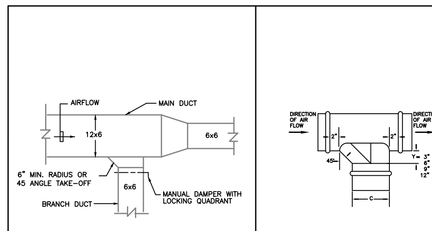
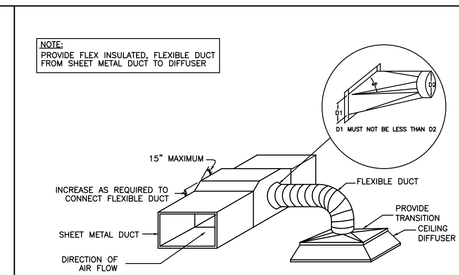


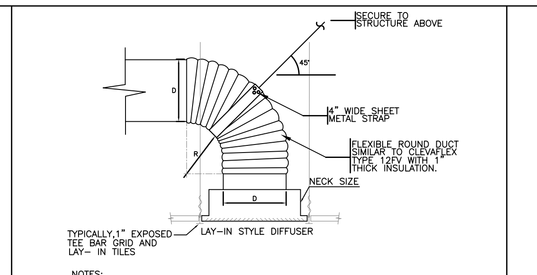




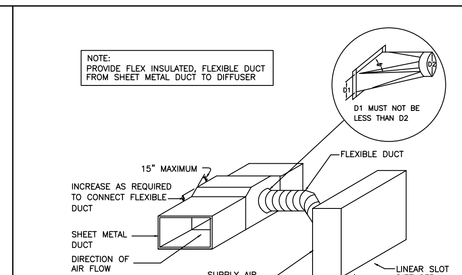
1 DUCT TAKE-OFF DETAILS NTS



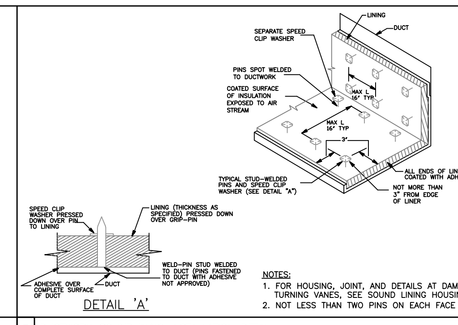

2 DUCT TAKE-OFF DETAIL 2 NTS



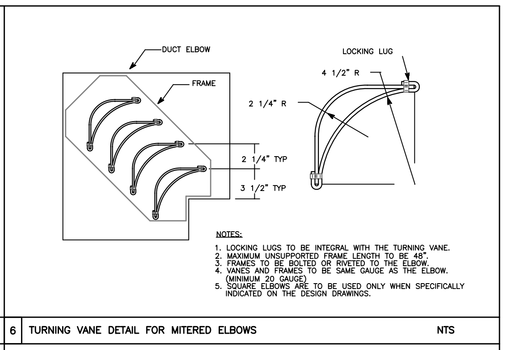

3 DIFFUSER CONNECTION DETAIL NTS



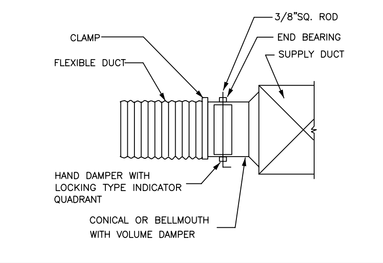

4 DUCT TAKE-OFF TO PLENUM BOX DETAIL NTS



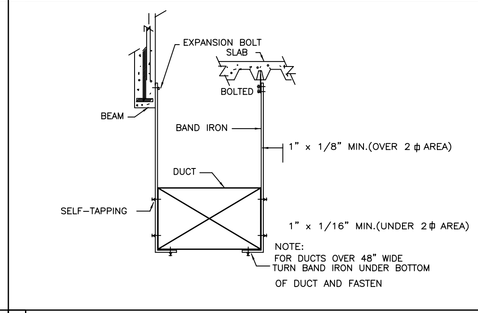

5 DUCTWORK SOUNDLINING INSTALLATION DETAIL NTS



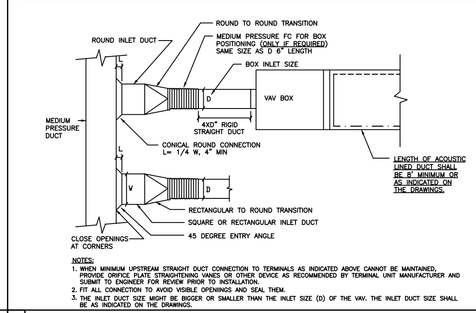

6 TURNING VANE DETAIL FOR MITERED ELBOWS NTS



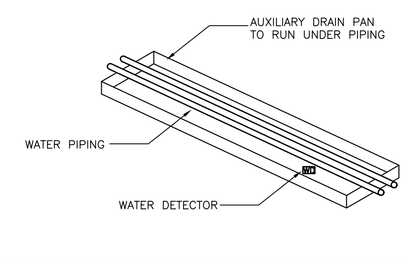

7 FLEXIBLE TO RIGID DUCT CONNECTION DETAIL NTS



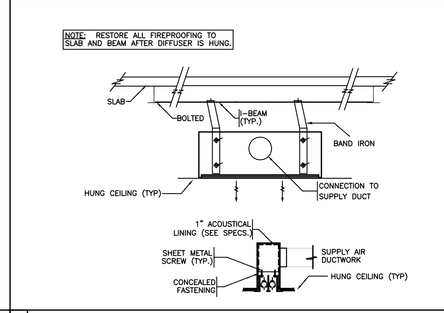

8 DUCT HANGING DETAIL NTS



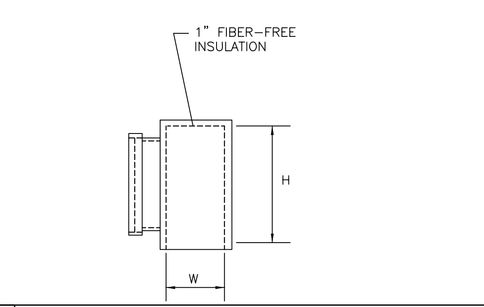

9 VAV BOX CONNECTION DETAIL NTS



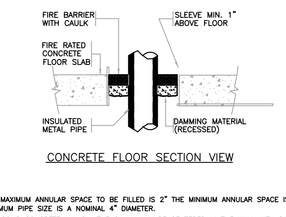

