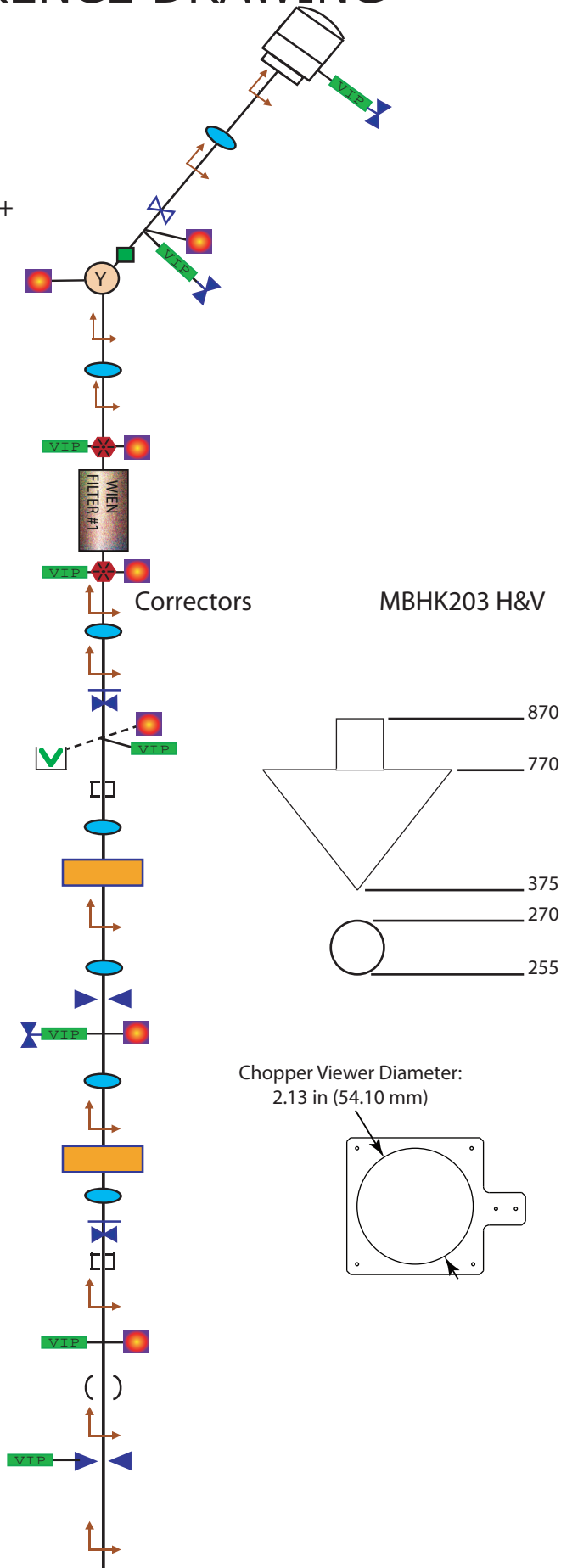


UITF QUICK REFERENCE DRAWING

Revision 16: 21 SEP 2022

Ion Pump	VIPK101
Correctors	MBHK101 H&V
Solenoid	MFHK101
Correctors	MBHK102 H&V
Beamline Valve	VBVK201
Viewer+Ion Pump+	ITVK201+VIPK201+
Roughing Valve	VRVK201*
Dipole	MDSK201
Viewer	ITVK201A
Correctors	MLHK201 H&V
Solenoid	MFBK202
Correctors	MBHK202 H&V
Viewer +	ITVK202 +
Ion Pump+	VIPK202+
Quad	MQWK202
V. Wien	MWFK203
Viewer +	ITVK203+
Ion Pump+	VIPK203+
Quad	MQWK203
Solenoid	MFQK203
Correctors	MBHK203A H&V
Manual Valve	VMVK203
Viewer +	ITVK203A+
Faraday Cup 1 +	IFYK203+
Ion Pump+	VIPK203A+
BPM	IPMK203
Solenoid	MFAK301
Chopper Cavity	RIHK301
Correctors	MLHK301 H&V
Solenoid	MFDK302A
Chopping Aperture	ISLK302
Chopper Viewer+Ion	ITVK302+VIPK302
Pump+ Rough. Valve	VRVK302*
Solenoid	MFDK302B
Correctors	MLHK302 H&V
Chopper Cavity	RIHK302
Solenoid	MFAK303
Manual Valve	VMVK401
BPM	IPMK401
Correctors	MLHK401 H&V
Viewer+	ITVK401+
Ion Pump	VIPK401
Buncher Cavity	RIBK401
Correctors	MBHK401A H&V
Aperture A3+	ISLK401+
Ion Pump	VIPK401B
Correctors	MBHK401B H&V

