## AIR HANDLING UNIT SCHEDULE

| TAG | SERVICE | CONFIGURATION | Fan: AIRFLOW (CFM) | Fan: EXT. S.P. ("WC) | Fan: WHEEL | Fan: MAX. MOTOR H.P. | Motor: VAC | Motor: PH | Motor: HZ | CHW Cooling Coil: TOTAL MBH | CHW Cooling Coil: SENSIBLE MBH | CHW Air Side: ENT. FDW | CHW Air Side: ENT. FWB | CHW Air Side: MAX. DP (" WC) | CHW Water Side: GPM | CHW Water Side: ENT. (DEG F) | CHW Water Side: DP ('WC) | HW Heating Coil: SENSIBLE MBH | HW Air Side: ENT. FDB | HW Air Side: DP ("WC) | HW Water Side: GPM | HW Water Side: ENT (DEG F) | HW Water Side: MAX. DP ('WC) | Filters: MERV RATING | Filters: CPNFIGURATION | CONTROL | MAKE / MODEL | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU 1 | Troop L | Vertical Draw Thru Ublast | 11,010 | 2.0 | AF | 10 | 460 | 3 | 60 | 450 | 326 | 82.0 | 67.0 | 0.8 | 75 | 44 | 10 | 560 | 68.8 | 0.6 | 36 | 180 | 5 | 8 | Angled, Side Access | VFD w/ NEMA 1 Disconnect | York XTI-54X84 | 1, 2, 3. 4. 5. 6. 7, 8 |

1. Performance to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
2. Unit to be of double wall insulated construction with base rail and internal vibration isolation.
3. Provide spare set of filters for installation after after commissioning and final acceptance.
4. Install unit in accordance with manufacturer's recommendations.
5. Furnish with duct mounted smoke detector for fan shut down.
6. Furnish with matching duct mounted SP sensor.
7. Reference specifications for additional requirements.
8. Naming a certain brand, make or manufacturer is to designate the general style, type, character and quality standard of the product desired. See Specifications for additional approved Manufactures and models. Substitution requests shall be submitted prior to bid.

## CONTRACTOR NOTE:

SCOPE OF WORK (SOW) INCLUDES BUT IS NOT LIMITED TO THE INSTALLATION OF A VARIABLE AIR VOLUME (VAV) SYSTEM AS SHOWN ON THESE PLANS. THIS INCLUDES THE PROCUREMENT AND INSTALLATION OF AN AIR HANDLING UNIT, VAV BOXES DIFFUSERS, DUCTWORK, PIPING, CONTROLS AND APPURTANCES AS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH CURRENT CODES AND STANDARDS. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS..

## GENERAL HVAC DETAIL NOTES

1. ALL MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
2. VERIFY ROUTING OF ALL WORK ON SITE.
3. HVAC CONTRACTOR REPLACE ALL EQUIPMENT FILTERS AT THE TIME OF POSSESSION OF THE PROJECT BY THE OWNER, USING ONLY NEW FILTERS OF THE PROPER SIZE AND TYPE.
4. CONTRACTOR SHALL LEAVE THE HVAC SYSTEM IN PROPER WORKING ORDER AND SHALL GUARANTEE SAME FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION.
5. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR DIMENSIONED, INSTALL MECHANICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
6. FIELD VERIFY DIMENSIONS AND INTERFERENCES PRIOR TO FABRICATION, AND INSTALLATION.
7. INSTALL FIRE DAMPERS PER SMACNA AND NFPA STANDARDS.
8. INSULATE PIPING AND DUCTS PER SPECIFICATIONS. INSULATION SHALL BE APPLIED AFTERLEAK TESTING AND AFER REVIEW AND APPROVAL BY DAMMON ENGINEERING.
9 REFERENCING SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS..

