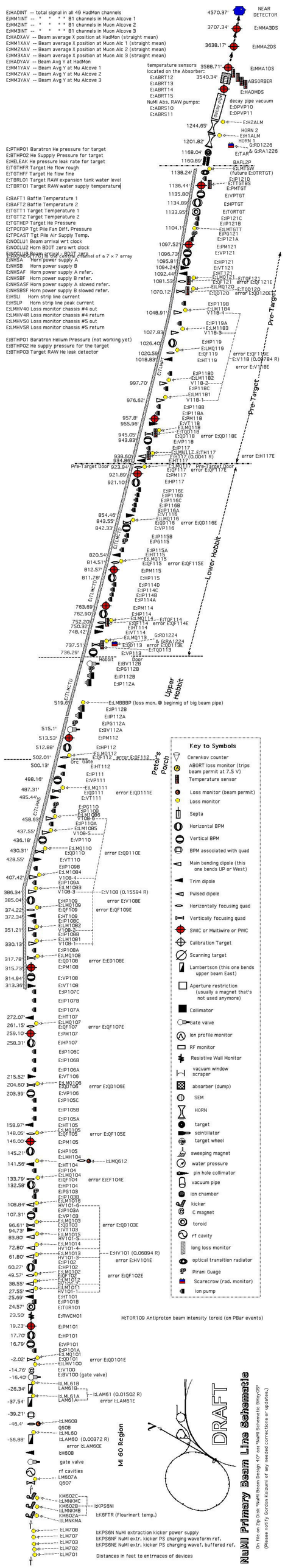
E:HADIN7 -- total signal in all 49 HadMon channels
E:MM11NT -- * * * * B1 channels in Muon Alcove 1
E:MM2IN7 -- * * * * B1 channels in Muon Alcove 2
E:MM3IN7 -- * * * * B1 channels in Muon Alcove 3
E:HADXAV -- Beam average X position at HadMon (straight mean)
E:MM1XAV -- Beam average X position at Muon Alc 1 (straight mean)
E:MM2XAV -- Beam average X position at Muon Alc 2 (straight mean)
E:MM3XAV -- Beam average X position at Muon Alc 3 (straight mean)
E:HADYAV -- Beam Avg Y at HadMon
E:MM1YAV -- Beam Avg Y at Mu Alcove 1
E:MM2YAV -- Beam Avg Y at Mu Alcove 2
E:MM3YAV -- Beam Avg Y at Mu Alcove 3
E:THPO1 Baratron He pressure for target
E:THPO2 He Suppply Pressure for target
E:HELEAK He pressure leak rate for target
E:TGTHFR Target He flow rough
E:TGTHFF Target He flow fine
E:TBRL01 Target RAW expansion tank water level
E:TBRT01 Target RAW water supply temperature
E:BAFT1 Baffle Temperature 1
E:BAFT2 Baffle Temperature 2
E:TGTT1 Target Temperature 1
E:TGTT2 Target Temperature 2
E:TGTHEP Target He Pressure
E:TPCFDP Tgt Pile Fan Diff Pressure
E:TPCAST Tgt Pile Air Supply Temp.
E:NOCLU1 Beam arrival wrt clock
E:NOCLU2 Horn BDOT zero wrt clock
E:NOCLU3 Beam arrival centroid wrt clock
E:NOCLU4 Beam arrival centroid wrt clock
E:NHSA Horn power supply A
E:NHSB Horn power supply B
E:NHSAF Horn power supply A refer.
E:NHSBF Horn power supply B refer.
E:NHSASF Horn power supply A slowed refer.
E:NHSBSF Horn power supply B slowed refer.
E:HSLI Horn strip line current
E:HSLP Horn strip line peak current
E:LMHV4O Loss monitor chassis #4 out
E:LMHV4R Loss monitor chassis #4 return
E:LMHV5O Loss monitor chassis #5 out
E:LMHV5R Loss monitor chassis #5 return
E:BTHPO1 Baratron Helium Pressure (not working yet)
E:BTHPO2 He supply pressure for the target
E:BTHPO3 Target RAW He leak detector
NEAR DETECTOR
4570.37'
E:MMA3DS
3707.34'
E:MMA2DS
3638.17'
E:MMA1DS
3588.71'
3540.34'
ABSORBER
E:HADMDS
decay pipe vacuum
E:DPVP10
E:DPVP11
decay pipe
1244.65'
E:H2ALM
HORN 2
E:H1ALM
HORN 1
1201.82'
G:RD1226
& G:RA1226
E:TAR
1168.04'
1160.89'
BAFL2P
E:LMTSW
(future E:OTRTGT)
E:IP1210
E:IT1918
E:PMTGT
E:VPTGT
E:IPTGT
E:TORTGT
E:IP121C
E:IP121B
E:LMTGTT
E:IPG121
E:IP121A
E:IP121
E:VP121
E:IP121
E:VT121
E:IP121
E:LM121 E:TOF121
E:LM120 E:TOF120
E:IP120 error E:QD120E
E:IP119B
E:LM1184
V118-4
E:IP119A
E:LM118B
V118-3
E:IP119
E:LM0119
E:QF119
E:HT119
error E:QF119E
E:V118 (0.09784 R)
error E:V118E
E:IP118D
E:LM118D
V118-2
E:IP118C
E:LM118T
V118-1
E:IP118B
E:IP118A
E:IP118
E:VT118
E:LM118
E:QD118
E:QD118 error E:QD118E
E:VP118
E:IP117
E:LM117 E:TH117
E:QD117 (0.0041 R)
error E:H117E
E:HP117
Pre-Target Door
E:LM117 Pre-Target Door
E:QF117 error E:QF117E
E:PM117
E:HP117
E:IP116E
E:IP116D
E:IP116C
E:IP116B
E:IP116A
E:VT116
E:LM0116
E:QD116 error E:QD116E
E:VP116
E:IP115B
E:PG115
E:IP115A
E:HT115
E:QF115 error E:QF115E
E:PM115
E:IP115
E:IP114D
E:IP114C
E:IP114B
E:IP114A
E:PM114
E:IP114
E:LM0114 E:TOF114
E:QF114 error E:QF114E
E:HT114
E:VT114