10 AUXILIARY DRAIN PAN UNDER PIPING DETAIL NTS

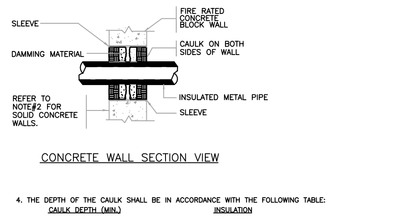



11 LINEAR SLOT DIFFUSER MOUNTING DETAIL NTS

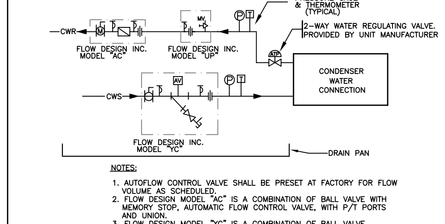



12 PLENUM BOX DETAIL NTS

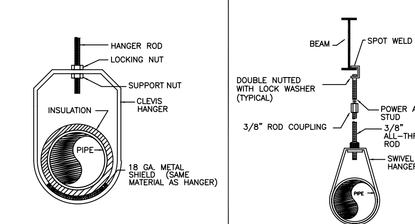


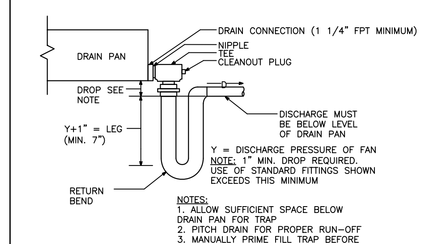

13 PENETRATION FIRESTOP FOR INSULATED METAL PIPE THROUGH A CONCRETE FLOOR OR WALL DETAIL NTS



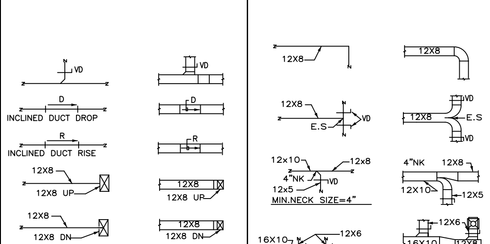

14 CONDENSER WATER COIL CONNECTION DETAIL NTS



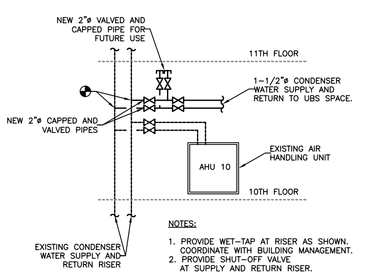

15 PIPE HANGING DETAILS NTS



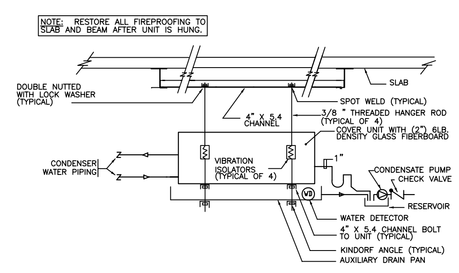

16 DRAIN WATER SEAL PIPING-BLOW-THRU UNIT



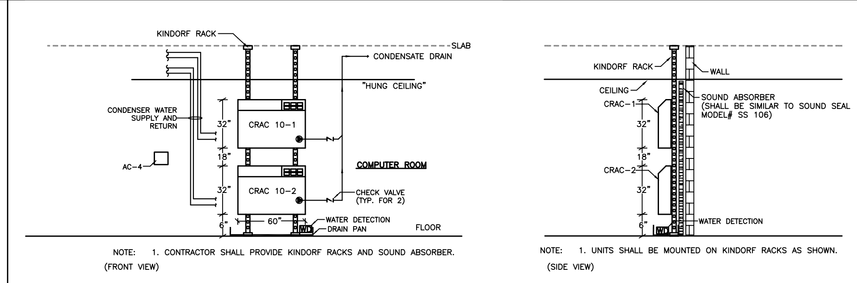

17 HVAC DUCTWORK DETAIL NTS




18 CONDENSER WATER PIPING SCHEMATIC NTS




19 HEAT PUMP UNIT HANGING DETAIL NTS







20 COMPUTER ROOM AC UNIT HANGING DETAIL NTS

## DIFFUSER SCHEDULE

| | NECK SIZE | CFM RANGE | MAX. NC | FACE SIZE | NAILOR MODEL |
