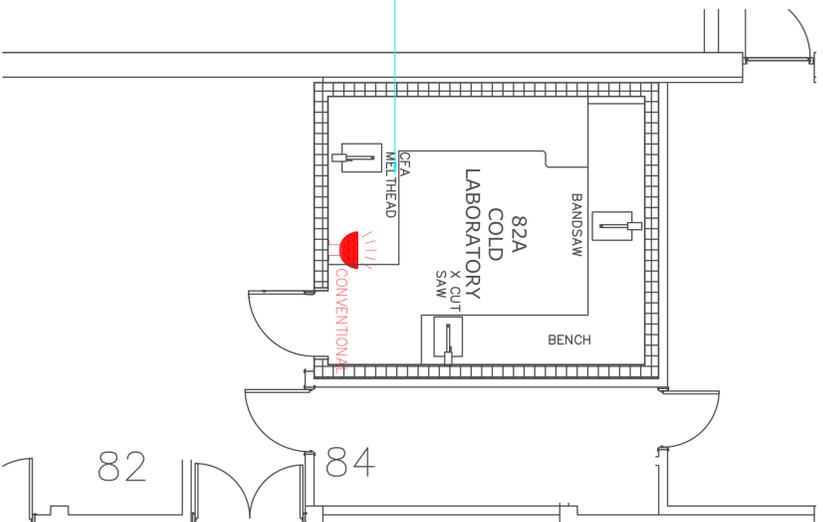


PROPOSED NEW
CONDENSERS

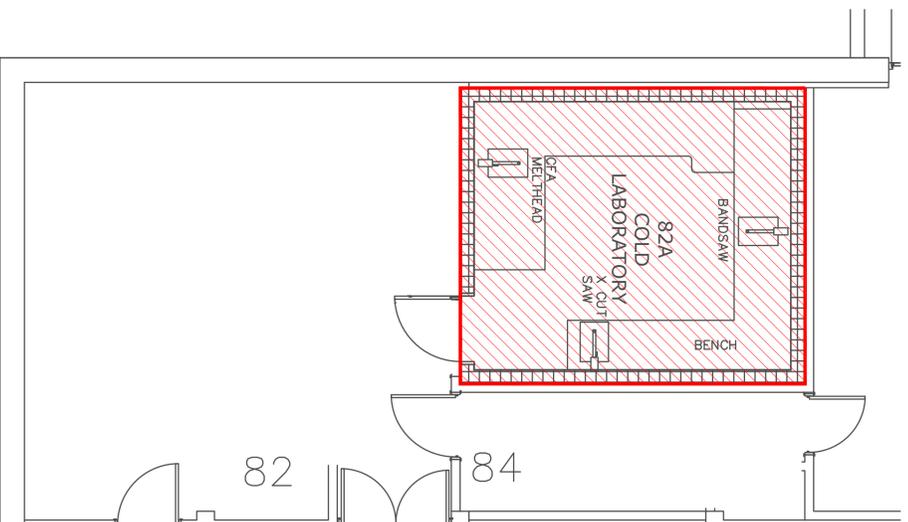
COLD LABORATORY AREA OF WORKS MARK-UP

ASPRAYING DETECTION SHALL BE PROVIDED ABOVE
COLD LABORATORY 82A



COLD LABORATORY 82A
SCIENTIFIC BUILDING 3
FIRE ALARM LAYOUT
SCALE 1:50

SUITABLY IP-RATED LED
LUMINAIRE TO COLD LAB
(LUMINAIRE CONTROL GEAR
SHALL BE LOCATED
REMOVELY FROM SPACE
WITHIN DEDICATED HOUSING
AS NECESSARY IN
ACCORDANCE WITH
MANUFACTURERS'
RECOMMENDATIONS)



COLD LABORATORY 82A
SCIENTIFIC BUILDING 3
LIGHTING LAYOUT
SCALE 1:50

REMOVABLE PANEL TO ALLOW SLIDING OF
WORKTOP TO ALLOW BANDSAW BLADE
BENCH TOP TO BE SPLIT TO ALLOW REMOVAL AND
REPLACEMENT OF BANDSAW BLADE

EXISTING COLD LABORATORY SHALL BE REMOVED
AND
REPLACED WITH NEW.

