



02/15/12

GENERAL NOTES:

1. THE DRAWINGS ARE INTENDED TO COVER THE LAYOUT & DESIGN OF THE WORK & ARE NOT TO BE SCALED FOR EXACT MEASUREMENTS.
2. THE MECHANICAL WORK INCLUDES COMPLETE AND FUNCTIONAL SYSTEMS OF PLUMBING, FIRE PROTECTION, HEATING, VENTILATING, AIR CONDITIONING, EXHAUST & TEMPERATURE CONTROL.
3. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID & SHALL VERIFY ALL DIMENSIONS & LOCATIONS PRIOR TO PURCHASING COMPONENTS OR COMMENCING WORK.
4. ANY CONNECTION TO, OR RELOCATION OF, EXISTING UTILITIES REQUIRING DISCONNECTION OF NORMAL UTILITY SERVICES SHALL BE SCHEDULED & COORDINATED WITH THE OWNER OR HIS REPRESENTATIVE. PREMIUM TIME SHALL BE INCLUDED.
5. IN NO CASE SHALL THE UTILITIES BE LEFT DISCONNECTED AT THE END OF A WORKDAY WITHOUT AUTHORIZATION FROM THE OWNER.
6. PROVIDE ALL EXCAVATION NECESSARY FOR INSTALLATION OF THE WORK INCLUDED. COMPLY WITH ALL APPLICABLE & GOVERNING SAFETY REGULATIONS INCLUDING OSHA.
7. CONTRACTOR SHALL INCLUDE ALL NECESSARY CUTTING & PATCHING OF WALLS, FLOORS, CEILINGS & ROOFS FOR INSTALLATION. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT.
8. CONTRACTOR SHALL REPAIR ANY EXISTING FACILITIES DAMAGED DUE TO THE OPERATIONS OF THE CONTRACTOR.
9. PERFORMANCE, WORKMANSHIP & MATERIAL SHALL COMPLY WITH GOVERNING CODES, STATE STATUTES, CITY ORDINANCES & REGULATIONS OF REGULATORY BODIES HAVING JURISDICTION.
10. CONTRACTOR SHALL PROCURE & PAY FOR ALL REQUIRED PERMITS & LICENSES.
11. GUARANTEE EACH NEW SYSTEM & EACH ELEMENT THEREOF AGAINST ANY DEFECT DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF ONE YEAR.
12. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13. SUBMIT FIVE (5) COPIES OF COMPLETE PRODUCT DATA & SHOP DRAWINGS. EACH SUBMITTAL SHALL BE STAMPED & DATED BY THE CONTRACTOR.
14. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE SEVEN (7) DAYS PRIOR TO BID.
15. THE CONTRACTOR SHALL SHOW, ON BLUE-LINE PRINTS, ANY CHANGES FROM THE ORIGINAL DRAWINGS MADE DURING INSTALLATION. DELIVER TO THE OWNER WHEN THE WORK IS COMPLETED.
16. PROVIDE TWO (2) COPIES OF OPERATING & SERVICE MANUALS, INCLUDING OPERATING INSTRUCTIONS, SERVICE INSTRUCTIONS & SUBMITTAL LITERATURE TO THE OWNER.
17. DEMONSTRATE TO & INSTRUCT THE OWNER IN THE PROPER OPERATION & MAINTENANCE OF ALL SYSTEMS.
18. WHERE EQUIPMENT IS FURNISHED BY THE OWNER OR OTHER CONTRACTOR, PROVIDE ROUGH-IN & MAKE FINAL CONNECTIONS PER SHOP DRAWINGS & MANUFACTURER'S INSTALLATION INSTRUCTIONS.
19. STORE EQUIPMENT & MATERIAL TO PREVENT DAMAGE. DAMAGED EQUIPMENT SHALL BE REPLACED OR RESTORED TO A CONDITION ACCEPTABLE TO THE OWNER.
20. TOUCH UP OR REFINISH MINOR DAMAGE TO ITEMS OF EQUIPMENT SUPPLIED WITH MANUFACTURER'S STANDARD FINISH.
21. TEST ALL SAFETY DEVICES, PERFORM EQUIPMENT START-UP & MAKE ANY ADJUSTMENTS REQUIRED TO MAKE THE EQUIPMENT FULLY OPERATIONAL PER THE MANUFACTURER'S INSTRUCTIONS.
22. PROVIDE NON-CONDUCTING TYPE CONNECTIONS WHENEVER JOINING DISSIMILAR MATERIALS.
23. INSULATION MATERIAL SHALL HAVE A MINIMUM RATING OF 25 FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ALL ADHESIVES SHALL BE WATERPROOF.
24. PROVIDE FIRESTOPPING FOR PIPES, DUCTWORK, ETC. PASSING THROUGH FIRE OR SMOKE PARTITIONS.
25. COORDINATE WITH OTHER TRADES WHEN LOCATING EQUIPMENT, PIPING, DUCTWORK, ETC.
26. VERIFY VOLTAGE AND PHASE OF ELECTRICAL SERVICE TO EACH PIECE OF EQUIPMENT.
27. ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT ALL COMPONENTS REQUIRING ACCESS ARE LOCATED AND INSTALLED THAT THEY MAY BE SERVICED, RESET, REPLACED, RECALIBRATED, ETC. BY SERVICE PERSONNEL USING NORMAL SERVICE TOOLS AND EQUIPMENT.
28. ALL EQUIPMENT AND RELATED ABOVE SLAB PIPING, FLUES, DUCTWORK, CONTROL WIRING, AND ACCESSORIES SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND, IF INSTALLED WITHIN THE BUILDING ENVELOPE, SHALL BE INSTALLED AS HIGH AS POSSIBLE TO ALLOW THE MAXIMUM AMOUNT OF HEADROOM. ALL EQUIPMENT SHALL BE INSTALLED WITH THE REQUIRED CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR GOVERNING CODES.