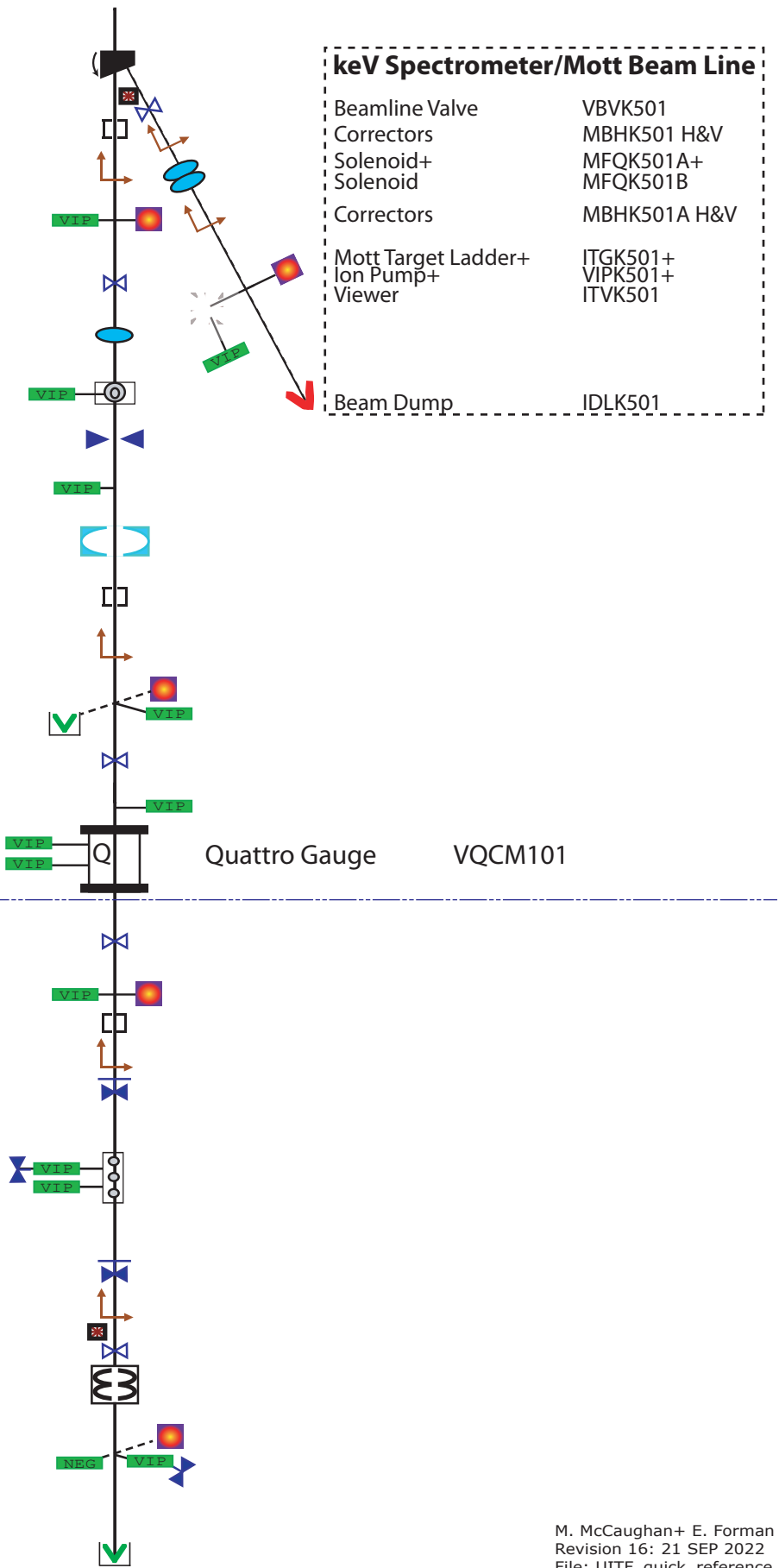


UITF QUICK REFERENCE DRAWING

Spectrometer Dipole	MDIK402
BLM	ILMK402
BPM	IPMK402
Correctors	MLHK402 H&V
Viewer+ Ion Pump	ITVK402 VIPK402
Beamline Valve	VBVK403
Solenoid	MFQK403
DP Can+ Ion Pump	VDPK403+ VIPK403
Aperture A4	ISLK403
Ion Pump	VIPK403A
Brock Cavity	ICBK403
BPM	IPMK403
Correctors	MLHK403 H&V
Viewer + Faraday Cup 2+ Ion Pump+	ITVK403A+ IFYK403+ VIPK403B+
Beamline Valve	VBVM101
Ion Pump	VIPM101B
Cryomodule [M1]	RM11+VIPM1101
Cavs+WG Ion Pumps	RM12+VIPM1102

