

SPLIT SYSTEM HEAT PUMP SCHEDULE table with columns for INDOOR UNIT, OUTDOOR UNIT, NOMINAL TONNAGE, AIRFLOW, COOLING CAPACITY, HEATING CAPACITY, C.O.P., MIN. SEER, VOLTAGE, MCA, MOCP, AHU MOUNTING, MANUFACTURER, MODEL NO.

NOTES:

- 1. PROVIDE FACTORY CLEANED, DRIED, PRESSURIZED AND SEALED REFRIGERANT LINES, WITH INSULATED SUCTION LINE.
2. UNITS MUST BE ENERGY STAR CERTIFIED.
3. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH SETBACK CAPABILITY DOWN TO 55°F AND UP TO 85°F.
4. CONDENSATE DISPOSAL:
A. INSULATE ALL CONDENSATE LINES WITH 3/4" OF FLEXIBLE ELASTOMERIC INSULATION.
B. PLUMBING CONTRACTOR SHALL PROVIDE A TRAPPED, INDIRECT WASTE OPENING TO WITHIN 2'-0" OF INDOOR COIL.
C. MECHANICAL CONTRACTOR SHALL MAKE CONNECTION FROM INDOOR COIL TO WASTE OPENING. A WATER LEVEL DEVICE SHALL BE FURNISHED FOR THE PRIMARY DRAINPAN. DEVICE SHALL CONFORM TO UL 508 AND SHUT OFF THE SUPPLY FAN IN THE EVENT THE PRIMARY DRAIN BECOMES BLOCKED.
D. ANY PORTION OF CONDENSATE IN PLENUM SPACE MUST BE COPPER.
5. PROVIDE CONCRETE HOUSEKEEPING PAD FOR ALL OUTDOOR UNITS. REF. DETAIL 5M002. CONDENSING UNIT MUST BE ANCHORED TO PAD.

FAN SCHEDULE table with columns for TYPE, MARK, CFM, EXT. S.P. IN. W.G., DRIVE TYPE, MAX. SONES, MOTOR (ELECTRICAL), INTERLOCK, MANUFACTURER, MODEL NO., OPENING.

NOTES:

- 1. COORDINATE DESIGN OF BATHROOM, KITCHEN, AND CLOTHES DRYER EXHAUST SYSTEMS WITH OVERALL APARTMENT VENTILATION CONCEPT, INCLUDING INTEGRATION OF EFS.
2. FURNISH WITH GALVANIZED, HOODED WALL JACK (ROUND).
3. PROVIDE ENERGY STAR CERTIFIED FANS.
4. FURNISH EACH EF-2 WITH SMART SWITCH TO COMPLY WITH WHOLE HOUSE VENTILATION CHART. SEE TABLE.

AIR DISTRIBUTION SCHEDULE table with columns for DEVICE TYPE, FACE SIZE, O.B.V.D., MANUFACTURER, MODEL NO., REMARKS.

NOTES:

- 1. WHERE WALL CONSTRUCTION IS VISIBLE THROUGH GRILLE, CAVITY TO BE PAINTED OUT BLACK.
2. SEAL ALL REGISTERS AND GRILLES TO MINIMIZE CONTAMINATION DURING CONSTRUCTION. SEALS SHOULD BE MAINTAINED UNTIL UNIT IS SUBSTANTIALLY COMPLETE.
3. COORDINATE DEVICES WITH LIGHTING AND OTHER ARCHITECTURAL CEILING ELEMENTS TO AVOID CONFLICTS.
4. ALL CEILING MOUNTED DIFFUSERS AND GRILLES IN GARDEN APARTMENTS, EXCEPT ON TOP FLOOR, SHALL BE FURNISHED WITH RADIATION DAMPERS. FIRE DAMPER IS REQUIRED ON AHU SUPPLY PLENUM.

ELECTRIC UNIT HEATER SCHEDULE table with columns for UNIT MARK, NO., TYPE, AMPS, WATTS, HEATING OUTPUT (BTU/H), VOLTAGE, MANUFACTURER, MODEL NO., WEIGHT (LBS.).

NOTES:

- 1. FURNISH WITH WALL SLEEVE AND INTEGRAL THERMOSTAT.
2. PROVIDE ENERGY STAR CERTIFIED UNIT HEATERS.

ABBREVIATIONS table with columns A through CO listing various abbreviations and their full names.

