MECHANICAL SYMBOLS LEGEND

MECHANICAL SYMBOL	DESCRIPTION
	NEW DUCTWORK
	EXISTING DUCTWORK TO REMAIN IN PLACE.
	EXISTING DUCTWORK TO BE REMOVED
	TROFFER DIFFUSER
	SLOT DIFFUSER
	SUPPLY AIR DEVICE
	RETURN/EXHAUST AIR DEVICE
T	THERMOSTAT
TS	TEMPERATURE SENSOR
SD	SMOKE DETECTOR
(N)	NEW
(E)	EXISTING
(R)	RELOCATED
FCU	FAN COIL UNIT
FPTU	FAN POWERED TERMINAL UNIT
AHU	AIR HANDLER UNIT
O.A.	OUTSIDE AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE
N.I.C.	NOT IN CONTRACT

NOTES:

1. ALL SYMBOLS MAY NOT BE USED ON THESE DRAWINGS.

NECK SIZE SCHEDULE

CFM RANGE	SQUARE NECK SIZE	ROUND NECK SIZE
0 – 120	6 X 6	6"ø
125 – 220	8 X 8	8"ø
225 – 330	10 X 10	10"ø
335 – 450	12 X 12	12"ø
455 – 530	15 X 15	14"ø
540 – 700	15 X 15	16"ø

AIR HANDLING UNIT SCHEDULE

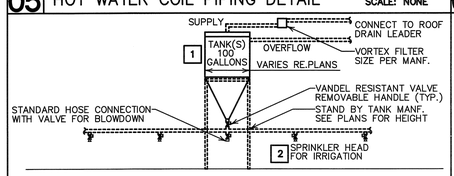
MARK	AHU–1
EVAPORATOR	
ROOM CONDITION	75°F 50% RH
CFM	9,000 SA / 900 CFM OA
MIN. ROWS	3
MAX. VELOCITY FPM	500
SENSIBLE BTUH	--
TOTAL BTUH	--
GPM CHW WTR.	--
HEAT	--
GPM HW WTR.	--
EXTERNAL S.P.	1.0
MOTOR HP	10
VOLTS/PHASE/HZ	480/3/60
FLA/MOCP	--
MANUFACTURER	AIRZONE
MODEL NO	--
NOTES	1,2

NOTES: 1. UNIT PROVIDED AND INSTALLED BY OWNER

2. CHILLED WATER 10 DEG DELTA T (44/54)
HEATING WATER 20 DEG DELTA T (140/160)

04 CHILLED WATER COIL PIPING DETAIL SCALE: NONE

05 HOT WATER COIL PIPING DETAIL SCALE: NONE



ELEVATION

NOTES:

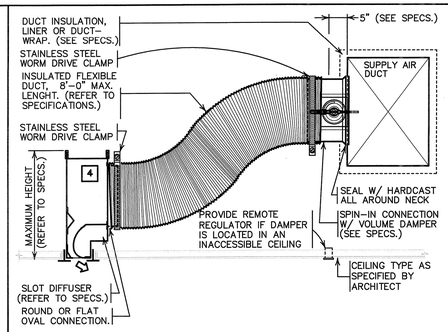
1 RAINWATER HARVESTING TANK(S), STAND/SUPPORT AND FILTER BY RAINWATER TANK MANUFACTURER/VENDOR. PROVIDE TANK OR TANKS THAT ARE COMPLIANT WITH LOCAL CODES.

2 RAINWATER HAVESTING WATER TO BE USED TO IRRIGATE PLANTERS BELOW. PROVIDE VANDAL RESISTANT VALVES WTH REMOVABLE HANDLES AT EACH SPRINKLER HEAD.