|---|---|---|---|---|---|
| CD-1 | 6"ø | UP TO 100 | 30 | 24x24 | AUNI |
| CD-2 | 8"ø | 101-225 | 30 | 24x24 | AUNI |
| CD-3 | 10"ø | 226-350 | 30 | 24x24 | AUNI |
| CD-4 | 12"ø | 351-600 | 30 | 24x24 | AUNI |

NOTES:
1. ALL DIFFUSERS SHALL BE OF ALUMINUM CONSTRUCTION.
2. FINAL FINISH FOR DIFFUSERS SHALL BE COORDINATED WITH ARCHITECT.

## FLOW BAR LINEAR DIFFUSER SCHEDULE

| | NO. OF SLOTS | ACTIVE LENGTH | SLOT WIDTH | PLENUM NECK SIZE | CFM RANGE | NAILOR | | REMARKS |
|---|---|---|---|---|---|---|---|---|
| | | | | | | DIFFUSER | PLENUM | |
| FLD-1 | 1 | 48" | 1" | 10"ø | 141 - 220 | FLH10 | FLPI10 | SUPPLY |
| FLD-2 | 1 | 48" | 1" | | | FLH10 | | RETURN |
| | | | | | | | | |

NOTES:
1. PLENUM BOX SHALL BE FIBER-FREE SOUND-LINED.
2. SLOT LINEAR DIFFUSER PLENUM SHALL BE SUPPORTED BY BUILDING STRUCTURE.
3. LENGTH OF RETURN SHALL BE AS SHOWN ON DRAWING.