DEMOLITION NOTES:

WHERE DEMOLITION WORK IS REQUIRED AS PART OF THIS SCOPE OF WORK, THE FOLLOWING NOTES APPLY:

1. REMOVE ALL EXISTING ABOVE FLOOR AND EXPOSED PIPING TO FIXTURES BEING REMOVED UNLESS NOTED AS UTILIZED IN NEW CONSTRUCTION.
2. SOME EQUIPMENT, PIPING AND DUCTWORK TO BE REMOVED IS NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL LOCATIONS, DIMENSIONS AND CONDITIONS OF ALL EXISTING EQUIPMENT, ANY EXISTING DUCTWORK, PIPING, ETC. LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND ARE TO BE USED AS GENERAL GUIDELINES ONLY.
4. DEMOLISH EXISTING ABANDONED SYSTEMS, EQUIPMENT, ETC. AS NECESSARY TO MAKE WAY FOR NEW CONSTRUCTION. VERIFY WITH OWNER FOR ANY ITEMS NOT DIRECTLY NOTED ON THE PLANS. AVOID DISRUPTION OF SERVICES DURING NORMAL BUSINESS HOURS. DISRUPTION OF SERVICES SHALL BE COORDINATED WITH OWNER AND SCHEDULED AFTER NORMAL BUSINESS HOURS OR AS OTHERWISE APPROVED BY OWNER. RELOCATE ANY EXISTING PLUMBING OR HVAC SYSTEMS REMAINING IN USE AS REQUIRED TO MAINTAIN FUNCTIONALITY OF EXISTING SYSTEMS AND ACCOMMODATE LAYOUT OF NEW CONSTRUCTION. ANY RELOCATED INTERIOR PIPING OR DUCTWORK SHALL BE CONCEALED WITHIN THE NEW CONSTRUCTION.
5. PRIOR TO DEMOLITION, FIELD VERIFY AND IDENTIFY ANY EXISTING EQUIPMENT TO REMAIN IN SERVICE THAT IS CURRENTLY SERVED BY SYSTEMS TO BE DEMOLISHED. NOTIFY ARCHITECT OF ANY SUCH CONDITIONS AND REMOVE AND/OR RELOCATE THE SERVICES AS DIRECTED.
7. VERIFY WITH OWNER PRIOR TO DEMOLITION TO IDENTIFY WHETHER EXISTING MATERIALS, SYSTEMS, EQUIPMENT, ETC. ARE CONSIDERED SALVAGE OR DEBRIS. REMOVE DEBRIS FROM SITE AND DISPOSE OF IN APPROVED MANNER. RETURN SALVAGE TO OWNER IN A LOCATION AND MANNER AS DIRECTED BY OWNER.

