

MECHANICAL SCHEDULE

| DESIGNATION | DESCRIPTION | DUTY |
|-------------|-------------------|--|
| RT1/RT2 | CARRIER #48TJDO05 | 1600 CFM 0.6" ESP, 50.5 / 36.5 MBH TOTAL/SENS COOLING 72 / 59.2 MBU INPUT/OUTPUT GAS HEATING AIR HANDLING UNIT |

VENTILATION AIR SCHEDULE

| ROOFTOP UNIT | AREA* SQ. FT. | MINIMUM VENTILATION | |
|--------------|---------------|----------------------|-----|
| | | RATE | CFM |
| RT1/RT2 | 2100 | 0.30 CFM PER SQ. FT. | 630 |

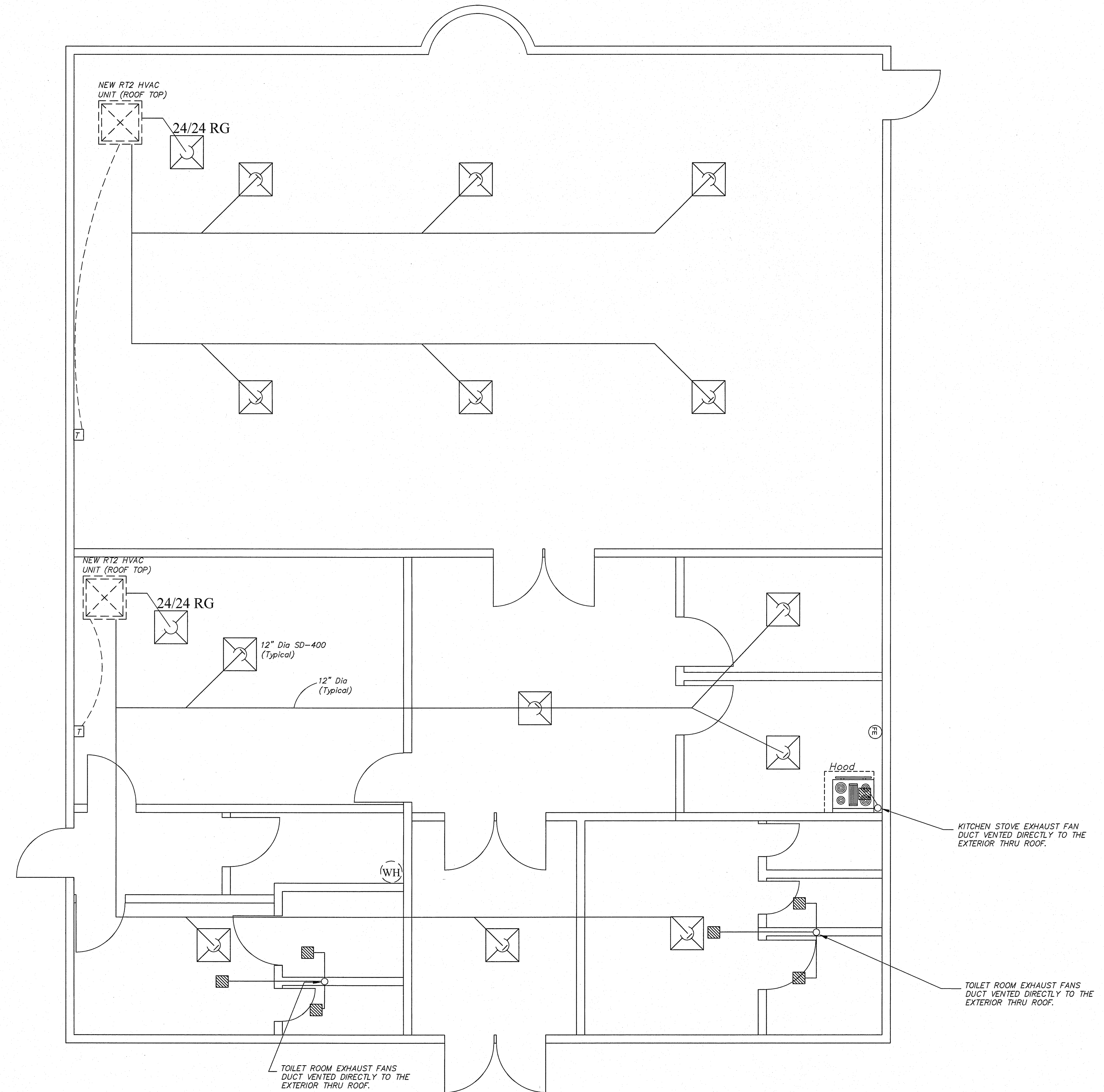
* NET ASSEMBLY AREA

SYMBOLS & SPECIFICATIONS:

