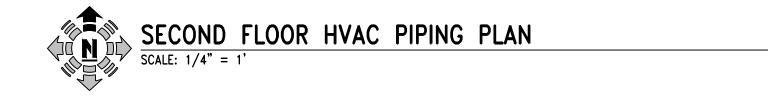


OPEN TO CORRIDOR BELOW



REVISIONS FILE INFORMATION REVISIONS DATE BY APP'D. BAE NO. DATE BY APP'D. BAE ENGINEERING REVIEW DATE: 1/20/12 DATE 8-25-11 DLD XREF'S: . APPROVAL 50% CONSTRUCTION DOCUMENTS 90% CONSTRUCTION DOCUMENTS 9-30-11 DWG. FILE: LAYOUT: DESIGNER DLD 100% CONSTRUCTION DOCUMENTS 11-3-11 ENGINEER DLD ACAD VERSION: AUTOCAD 2010 FOR CONSTRUCTION 1-20-12 CHECKED BY MTM WINDOWS XP /E APPROVED BY ZBD2234D-3.DWG PLOT SCALE: 1:1 UNITS: ARCH NREL APPROVED BY PLOT INFO.: NREL.STB BLDG. AREA ENG.



## National Renewable Energy Laboratory 1617 Cole Boulevard Golden, Colorado 80401—3393 Operated for the U.S. Department of Energy by Midwest Research Institute • Battelle • Bechtel

KEY PLAN
SCALE: NTS

THERMO-CHEM LABORATORY 101 CONVERSION TASK ORDER 13
SECOND FLOOR HVAC / PIPING PLAN

FLTB-135-M-02NREL PROJECT NO. EX2010034 a/e project no. 11261

SECOND FLOOR HVAC KEYNOTES:

1) FUTURE FOR 2ND FLOOR.

(2) ROUTE 12" SUPPLY LINE DOWN TO LAB 104C.

(3) PIPING DOWN IN UTILITY CHASE.

4 REFER TO MAU-5 RISER DIAGRAM FOR DUCTWORK CONTINUATION.

 $\langle 5 \rangle$  SEE DIAGRAM 2 ON SHEET M-03 FOR CONTINUATION.

 $\langle 6 \rangle$  UP TO EAU-5. SEE SHEET M-03 FOR CONTINUATION.

 $\langle 7 \rangle$  24"ø Exhaust down to first floor see sheet M-01 for continuation.

8 VALVES MOVED FOR DRAWING CLARITY. ROUTE PIPING UNDER DUCTWORK AND COORDINATE VALVE PLACEMENT WITH GENERAL CONTRACTOR.

© CWS&R AND HWS&R SHOWN AS EXISTING AS NEW SECTIONS WERE INSTALLED DURING DEMOLITION.

ONNECT 12" EXHAUST DUCT WITH (E) EXHAUST DUCT THAT RISES UP FROM WEST WALL OF LAB 104C.

(11) ROUTE ALL HORIZONTAL DUCT AS HIGH AS POSSIBLE.

EXISTING PIPE AND CONNECTIONS CONSTRUCTED DURING DEMOLITION PHASE. CONNECT NEW PIPE AS SHOWN.