ALL DUCTWORK AND PIPING IS TO BE CONCEALED. WHERE EXISTING IS TO BE ABANDONED, CAP TO BE CONCEALED IN NEW OR PATCHED WALLS, CEILINGS OR FLOORS AS APPLICABLE. VERIFY THE EXACT LOCATION OF ALL EXISTING PIPING, DUCTWORK AND RELATED ITEMS. ANY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY THE OPERATION OF EXISTING EXHAUST FANS TO REMAIN AND ALERT THE ARCHITECT/ENGINEER IF ANY EXISTING FANS INTENDED FOR RE-USE ARE NOT FUNCTIONING PROPERLY. REFER TO THE PLUMBING FIXTURE SCHEDULE FOR PIPING RUNOUT SIZES. CONNECT TO EXISTING WHERE POSSIBLE OR EXTEND NEW PIPING TO THE NEAREST ADEQUATELY SIZED EXISTING LINE. CLEAN OR REPLACE ANY EXISTING FLOOR DRAIN GRATES IN REMODELED TOILETS AS REQUIRED TO MAKE EXISTING FLOOR DRAINS FULLY FUNCTIONAL.

HVAC NOTES:

1. FABRICATE AND INSTALL ALL DUCTWORK, FITTINGS AND SUPPORTS PER SMACNA STANDARDS.
2. DUCTWORK DIMENSIONS INDICATED ARE NET FREE AREA.
3. RECTANGULAR SHEETMETAL DUCTWORK SHALL BE INSULATED WITH 1" INTERNAL LINER. CONCEALED ROUND DUCTWORK SHALL BE WRAPPED WITH 2" INSULATION. EXPOSED ROUND DUCTWORK TO BE UNSULATED SPIRAL. ANY EXTERIOR DUCTWORK TO BE SEALED WATERTIGHT WITH PAINTABLE FLEXIBLE MASTIC TYPE SEALER. FLEXIBLE DUCT RUNOUTS SHALL BE LIMITED TO 6'-0" MAXIMUM. EXPOSED DUCTWORK TO BE PAINTED. VERIFY PAINT SELECTION WITH ARCHITECT. REMOVE ALL PAPER MANUFACTURING LABELS FROM DUCTWORK PRIOR TO PAINTING.
4. COORDINATE EXACT DUCTWORK ROUTING AND GRILLE & DIFFUSER LOCATIONS WITH LIGHTS, FIRE SPRINKLER & PLUMBING PIPING, AND STRUCTURE. PROVIDE OFFSETS TO ROUTE BRANCH DUCTS THRU JOIST SPACE WHERE REQUIRED TO CROSS OBSTRUCTIONS IN CEILING SPACE. VERIFY ALL DUCT SIZING AND ROUTING WITH STRUCTURE PRIOR TO FABRICATION.
5. PROVIDE LOCKABLE VOLUME CONTROL DAMPER TO EACH BRANCH DUCT RUNOUT TO SUPPLY DIFFUSER FOR SYSTEM BALANCING. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS.
6. PROVIDE 100% FREE AREA FIRE DAMPERS, SMOKE DAMPERS OR COMBINATION FIRE AND SMOKE DAMPERS AS REQUIRED AT ALL PENETRATIONS OF RATED PARTITIONS. PROVIDE ACCESS TO RESET FUSIBLE LINKS. REFER TO ARCHITECT'S PARTITION PLANS FOR EXACT LOCATIONS AND RATINGS OF FIRE AND SMOKE RATED PARTITIONS. COORDINATE ELECTRICAL REQUIREMENTS FOR POWER AND ACTIVATION OF SMOKE/COMBINATION FIRE AND SMOKE DAMPERS WITH ELECTRICAL CONTRACTOR.
7. LOCATE O/A INTAKES 10'-0" MINIMUM FROM PLUMBING, COMBUSTION AIR OR EXHAUST VENTS.
8. PROVIDE DUCTWORK VIBRATION ISOLATION AS REQUIRED BY EACH PIECE OF EQUIPMENT OR AS INDICATED ON PLANS.
9. DISCHARGE INDOOR FURNACE UNIT CONDENSATE DRAIN PIPING TO FLOOR DRAIN OR OTHER APPROVED LOCATION WITH AIR GAP. DO NOT DISCHARGE CONDENSATE DRAINS INTO RECEPTORS THAT TERMINATE ONTO SIDEWALKS OR TRAFFIC WAYS. LOCATE PIPING TO AVOID BLOCKING FILTER AND UNIT MAINTENANCE ACCESS. PROVIDE CONDENSATE DRAIN TRAPS PER MANUFACTURER'S INSTRUCTIONS. EXTERIOR CONDENSATE DRAINS TO BE COPPER OR GALVANIZED STEEL.
