | | 790 | |
| HP-1-16 | Storage | 54 | CD | 24X24 | - | - | DNL | - | - | 240 | |
| HP-1-16 | Lobby | 55 | SWS | 24X12 | - | - | DNL | - | - | 280 | |
| HP-1-16 | Lobby | 56 | SWS | 24X12 | - | - | DNL | - | - | 185 | |
| HP-1-16 | Lobby | 57 | SWS | 24X12 | - | - | DNL | - | - | 200 | |
| Total HP-1-16 | | | | | | | DNL | - | | 905 | |
| Remarks | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

EXHAUST AIR MOVING EQUIPMENT DATA

| | | | | | |
|------|-----------|-------------|-----|------|--------|
| Date | 15-Jul-20 | Area Served | 501 | Unit | EF-501 |
|------|-----------|-------------|-----|------|--------|

Unit Information

| | | | |
|--------------------|--------|---------------|------------|
| Fan Identification | EF-501 | Equipment MFG | Fantech |
| Equipment Location | Roof | Model Number | 5ADE16EA |
| Type/Size | - | Serial Number | 1003034014 |

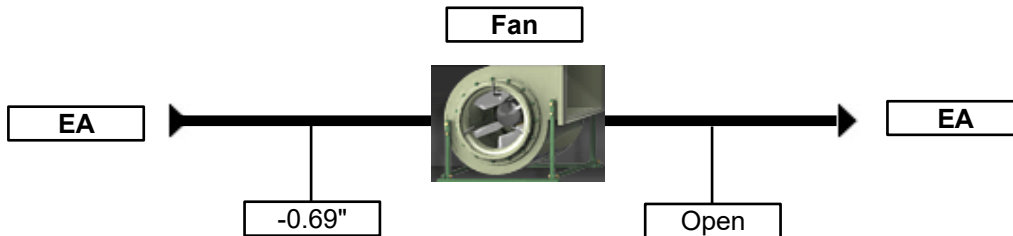
Fan Data

| Measurement | Method | Specified | Actual | Fan | |
|--|------------|---------------|--------|------------------|--------------------------|
| Total Fan CFM | DNT | DNL | DNT | Fan Sheave | D.D. |
| Total E/A CFM | DNL/Inlets | DNL | 820 | Fan Shaft | D.D. |
| Fan RPM | | DNL | 1,691 | Shaft C/C | D.D. |
| TSP <input type="checkbox"/> ESP <input checked="" type="checkbox"/> | | DNL | 0.69" | Belt Size/Number | D.D. |
| Inlet SP | | -0.69" | | Motor | |
| Discharge SP | | Open | | Motor Sheave | D.D. |
| Pre / Final Filter ΔP | | P - F - | | Motor Shaft | D.D. |
| Control Set Point | | - | | Sheave Adj. | - |
| | | | | Fixed Sheave | <input type="checkbox"/> |

Motor Data

| Motor MFG. | US Motors | | Specified | Actual | | |
|--------------------|-----------|-------------|-----------|--------|-----|---|
| Motor HP | 3/4 | Voltage | 115 | - | 118 | - |
| Service Factor | 1.15 | Amperage | 4.5 | - | 3.7 | - |
| Phase/Hz | 1/60 | Motor BHP | DNL | - | | |
| Heater Size/Rating | - | Motor RPM | 1730 | 1691 | | |
| Motor Frame# | DNL | Speed (VFD) | Single | - | | |

Fan Static Profile

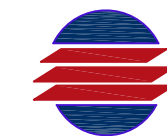


| | |
|---------|--|
| Remarks | |
|---------|--|



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

DATE: REVISIONS:

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

HVAC PLAN

DATE: DRAWN BY: CHECK BY:

