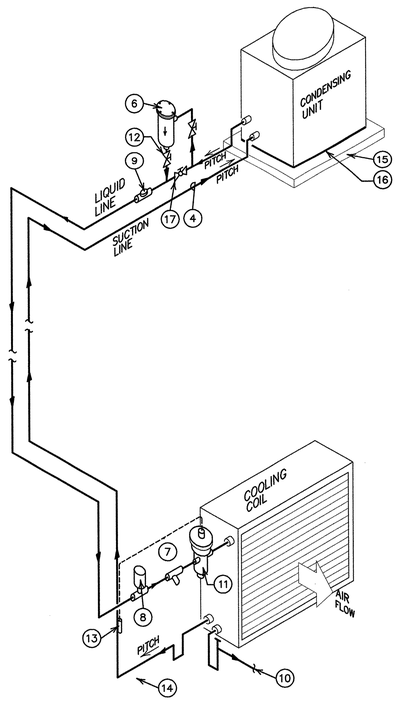
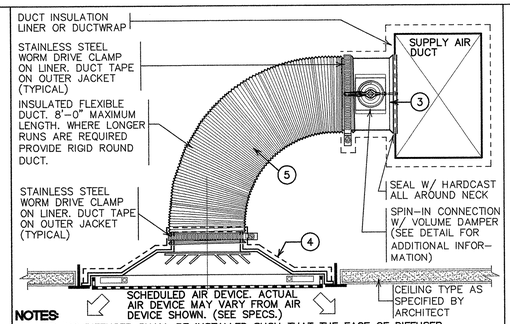


06 TYPICAL DX COOLING COIL DETAIL SCALE: NONE

NOTES:

1. ALL REFRIGERANT LINES SHALL BE SIZED BY EQUIPMENT MANUFACTURER FOR FIELD CONDITIONS, ACTUAL LENGTH AND NUMBER OF FITTINGS, ETC. PITCH LINES IN DIRECTION OF REFRIGERANT FLOW TO FACILITATE OIL RETURN TO COMPRESSOR. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFRIGERANT LINES SHALL BE TYPE "L" HARD DRAWN "ACR" TUBING THAT HAS BEEN CLEANED AND CAPPED FOR REFRIGERATION SERVICE. FITTINGS SHALL BE WROUGHT COPPER AND SHALL BE INSTALLED WITH SILVER SOLDER JOINTS. THE END OF ALL PIPING AND THE INSIDE OF ALL FITTINGS SHALL BE CAREFULLY CLEANED BEFORE JOINING. NO ACID SHALL BE USED IN CLEANING OR AS A FLUX IN SOLDERING JOINTS. BLEED NITROGEN GAS THROUGH ALL PIPING WHILE SOLDERING.
3. SUCTION LINE "P"-TRAPS SHALL BE AS PER MANUFACTURER RECOMMENDATIONS. RE: TO SPECIFICATIONS.
4. SUCTION LINE INSULATION SHALL BE EQUAL TO ARMSTRONG "ARMAFLEX". FINISH WITH 0.16" THICK ALUMINUM JACKET HAVING STRAPS @ 12" CENTER TO CENTER. INSTALL INSULATION AND METAL JACKET AS PER MANUFACTURER RECOMMENDATIONS.
5. PRIOR TO EQUIPMENT INSTALLATION FINAL LOCATION SHALL BE APPROVED BY OWNER OR PROJECT ARCHITECT.
6. REPLACEABLE CORE TYPE LIQUID LINE FILTER DRYER.
7. STRAINER / DRYER.
8. SOLENOID VALVE.
9. COMBINATION SIGHT GLASS / MOISTURE INDICATOR.
10. ROUTE DRAIN LINE TO NEAREST FLOOR DRAIN. (SEE DRAIN DETAIL)
11. THERMOSTATIC EXPANSION VALVE.
12. REFRIGERANT SHUT-OFF VALVE.
13. THERMAL EXPANSION BULB. LOCATE 18 PIPE DIAMETERS AND 2 ELBOWS FROM COOLING COIL CONNECTION.
14. SUCTION LINE TRAP TO PREVENT ERRATIC OPERATION OF THE THERMAL EXPANSION VALVE.
15. CONCRETE HOUSEKEEPING PAD. SEE ARCHITECTURAL AND STRUCTURAL DWGS. FOR ADDITIONAL INFORMATION.
16. FLEX ISOLATION PADS.
17. BY-PASS REFRIGERANT VALVE. (NORMALLY CLOSED).



