



09-27-2020

DRAWING ISSUES:

JOB NO: 20007

MECHANICAL SCHEDULES

M1.0

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL WORK SHALL BE PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE CODE AND/OR MANUFACTURERS CLEARANCES.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE PORTIONS OF ALL NATIONAL, STATE, AND LOCAL CODES AND STANDARDS. WHERE THE CONTRACT DOCUMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE CODES, THE LATTER SHALL GOVERN.
- GC SHALL ENSURE THAT ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS AND OTHER CEILING DEVICES ARE CENTERED IN CEILING TILES AND IN BETWEEN LIGHT FIXTURES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- ALL DUCTWORK TO BE EXTERNALLY INSULATED PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- ALL EXPOSED DUCTWORK SHALL BE SUPPORTED BY ALL-THREAD ROD, SHALL BE INTERNALLY LINED AND SHALL BE PAINTED PER OWNER REQUIREMENTS.
- FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEMS' FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES AND ALL REQUIRED PERMITS AND LICENSES.
- UNIT LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. COORDINATE EXACT LOCATION WITH STRUCTURAL PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK SIZES AND ROUTING WITH STRUCTURE AND OTHER DISCIPLINES PRIOR TO PURCHASING, CONSTRUCTING OR INSTALLING ANY DUCTWORK. CONTRACTOR SHALL PROVIDE DUCTWORK SHOP DRAWINGS TO ENGINEER/ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. UNLESS SHOP DRAWINGS ARE SUBMITTED, CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COST FOR ANY NECESSARY REWORK.
- ALL BRANCH DUCTS ARE TO BE THE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE NOTED. SEE DIFFUSERS RUNOUT SIZING CHART.
- MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'-0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS, AND EXHAUST FANS.
- PROVIDE BALANCING DAMPERS AT ALL SUPPLY AIR RUNOUTS.
- ALL DUCTWORK SHALL BE CONSTRUCTED, SEALED AND SUPPORTED PER LATEST SMACNA AND ASHRAE RECOMMENDATIONS.
- PROVIDE ALL MECHANICAL EQUIPMENT WITH NEW LAMINATED IDENTIFICATION TAGS. LABEL TAGS AS SHOWN ON PLAN INCLUDING AREA SERVED.
- ALL GAS FIRED EQUIPMENT TO BE U.L. LISTED AND A.S.A. APPROVED.
- ALL EQUIPMENT SHALL BE ANCHORED TO THE BUILDING STRUCTURE.
- FLEX DUCT ALLOWED ONLY IN SUPPLY DUCTWORK IN AREAS WITH ACCESSIBLE CEILINGS AND ONLY IN THE LAST 6 FEET OF RUNOUTS. NO FLEX DUCTWORK ALLOWED IN RETURN AIR DUCTWORK.
- REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.
- EXCEPT AS REQUIRED BY IMC SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM-84 OR UL-723.
- PROVIDE SLEEVES AND FLASHINGS REQUIRED FOR PIPING AND DUCTWORK PENETRATIONS. PROVIDE ESCUTCHEON PLATES FOR ALL PIPING PENETRATING FINISHED WALLS AND CEILINGS.
- FIELD VERIFICATION OF EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO SUBMISSION OF BID. THE CONTRACTOR SHALL TAKE NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE APPROXIMATE LOCATIONS OF THE MECHANICAL AND PLUMBING SYSTEMS. LOCATE ALL ITEMS BY ON-THE-JOB MEASUREMENTS. COOPERATE WITH OTHER TRADES TO ENSURE PROPER FIT AND ACCESS TO ALL ITEMS.
- PROVIDE FIRE AND/OR SMOKE DAMPERS IN ALL DUCT PENETRATIONS OF RATED WALLS WHETHER OR NOT SHOWN ON PLANS.
- COORDINATE WITH ELECTRICAL TO PROVIDE POWER FOR ALL SMOKE DAMPERS WHETHER OR NOT SHOWN ON PLANS.
- CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE ITEMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., INSTALLATION WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT AND THE STRUCTURE. PROVIDE ADDITIONAL RISERS AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING CONDUIT, OR CABLE IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE, OR OTHER TRADE WORK, OR WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENT, THE DUCTWORK, CONDUIT, OR CABLE SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT THE WORK, EQUIPMENT, AND MATERIALS FROM DAMAGE BY HIS WORK OR HIS PERSONNEL, AND SHALL CORRECT ALL DAMAGE THUS CAUSED WITHOUT ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK, MATERIALS, AND EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT ALL WORK AGAINST THEFT, INJURY, OR DAMAGE AND CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. THE CONTRACTOR SHALL CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DUST, DIRT, AND OBSTRUCTING MATERIAL. THE CONTRACTOR SHALL PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE DUE TO WATER, SPRAY-ON FIREPROOFING, CONSTRUCTION DEBRIS, ETC. IN A MANNER ACCEPTABLE TO THE ENGINEER AND/OR OWNER.