10. REFER TO ARCHITECTURAL PLANS FOR VENT FLASHING DETAILS FOR ROOF PENETRATIONS. ANY PENETRATIONS OF THE BUILDING EXTERIOR ARE TO BE COMPLETELY SEALED AND INSTALLED IN CONFORMANCE WITH THE WARRANTY REQUIREMENTS OF THE BUILDING SYSTEM. WALL CAPS OR VENTS TO BE PAINTED TO MATCH EXTERIOR WALL FINISH. VERIFY PAINT COLOR WITH ARCHITECT.
11. PROVIDE DUCT SMOKE DETECTORS WHERE REQUIRED BY THE MECHANICAL CODE OR INDICATED ON PLANS. COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR ANY POWER AND FIRE ALARM REQUIREMENTS.
12. PROVIDE ACCESS PANEL IN ANY LOCATION REQUIRING MAINTENANCE ACCESS TO DUCTWORK, DAMPERS, CONTROL DEVICES, EQUIPMENT, ETC. VERIFY WALL OR CEILING CONSTRUCTION REQUIREMENTS. PROVIDE MINIMUM SIZE REQUIRED FOR FULL CHASE, CEILING, WALL OR SERVICE AREA MAINTENANCE ACCESS.
13. COORDINATE ALL CEILING DIFFUSER TYPES TO MATCH THE FINAL CEILING CONFIGURATION ON THE ARCHITECT'S REFLECTED CEILING PLANS.
14. PROVIDE OFFSETS IN ALL TRANSFER DUCTS INTO CEILING SPACE AND BRANCH RETURN DUCTS FOR SOUND ATTENUATION. PROVIDE A MINIMUM OF ONE 90° BEND IN EACH BRANCH DUCT OR OFFSET BRANCHES FROM MAIN DUCT TO AVOID DIRECT TRANSMISSION OF SOUND THROUGH DUCT FROM ADJACENT SPACES.
15. PROVIDE HVAC UNIT MANUFACTURER'S COMMERCIAL 7-DAY PROGRAMMABLE, AUTOMATIC CHANGEOVER T-STATS, HONEYWELL, OR EQUAL, WITH OVERRIDE AND LOCKOUT CAPABILITY OR EQUAL. PROVIDE NON-PROGRAMMABLE DIGITAL T-STATS FOR EXHAUST FANS INDICATED W/7-STAT CONTROL. MECHANICAL CONTRACTOR TO PROVIDE T-STATS, CONDUIT AND WIRING AS REQUIRED FOR ALL MECHANICAL CONTROLS. WHERE CONTROL WIRING IS LOCATED IN RETURN PLENUMS, CONDUIT OR PLENUM RATED WIRE IS REQUIRED. PROVIDE SPACE MOUNTED CO2 SENSOR ADJACENT TO T-STAT TO PROVIDE DEMAND CONTROLLED VENTILATION. INTERLOCK CO2 SENSOR WITH OUTSIDE AIR MOTORIZED DAMPER.
17. VERIFY EXACT LOCATIONS AND SPACE REQUIREMENTS OF EQUIPMENT AND CONNECTIONS. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL EQUIPMENT. AVOID PLACEMENT OF EQUIPMENT THAT INTERFERES WITH TUBE PULL AREAS, DOOR SWINGS, ACCESS COVER REMOVAL, ETC.
18. REFER TO MANUFACTURER'S INSTRUCTIONS FOR CONNECTIONS AND ADDITIONAL REQUIREMENTS FOR COMPLETE INSTALLATION OF EQUIPMENT AND DEVICES THAT ARE INSTALLED AS PART OF THIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONNECTIONS TO EQUIPMENT AS INDICATED ON THE CONTRACT DOCUMENTS PER THE RELEVANT MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH MANUFACTURER'S INFORMATION TO PROVIDE ALL REQUIRED VALVES, REGULATORS, BACKFLOW PREVENTERS FILTERS, DRAINS, TUBING AND FITTINGS FOR FINAL CONNECTION THAT ARE NOT OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS.
19. COORDINATE CURB TYPES W/ROOF SYSTEM FOR ALL ROOF MOUNTED EQUIPMENT. ROOF CURBS TO BE COMPATIBLE W/SPECIFIC ROOF TYPE AND ROOF WARRANTY REQUIREMENTS.