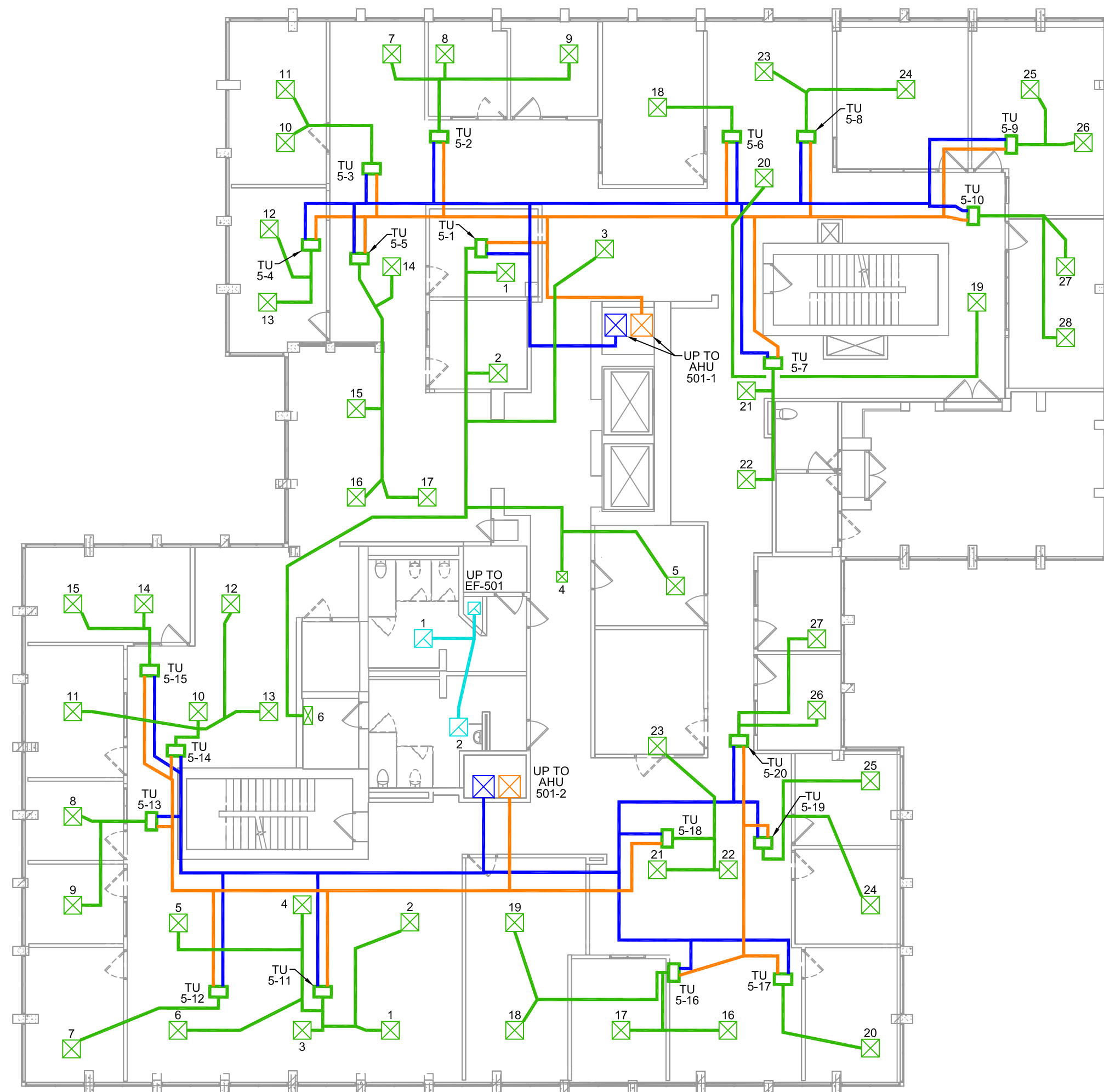
07-28-20 R. HURLEY R. HURLEY

SCALE: NTS

JOB# 26982-S



MD1-105

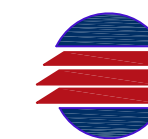


BUILDING 501 - FIFTH FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
1035 SUNCAST LN., STE., 130
EL DORADO HILLS, CA., 95762
PH: 888-330-1935
FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
CA. LIC. 748756

DATE: REVISIONS:

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
STOCKTON CITY HALL HVAC SURVEY
501 & 509 WEST WEBER AVE., STOCKTON, CA
SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY
OF AND OWNED BY RS ANALYSIS, INC. NO USE,
PUBLICATION, EXHIBITION, REPRODUCTION
OR DUPLICATION OF THIS DRAWING IN PART
OR IN WHOLE MAY BE MADE WITHOUT THE
WRITTEN PERMISSION OF RS ANALYSIS, INC.

