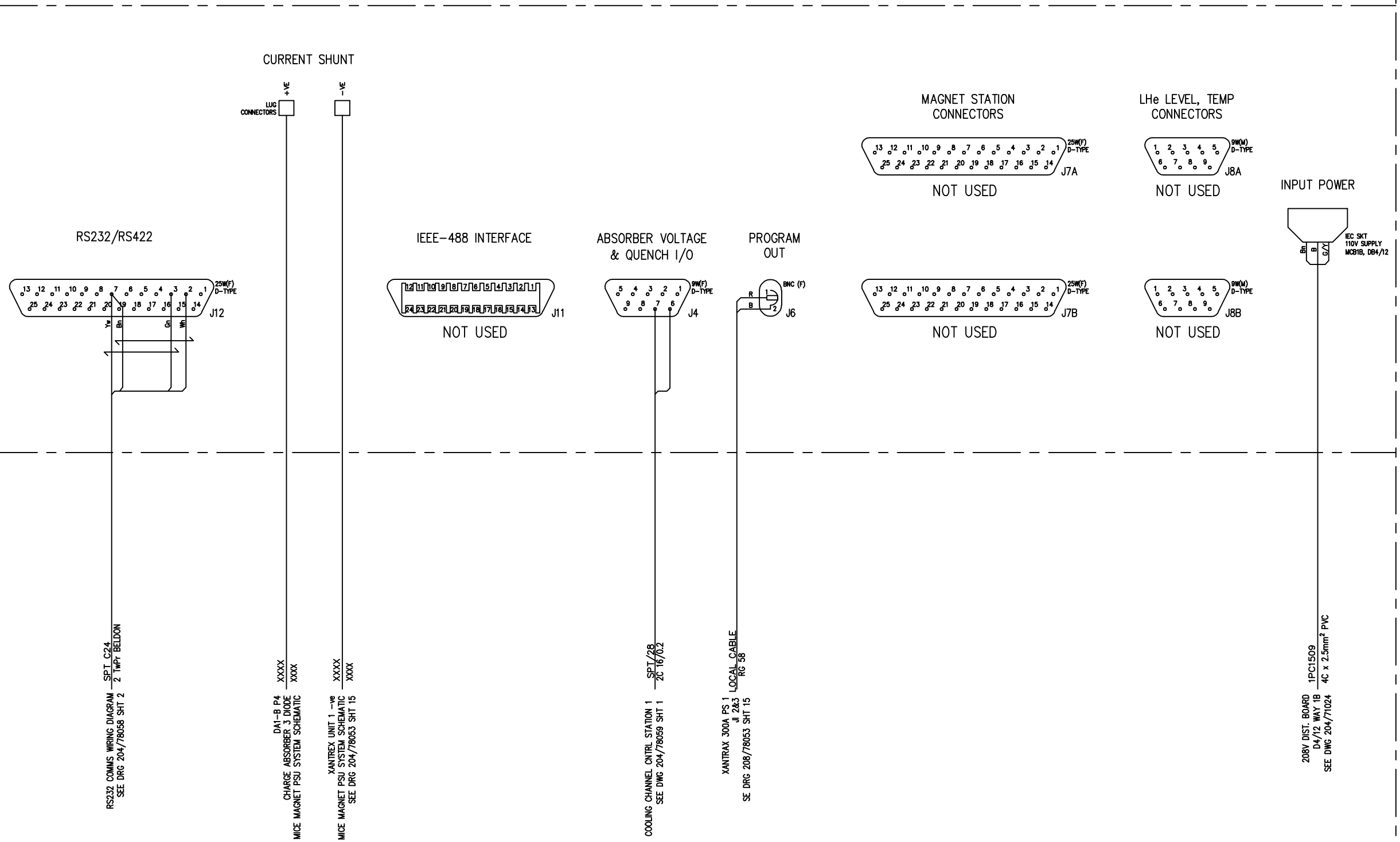
DRG No A0- 204/78053 SHT 12 OF 16

AMI 420 CONTROLLER UNIT 1



ABSORBER VOLTAGE QUENCH I/O

J4

TTL O/P (SPARE)	EXT. POWER SUPPLY
+5Vdc	EXT. POWER SUPPLY
QUENCH I/P-	GROUND
QUENCH I/P+	QUENCH O/P-
	QUENCH O/P+

RS 232/RS422

J12

NC/NC	NC/CTS-
NC/NC	NC/RTS-
NC/NC	NC/DSR-
RI/NC	NC/NC
NC/TX-	NC/NC
DTR/DTR+	DCD/DCD+
NC/NC	GND/GND
NC/NC	DSR/DRS+
NC/NC	CTS/CTS+
NC/RX-	RTS/RTS+
NC/DTR-	RD/RX+
NC/DCD-	TD/TX+
	GND/GND