## COMPUTER ROOM AIR CONDITIONING UNIT SCHEDULE

| UNIT NO. | SERVICE | NOMINAL TON | EVAPORATOR DATA @ LOW FAN SPEED, 72'F DB/50% RH | | | | | | CONDENSING UNIT | | | LIEBERT DATAMATE MODEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SUPPLY CFM | HP | FAN ELECT. (V/PH/HZ) | DX COOLING CAPACITY SENS MBH | DX COOLING CAPACITY TOTAL MBH | ELECTRIC REHEAT (KW) | FLOW RATE (GPM) | ΔP (PSI) | TOTAL HEAT OF REJ. | |
| CRAC 10-1&2 | IDF 10.35 | 1.5 | 750 | 0.16 | 208/1/60 | 14.8 | 17.8 | 2.7 | 4.1 | 7.2 | 24.9 MBH | DME020EP03 |

## WATER SOURCE HEAT PUMP UNIT SCHEDULE

| UNIT TAG | SUPPLY AIR, CFM | MOTOR HP | E.S.P. (IN.WG.) | WATER FLOW | | COOLING | | | | | | HEATING | | | | ELECTRICAL DATA | TRANE | OPER. WEIGHT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | FLOW, GPM | P.D., FT. | ENT. AIR DB F | ENT. AIR WB F | TOTAL CAPACITY, MBH | SENSIBLE CAPACITY, MBH | ENT. WATER TEMP (DEG F) | LVG. WATER TEMP (DEG F) | ENT. AIR DB F | TOTAL CAPACITY, MBH | ENT. WATER TEMP (DEG F) | LVG. WATER TEMP (DEG F) | V/PH/HZ | MODEL NO. | (LBS.) | |
| HP 10-1 | 600 | 0.33 | 0.67 | 4.00 | 12.02 | 76.0 | 63.0 | 17.67 | 13.70 | 85 | 96.43 | 70.0 | 22.45 | 70.0 | 61.42 | 265/1/60 | GEH-0187 | 248 | NEW |
| | | | | | | | | | | | | | | | | | | | |

## VAV BOX SCHEDULE (7TH FLOOR)

| TAG NO. | AIR VALVE CFM RANGE MAX | CFM RANGE MIN | CFM REQUIRED MAX | CFM REQUIRED MIN | INLET SIZE (IN.) | ELECT. DATA | NAILOR MODEL | UNIT SIZE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| VAV 7-1 | 710 | 100 | 570 | 145 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-2 | 1000 | 150 | 780 | 195 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-3 | 1435 | 205 | 920 | 230 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 7-4 | 1000 | 150 | 720 | 180 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-5 | 1000 | 150 | 740 | 185 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-6 | 1000 | 150 | 870 | 220 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-7 | 1435 | 205 | 1020 | 255 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 7-8 | 1000 | 150 | 870 | 220 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-9 | 1000 | 150 | 630 | 160 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-10 | 1435 | 205 | 1005 | 250 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 7-11 | 1000 | 150 | 720 | 180 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-12 | 1000 | 150 | 660 | 165 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-13 | 1435 | 205 | 1135 | 285 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 7-14 | 710 | 100 | 475 | 120 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-15 | 710 | 100 | 500 | 125 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-16 | 710 | 100 | 550 | 140 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-17 | 1000 | 150 | 700 | 175 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-18 | 710 | 100 | 550 | 140 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-19 | 500 | 70 | 275 | 75 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 7-20 | 710 | 100 | 400 | 100 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-21 | 710 | 100 | 400 | 100 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 7-22 | 500 | 70 | 275 | 75 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 7-23 | 1000 | 150 | 775 | 195 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 7-24 | 710 | 100 | 475 | 120 | 07 | 120/1/60 | 3100 | 07 | NEW |
| | | | | | | | | | |

NOTES:
1. DDC CONTROLLERS SHALL BE PURCHASED FROM THE BUILDING CONTROL VENDOR AND MOUNTED IN THE FACTORY BY THE VAV MANUFACTURER.
2. ALL TERMINAL UNITS ARE TO BE TIED INTO BUILDING MANAGEMENT SYSTEM (BMS).