SEQUENCE:

RAINWATER FALLING ON THE ROOF ACCUMULATES INTO ROOF DRAINS WHICH IN TURN ACCUMULATE INTO ROOF DRAIN LEADERS THAT ARE CONNECTED TO THE STORM DRAIN. WE ARE TAPPING ONE OF THESE LEADERS AND DIVERTING FLOW INTO THE RAINWATER HAVESTING TANK THRU A FILTER AS SHOWN. ONCE THE RAINWATER IS IN THE TANK IT IS TO BE USED TO IRRIGATE PLANTERS BELOW VIA A MANUAL VALVE(S). ONCE THE TANK IS FULL WATER IS DIVERTED BACK TO THE STORM DRAIN VIA THE OVERFLOW PIPE. ALL EQUIPMENT IS LOCATED ON THE EXTERIOR OF THE BUILDING.

06 RAINWATER HARVESTING DETAIL

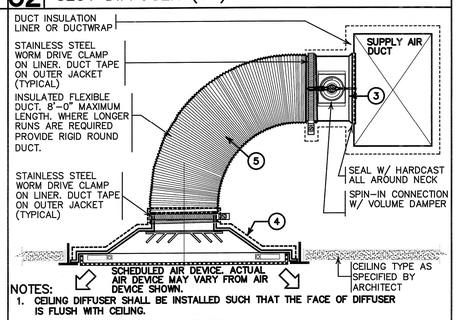


NOTES:

1. ALL EXPOSED SURFACES ARE TO BE PAINTED FLAT BLACK.
2. REFER TO SPECIFICATION FOR CONSTRUCTION DETAILS.
3. SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILE.

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

02 SLOT DIFFUSER (SD) DETAIL SCALE: NONE



NOTES:

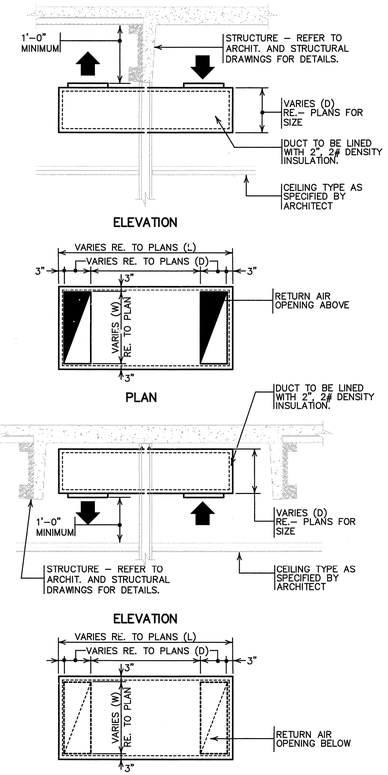
1. CEILING DIFFUSER SHALL BE INSTALLED SUCH THAT THE FACE OF DIFFUSER IS FLUSH WITH CEILING.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE. FLEXIBLE DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURE, CEILING SUPPORT "TEES" OR CEILING TILE.

3 PROVIDE SQUARE TO ROUND TAP WHERE FLEXIBLE DUCT SIZE EXCEEDS DIMENSION OF RECTANGULAR DUCT.

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 GYSUM BOARD OR PLASTER CEILINGS. (REFER TO ARCH. DRAWINGS FOR CEILING TYPE.)

03 CEILING DIFFUSER INSTALLATION DETAIL SCALE: NONE



NOTES:

1 INTERNALLY LINED RETURN AIR DUCT SECTION (LINED W/ 1", 2# DENSITY INSULATION. REFER TO SPECIFICATIONS FOR OTHER REQUIREMENTS.) THROUGH PARTITION ABOVE CEILING. PLENUM AND OPENING SHALL BE OF THE INDICATED SIZE. OPENINGS ON EACH SIDE OF PARTITION SHALL BE PROVIDED IN TOP OR BOTTOM OF PLENUM AS SHOWN. END SHALL BE CAPPED, LINED AND SEALED. (REFER TO PLANS FOR LOCATION AND SIZES.)

