UITF QUICK REFERENCE DRAWING

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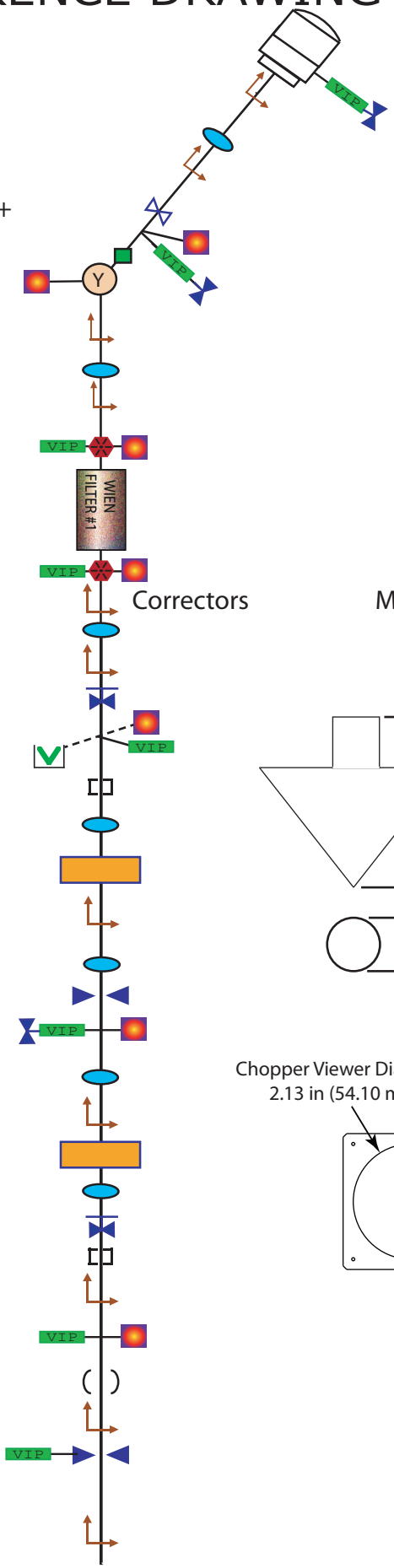
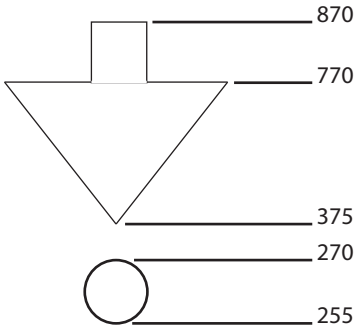
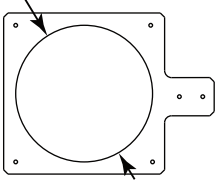
Ion Pump	VIPK101
Correctors	MBHK101 H&V
Solenoid	MFHK101
Correctors	MBHK102 H&V
Beamline Valve	VBVK201
Viewer+Ion Pump+	ITVK201+VIPK201+
Roughing Valve	VRVK201*
Dipole	MDSK201
Viewer	ITVK201A
Correctors	MBHK201 H&V
Solenoid	MFBK202
Correctors	MBHK202 H&V
Viewer + Ion Pump+ Quad	ITVK202 + VIPK202+ MQWK202
V. Wien	MWFK203
Viewer + Ion Pump+ Quad	ITVK203+ VIPK203+ MQWK203
Solenoid	MFQK203
Correctors	MBHK203A H&V
Manual Valve	VMVK203
Viewer + Faraday Cup 1 + Ion Pump+	ITVK203A+ IFYK203+ VIPK203A+
BPM	IPMK203
Solenoid	MFAK301
Chopper Cavity	RIHK301
Correctors	MLHK301 H&V
Solenoid	MFDK302A
Chopping Aperture	ISLK302
Chopper Viewer+Ion Pump+ Rough. Valve	ITVK302+VIPK302 VRVK302*
Solenoid	MFDK302B
Correctors	MLHK302 H&V
Chopper Cavity	RIHK302
Solenoid	MFAK303
Manual Valve	VMVK401
BPM	IPMK401
Correctors	MLHK401 H&V
Viewer+ Ion Pump	ITVK401+ VIPK401
Buncher Cavity	RIBK401
Correctors	MBHK401A H&V
Aperture A3+ Ion Pump	ISLK401+ VIPK401B
Correctors	MBHK401B H&V



Correctors MBHK203 H&V



Chopper Viewer Diameter:
2.13 in (54.10 mm)



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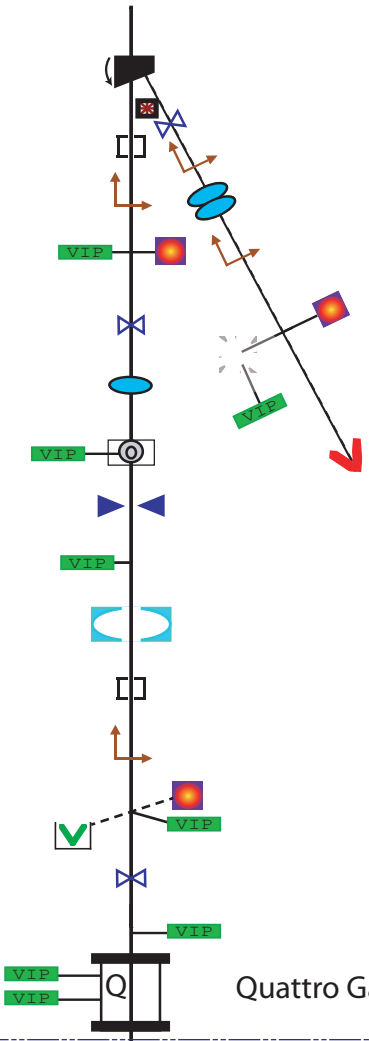
UITF QUICK REFERENCE DRAWING

