HVAC GENERAL NOTES

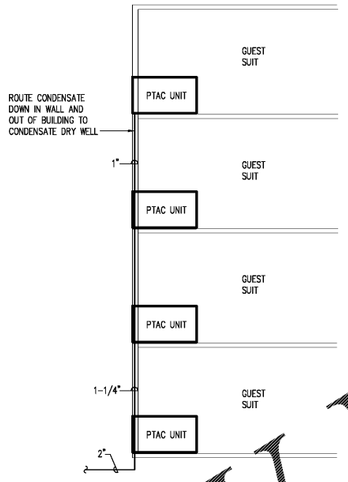
1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR OPEN AREA DIMENSIONS. CONTRACTOR SHALL ADJUST DUCT SIZE WHEN USING INTERNAL INSULATION IN LIEU OF EXTERNAL WRAP.
7. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
8. SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.
9. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
10. INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT.
11. LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
12. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
13. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
14. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED. CONCEALED SHEET METAL DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET. THE FIRST 15' FROM THE AIR HANDLER SHALL BE INTERNALLY LINED. INTERNALLY LINED INSULATION SHALL BE CLOSED CELL ELASTOMERIC FOAM AND MEET BACTERIOLOGICAL STANDARD ASTM C 665. ALL SPIRAL DUCTWORK SHALL BE DOUBLE WALL. IF CONTRACTOR USES INTERNAL INSULATION, SINGLE WALL DUCTWORK MAY BE USED INSTEAD. ALL MAKE-UP AIR DUCTWORK IN SHAFTS SHALL HAVE 1" WRAP.
15. THE EXTERNAL STATIC PRESSURE FOR ALL FANS, HVAC UNITS, ETC IS BASED ON DUCT ROUTING AS INDICATED ON PLANS. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS IN THE FIELD AS AIR QUANTITIES MAY BE AFFECTED.
16. CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
17. AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE UL ASSEMBLY.
18. PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
19. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.
20. CONDENSATE DRAIN PIPING SHALL BE COPPER PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED. CONDENSATE PIPING SHALL BE WRAPPED W/CLOSED-CELL ELASTOMERIC MATERIAL.
21. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQ'D BY APPLICABLE CODES FOR THE LOCALE OF THIS PROJECT.
22. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAX 6' FLEX PER RUNOUT.
23. THE MECHANICAL CONTRACTOR SHALL PROVIDE REFRIGERANT AND LOW VOLTAGE CONTROL LINES FROM THE CONDENSER TO THE AIR HANDLING UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
24. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO SPLIT SYSTEM UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
25. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1½" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
26. REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES.
27. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS, RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
28. MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
29. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SHOP DRAWINGS ARE PROVIDED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE OF ANY PIECE OF EQUIPMENT, DUCTWORK OR DEVICE.
30. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD A MINIMUM OF TEN BUSINESS DAYS IN ADVANCE FOR COMPLETION OF FIELD INSPECTIONS FOR APPENDIX 5 OF THE 2017 FLORIDA ENERGY CODE, IF REQUIRED.
31. PROVIDE FOIL FACED FIBERGLASS INSULATION OR CLOSED-CELL ELASTOMERIC INSULATION AT ALL OUTDOOR AIR HANDLING UNITS.
32. PROVIDE SCREEN WALL FOR ALL ROOFTOP AND GROUND MOUNTED HVAC EQUIPMENT TO HIDE FROM VIEW.
33. LOUVERS SHALL BE KYNAR PAINTED ALUMINUM W/ STORM PROOF AND DRAINABLE BLADES IN A COLOR THAT MATCHES W/ EXTERIOR COLOR SCHEME.
34. PROVIDE UV PROTECTION COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
35. PROVIDE MERV-7 PREFILTERS AND MERV-12 FINAL FILTERS AT ALL AIR HANDLING UNITS EXCEEDING 2000 CFM SUPPLY AIR. ALL FILTERS TO HAVE SYNTHETIC FRAMES. CARDBOARD FRAMES ARE NOT ACCEPTABLE.