HVAC PLAN

DATE: DRAWN BY: CHECK BY:

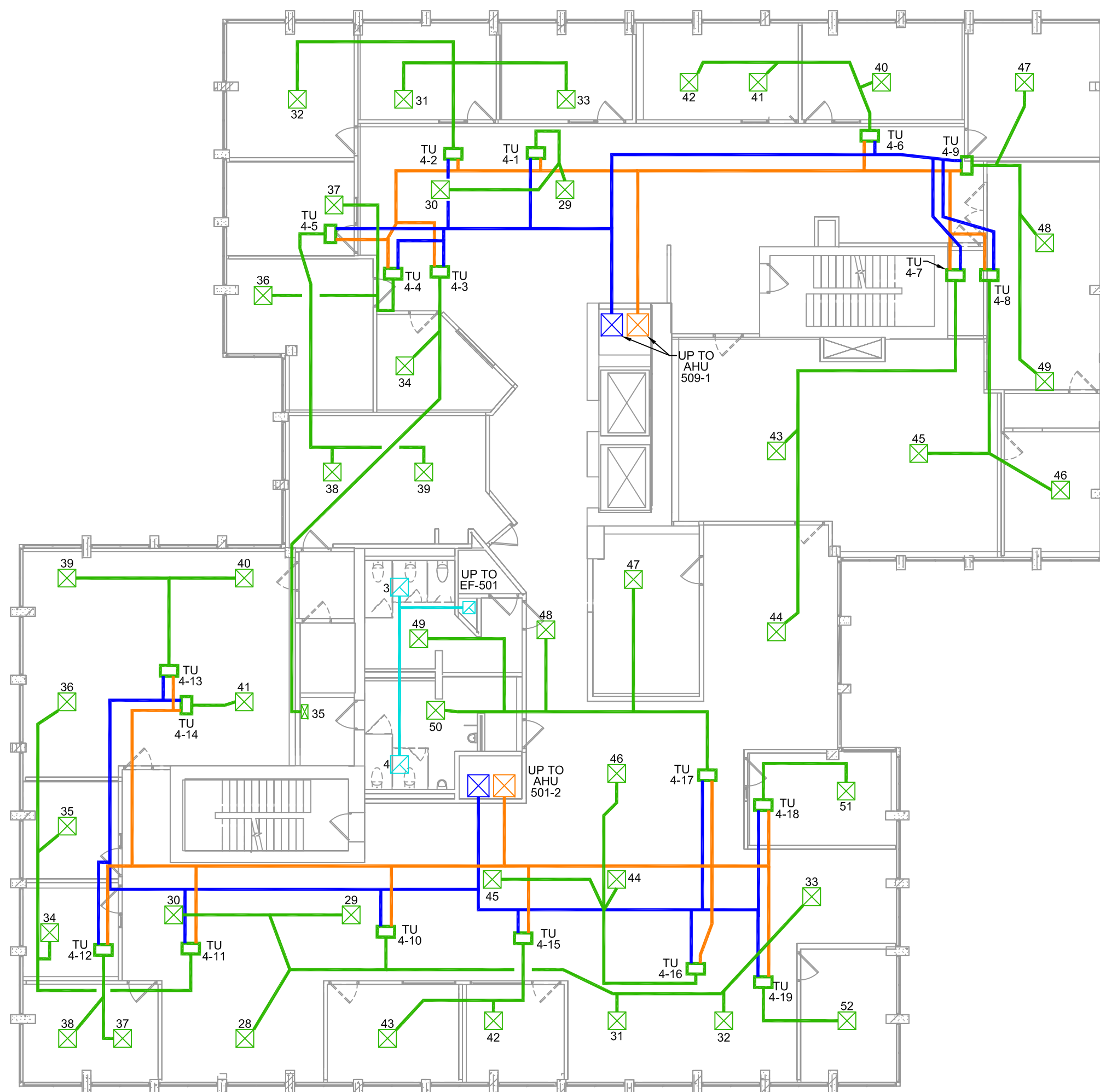
07-28-20 R. HURLEY R. HURLEY

SCALE: NTS

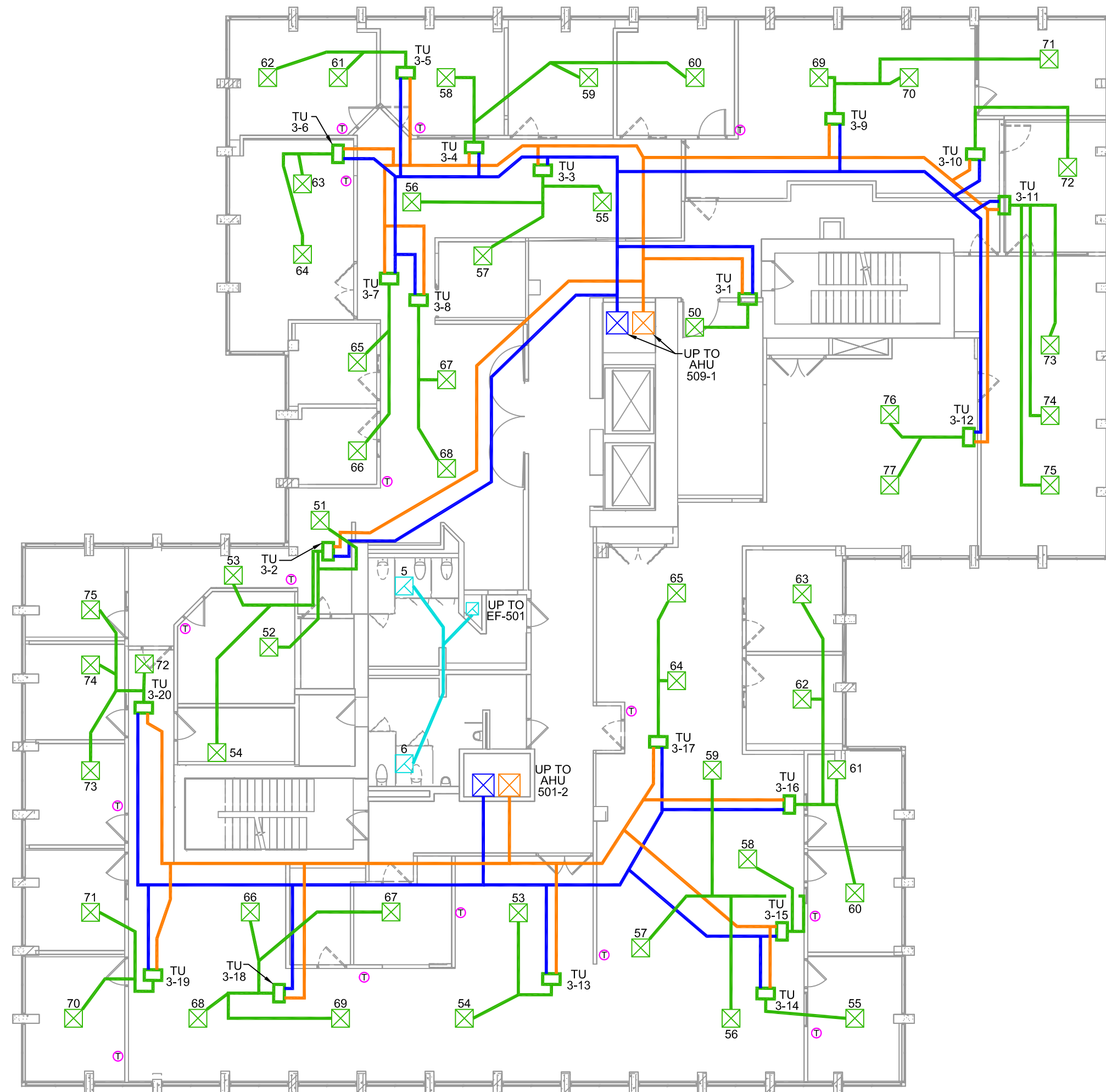