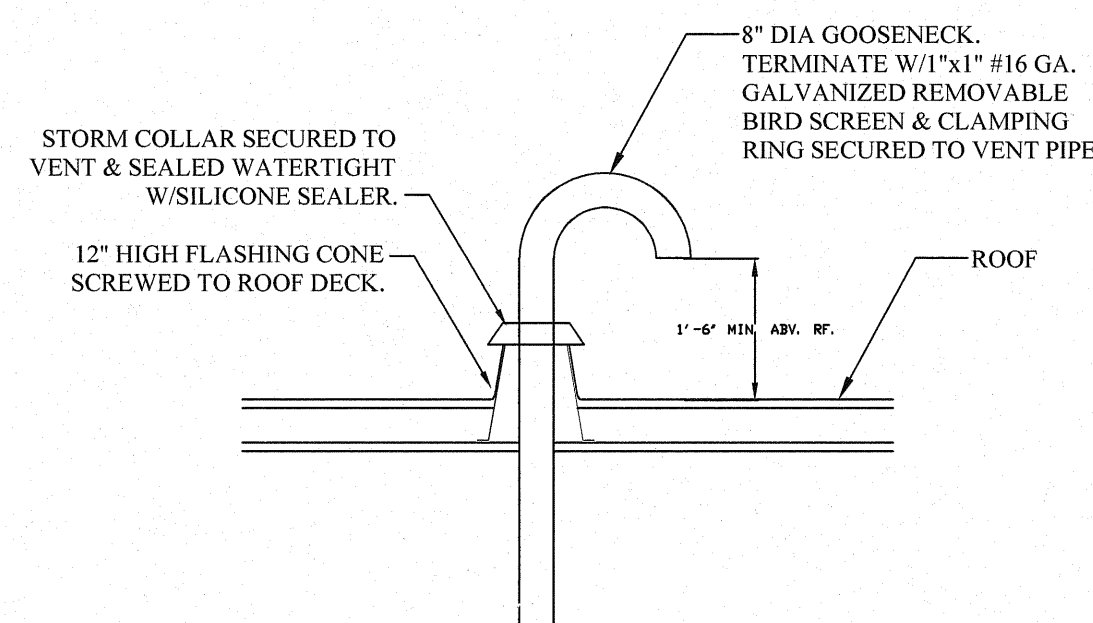
- RECTANGULAR SHEET METAL DUCTWORK, SIZE IS AIRSIDE. FABRICATION, GAUGES AND REINFORCING IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" W.C. PRESSURE. LINE ALL SUPPLY AND RETURN DUCTS WITH 1/2" THICK, 1-1/2" LB. DENSITY NON-SLOUGH FINISH GLASS FIBER DUCTLINER.
- SLOPE UP OR DOWN IN DUCTWORK
- LAY-IN SUPPLY DIFFUSER, NECK SIZE AND CFM. SIMILAR TO TITUS PASS WITH FRAME TYPE TO FIT 24" X 24" INVERTED T-BAR CEILING WHITE FINISH STEEL. CONNECT TO TRUNK DUCT WITH NECK SIZE INSULATED ROUND FLEXIBLE DUCT SIMILAR TO THERMAFLEX TYPE "G-KM" AND SPIN-IN FITTING WITH ADJUSTABLE BALANCING DAMPER. (MAXIMUM LENGTH OF FLEX DUCT 12'. TO COMPLETE REQUIRED RUN, PROVIDE ROUND SHEET-METAL TAKE-OFF FROM TRUNK DUCT. SEAL WITH JOINTS AND SEAMS IN DUCTWORK AND PROVIDE 1-1/2" DUCT WRAP WITH VAPOR BARRIER.
- LAY-IN RETURN GRILLE. SIMILAR TO TITUS 50F. 1"x1"x1" EGGCRATE GRILLE WITH FRAME TO FIT 24" x 24" INVERTED T-BAR CEILING. WHITE FINISH ALUMINUM.
- FLEXIBLE DUCT SUPPLY AND RETURN CONNECTIONS TO ROOFTOP UNIT, SIMILAR TO VENTFABRICS.
- ELECTRIC ROOM THERMOSTAT. PROVIDE CABLE AS REQUIRED IN ACCORDANCE WITH MANUFACTURER'S WIRING DIAGRAM AS NECESSARY.
- AIR CONDITIONING UNIT SHALL BE OF MANUFACTURER AND MODEL AS SCHEDULED OR APPROVED EQUAL FOR 208V/3PHASE OPERATION. UNIT SHALL BE U.L. LISTED AND RATED IN ACCORDANCE WITH ARI STANDARDS. THE UNIT SHALL BE 1600 CFM @ 0.6" ESP, 67.5 / 43.5 MBH TOTAL SENS COOLING 92 / 65.2 MBU INPUT/OUTPUT GAS HEATING AIR HANDLING UNIT. THE NEW MERCANTILE AREA WILL BE 1660 SQUARE FEET WITH MINIMUM VENTILATION RATE 0.3 CFM PER SQUARE FOOT TOTALING TO OUTSIDE AIR OF 500 CFM. UNIT SHALL HAVE ENTHALPY CONTROLLER ECONOMIZER CYCLE WITH BAROMETRIC RELIEF TO UTILIZE OUTSIDE AIR FOR COOLING WHEN OUTSIDE ENTHALPY IS LESS THAN THE RETURN AIR. PROVIDE STAGED HEATING AND COOLING PROGRAMMABLE THERMOSTATS WITH AUTO-ON-OFF FAN SWITCH, CRANKCASE HEATER AND SHORT CYCLE PROTECTION CIRCUIT. CONTROL WIRING INCLUDE TSTAT AND SMOKE DETECTOR SHUT DOWN WHERE REQUIRED. SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. WIRING SHALL BE RUN CONCEALED IN FINISHED AREAS. CONDENSATE SHALL BE TRAPPED PER MANUFACTURER'S RECOMMENDATIONS. 3/4" PIPING SHALL TERMINATE OVER DRAIN AT WATER SERVICE AS APPROVED BY LOCAL JURISDICTION.
- COOK LITTLE GEM-II CEILING FAN WITH GRILLE BACK DRAFT DAMPER AND FSC CONTROLLER MOUNTED AT FAN FOR 75 CFM.