PLUMBING NOTES:

1. ALL HOT AND COLD WATER PIPING SHALL BE INSULATED.
2. PROVIDE READILY ACCESSIBLE VALVES AT HOT AND COLD WATER PLUMBING HEADERS.
3. PROVIDE SHUTOFF VALVES WITH UNIONS AT EACH SERVICE CONNECTION TO EACH PIECE OF EQUIPMENT. VALVE HANDLES SHALL BE PROVIDED WITH EXTENSIONS TO ALLOW HANDLE ACCESS BEYOND FACE OF INSULATION.
4. PROVIDE SHOCK ABSORBERS AT END OF EACH FIXTURE AND/OR PLUMBING HEADER.
5. ALL PIPING SHALL BE PROPERLY SUPPORTED.
6. DO NOT INSTALL PIPING IN ELECTRIC ROOMS OR DIRECTLY ABOVE ELECTRICAL EQUIPMENT.
7. GRADE MAIN HORIZONTAL DRAINAGE PIPING 1/8" MIN TO 1/4" PER FOOT UNLESS OTHERWISE NOTED. MAIN SANITARY PIPING THROUGH THE BUILDING IS DESIGNED FOR 1/8" PER FOOT. SLOPE OF PIPING MAY BE ADJUSTED AS REQUIRED TO MEET ELEVATION OF EXISTING SANITARY MAIN PIPING IN COMPLIANCE WITH IPC REQUIREMENTS. VERIFY EXISTING SANITARY ELEVATION PRIOR TO CONSTRUCTION AND COORDINATE NEW PIPING TO ALLOW PROPER SLOPE IN THE ENTIRE SYSTEM PER IPC REQUIREMENTS.
8. INSTALL PIPING TO ALLOW FOR EXPANSION & CONTRACTION WITHOUT STRESSING PIPING OR CONNECTED EQUIPMENT.
9. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER ON ALL CONNECTIONS OF NONPOTABLE WATER TO POTABLE WATER.