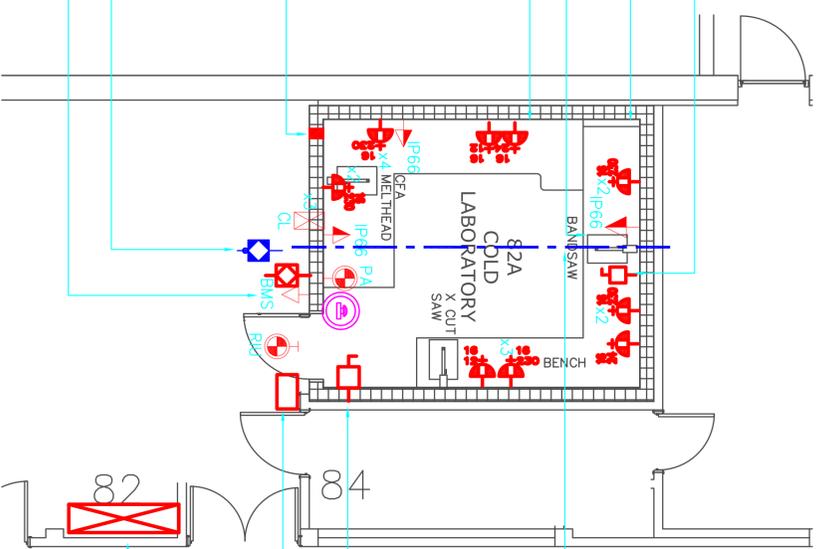
FURTHER ITEMS FOR RETENTION AND SALVAGE
SHALL BE AS PER BAS SALVAGE SCHEDULE.

FIRE ALARM CABLING TO BE RETAINED AND
MODIFIED AS NECESSARY FOR REPLACEMENT
DEVICES.

REMOVE ISOLATOR FOR BAND SAW

PROVIDE 2 NO. 12 WAY CIRCULAR
CONNECTOR UNITS, 1 NO. TO INTERNAL SIDE
OF COLD ROOM AND 1 NO. TO EXTERNAL
SIDE (ITT CANNON-MS310E14-12S (SIZE
#1) CONNECTOR UNITS SHALL BE
PROVIDED IN TO THE COLD ROOM AND
20AWG CABLES. THE ELECTRICAL
CONTRACTOR SHALL ALSO SUPPLY 4 NO. IIT
CANNON-MS310E14-12P CONNECTOR PLUGS
FOR USE BY BAS.

FOR FIRE ALARM CONVENTIONAL SOUNDER CIRCUIT
PSU
FOR TAC VISTA BMS OUTSTATION
FED FROM EXISTING LOCAL RING CIRCUIT



COLD LABORATORY 82A
SCIENTIFIC BUILDING 3
SMALL POWER AND DATA LAYOUT
SCALE 1:50

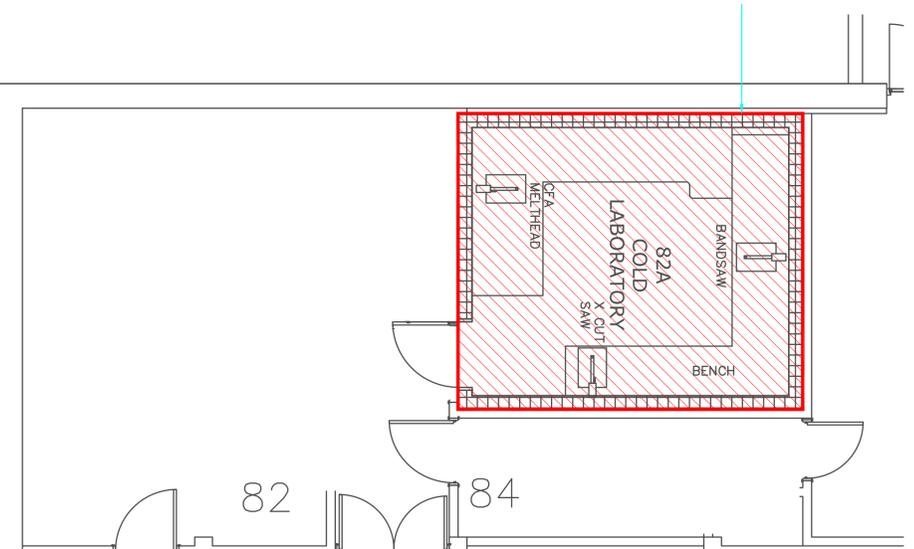
EXISTING COLD LABORATORY TO BE REMOVED AND
REPLACED WITH NEW. EXISTING REDUNDANT
SERVICES SHALL BE STRIPPED OUT.

FURTHER ITEMS FOR RETENTION AND SALVAGE
SHALL BE AS PER BAS SALVAGE SCHEDULE. TBA

FIRE ALARM CABLING TO BE RETAINED AND
MODIFIED AS NECESSARY FOR REPLACEMENT
DEVICES.

NEW CEILING HEIGHT TO BE NO LESS THAN
2265MM

MINIMUM CLEARANCE TO UNDERSIDE OF NEW
EVAPORATORS/COOLING UNITS TO BE 2045MM
SEE SPECIFICATION FOR DETAILS ON NEW
FURNITURE.