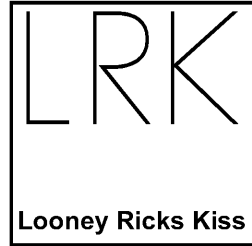
1) ABBREVIATIONS N.T.S.

Table with 4 columns: ID, Description, Mark, Notes.

GENERAL PROJECT NOTES:

- 1. COORDINATE INSTALLATION OF DUCTWORK WITH OTHER DIVISIONS. ALL DUCTWORK ASSOCIATED WITH THE MECHANICAL SYSTEMS SHALL BE INSTALLED AND SECURED PER APPLICATION NOTES. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT INSTALLED ABOVE HARD CEILINGS OR IN FURRED CHASES REQUIRING ACCESS, SUCH AS VOLUME DAMPERS, PIPING VALVES, ETC.
2. MECHANICAL CONTRACTOR SHALL INSTALL VOLUME DAMPERS IN AIR DUCTS TO NEW SUPPLY, RETURN, AND EXHAUST GRILLES, AS APPLICABLE. VOLUME DAMPERS SHALL BE LOCATED FOR ACCESS FROM LAY-IN CEILINGS OR ACCESS DOORS.
3. THERMOSTAT HEIGHT SHALL BE 4'-0" ABOVE FINISHED FLOOR AND SHALL BE ALIGNED WITH LIGHT SWITCH WHERE SHOWN AT THE SAME LOCATION. MANUAL BALANCING DAMPERS SHALL BE LOCATED WHERE OPERATORS ARE ACCESSIBLE.
4. DUCT SIZES SHOWN ARE NET DIMENSIONS MEASURED FROM THE INSIDE (UNLESS OTHERWISE NOTED).
5. PROVIDE FLEXIBLE CONNECTIONS TO DUCTWORK AT ALL INDOOR UNITS, AS APPLICABLE.
6. COORDINATE EXACT LOCATION OF ALL PIPING AND DUCT PENETRATIONS OF WALLS WITH STRUCTURAL BRACING.
7. WHERE PIPING IS ROUTED THROUGH EXTERIOR WALL OF BUILDING PROVIDE TANK SEAL AND SLEEVES FOR PENETRATION OF WALL.
8. DUCT LOCATIONS THROUGH MASONRY PARTITIONS AND BEARING WALLS MUST BE COORDINATED WITH OTHER OPENINGS AND WALL REINFORCING REQUIREMENTS SO THAT STRENGTH OF WALL IS NOT IMPAIRED.
9. EVERY APPLIANCE SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS AND SERVICE PER ALL THE REQUIREMENTS OF 2015 IMC INCLUDING, BUT NOT LIMITED TO, SECTIONS 303 AND 304.
10. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE 2015 IMC. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION PER 2015 IMC, SECTION 304.1. WHERE CONFLICTS EXIST BETWEEN THE DRAWINGS, 2015 IMC, AND THE CONDITIONS OF THE LISTING OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE PROVISIONS OF 2015 IMC SHALL APPLY. WHERE A CODE PROVISION IS LESS RESTRICTIVE THAN THE CONDITIONS OF THE LISTING OR THE EQUIPMENT OR APPLIANCE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL APPLY. ALL REQUIREMENTS OF GENERAL NOTE 12 INCLUDE, BUT ARE NOT LIMITED TO, THOSE LISTED HEREIN AND DOMESTIC KITCHEN EXHAUST EQUIPMENT AND CLOTHES DRYER EXHAUST AS DEFINED BY IMC 2015, SECTIONS 505.1 AND 504, RESPECTIVELY.
11. PERMITS SHALL BE APPLIED FOR BY A LICENSED ENERGY STAR CERTIFIED MECHANICAL CONTRACTOR.
12. PROTECTION OF HVAC SYSTEM DURING CONSTRUCTION: ALL HVAC EQUIPMENT SHALL BE PROTECTED FROM DUST AND OTHER PARTICULATE MATTER. ALL SITE AND INSTALLED ABSORPTIVE MATERIALS SHALL BE PROTECTED FROM MOISTURE DAMAGE. ALL DUCT AND EQUIPMENT OPENINGS SHALL BE PROPERLY SEALED.
13. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL MECHANICAL LAYOUTS FOR BIDDING PURPOSES ONLY. DRAWINGS ARE NOT SHOP DRAWINGS. THE ABOVE CEILING SPACE IS TO BE SHARED WITH OTHER TRADES WORKING IN THE SAME AREA. WORK MUST BE COORDINATED IN DETAIL WITH OTHER TRADES AND EXISTING CONDITIONS TO AVOID CONFLICTS. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO OBTAIN DETAILED SHOP DRAWINGS, AND ALL EXISTING CONDITIONS TO CONFIRM SPACE ALLOCATIONS, AND COORDINATE WITH THE WORK OF OTHER TRADES. REMOVAL OF EXISTING MATERIALS TO INSTALL NEW DUCT, AND EQUIPMENT LOCATIONS AND SIZES TO MATCH ACTUAL FIELD CONDITIONS SUCH THAT COMPONENTS FIT THE FINISH SPACES IN THE AVAILABLE SPACE. VERIFY CONDITIONS AND DIMENSIONS, AS NEEDED, PRIOR TO PREPARING SHOP DRAWINGS, ORDERING EQUIPMENT, OR BEGINNING WORK. IN THE EVENT OF A CONFLICT (IF FORM OR ACTION), CONTRACTOR SHALL IMMEDIATELY NOTIFY DESIGN ENGINEER AND TO PROCEEDING WITH WORK.
14. WHERE APPLIANCES ARE INSTALLED ABOVE A DROP CEILING AND HAVE THE LOWEST POINT AT AN ELEVATION OF 10 FT. A.F.F. OR MORE, A WORK SURFACE WITH A NON-COMBUSTIBLE MATERIAL SHALL BE CONSTRUCTED ON TOP OF THE CEILING.
15. THE WALL, FLOOR MATERIAL AND FINISH SHALL BE COORDINATED WITH EXISTING CONDITIONS. FINISH SHALL MATCH FINISH, SIZES, PREFINISHED ALUMINUM, 1/2" VENEER AND 5/4 TRIM AT FIBER-CEMENT SIDING.
16. HVAC CONTRACTOR MUST BE ACCA (OR OTHER NATIONALLY RECOGNIZED ORGANIZATION) CERTIFIED.
17. WHERE HOUSE / UNIT VENTILATION MUST MEET ASHRAE 62.2-2013 REQUIREMENTS.
18. TO ENSURE A MATCHED SYSTEM, CONTRACTOR MUST PROVIDE COMPLETED HVAC DESIGN REPORT, LOAD CALCULATION, AND AHRI CERTIFICATE FOR EACH MODEL. INSTALLATION REQUIREMENTS INCLUDE:
A. DUCTS AND AIR HANDLER SEALED WITH MASTIC TO MEET A 4% TO CONDITIONED SPACE MAXIMUM LEAKAGE RATE.
B. ALL RETURNS MUST BE DUCTED.
C. EQUIPMENT CANNOT EXCEED 140% OF MANUAL'S DESIGN.
D. CONTRACTOR TO PROVIDE MANUAL, J.D., AND S REPORTS.
19. CONDENSING UNITS SHALL BE PLACED ACCORDING TO THE CIVIL SITE PLAN. LOCATIONS SHOWN ON INDIVIDUAL UNIT PLANS ARE PLACEHOLDER LOCATIONS ONLY. ACTUAL LOCATION VARIES BY INDIVIDUAL UNIT.
20. WHERE CONDENSING UNIT IS LOCATED AWAY FROM A BUILDING OR NEXT TO ANOTHER BUILDING, ROUTE REFRIGERANT LINES ABOVE GROUND ON SUPPORTS EVERY 10'.
21. ALL CEILING MOUNTED DIFFUSERS AND GRILLES IN GARDEN APARTMENTS, EXCEPT ON TOP FLOOR, SHALL BE FURNISHED WITH RADIATION DAMPERS. FIRE DAMPER IS REQUIRED ON AHU SUPPLY PLENUM.
22. PER ENERGY STAR REQUIREMENTS, KITCHEN EXHAUST FANS MUST FIELD TEST AT A MINIMUM OF 100 CFM AFTER INSTALLATION.
23. PER ENERGY STAR REQUIREMENTS, BATHROOM EXHAUST FANS MUST FIELD TEST AT A MINIMUM OF 50 CFM AFTER INSTALLATION.

HVAC LEGEND table with columns for SYMBOL and DESCRIPTION.



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Issues and Revisions

Table with columns: Date, Issued / Revised, Description.

BUILDING ADDRESSES

Table with columns: TYPE, ADDRESS.

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Seal



LRK Project Number: 01.15100.02

Project Name:

South City CNI Phase 4

Memphis TN

Drawing Name:

MECHANICAL GENERAL NOTES, LEGENDS & SCHEDULES

Drawn By: QWW

Checked By: RJH

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