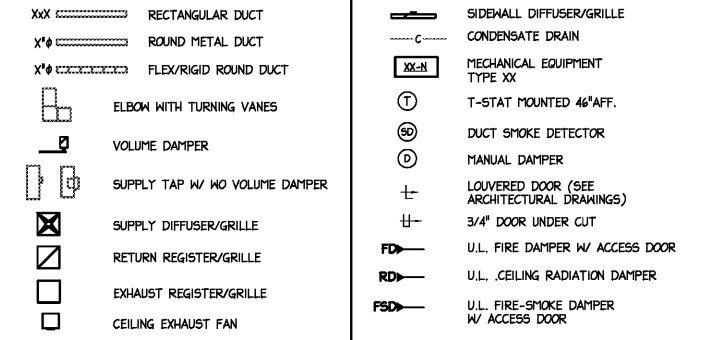


ALL DESIGN, DRAWINGS AND SPECIFICATIONS DEPICTED ON THIS SHEET ARE THE PROPERTY OF R4 ARCHITECTURE, P.A. ANY UNAUTHORIZED USE OR REPRODUCTION IS SUBJECT TO LEGAL PROSECUTION. PERMISSION IN ANY FORM CONSTITUTES ACCEPTANCE OF THESE CONDITIONS. COPYRIGHT 2017

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.
... 18. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.

MECHANICAL LEGEND



GAS UNIT HEATER SCHEDULE

Table with columns: TAG, LOCATION, MOUNTING, CAPACITY MBH, FAN DATA, MANUFACTURER # MODEL NO., NOTES. Includes entry for UH-1 SERVICE AREA, SUSPENDED, 75 INPUT 60 OUTPUT 120, 1 60, SPACE REAY PYSU 75, 1-7.

- NOTES:
1. PROVIDE WITH 53 C5 TEMPSTAT
2. UNIT DISCONNECT
3. U.L. DISCED
4. MOUNT HEATER JUST BELOW BARJOISTS
5. PROVIDE MOUNTING BRACKET
6. PROVIDE WITH TYPE 'B' DOUBLE WALL FLUE WITH APPROVED VENT CAP
7. PROVIDE PRESSURE REGULATOR.

FAN SCHEDULE

Table with columns: UNIT NO., SERVICE, AREA SERVED, CFM, S, RPM, TYPE # MANAGEMENT, MIN. MOTOR HP & VOLTAGE, MANUFACTURER # MODEL NO., DRIVE, CONTROL SCHEME, NOTES. Includes entries for EF-1 EXHAUST TOILET and EF-2 EXHAUST EQUIP. ROOM.

- NOTES:
1. SCREEN...
2. BACKDRAFT DAMPER...
3. CONTROL BY ARCHITECT...
4. INTERNAL DISCONNECT SWITCH...
5. SPEED CONTROLLER NEARBY...
6. PROVIDE STARTER AS REQUIRED
7. PROVIDE WITH FACTORY ROOF CURB

DIFFUSER SCHEDULE

Table with columns: SYMBOL, CFM, NECK SIZE, MODULE SIZE, FRAME TYPE, PATTERN, DAMPER, MATERIAL, SERVICE, FINISH, MANUFACTURER # MODEL NO., NOTES. Includes entries for A, B, C, D.

- NOTES:
1. DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWED:
2. FINISH TO MATCH/BE ABLE MATCH CEILING OR WALL OR DOOR.
3. PROVIDE WITH U.L. LISTED RADIATION DAMPER.

SPLIT SYSTEM GAS FURNACE SCHEDULE

Table with columns: AIR HANDLING UNIT DATA (FAN DATA, COOLING, HEAT, ELECTRICAL DATA), CONDENSING UNIT (GENERAL DATA, ELECTRICAL DATA), WEIGHT (LBS), NOTES. Includes entry for AH-1.

- NOTES:
1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95 DEGREE FARENHEIT AMBIENT OUTDOOR AIR TEMPERATURE, 85 DEGREE FARENHEIT DRY BULB, AND 67 DEGREE FARENHEIT WET BULB ENTERING AIR TEMPERATURE, AND NORMAL AIR QUANTITY LISTED.
2. REFRIGERANT PIPING TO BE SIZED PER TOTAL INSTALLATION EQUIVALENT LENGTH. LONG-LINE APPLICATION TO BE PROVIDED WHENEVER MANUFACTURER'S RECOMMENDED LENGTHS ARE EXCEEDED, INCLUDING LIQUID LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAXIMUM T.E.L IS 100'.
... 13. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY UNITS PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

Table with columns: AIR HANDLING UNIT DATA (FAN DATA, COOLING, HEAT, AUX., ELECTRICAL DATA), HEAT PUMP (GENERAL DATA, ELECTRICAL DATA), WEIGHT (LBS), NOTES. Includes entry for AH-2.