01 RETURN AIR BOOT DETAIL SCALE: NONE

AIR DEVICE SCHEDULE (OWNER FURNISHED)

MARK	MANUF. & MODEL	TYPE	REMARKS
	AIRZONE	FLOOR SUPPLY	FLOOR MOUNTED VARIABLE FLOW SUPPLY DIFFUSER. AIR DAMPER SHALL BE MANUALLY ADJUSTIBLE BY OCCUPANTS. SEE PLANS FOR LOCATION AND ADDITONAL INFORMATION.
	TROX FBM	FLOOR SUPPLY	FLOOR MOUNTED VARIABLE FLOW SUPPLY DIFFUSER. AIR DAMPER SHALL BE MANUALLY ADJUSTIBLE BY OCCUPANTS. SEE PLANS FOR LOCATION AND ADDITONAL INFORMATION.
	PRICE	FLOOR SUPPLY	FLOOR MOUNTED VARIABLE FLOW SUPPLY DIFFUSER. AIR DAMPER SHALL BE MANUALLY ADJUSTIBLE BY OCCUPANTS. SEE PLANS FOR LOCATION AND ADDITONAL INFORMATION.
	KRUEGER FPD–D	FLOOR SUPPLY/RETURN PERIMETER	FLOOR MOUNTED VARIABLE FLOW SUPPLY DIFFUSER. AIR DAMPER SHALL BE MANUALLY ADJUSTIBLE BY OCCUPANTS. SEE PLANS FOR LOCATION AND ADDITONAL INFORMATION.
	KRUEGER S80	CEILING OR WALL RETURN/ EXHAUST	SEE PLANS FOR SIZE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE AN OFF– WHITE ENAMEL FINISH. COORDINATE MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE OR WALL TYPE.
	KRUEGER DMD	DUCT MOUNTED SUPPLY	DUCT MOUNTED SUPPLY DIFFUSER WITH EXTRACTOR AND OBD. FINISH PER ARCHITECTS DIRECTION. SEE PLANS FOR LOCATION AND ADDITONAL INFORMATION.
	TROX TDF	CEILING SUPPLY	24X24, 12X12 LOUVERED FACE SUPPLY AIR DIFFUSER. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE AN OFF–WHITE ENAMEL FINISH. THE INNER CONE ASSEMBLY SHALL INCLUDE ADJUSTABLE VANES TO CHANGE AIRFLOW FROM HORIZ. TO VERT. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS.
	KRUEGER 6690	CEILING RETURN/EXHAUST	24x24, 12x12 PERFORATED FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE AN OFF–WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.

NOTE: SEE SPECIFICATIONS AND PLAN SHEETS FOR LOCATION, TYPE OF DIFFUSERS AND VARIANCES OF STYLE.

APPROVED HVAC PLAN
THIS PLAN MUST BE KEPT ON JOB FOR ALL CITY INSPECTORS. SEPARATE PERMIT IS REQUIRED FOR HVAC.
NO. 380
1-3-2-B/R3-A-B
9-29-2008
01054799

THIS PLAN WAS APPROVED IN THE ONE-STOP OFFICE FOR BUILDING CODE COMPLIANCE ONLY. THE ELECTRICAL, PLUMBING AND HVAC WAS NOT REVIEWED FOR CODE COMPLIANCE AND IS SUBJECT SOLELY TO FIELD INSPECTION.

intexure ARCHITECTS

1815 SOUTHMORE BLVD
HOUSTON, TEXAS 77004

P: 713.236.0071
F: 713.236.0072

www.intexure.com

STATE OF TEXAS
KEITH H. REIHL
83377
REGISTERED PROFESSIONAL ENGINEER
6-25-2008

Reihl Engineering, LLC
Sustainable Engineering for a Better Tomorrow

MEP:
Reihl Engineering, LLC
713-459-1044

LEED COMMISSIONING / STRUCTURAL:
apollobbc
713-869-0000

ISSUE INFORMATION

NO.	DATE	ISSUE DESCRIPTION
	06/24/2008	PERMIT SET
01	06/30/2008	PERMIT REVISION

CITY OF HOUSTON
CODE ENFORCEMENT
GREEN BUILDING
RESOURCE CENTER

INTERIOR RENOVATION OF THE CITY OF HOUSTON CODE ENFORCEMENT BUILDING
3300 MAIN STREET
HOUSTON, TX 77002

INTEXURE PROJECT NO. 08-010

MECHANICAL DETAILS AND SCHEDULES

M2.01