CONTRACTOR TO CLEAN ALL EXISTING AIR DEVICES SHOWN TO REMAIN. AS DEEMED NECESSARY, CONTRACTOR TO REPLACE EXISTING AIR DEVICE WITH NEW.

EXISTING DUCTWORK AND EXISTING DIFFUSER LOCATIONS ARE BASED ON AVAILABLE INFORMATION AND ARE TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO RELAY DIFFERENCES IN FIELD FROM WHAT IS SHOWN ON PLANS WHICH WILL PREVENT INSTALLATION AS DESIGNED FOR.

MECHANICAL CONTRACTOR IS TO FIELD VERIFY LOCATIONS, SIZES, AND CONDITIONS OF ALL EXISTING EQUIPMENT PRIOR TO CONSTRUCTION. IF NOT AS SHOWN OR SCHEDULED FOR ON PLAN, CONTRACTOR IS TO CONTACT ARCHITECT AND ENGINEER.

MECHANICAL NOTES BY SYMBOL "O"

- EXISTING SANCTUARY DUCTWORK AND DIFFUSERS TO REMAIN.
- CONNECT NEW EXHAUST DUCT TO EXISTING EXHAUST DUCTWORK ROUTED TO EXTERIOR. IF EXISTING DUCT IS NOT MINIMUM SIZE SHOWN, REPLACE WITH NEW DUCTWORK.
- FIELD CONFIRM EXACT LOCATION OF EXISTING THERMOSTATS. RELOCATE TO SHOWN LOCATION AS NECESSARY. CONFIRM THERMOSTATS ARE PROPERLY FUNCTIONING AND CAPABLE OF 7-DAY PROGRAMMING. IF NOT, PROVIDE WITH NEW HONEYWELL TH8000 OR EQUIVALENT.
- UNDERCUT DOOR BY 1/2".
- DEMO EXISTING RETURN AIR DUCTWORK ASSOCIATED WITH AHU AND INSTALL NEW AS SHOWN. CONNECT TO EXISTING AIR DEVICES AS SHOWN.
- EXISTING CONDENSER AT THIS LOCATION TO REMAIN. PROVIDE MAINTENANCE AS REQUIRED TO ENSURE UNIT IS PROPERLY FUNCTIONING.
- ROUTE 6" EXHAUST DUCT UP TO ROOF TO ROOF CAP. PROVIDE WITH BIRD SCREEN.
- INSTALL NEW RETURN AIR HIGH IN WALL IN SAME MANNER AS EXISTING ON OTHER SIDE OF CHANCEL WITH SANCTUARY. CONTRACTOR TO FIELD VERIFY TYPE OF EXISTING GRILLE SO AS TO INSTALL ONE OF SAME STYLE IN NEW LOCATION SHOWN. DEMO EXISTING DUCTWORK BEYOND LOCATION OF NEW GRILLE.
- CONTRACTOR TO RELOCATE EXISTING CONDENSER TO THIS LOCATION, FIELD COORDINATE EXACT LOCATION TO MAINTAIN MANUFACTURER CLEARANCE REQUIREMENTS. CONDENSER TO BE MOUNTED ON 4" CONCRETE HOUSE-KEEPING PAD. CONTRACTOR TO ENSURE THAT MAXIMUM REFRIGERANT EQUIVALENT LINE LENGTH DOES NOT EXCEED 150 FEET.
- CONTRACTOR TO FIELD VERIFY THAT EXISTING CONDENSER IS GOODMAN MODEL GSX14060 OR EQUAL WITH A MAXIMUM EQUIVALENT REFRIGERANT LINE LENGTH OF 150 FEET. IF SO, EXISTING CONDENSER AT THIS LOCATION TO BE RELOCATED TO MECHANICAL YARD BETWEEN BUSINESS WING AND PASTOR'S WING. IF NOT, PROVIDE NEW GOODMAN MODEL GSX14060.