COLD LABORATORY 82A
SCIENTIFIC BUILDING 3
STRIP OUT LAYOUT
SCALE 1:50

32mm HIGH IMPACT PVC CONDUIT LINK BETWEEN
ROOMS FOR EXPERIMENTAL SERVICES RETRO FIT
CABLING. CONDUIT TO BE MOUNTED AND ROUTED
WITHIN VOID ABOVE COLD ROOM. CONDUIT SHALL BE
PRESENTED AT HIGH LEVEL AND BE COMPLETE WITH
DRAW WIRE. EACH CONDUIT END SHALL BE PROVIDED
WITH CONDUIT END BOXES C/W COVER PLATES.

EXISTING POWER & CONTROL UNIT SERVICING COLD
LABORATORY TO REMAIN. FED FROM DB/2-1/2-20/7
REDUCED EXISTING 63A FUSED MCB + SUPPLY
CABLE TO BE STRIPPED AND REWIRING TO BE
ELECTRICAL LOAD DOES NOT EXCEED EXISTING
CHARACTERISTICS.

NOTES

1. ALL EXISTING SERVICES TRAVERSING PROJECT AREA SHALL BE RETAINED AND PROTECTED. ALL SERVICES TO AREAS OUTSIDE AND THE SCOPE OF WORKS SHALL BE RETAINED AND REMAIN OPERATIONAL AT ALL TIMES. ALL NECESSARY INVESTIGATION AND MODIFICATIONS SHALL BE CARRIED OUT BY THE CONTRACTOR TO ENSURE THAT THE ABOVE IS ACHIEVED.
2. ALL COMMANDO SOCKETS SHALL BE PROVIDED C/W PLUGS.
3. ALL DATA OUTLETS SHALL BE WIRED BACK TO THE NEAREST DATA CABINET. THE ELECTRICAL SUB-CONTRACTOR SHALL ALLOW FOR 30M CABLE LENGTH FOR EACH OUTLET AND LAISE WITH THE BAS IT SPECIALIST FOR FINAL LOCATIONS.
4. CFA MELTHEAD, BANDSAW AND X CUT SAW ARE TO BE SUPPLIED BY THE BAS AND HANDED TO THE CONTRACTOR FOR FINAL POSITIONING AND WIRING.

- LEGEND FIRE ALARM**
- FIRE ALARM BREAKGLASS
 - SMOKE DETECTOR
 - S - DENOTES SOUNDER BASE
 - CV - DENOTES CEILING VOID
 - HEAT DETECTOR
 - S - DENOTES SOUNDER BASE
 - XENON BEACON
 - WALL MOUNTED SOUNDER
 - WALL MOUNTED XENON BEACON
 - CEILING MOUNTED SOUNDER BEACON
 - FIRE ALARM INTERFACE
 - FIRE ALARM PANEL
 - MAGNETIC DOOR HOLDER
 - KEY SWITCH
 - DUCT PROBE

- LEGEND LIGHTING**
- 100 LUX
 - 200 LUX
 - 300 LUX
 - 500 LUX
 - NOT IN SCOPE

- LEGEND SMALL POWER AND DATA**
- IP67 SWITCHED COMMANDO SOCKET OUTLET (SURFACE MOUNTED)
 - 4V DENOTES VOLTAGE *4 DENOTES RATING
 - EMERGENCY PANIC ALARM BUTTON
 - SINGLE SWITCHED SOCKET OUTLET
 - TWIN SWITCHED SOCKET OUTLET (WORK-TOP PEDISTAL MOUNTED)
 - SWITCHED FUSED CONNECTION UNIT
 - UNSWITCHED FUSED CONNECTION UNIT
 - 20A DOUBLE POLE KEY OPERATED SWITCH
 - ISOLATOR - RATING TO BE CONFIRMED
 - SINGLE DATA OUTLET
 - DOUBLE DATA OUTLET
 - DOUBLE DATA OUTLET (WORK-TOP PEDISTAL MOUNTED)
 - DOUBLE DATA OUTLET (IP66 RATED)
 - PANIC ALARM INDICATOR LIGHT
 - "ROOM IN USE" INDICATOR LIGHT
 - MULTI SERVICES BUSBAR DADO TRUNKING - LEVEL 2
 - INSULATED CABLE ACCESS POINT ABOVE WORKTOP LEVEL FOR CABLE LINKS INTO CONTROLLED ENVIRONMENTS
 - HIGH LEVEL
 - WEATHERPROOF

High Cross, Madingley Road, Cambridge, CB3 0ET.
Tel: (01223) 221400 Fax: (01223) 351730

British Antarctic Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL
ESTATES

PROJECT
ROOM 82a COLD LABORATORY
REPLACEMENT

TITLE
PLAN OF PROPOSED WORKS

PROJECT MANAGER
ANDREW BINNEY

DRAWN BY
AEB

CREATION DATE
04/08/16

CHKD BY
SCALE
11

DRAWING NO.
BAS/M/C018/01

REVISION NO.
B

DATE
12/10/16

REF.
B

REVISION
Control info updated

INITIAL
AB