MAGNET STATION CONNECTORS

J7A/B

SPARE	SPARE
SPARE	MAGNET VOLT TAP V- (B)
SPARE	MAGNET VOLT TAP V+ (Y)
SPARE	PERSISTANT SW HEATER (Bk)
SPARE	PERSISTANT SW HEATER (R)
SPARE	TEMP SENSOR V+ (B)
EXT. SW HEATER CURRENT	TEMP SENSOR V- (Y)
EXT. SW HEATER CURRENT	TEMP SENSOR I- (Bk)
SPARE	TEMP SENSOR I+ (R)
SPARE	LHe SENSOR V+ (B)
SPARE	LHe SENSOR V- (Y)
SPARE	LHe SENSOR I- (Bk)
	LHe SENSOR I+ (R)

LHe LEVEL, TEMP CONNECTORS

J8A/B

	LHe SENSOR I+ (R)
LHe SENSOR V- (Y)	TEMP SENSOR I+ (R)
LHe SENSOR I- (Bk)	TEMP SENSOR V- (Y)
LHe SENSOR V+ (B)	TEMP SENSOR I- (Bk)
NC	TEMP SENSOR V+ (B)

IEEE-488 INTERFACE

GND [LOGIC GROUND]	SHIELD
GND 11 [GND WIRE FOR ATN]	ATN [ATTENTION]
GND 10 [GND WIRE FOR SRQ]	SRQ [SERVICE REQUEST]
GND 9 [GND WIRE FOR IFC]	IFC [INTERFACE CLEAR]
GND 8 [GND WIRE FOR NDAC]	NDAC [NOT DATA ACCEPTED]
GND 7 [GND WIRE FOR NRFD]	NRFD [NOT READY FOR DATA]
GND 6 [GND WIRE FOR DAV]	DAV [DATA VALID]
REN [REMOTE ENABLE]	EOI [END OR IDENTIFY]
DIO 8 [DATA I/O LINE 8]	DIO 4 [DATA I/O LINE 4]
DIO 7 [DATA I/O LINE 7]	DIO 3 [DATA I/O LINE 3]
DIO 6 [DATA I/O LINE 6]	DIO 2 [DATA I/O LINE 2]
DIO 5 [DATA I/O LINE 5]	DIO 1 [DATA I/O LINE 1]

KEY

NC - NOT CONNECTED

SCALE 0

ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE STATED

REF DRAWINGS
204/78050 SPECTROMETER TEST RACK BLOCK DIAGRAM
204/78055 SPECTROMETER TEST RACK CANBUS/VME NETWORK
204/78057 PSU/COMMS/SIGNAL CONVERTER WIRING DIAGRAM
204/78059 SPECTROMETER TEST RACK CANBUS WIRING DIAGRAM
204/78052 SPECTROMETER TEST RACK POWER DIST DIAGRAM
204/78056 SPECTROMETER TEST RACK DAC/ADC WIRING DIAGRAM
204/78058 SPECTROMETER TEST RACK RS232 WIRING DIAGRAM

DRN	P.A.D.	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL DARESBURY LABORATORY CHESHIRE
DATE	21/03/12	
CKD	I.M.	TITLE MICE COOLING CHANNEL TEST RACK EQUIPMENT WIRING DIAGRAM
DATE	27/03/12	
CERT		
DATE		
APPD	I.M.	DRG No A0-204/78053 SHT 12 OF 16 ISSUE
DATE	27/03/12	CAD PART No

DRAWING LIST: -

CONTRACTORS COMPANY
CONTRACTORS DRG No

FIRST ISSUE A

ORIGINAL FRAME SIZE 1140mm X 790mm