DOMESTIC WATER - 150R OF DESIGN PRESSURE/NOT LESS THAN 150 PSIG
SANITARY - 10' STATIC HEAD
NATURAL GAS - 25 PSIG
11. PROVIDE ALL GAS TRIM ITEMS PER MANUFACTURER'S INSTRUCTIONS, INCLUDING ALL VALVING, DIRTLEG, ETC. WHERE GAS DISTRIBUTION PIPING IS AT ELEVATED PRESSURE, PROVIDE GAS COCK AND REGULATOR TO REDUCE PRESSURE PRIOR TO EQUIPMENT OR LOW PRESSURE BRANCH PIPING CONNECTION. ANY REGULATORS LOCATED INDOORS ARE TO BE VENTED TO THE EXTERIOR OF THE BUILDING OR PROVIDED WITH VENT LIMITING DEVICES PER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH CODE REQUIREMENTS.
12. PROVIDE ACCESS PANEL FOR EQUIPMENT OR ISOLATION VALVES IN LOCATIONS AS REQUIRED TO MAINTAIN ACCESSIBILITY. PROVIDE MINIMUM SIZE REQUIRED FOR FULL MAINTENANCE ACCESS. VERIFY WALL OR CEILING CONSTRUCTION REQUIREMENTS. ACCESS PANELS TO BE COMPATIBLE WITH WALL TYPE AND WALL RATING.
13. LOCATE FLOOR DRAINS AND CLEANOUTS TO BE EASILY ACCESSIBLE FOR MAINTENANCE. FLOOR DRAINS, FLOOR SINKS, ETC. WITH SQUARE TOPS TO BE INSTALLED SQUARE WITH ROOM OR ADJACENT EQUIPMENT SURFACES.
14. COLLECT PLUMBING VENTS FROM REMOTE FIXTURES IN CEILING SPACE AND TERMINATE GROUPINGS WITH 2" MINIMUM VTR OR VENT THRU WALL OR AS INDICATED ON PLANS. PLUMBING VENT TERMINATIONS TO BE LOCATED 10'-0" MINIMUM FROM ANY OUTSIDE AIR INTAKE LOCATIONS. VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
15. REFER TO MANUFACTURER'S INSTRUCTIONS FOR CONNECTIONS AND ADDITIONAL REQUIREMENTS FOR COMPLETE INSTALLATION OF EQUIPMENT AND DEVICES THAT ARE INSTALLED AS PART OF THIS WORK.
16. FURNISH ALL TUBING AND FITTINGS AS REQUIRED FOR ALL FINAL EQUIPMENT CONNECTIONS.
17. ROUTE ALL WATER PIPING SO AS TO AVOID THE POTENTIAL FOR FREEZING.
18. COORDINATE PIPING ROUTING AND PLACEMENT OF EQUIPMENT AND DEVICES WITH THE HVAC AND ELECTRICAL CONTRACTORS PRIOR TO INSTALLATION.
19. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.
20. COORDINATE EXACT LOCATION AND ROUTING OF ALL UNDERSLAB PIPING SYSTEMS TO AVOID CONFLICT WITH FOUNDATION, COLUMN FOOTINGS, ETC. WHILE MAINTAINING PROPER FLOWLINES.
21. COORDINATE ALL FLOOR SINKS, FLOOR DRAINS, TRENCH DRAINS, AND CLEANOUTS WITH FINISHED FLOOR ELEVATIONS TO ENSURE THEY ARE INSTALLED PLUMB AND LEVEL.
22. PLUMBING CONTRACTOR SHALL INSULATE ANY PIPING ROUTED IN EXTERIOR BUILDING WALLS TO PREVENT FREEZING. ALL ISOLATION OR BALANCING VALVES TO PIPING ROUTED IN CHASE AREAS SHALL BE READILY ACCESSIBLE FROM CEILING AREA OR THROUGH ACCESS PANELS. PROVIDE ISOLATION VALVES ON BRANCH PIPING FROM MAINS TO ISOLATED FIXTURES OR FIXTURE GROUPS.
23. ALL EXPOSED PIPING PENETRATING FINISHED WALLS SHALL BE PROVIDED WITH CHROME PLATED ESCUTCHEONS.
24. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONNECTIONS TO EQUIPMENT AS INDICATED ON THE CONTRACT DOCUMENTS PER THE RELEVANT MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH MANUFACTURER'S INFORMATION TO PROVIDE ALL REQUIRED VALVES, REGULATORS, BACKFLOW PREVENTERS FILTERS, DRAINS, TUBING AND FITTINGS FOR FINAL CONNECTION THAT ARE NOT OTHERWISE INDICATED ON THE CONTRACT DOCUMENTS.
25. ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED. ANY EXPOSED PIPING IN SERVICE AREAS SHALL BE INSTALLED IN A NEAT APPEARING MANNER AND PROPERLY SUPPORTED IN PLACE. ANY INSULATION ON EXPOSED PIPING SHALL BE PROVIDED WITH PAINTABLE SERVICE JACKET ON ALL PIPING AND FITTINGS. ALL INTERIOR OR EXTERIOR EXPOSED PIPING OR EXPOSED INSULATION SERVICE JACKET IS TO BE PAINTED. VERIFY FINAL PAINT SELECTION WITH ARCHITECT. EXPOSED AND EXTERIOR NATURAL GAS PIPING AND SUPPORTS SHALL BE PAINTED. VERIFY COLOR SELECTION WITH ARCHITECT.
26. MAKE ANY 90° CHANGES IN DIRECTION OF MAIN SANITARY SEWER PIPING WITH MULTIPLE FITTINGS OF 45° MAXIMUM.