05 CEILING DIFFUSER INSTALLATION DETAIL SCALE: NONE

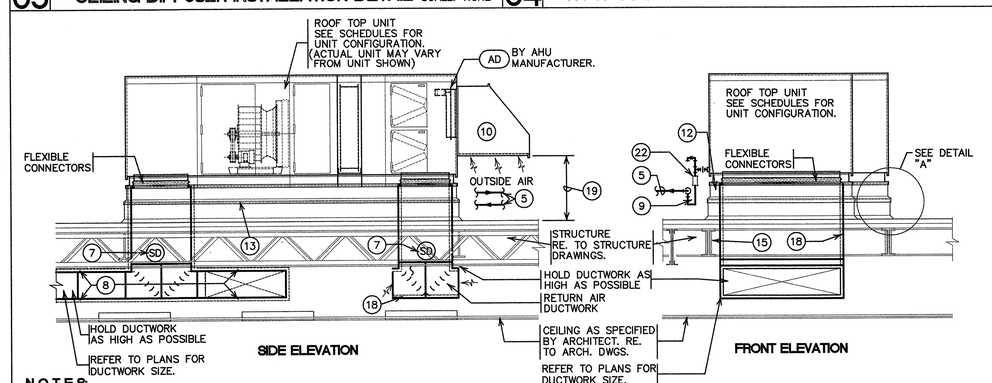
NOTES:

1. CEILING DIFFUSER SHALL BE INSTALLED SUCH THAT THE FACE OF DIFFUSER IS FLUSH WITH CEILING.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE. FLEXIBLE DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURE, CEILING SUPPORT "TEES" OR CEILING TILE.

(3) PROVIDE SQUARE TO ROUND TAP WHERE FLEXIBLE DUCT SIZE EXCEEDS DIMENSION OF RECTANGULAR DUCT. (SEE DETAIL FOR ADDITIONAL INFORMATION).

(4) FOR UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF CEILING DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.

(5) METALLIC FLEXIBLE DUCT SHALL BE USED WHERE FLEXIBLE DUCT CONNECTIONS ARE SHOWN ON THE DRAWING TO ALL AIR DEVICES INSTALLED IN INACCESSIBLE LOCATIONS SUCH AS ABOVE GYPSUM BOARD OR PLASTER CEILINGS. (REFER TO ARCH. DRAWINGS FOR CEILING TYPE.)



04 ROOF PIPING PENETRATION DETAIL SCALE: NONE

NOTES:

1. REFER TO PLANS FOR DUCTWORK CONFIGURATION FOR EACH INDIVIDUAL ROOF TOP UNIT. REFER TO PLANS, SCHEDULES AND SPECIFICATIONS FOR SPECIFIC ROOF TOP UNIT, FLEXIBLE DUCT, DUCTWORK, PIPING, STOP VALVE, CONTROLS AND ROOF TOP UNIT INSTALLATION REQUIREMENTS ETC.
2. PROVIDE FLEXIBLE CONNECTION AT UNIT DISCHARGE AND RETURN.
3. CHECK WITH ROOFING MATERIALS MANUFACTURER FOR ACCEPTABLE METHODS OF CURB FLASHING.

(4) ROOF MEMBRANE TO EXTEND UP AND OVER TOP OF CURB.

(5) ROUTE CONDENSATE DRAIN LINE TO JANITOR SINK. REFER TO PLUMBING PLANS FOR ROOF DRAIN LOCATION. REFER TO MECHANICAL PLANS FOR CONDENSATE DRAIN OPTION. MOUNT DRAIN LINE ON MIRO PIPE SUPPORTS.

(6) ROOF OPENING DIMENSION SHALL BE AS PER ROOF TOP UNIT RECOMMENDATIONS.

(7) DUCT MOUNTED SMOKE DETECTOR FOR UNITS GREATER THAN 2000 CFM. REFER TO SPECIFICATIONS FOR REQUIREMENTS.