## VAV BOX SCHEDULE (10TH FLOOR)

| TAG NO. | AIR VALVE CFM RANGE MAX | CFM RANGE MIN | CFM REQUIRED MAX | CFM REQUIRED MIN | INLET SIZE (IN.) | ELECT. DATA | NAILOR MODEL | UNIT SIZE | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| VAV 10-1 | 710 | 100 | 570 | 145 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-2 | 1000 | 150 | 780 | 195 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-3 | 1435 | 205 | 1100 | 375 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-4 | 500 | 70 | 380 | 95 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 10-5 | 1000 | 150 | 780 | 195 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-6 | 1000 | 150 | 660 | 165 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-7 | 1435 | 205 | 1020 | 255 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-8 | 1435 | 205 | 1020 | 255 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-9 | 1000 | 150 | 630 | 160 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-10 | 1435 | 205 | 1185 | 300 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-11 | 1435 | 205 | 890 | 225 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-12 | 1435 | 205 | 865 | 215 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-13 | 1435 | 205 | 875 | 220 | 10 | 120/1/60 | 3100 | 10 | NEW |
| VAV 10-14 | 500 | 70 | 275 | 80 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 10-15 | 1000 | 150 | 625 | 160 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-16 | 710 | 100 | 500 | 125 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-17 | 710 | 100 | 425 | 105 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-18 | 1000 | 150 | 700 | 175 | 08 | 120/1/60 | 3100 | 08 | NEW |
| VAV 10-19 | 500 | 70 | 275 | 80 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 10-20 | 710 | 100 | 500 | 125 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-21 | 710 | 100 | 550 | 135 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-22 | 710 | 100 | 500 | 125 | 07 | 120/1/60 | 3100 | 07 | NEW |
| VAV 10-23 | 500 | 70 | 350 | 90 | 06 | 120/1/60 | 3100 | 06 | NEW |
| VAV 10-24 | 710 | 100 | 575 | 145 | 07 | 120/1/60 | 3100 | 07 | NEW |
| | | | | | | | | | |

NOTES:
1. DDC CONTROLLERS SHALL BE PURCHASED FROM THE BUILDING CONTROL VENDOR AND MOUNTED IN THE FACTORY BY THE VAV MANUFACTURER.
2. ALL TERMINAL UNITS ARE TO BE TIED INTO BUILDING MANAGEMENT SYSTEM (BMS).

UBS

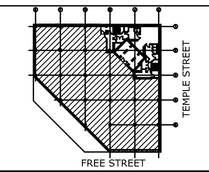
REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

| NO. | DATE | COPIES | TO WHOM |
|---|---|---|---|
| 2 | 07.13.07 | | ISSUE FOR BID |
| 1 | 07.13.07 | | ISSUE FOR PERMIT |

ISSUE

KEY PLAN




CLIFFORD DIAS, P.E., P.C.
CONSULTING ENGINEERS
7 Dey Street - Suite 1601, New York, NY 10007
Tel: 212.608.4811 Fax: 212.267.0622
e-mail: mail@diaseng.com

Ted Moudis Associates
ARCHITECTURE INTERIOR DESIGN
NEW YORK | CHICAGO
79 Madison Avenue
New York, NY 10017
212.308.4000
Fax/212.561 2020
One Financial Place
440 South LaSalle Street
Chicago, IL 60605
312.663.0130
Fax/312.663.0138
www.tedmoudis.com

| | |
|---|---|
| PROJECT NUMBER | MECH. DETAILS & SCHEDULES |
| SCALE N.T.S. | UBS ONE CITY CENTER PORTLAND, ME 04101 |
| DATE 05.16.07 | |
| PROJECT MANAGER | |
| PROJECT ARCHITECT | |
| DRAWN BY SY | M-3 |
| CHECKED BY RA | |
| CADD FILE | |