E:LM0113 G:RD1224
& G:RA1224
E:QD113 error E:QD113E
E:TQ0113
E:VP113
Hobbit Door
E:BV112B
E:PG112B
E:IP112B
E:IP112A
E:LMBBBP (loss mon. @ beginnig of big beam pipe)
E:IP112B
E:IP112A
E:PG112A
E:BV112A
E:PM112
E:HP112
E:LM0112
E:QF112 error E:QF112
Orc Gate
E:HT112
E:PM111
E:VP111
E:LM0111
E:QD111 error E:QD111E
E:VT111
E:PG110
E:IP110B
E:IP110A
E:LM108S
V108-5
E:VP110
E:LM0110
E:QD110 error E:QD110E
E:VT110
E:IP109B
E:LM1084
V108-4
E:IP109A
E:LM1083
V108-3 E:V108 (0.15594 R)
E:HP109 error E:V108E
E:LM0109
E:QF109 error E:QF109E
E:HT109
E:IP108C
E:LM1082
V108-2
E:IP108B
E:LM1081
V108-1
E:IP108A
E:LM0108
E:QD108 error E:ED108E
E:PM108
E:HP108
E:VT108
E:IP107C
E:IP107B
E:IP107A
E:HT107
E:LM0107
E:QF107 error E:QF107E
E:PM107
E:HP107
E:IP106C
E:IP106B
E:IP106A
E:VT106
E:LM0106
E:QD106 error E:QD106E
E:VP106
E:IP105C
E:IP105B
E:IP105A
E:HT105
E:LM0105
E:QF105 error E:QF105E
E:PM105
E:HP105
E:LM0104 E:LMQ612
E:HT104
E:IP104
E:LM0104
E:QF104 error E:EF104E
E:IP104
E:IP103
E:IP103B
E:LM1018
HV101-6
E:IP103A
E:VP103
E:LM0103
E:QD103 error E:QD103E
E:VT103
E:LM1015
HV101-5
E:LM1014
HV101-4
E:LM1013 E:HV101 (0.06894 R)
HV101-3 error E:HV101E
E:IP102
E:IP102
E:LM0102
E:QF102 error E:QF102E
E:LM1012
HV101-2
E:LM1011
HV101-1
E:HT101
E:IP101B
E:TOR101
E:RWCM01
E:PM101
E:HP101
E:VP101
E:IP101A
E:LM0101
E:QD101 error E:QD101E
E:LMV100
E:V100
E:BV100 (gate valve)
E:LML61B
E:LML61A
E:LM61A E:LAM61 (0.01502 R)
error E:LAM61E
E:LM60B
Q60B
E:LML60
E:LAM60 (0.00372 R)
error E:LAM60E
E:H60B
gate valve
rf cavities
LM607A
Q607
KM602C
E:LMNKMC
KM602B
E:LMNKMB
KM602A
E:LMNKMA
E:KPS6NI
E:K6FTR (Flourinert temp.)
E:LM708
E:LM707
E:LM703
E:LM702
E:LM701
Pre-Target
Pre-Target
Lower Hobbit
Upper Hobbit
Peter's Porch
M 60 Region
Key to Symbols
Cerenkov counter
ABORT loss monitor (trips beam permit at 7.5 V)
Temperature sensor
Loss monitor (beam permit)
Loss monitor
Septa
Horizontal BPM
Vertical BPM
BPM associated with quad
Main bending dipole (this one bends UP or West)
Trim dipole
Pulsed dipole
Horizontally focusing quad
Vertically focusing quad
SWIC or Multiwire or PWC
Calibration Target
Scanning target
Lambertson (this one bends upper beam East)
Aperture restriction (usually a magnet that's not used anymore)
Collimator
Gate valve
Ion profile monitor
RF monitor
Resistive Wall Monitor
vacuum window scraper
absorber (dump)
SEM
HORN
target
scintillator
target wheel
sweeping magnet
water pressure
pin hole collimator
vacuum pipe
ion chamber
kicker
C magnet
toroid
rf cavity
long loss monitor
optical transition radiator
Pirani Guage
Scarecrow (rad. monitor)
ion pump
M:TOR109 Antiproton beam intensity toroid (on PBar events)
K:PS6N NuMI extraction kicker power supply
K:PS6NF NuMI extr. kicker PS charging waveform ref.
K:PS6NF NuMI extr. kicker PS charging wavef. buffered ref.
Distances in feet to entrances of devices
DRAFT
NuMI Primary Beam Line Schematic
On file on Zip Disk "NuMI Beam Design 40" as: "NuMI Schematic 8May-05"
(Please notify Gordon Koizumi of any needed corrections or updates.)