## VAV BOX SCHEDULE

| AG | MAKE/MODEL | SIZE | MINIMUM FLOW CFM | DESIGN FLOW CFM | CONTROL | REMARKS |
|---|---|---|---|---|---|---|
| AV-1 | Johnson Control TSS | 10 | 600 | 1400 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-2 | Johnson Control TSS | 8 | 300 | 800 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-3 | Johnson Control TSS | 12 | 800 | 1850 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-4 | Johnson Control TSS | 10 | 600 | 1470 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-5 | Johnson Control TSS | 10 | 600 | 1380 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-6 | Johnson Control TSS | 14 | 1100 | 2730 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-7 | Johnson Control TSS | 8 | 300 | 880 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |
| AV-8 | Johnson Control TSS | 6 | 200 | 500 | STAND ALONE CONTROL WITH PROGRAMMABLE ROOM SENSOR AND HEAT/COOL SWITCHOVER | 1, 2 |

FURNISH WITH AIRFLOW SENSOR AND 120/24 V-UL APPROVED TRANSFORMER.

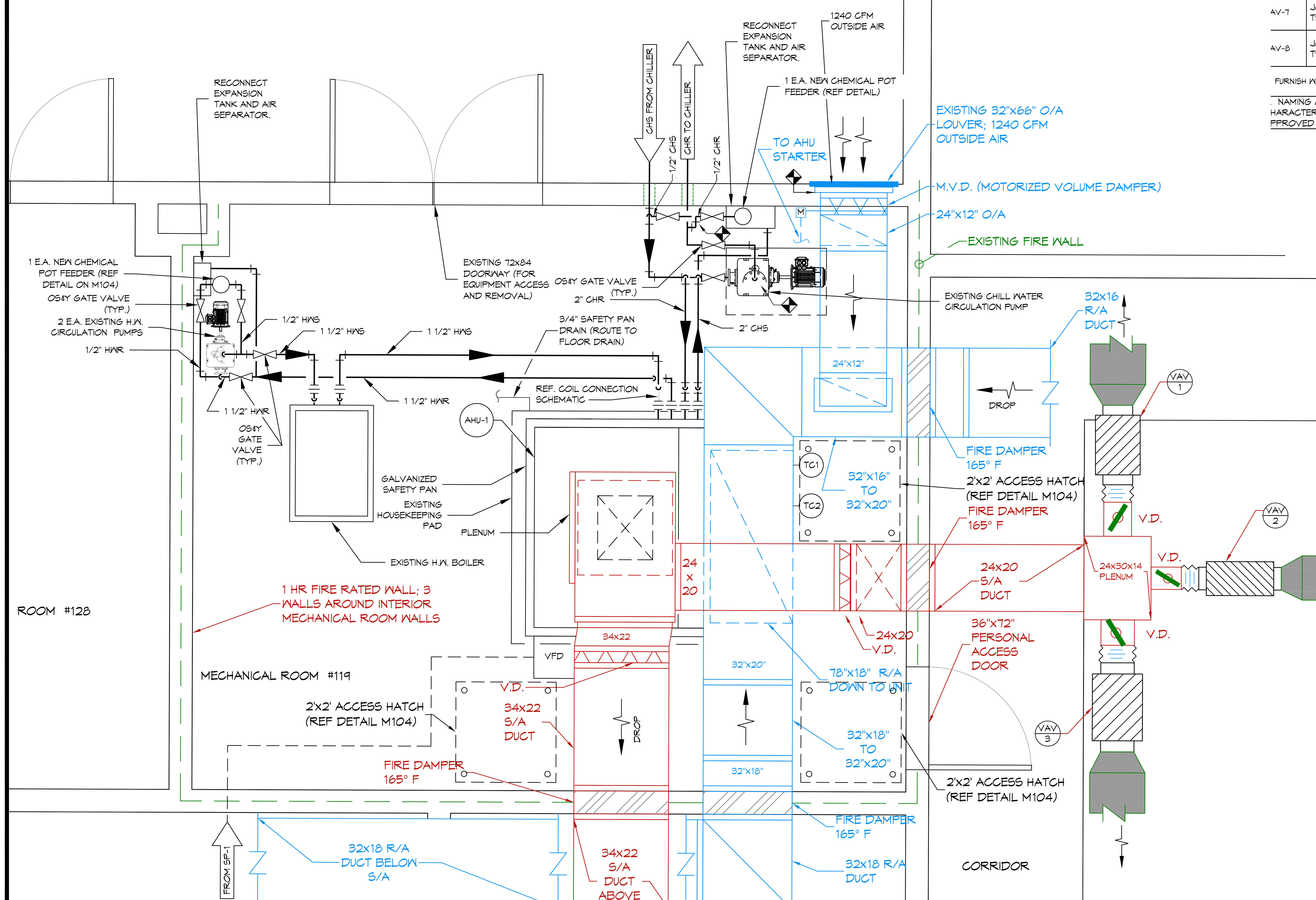
. NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, HARACTER AND QUALITY STANDARD OF THE PRODUCT DESIRED. SEE SPECIFICATIONS FOR ADDITIONAL PPROVED DEVICES. SUBSTITUTION REQUESTS SHALL BE SUBMITTED PRIOR TO BIDDING.