MODIFICATIONS TO EXISTING HONEYWELL CONTROL SYSTEM:

1. DEMOLITION: EXISTING WIRING IS IN SURFACE-MOUNTED CONDUIT. EXISTING HONEYWELL SENSORS SHALL BE PROTECTED AS REQUIRED, AND SENSOR CAN REMAIN ATTACHED TO THE WIRING, ROLLED UP AND PROTECTED IN ITS EXISTING LOCATION DURING CONSTRUCTION. ALL SENSORS ARE IN GOOD WORKING CONDITION PRIOR TO CONSTRUCTION AND SHALL REMAIN IN GOOD WORKING CONDITION AFTER CONSTRUCTION IS COMPLETE.
2. WHERE EXISTING SENSORS ARE LOCATED ON WALLS TO RECEIVE NEW FURRING/GYPSUM BOARD:
 - A. REMOVE EXISTING SURFACE-MOUNTED CONDUIT. PROTECT EXISTING DEVICE AS NOTED ABOVE.
 - B. PROVIDE NEW EMPTY CONDUIT & BOX IN NEW FURRING/GYPSUM BOARD FOR FUTURE DEVICE LOCATION. DEVICE LOCATION SHALL BE ON INTERIOR WALL AT A LOCATION APPROVED BY THE OWNER. OWNER SHALL RE-INSTALL WIRING & HONEYWELL SENSOR IN CONTRACTOR-FURNISHED CONDUIT & BOX.
3. ALL NEW THERMOSTATS SHALL BE AS FOLLOWS:
 - A. HONEYWELL THERMOSTAT, NON-PROGRAMMABLE, DIGITAL, WITH BATTERY BACKUP, 1 OR 2 STAGE AS REQUIRED BY HVAC UNIT.
 - B. THERMOSTATS SHALL BE LOCATED ON INTERIOR WALL, WIRING TO BE CONCEALED IN CONDUIT, LOCATIONS TO BE APPROVED BY OWNER.
 - C. WHERE APPLICABLE, THERMOSTATS AND HONEYWELL SENSORS SHALL BE LOCATED SIDE BY SIDE.

NOTE:

PLANS ARE DIAGRAMMATIC. RELOCATION OF EQUIPMENT AND OFFSETS OF DUCTWORK AND PIPING WILL BE REQUIRED. SUBMIT FABRICATION DRAWINGS FOR ACTUAL LOCATIONS SHOWING DIMENSIONS OF ACTUAL EQUIPMENT USED.

FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, EQUIPMENT, SERVICES, AND FACILITIES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL WORK AS SHOWN ON THE PLANS AND OUTLINED IN THE SPECIFICATIONS. THE WORK SHALL ALSO INCLUDE ALL MATERIAL, EQUIPMENT, AND APPARATUS NOT SHOWN, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION OF SYSTEMS. THE DRAWINGS AND SPECIFICATIONS ARE NOT FABRICATION DRAWINGS OR STEP BY STEP INSTRUCTIONS. THEIR INTENT IS TO ESTABLISH THE MINIMUM STANDARD OF PERFORMANCE THAT IS ACCEPTABLE FOR THIS PROJECT. ALL THE WORK AND EVERY DEVICE IS NOT NECESSARILY DESCRIBED OR INDICATED. THE CONTRACTOR IS EXPECTED TO INCLUDE THESE ITEMS IN HIS BID BY HIS FORESIGHT FROM PREVIOUS EXPERIENCE OR WITH A DOLLAR CONTINGENCY AMOUNT FOR UNFORESEEN EXPENSES. THE CONTRACTOR SHOULD BE FAMILIAR WITH THE ARCHITECTURAL, STRUCTURAL, CIVIL, PLANS ETC. BEFORE MAKING A BID. FIELD MEASURING AND COORDINATING WITH OTHER TRADES IS MANDATORY.

SUPPLY AND INSTALL THE SYSTEMS INDICATED ON DRAWINGS IN A COMPLETE AND 100% WORKING ORDER, SATISFYING ALL APPLICABLE CODES.



2012 ALTERATIONS TO
MONROE ELEMENTARY SCHOOL
400 WEST COTTONWOOD
INDEPENDENT SCHOOL DISTRICT NO. 57
500 SOUTH INDEPENDENCE ENID, OKLAHOMA



DATE: 02/04/2012
REV.:

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