JOB# 26982-S



MD1-104



BUILDING 501 - FOURTH FLOOR

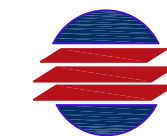


BUILDING 501 - THIRD FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

HVAC PLAN

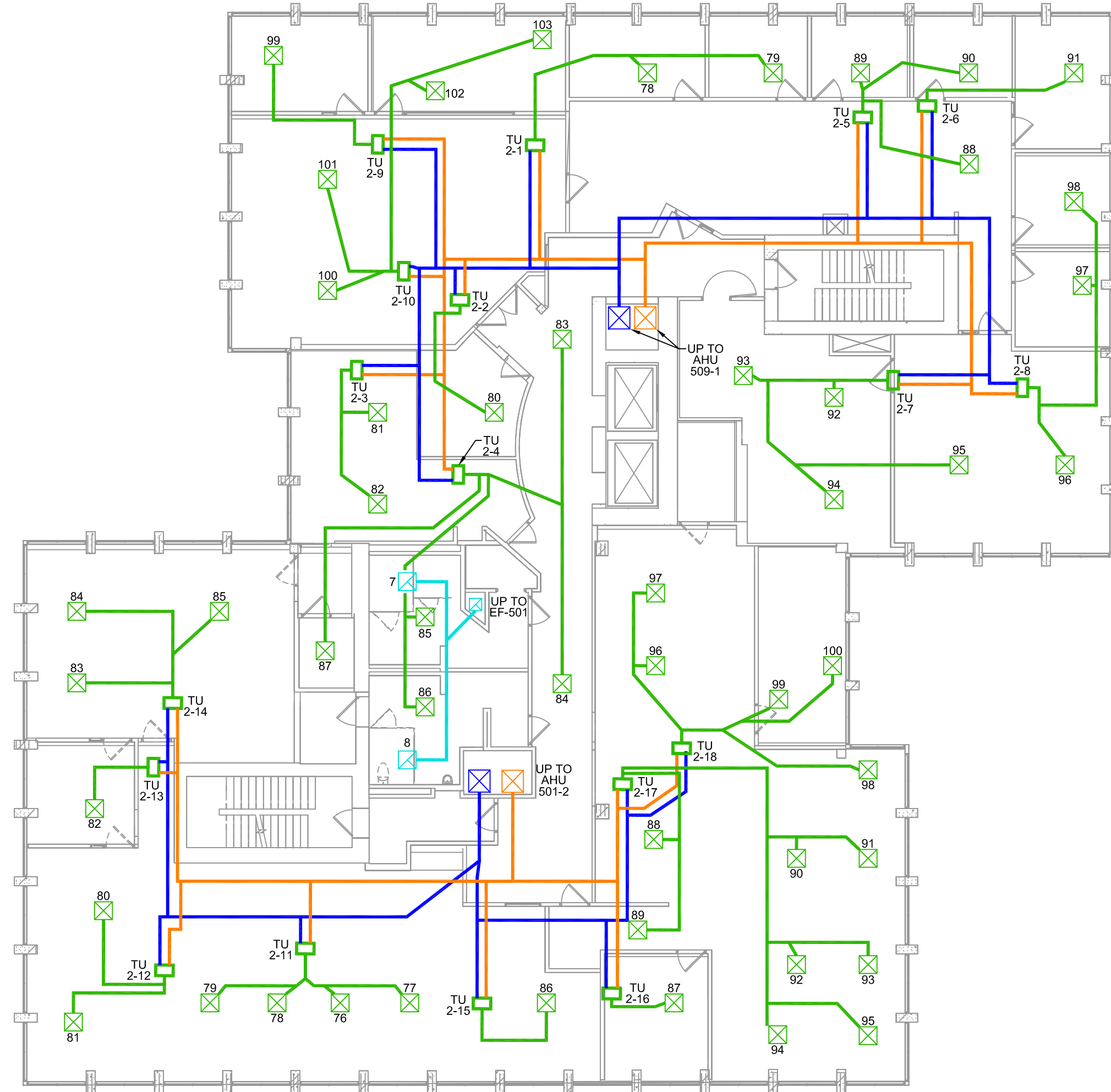
| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