(8) EXTERNALLY WRAPPED SHEET METAL DUCT WITH R-6 INSULATION.

(9) INSULATED, TRAPPED CONDENSATE DRAIN LINE. ROUTE DRAIN LINE TO NEAREST ROOF DRAIN. REFER TO PLUMBING DRAWING FOR DRAIN LOCATION. (FOR ABOVE ROOF INSTALLATION ONLY.)

(10) INTAKE HOOD WITH BIRD SCREEN AND AUTOMATIC DAMPER. SEE SPECIFICATIONS.

(11) NOT USED.

(12) FLEXIBLE CORNER WEATHER SEAL. (BY ROOF CURB MANUFACTURER.)

(13) FLEXIBLE WEATHER SEAL. (BY ROOF CURB MANUFACTURER.)

(14) CLOSED-CELL SPONGE WEATHERSEAL BETWEEN BOTTOM OF UNIT AND TOP OF BASE AS WELL AS BOTTOM OF BASE AND THE ROOF CURB.

(15) FRAMED ROOF OPENING, REFER TO STRUCTURAL DRAWINGS.

(16) ROOF DECK & RIGID INSULATION OR CONCRETE. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(17) SECURE UNIT BASE TO ROOF CURB WITH SHEETMETAL SCREWS, LAG BOLTS OR OTHER METHOD CONSISTENT WITH THE ROOF CURB MANUFACTURERS RECOMMENDATIONS.

(18) INTERNALLY LINED SHEET METAL DUCT WITH R-8 INSULATION (SEE SPECIFICATION FOR INSULATION TYPE).

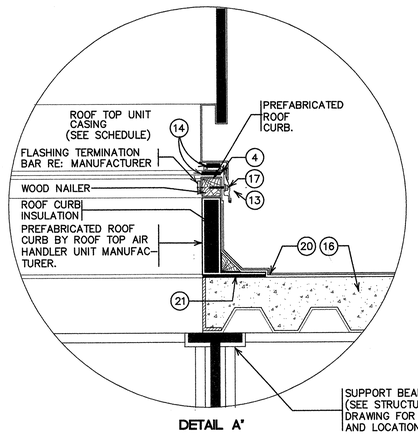
(19) 3'-0" MINIMUM DISTANCE FROM FINISHED ROOF TO OUTSIDE AIR HOOD INTAKE, OR AS PER LOCAL CODE REQUIREMENTS. WHEN DISTANCE IS LESS THAN 3'-0" FROM FINISHED ROOF, MECHANICAL CONTRACTOR SHALL INSTALL CURB EXTENSION. (CURB EXTENSION BY ROOF TOP UNIT/CURB MANUFACTURER.)

(20) ROOF MEMBRANE, REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

(21) SEAL ROOF AREA BELOW CURB WITH SILICONE CAULK.

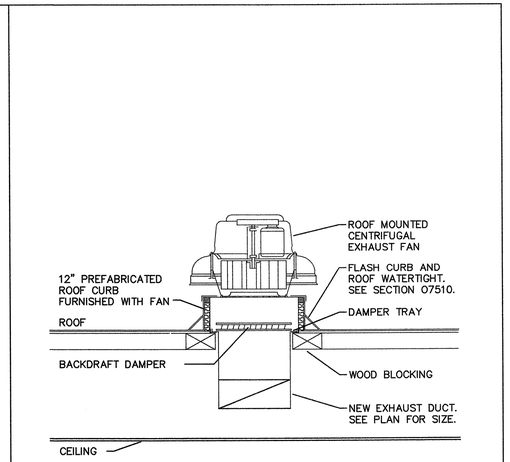
(22) PIPE FLEXIBLE CONNECTORS.