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



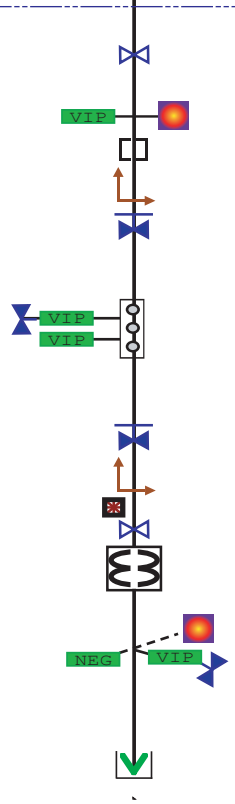
keV Spectrometer/Mott Beam Line

Beamline Valve	VBVK501
Correctors	MBHK501 H&V
Solenoid+ Solenoid	MFQK501A+ MFQK501B
Correctors	MBHK501A H&V
Mott Target Ladder+ Ion Pump+ Viewer	ITGK501+ VIPK501+ ITVK501
Beam Dump	IDLK501

Quattro Gauge VQCM101

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+ Roughing Valve	IYGM401+ VGPM401*+ VIPM401+ VRVM401*
Faraday Cup (FC3)	IFYM401



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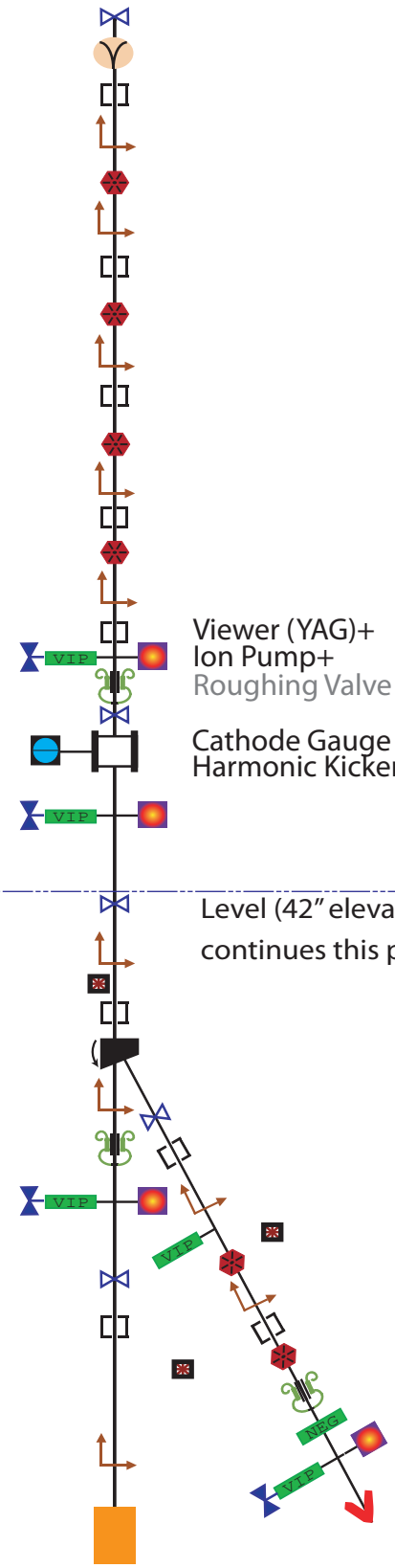
UITF QUICK REFERENCE DRAWING

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)+	IYGM506
Ion Pump+	VIPM506
Roughing Valve	VRVM506*



Viewer (YAG)+	IYGM505
Ion Pump+	VIPM505
Roughing Valve	VRVM505*
Cathode Gauge	VCGM506
Harmonic Kicker	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+	ITVM601+
Ion Pump+	VIPM601+
Roughing Valve	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
Harp	IHAM703
Getter Pump (NEG)	VGPM703*
Ion Pump+	VIPM703 +
Viewer	ITVM703
Roughing Valve	VRVM703*
Beam Dump	IDLM703

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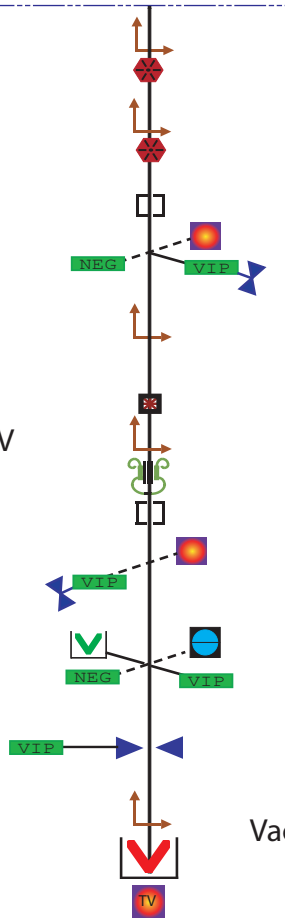
UITF QUICK REFERENCE DRAWING

Wastewater (600-) Beam Line (Cont. from p. 3)

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	ILMM603
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
Video Camera?	ITVM606



Vacuum Thin Window? VTWM604

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