MECHANICAL GENERAL NOTES:

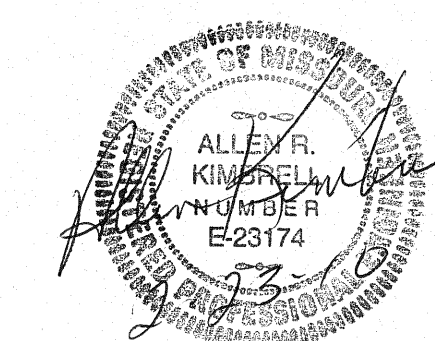
- CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT TO PROVIDE COMPLETE AND FUNCTIONING INSTALLATIONS, AND ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE SPECIFIED.
- ACCEPTANCE OF WORK SHALL BE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL OF WORK IN PLACE AS WELL AS SHOP DRAWINGS AND SAMPLE OF MATERIALS AND EQUIPMENT WHICH SHALL BE CHECKED BY CONTRACTOR BEFORE SUBMITTAL.
- CONTRACTOR SHALL SUBMIT MARKED-UP CLEAN PRINTS OF AS-BUILT CONDITIONS SHOWING CONCEALED DEVIATIONS FROM DESIGN.
- CONTRACTOR SHALL KEEP PREMISES OF WORK AREA CLEAN DAILY, BROOM CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL REFUSE FROM SITE REGULARLY.
- CONTRACTOR SHALL WARRANTY ALL NEW WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
- ALL PERMITS AND LICENSES THAT ARE REQUIRED BY THE CITY OF ST. JOSEPH, MISSOURI SHALL BE PROCURED AND PAID BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT IN SUCH A MANNER AS TO CONTROL THE TRANSMISSION OF NOISE AND VIBRATION FROM ANY INSTALLED EQUIPMENT OR SYSTEM, SO THE SOUND LEVEL SHALL NOT EXCEED NC35, IN ANY OCCUPIED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY OBJECTIONABLE NOISE IN ANY OCCUPIED AREA DUE TO IMPROPERLY INSTALLED EQUIPMENT.
- THE AIR CONDITIONING UNIT SHALL BE INSTALLED OUTSIDE THE BUILDING AS SHOWN IN THE MECHANICAL DRAWINGS. THE AIR HANDLING UNIT SHALL BE INSTALLED ABOVE KITCHEN CEILING.
- THE KITCHEN STOVE HOOD SHALL EXHAUST TO EXTERIOR THROUGHTH THE ROOF PER SECTION 507, IMC 2006.



Mechanical Floor Plan



Exhaust Duct Thru Roof



K&M
 Design & Construction, Inc.
 9000 E Bannister Road
 Suite 100
 Kansas City, Missouri 64134