AIR BALANCE SUMMARY

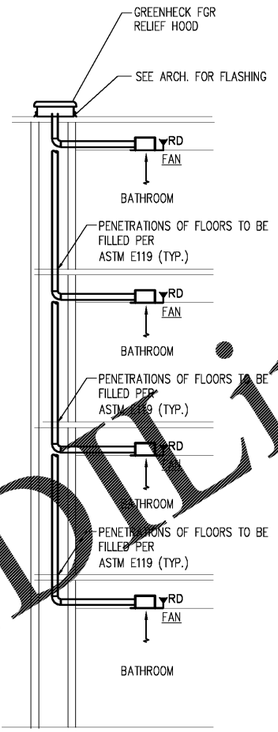
UNIT NO.	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST AIR	+/- CFM
MUA-1	3250	–	3250	–	+3250
MUA-2	3500	–	3500	–	+3500
EF-1	–	–	–	4000	-4000
EF-2	–	–	–	300	-300
EF-3	–	–	–	300	-300
EF-4	–	–	–	750	-750
EF-5	–	–	–	100	-100
EF-6	–	–	–	500	-500
EF-7	–	–	–	200	-200
EF-8	–	–	–	125	-125
EF-9	–	–	–	150	-150
EF-10	–	–	–	100	-100
TOTALS	6750	–	6750	6525	+225

MECHANICAL LEGEND

- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- (T) WALL MOUNTED THERMOSTAT
- (U) ¾" DOOR UNDERCUT
- MANUAL VOLUME DAMPER
- BI-POLAR IONIZATION DEVICE (DUCT MOUNTED)
- TURNING VANES
- FD FIRE DAMPER
- FSD COMBINATION FIRE/SMOKE DAMPER
- M MOTOR OPERATED DAMPER
- RD RADIATION DAMPER
- WALL SWITCH
- SD DUCT MOUNTED SMOKE DETECTOR

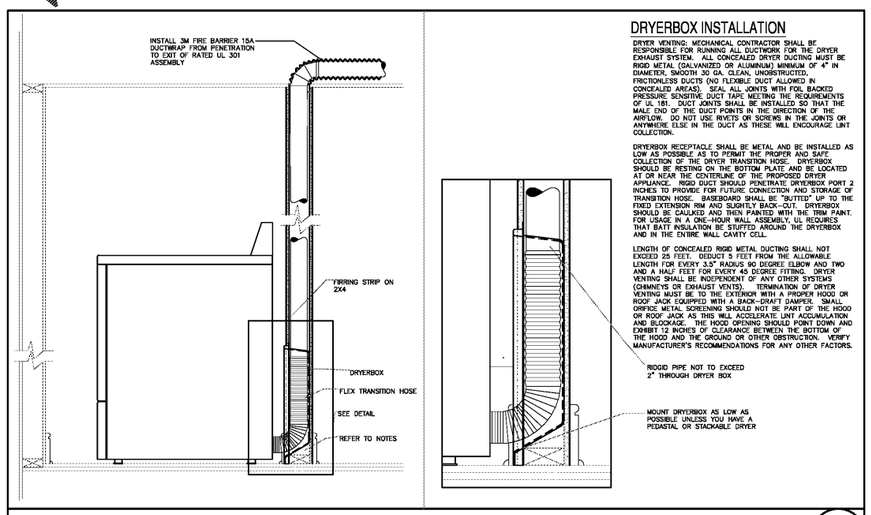


1 M002 CONDENSATE RISER N.T.S.



NOTE: GUESTROOM EXHAUST DUCTWORK SHALL MEET ALL EXCEPTIONS UNDER SECTION 607.6.1 OF THE 6TH EDITION OF THE 2017 FMC.