MeV Beam Line

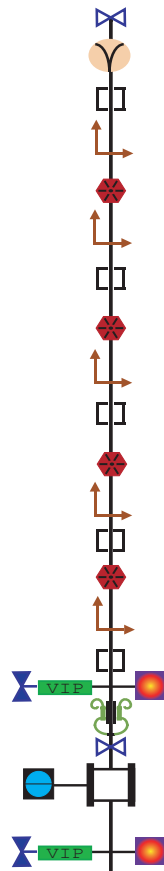
Beamline Valve	VBVM201
Viewer+ Ion Pump	ITVM201 VIPM201
BPM	IPMM201
Correctors	MLHM201 H&V
Manual Valve	VMVM301
Diff Pump	VDPM301A
Ion Pump	VIPM301A
Roughing Valve	VRVM301A*
Diff Pump	VDPM301B
Ion Pumps	VIPM301B
Diff Pump	VDPM301C
Manual Valve	VMVM401
Correctors	MLHM401 H&V
BLM	ILMM401
Fast Valve	VFVM401
PSS BCM Cavity	SBCM401
Viewer (YAG)+ Getter Pump (NEG)+ Ion Pump+	IYGM401+ VGPM401*+ VIPM401+
Roughing Valve	VRVM401*
Faraday Cup (FC3)	IFYM401



UITF QUICK REFERENCE DRAWING

Beamline Valve	VBVM501
Yao Cavity	ICVM501
BPM	IPMM501
Correctors	MLHM501 H&V
Quad	MQJM501
Correctors	MLHM502 H&V
BPM	IPMM502
Quad	MQJM502
Correctors	MLHM503 H&V
BPM	IPMM503
Quad	MQJM503
Correctors	MLHM504 H&V
BPM	IPMM504
Quad	MQJM504
Correctors	MBHM504A H&V
BPM	IPMM505
Harp	IHAM505
Valve	VBVM506

Viewer (YAG)+ Ion Pump+ Roughing Valve	IYGM506 VIPM506 VRVM506*
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Viewer (YAG)+
Ion Pump+
Roughing Valve

IYGM505
VIPM505
VRVM505*

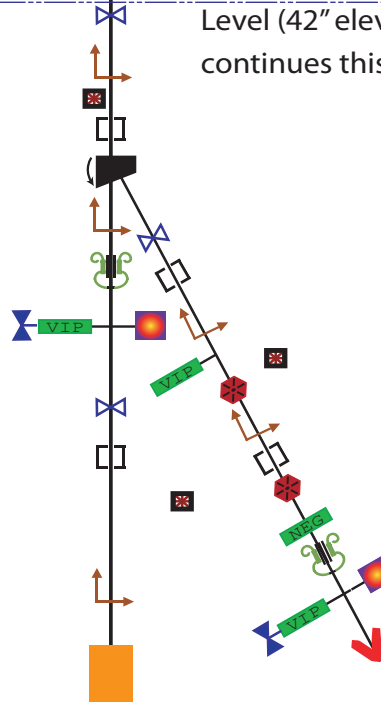
Cathode Gauge
Harmonic Kicker

VCGM506
RHKM506

Wastewater (600-) Beam Line

Beamline Valve	VBVM601
Correctors	MLHM601A H&V
BLM	ILMM601
BPM	IPMM601
Dipole	MDLM601
Correctors	MBHM601B H&V
Harp	IHAM601
Viewer+ Ion Pump+ Roughing Valve	ITVM601+ VIPM601+ VRVM601*
Beamline Valve	VBVM602
BPM	IPMM602
BLM	ILMM602
Correctors	MBHM602A H&V
Solenoid	MPTM602

Level (42" elevation) beam line section
continues this page.



MeV Spectrometer Beam Line

30° bend angle
BdL = -1673 * P

Beamline Valve	VBVM701
BPM	IPMM701
Correctors	MLHM701 H&V
Ion Pump	VIPM701
BLM	ILMM701
Quad	MQJM701
Correctors	MLHM702 H&V
BPM	IPMM702
Quad	MQJM702
Getter Pump (NEG)	VGPM703*
Harp	IHAM703
Ion Pump+ Viewer Roughing Valve	VIPM703 + ITVM703 VRVM703*
Beam Dump	IDLM703

UITF QUICK REFERENCE DRAWING

Correctors MBHM603H&V
 Quad MQJM603
 Correctors MBHM604H&V
 Quad MQJM604
 BPM IPMM604
 Viewer (YAG)+ IYGM604+
 Ion Pump+ VIPM604+
 Roughing Valve VRVM604*
 Getter Pump (NEG) VGPM604*
 Correctors MBHM605H&V

BLM
 Correctors MBHM605AH&V
 Harp IHAM605
 BPM IPMM605
 Viewer (YAG)+ IYGM605+
 Ion Pump+ VIPM605+
 Roughing Valve VRVM605*
 Faraday Cup (FC4)+ IFYM606+
 Ion Pump+ VIPM606+
 Cathode Gauge+ VCGM606+
 Getter Pump (NEG) VGPM606*
 Movable Aperture+ ISLM606
 Ion Pump VIPM606A
 Correctors MBHM606H&V
 Dump IDLM606
 Video Camera ITVM606