## LEGEND

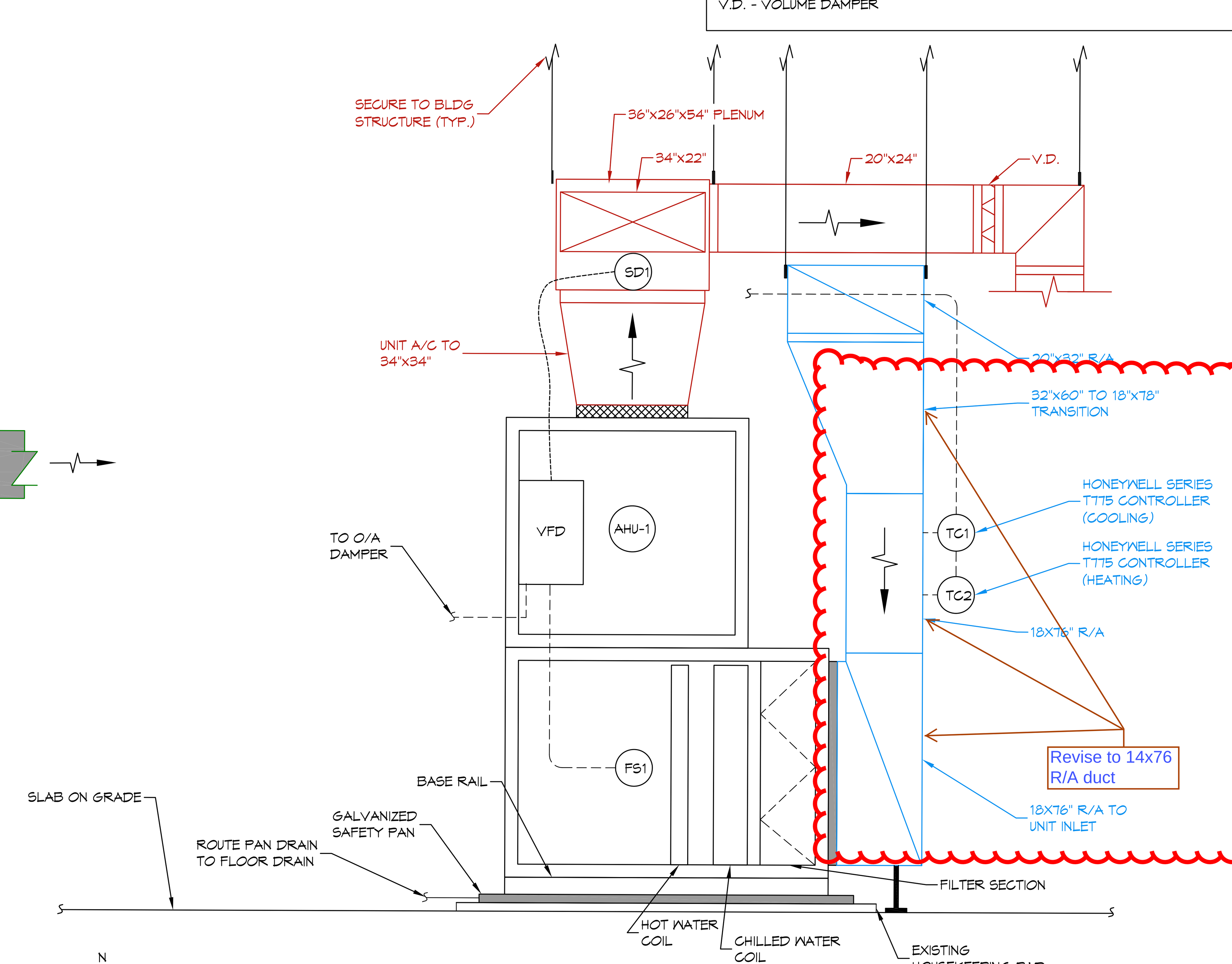
- EXHAUST GRILLE AND ALL ASSOCIATED DUCT WORK TO REMAIN
- VAV/ZONE NUMBER TAG
- NEW VAV BOX
- RETURN AIR DIFFUSER (SIZED BELOW)
- SUPPLY AIR DIFFUSER (SIZED BELOW)
- TWO (2) WAY SUPPLY AIR GRILLE (SIZED BELOW)
- AIR FLOW DIRECTION
- SUPPLY AIR DUCT BEFORE VAV
- SUPPLY AIR DUCT AFTER VAV
- VAV VARIABLE DAMPER
- RETURN AIR DUCT
- FLEX DUCT
- ELECTRICAL WIRING
- THERMOSTAT, REF SPECIFICATIONS
- CAPPED OFF DUCT
- 1 = CFM FLOW RATE OR RETURN AIR
- A = REGISTER/GRILL SIZE SEE BELOW
- 2 = ROUND DUCT SIZE FOR SUPPLY OR RETURN DUCT SIZE IN INCHES
- A = 24x24 SUPPLY DIFFUSER
- B = 12x12 SUPPLY DIFFUSER
- C = ROUND SUPPLY DIFFUSER
- D = NOT USED
- E = 24x24 RETURN GRILLE
- F = 12x12 RETURN GRILLE
- DUCT SMOKE DETECTOR, REF SPECIFICATIONS
- DUCT STATIC PRESSURE SENSOR, REF SPECIFICATIONS
- FIRE STAT, REF SPECIFICATIONS
- TEMPERATURE CONTROLLER
- LIMIT OF NEW WORK

## ABBREVIATIONS

- HWS - HOT WATER SUPPLY
- HWR - HOT WATER RETURN
- CHS - CHILLED WATER SUPPLY
- CHR - CHILLED WATER RETURN
- V.D. - VOLUME DAMPER
- R/A - RETURN AIR
- S/A - SUPPLY AIR
- O/A - OUTSIDE AIR




1 MECHANICAL SCHEMATIC DETAIL
SCALE: 1/2" = 1'-0"




2 ELEVATION - AHU-1
SCALE: NTS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| # | DESCRIPTION | DATE |
|---|---|---|
| | REVISIONS | |

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH, License No. 30187, PROFESSIONAL ENGINEER — 4/21/2021

HVAC SYSTEM REPLACEMENT
PROJECT NO.: 01-107-06B-11, F.01003807

STATE POLICE TROOP L HEADQUARTERS

2600 N CAUSEWAY BLVD, MANDEVILLE, LA 70471
STATE ID: S00814 SITE CODE: 1-52-004

JOB No: 2372 DATE: 7/25/2019
DRAWN BY: RLD CHECKED BY: DD


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SHEET TITLE: MECHANICAL DETAILS

DRAWING NUMBER: M102C