2 M002 GUESTROOM EXHAUST RISERS N.T.S.



DRYERBOX INSTALLATION

DRYER VENTING: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING ALL DUCTWORK FOR THE DRYER EXHAUST SYSTEM. ALL CONCEALED DRYER DUCTING MUST BE RIGID METAL (GALVANIZED OR ALUMINUM) MINIMUM OF 4" IN DIAMETER, SMOOTH 30 GA. CLEAN, UNOBSTRUCTED, FRICTIONLESS DUCTS (NO FLEXIBLE DUCT ALLOWED IN CONCEALED AREAS). SEAL ALL JOINTS WITH FOIL BACKED PRESSURE SENSITIVE DUCT TAPE MEETING THE REQUIREMENTS OF UL 181. DUCT JOINTS SHALL BE INSTALLED SO THAT THE MALE END OF THE DUCT POINTS IN THE DIRECTION OF THE AIRFLOW. DO NOT USE RIVETS OR SCREWS IN THE JOINTS OR ANYWHERE ELSE IN THE DUCT AS THESE WILL ENCOURAGE LINT COLLECTION.

DRYERBOX RECEPTACLE SHALL BE METAL AND BE INSTALLED AS LOW AS POSSIBLE AS TO PERMIT THE PROPER AND SAFE COLLECTION OF THE DRYER TRANSITION HOSE. DRYERBOX SHOULD BE RESTING ON THE BOTTOM PLATE AND BE LOCATED AT OR NEAR THE CENTERLINE OF THE PROPOSED DRYER APPLIANCE. RIGID DUCT SHOULD PENETRATE DRYERBOX PORT 2 INCHES TO PROVIDE FOR FUTURE CONNECTION AND STORAGE OF TRANSITION HOSE. BASEBOARD SHALL BE "BUTTED" UP TO THE FIXED EXTENSION RIM AND SLIGHTLY BACK-CUT. DRYERBOX SHOULD BE CAULKED AND THEN PAINTED WITH THE TRIM PAINT. FOR USAGE IN A ONE-HOUR WALL ASSEMBLY, UL REQUIRES THAT BATT INSULATION BE STUFFED AROUND THE DRYERBOX AND IN THE ENTIRE WALL CAVITY CELL.

LENGTH OF CONCEALED RIGID METAL DUCTING SHALL NOT EXCEED 25 FEET. DEDUCT 5 FEET FROM THE ALLOWABLE LENGTH FOR EVERY 3.5" RADIUS 90 DEGREE ELBOW AND TWO AND A HALF FEET FOR EVERY 45 DEGREE FITTING. DRYER VENTING SHALL BE INDEPENDENT OF ANY OTHER SYSTEMS (DOMESTIC OR EXHAUST VENTS). TERMINATION OF DRYER VENTING MUST BE TO THE EXTERIOR WITH A PROPER HOOD OR ROOF JACK EQUIPPED WITH A BACK-DRAFT DAMPER. SMALL ORIFICE METAL SCREENING SHOULD NOT BE PART OF THE HOOD OR ROOF JACK AS THIS WILL ACCELERATE LINT ACCUMULATION AND BLOCKAGE. THE HOOD OPENING SHOULD POINT DOWN AND EXHIBIT 12 INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE HOOD AND THE GROUND OR OTHER OBSTRUCTION. VERIFY MANUFACTURER'S RECOMMENDATIONS FOR ANY OTHER FACTORS.

GUEST LAUNDRY DRYER VENT DETAIL 3

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REVISIONS		
No.	Date	Description

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7/31/18

KEY PLAN

VTM Hotels, LLC

Home2Suites

2630 Wilde Lake Blvd.
Pensacola, FL 32526

Drawing Title
Mechanical Details
Notes

Phase
Construction Documents

Project No.	17-101
Prepared by	CRM
Checked by	PSH
Date	July 31, 2018

Sheet No. M002

Review

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