MD1-103





BUILDING 501 - SECOND FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



AABC
 CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

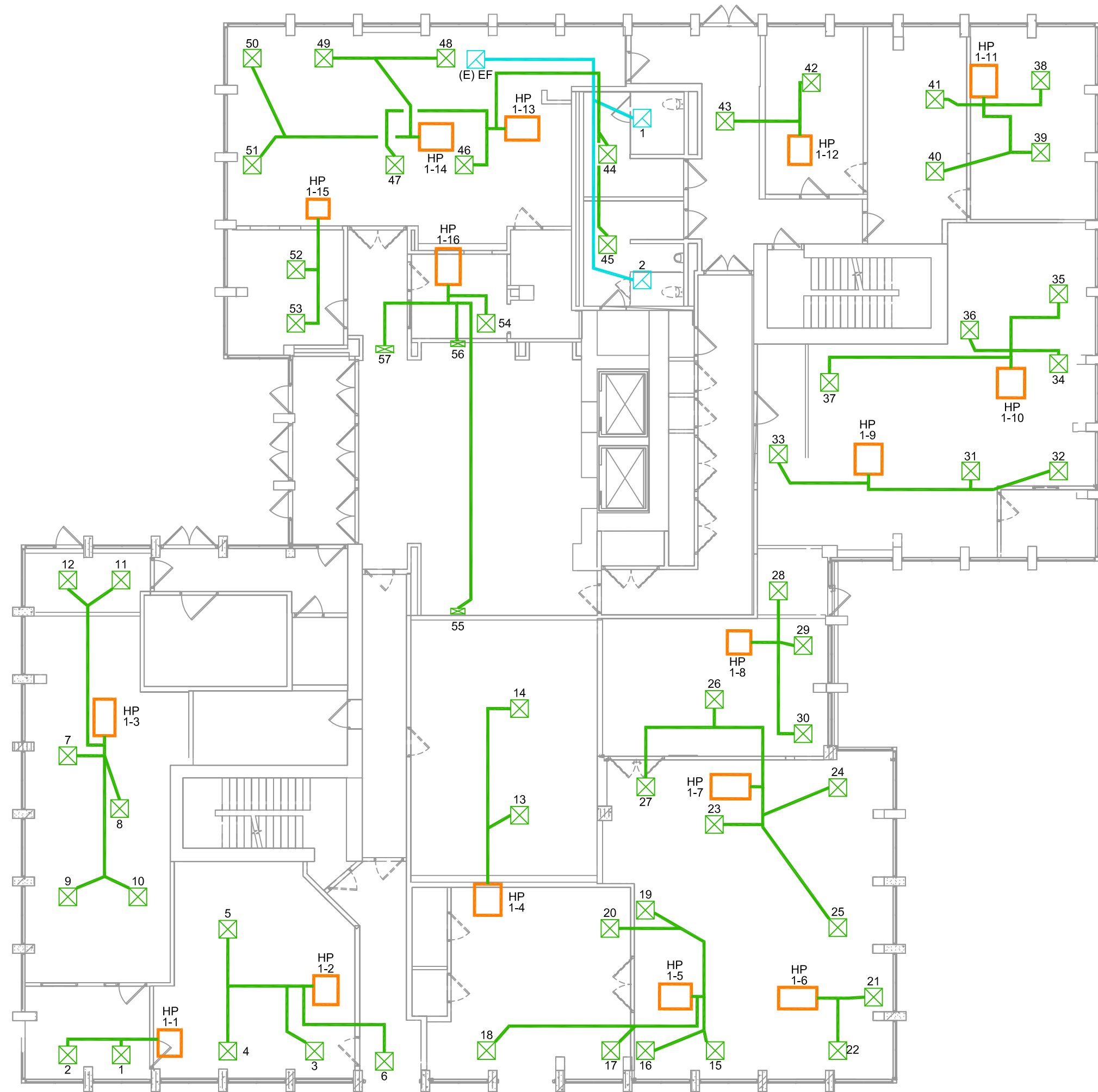
HVAC PLAN

| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

| | |
|--------|---------|
| N ↑ | MD1-102 |
|--------|---------|

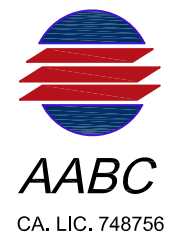


BUILDING 501 - FIRST FLOOR



ENVIRONMENTAL SYSTEM TEST & BALANCE
 1035 SUNCAST LN., STE., 130
 EL DORADO HILLS, CA., 95762
 PH: 888-330-1935
 FAX: 916-358-5673

ASSOCIATED AIR BALANCE COUNCIL



CA. LIC. 748756

| DATE: | REVISIONS: |
|-------|------------|
| | |
| | |
| | |
| | |

PROJECT NAME:
 STOCKTON CITY HALL HVAC SURVEY
 501 & 509 WEST WEBER AVE., STOCKTON, CA
 SURVEY

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AND OWNED BY RS ANALYSIS, INC. NO USE, PUBLICATION, EXHIBITION, REPRODUCTION OR DUPLICATION OF THIS DRAWING IN PART OR IN WHOLE MAY BE MADE WITHOUT THE WRITTEN PERMISSION OF RS ANALYSIS, INC.

HVAC PLAN

| DATE: | DRAWN BY: | CHECK BY: |
|----------|-----------|-----------|
| 07-28-20 | R. HURLEY | R. HURLEY |

SCALE: NTS

JOB# 26982-S

N
 MD1-101