APPROVED
HVAC PLAN
THIS PLAN MUST BE KEPT ON JOB FOR ALL CITY INSPECTORS. SEPARATE PERMIT IS REQUIRED FOR HVAC.
10-6-06 NO. 393



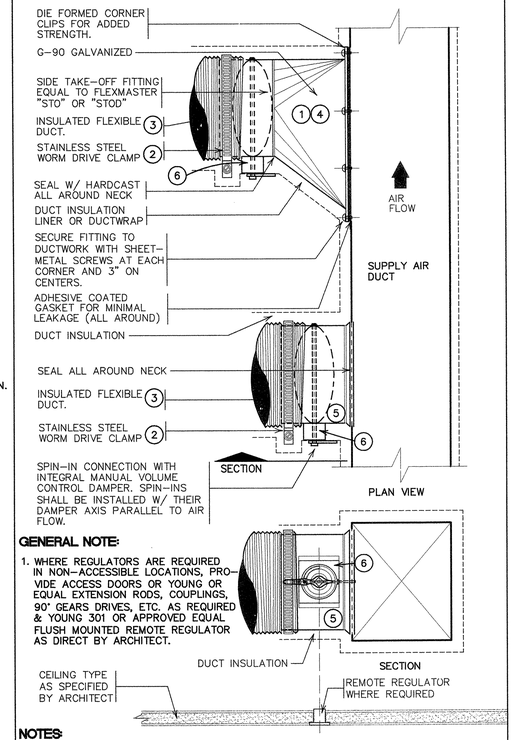
DETAIL A'

03 ROOF TOP UNIT INSTALLATION DETAIL SCALE: NONE



NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ROOF PENETRATION DETAIL.

02 EXHAUST FAN DETAIL SCALE: NONE



GENERAL NOTE:

1. WHERE REGULATORS ARE REQUIRED IN NON-ACCESSIBLE LOCATIONS, PROVIDE ACCESS DOORS OR YOUNG OR EQUAL EXTENSION RODS, COUPLINGS, 90° GEARS DRIVES, ETC. AS REQUIRED & YOUNG 301 OR APPROVED EQUAL FLUSH MOUNTED REMOTE REGULATOR AS DIRECT BY ARCHITECT.

NOTES:

(1) PROVIDE SQUARE TO ROUND TAP WHERE FLEXIBLE DUCT SIZE EXCEEDS DIMENSION OF RECTANGULAR DUCT.

(2) EXTEND INSULATION AND OUTER JACKET OVER THE SECURING CLAMP AND TAPE DOWN TO SLEEVE/COLLAR TO MAINTAIN VAPOR BARRIER INTEGRITY.

(3) METALLIC FLEXIBLE DUCT SHALL BE USED WHERE FLEXIBLE DUCT CONNECTIONS ARE SHOWN ON THE DRAWING TO ALL AIR DEVICES INSTALLED IN INACCESSIBLE LOCATIONS SUCH AS ABOVE GYSUM BOARD OR PLASTER CEILINGS. METALLIC FLEXIBLE DUCT SHALL ATTACHED USING A MINIMUM OF (3) #8 SHEET METAL SCREWS EQUALLY SPACED AROUND THE DUCT'S CIRCUMFERENCE. DUCTS LARGER THAN 12"ø SHALL HAVE A MINIMUM (5) #8 SHEET METAL SCREWS. SCREWS SHALL BE LOCATED AT LEAST 1/2" FROM THE DUCT END.

(4) PROVIDE DAMPER IF TAP SERVES AN AIR DISTRIBUTION DEVICE, NO DAMPER IS REQUIRED IF TAP SERVES A VARIABLE AIR VOLUME TERMINAL (VAV) OR FAN POWERED TERMINAL UNIT (FPTU).

(5) RIGID ROUND DAMPERS SHALL BE "FLEXMASTER" SLBO RAISED PLATFORM.

(6) FILL RAISED PLATFORM WITH LOOSE FIBERGLASS INSULATION.

01 ROUND TAP DETAIL SCALE: NONE

Community Family Centers
Centros Familiares de la Comunidad

John P. McGovern, M.D.
Community Sports & Recreation Building
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THAT'S ARCHITECTURE
2402 COMMONWEALTH #100, HOUSTON, TX 77006
TELEPHONE 713/222-1406 FAX 713/222-1506

ISSUES & REVISIONS
08/07/06 BID AND PERMIT

SHEET TITLE
MECHANICAL DETAILS

STATE OF TEXAS
CRAIG KOEHN
61132
PROFESSIONAL ENGINEER
10/6/06

E/B/E, Inc.
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PROJECT NO. 06120.00
SCALE AS NOTED
SHEET NUMBER M03.01