- NOTES:
1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95 DEGREE FARENHEIT AMBIENT OUTDOOR AIR TEMPERATURE, 80 DEGREE FARENHEIT DRY BULB, AND 67 DEGREE FARENHEIT WET BULB ENTERING AIR TEMPERATURE, AND NORMAL AIR QUANTITY LISTED.
2. REFRIGERANT PIPING TO BE SIZED PER TOTAL INSTALLATION EQUIVALENT LENGTH. LONG-LINE APPLICATION TO BE PROVIDED WHENEVER MANUFACTURER'S RECOMMENDED LENGTHS ARE EXCEEDED, INCLUDING LIQUID LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAXIMUM T.E.L IS 100'.
... 13. CATALOG NUMBERS AND MANUFACTURERS ARE TO INDICATE TYPE AND QUALITY OF UNIT DESIRED. SUBMIT CUTSHEETS OF THESE AND ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY UNITS. INFORMATION ON ALTERNATE UNITS PROPOSED BY THE CONTRACTOR SHALL INCLUDE THE ADDI DEDUCT ASSOCIATED WITH ACCEPTANCE OF THAT UNIT FOR THE ALTERNATE PACKAGE AS A WHOLE.

Original Plans

ENERGY REQUIREMENTS: MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT. METHOD OF COMPLIANCE: PRESCRIPTIVE [X] PERFORMANCE [] ENERGY COST BUDGET []. CLIMATE ZONE: 4. THERMAL ZONE: WINTER DRY BULB 23, SUMMER DRY BULB 91. INTERIOR DESIGN CONDITIONS: WINTER DRY BULB 70, SUMMER DRY BULB 75, RELATIVE HUMIDITY 50. BUILDING HEATING LOAD (MEH): 104 MEH. BUILDING COOLING LOAD (MEH): 73 MEH. MECHANICAL SPACING CONDITIONING SYSTEM UNITARY. DESCRIPTION OF UNIT HEATING EFFICIENCY SEE SCHEDULES, COOLING EFFICIENCY SEE SCHEDULES, HEAT OUTPUT OF UNIT SEE SCHEDULES, COOLING OUTPUT OF UNIT SEE SCHEDULES. BOILER: TOTAL BOILER OUTPUT, IF OVERSIZED, STATE REASON. CHILLER: TOTAL CHILLER OUTPUT, IF OVERSIZED, STATE REASON. LIST EQUIPMENT EFFICIENCIES SEE SCHEDULES. EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) SEE SCHEDULES. NUMBER OF PHASES SEE SCHEDULES, MINIMUM EFFICIENCY SEE SCHEDULES, MOTOR TYPES SEE SCHEDULES, NUMBER OF PULSES SEE SCHEDULES. DESIGNER'S STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE N.C.S.I. ENERGY CODE. SIGNED: H. Wayne King III, P.E. TITLE: MECHANICAL ENGINEER

Project: Sam's Xpress Car Wash, 4965 University Parkway, Winston-Salem, NC 27106. OWNER: Sam's Mart, 7900 Courthouse Place, Suite 200, Matthews, NC 28105. SABER ENGINEERING: 2923 South Tryon Street, Suite 282, Charlotte, North Carolina 28217, tel 704.373.0068. MECHANICAL, ELECTRICAL, PLUMBING. H. WAYNE KING III, P.E. June 15, 2017.

R4 ARCHITECTURE, P.A. 124 Floyd Smith Dr Suite 375 Charlotte, NC 28262 Tel -704-688-7500

7301 Rivers Avenue Suite 188 North Charleston, SC 29406 Tel -843-531-6848

www.R4architecture.com

Revision Date

Drawn By: SABER
Checked By: SABER
Issue Date: 06.15.17
Project No: 170382

Sheet Title: MECHANICAL SCHEDULES AND NOTES

Sheet Number

M100