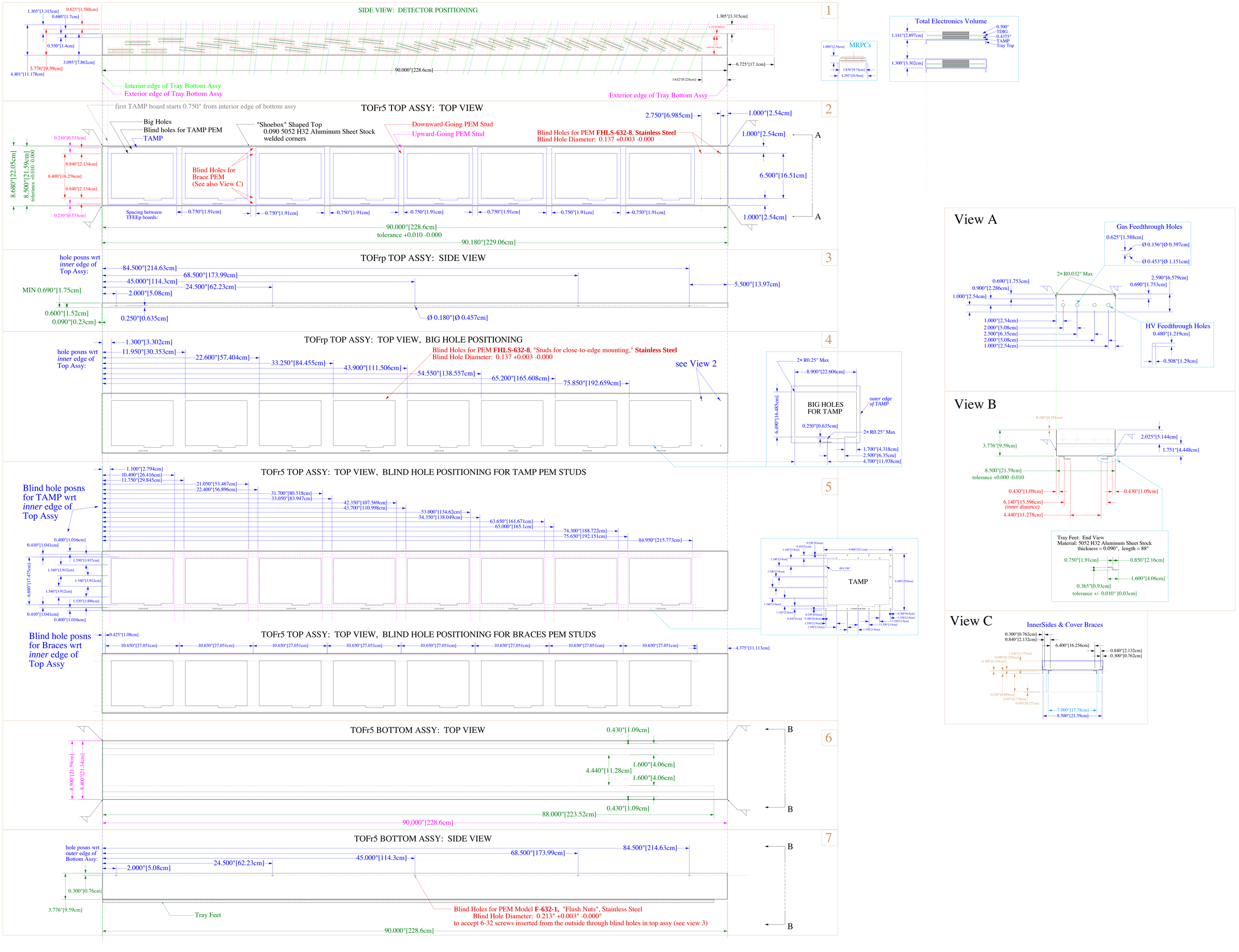
SIDE VIEW: DETECTOR POSITIONING
1.305"[3.315cm]
0.625"[1.588cm]
0.680"[1.7cm]
0.550"[1.4cm]
3.095"[7.862cm]
3.776"[9.59cm]
4.401"[11.178cm]
90.000"[228.6cm]
6.725"[17.1cm]
3.632"[9.224cm]
Interior edge of Tray Bottom Assy
Exterior edge of Tray Bottom Assy
Exterior edge of Tray Bottom Assy
1
MRPCs
1.000"[2.54cm]
3.836"[9.74cm]
4.292"[10.9cm]
Total Electronics Volume
1.141"[2.897cm]
0.500" TDIG
0.4375" TAMP
Tray Top
1.300"[3.302cm]
TOFr5 TOP ASSY: TOP VIEW
first TAMP board starts 0.750" from interior edge of bottom assy
Big Holes
Blind holes for TAMP PEM
TAMP
"Shoebox" Shaped Top
0.090 5052 H32 Aluminum Sheet Stock
welded corners
Downward-Going PEM Stud
Upward-Going PEM Stud
Blind Holes for PEM FHLS-632-8, Stainless Steel
Blind Hole Diameter: 0.137 +0.003 -0.000
Blind Holes for Brace PEM (See also View C)
2.750"[6.985cm]
1.000"[2.54cm]
1.000"[2.54cm]
6.500"[16.51cm]
1.000"[2.54cm]
A
A
0.210"[0.533cm]
0.840"[2.134cm]
6.400"[16.256cm]
0.840"[2.134cm]
0.210"[0.533cm]
8.680"[22.05cm]
8.500"[21.59cm]
tolerance +0.010 -0.000
Spacing between TFEp boards:
0.750"[1.91cm]
90.000"[228.6cm]
tolerance +0.010 -0.000
90.180"[229.06cm]
2
TOFrp TOP ASSY: SIDE VIEW
hole posns wrt inner edge of Top Assy:
84.500"[214.63cm]
68.500"[173.99cm]
45.000"[114.3cm]
24.500"[62.23cm]
2.000"[5.08cm]
5.500"[13.97cm]
MIN 0.690"[1.75cm]
0.600"[1.52cm]
0.090"[0.23cm]
0.250"[0.635cm]
Ø 0.180"[Ø 0.457cm]
3
TOFrp TOP ASSY: TOP VIEW, BIG HOLE POSITIONING
hole posns wrt inner edge of Top Assy:
1.300"[3.302cm]
11.950"[30.353cm]
22.600"[57.404cm]
33.250"[84.455cm]
43.900"[111.506cm]
54.550"[138.557cm]
65.200"[165.608cm]
75.850"[192.659cm]
Blind Holes for PEM FHLS-632-8, "Studs for close-to-edge mounting," Stainless Steel
Blind Hole Diameter: 0.137 +0.003 -0.000
see View 2
4
2× R0.25" Max
8.900"[22.606cm]
BIG HOLES FOR TAMP
outer edge of TAMP
6.490"[16.485cm]
0.250"[0.635cm]
2× R0.25" Max
1.700"[4.318cm]
2.500"[6.35cm]
4.700"[11.938cm]
TOFr5 TOP ASSY: TOP VIEW, BLIND HOLE POSITIONING FOR TAMP PEM STUDS
Blind hole posns for TAMP wrt inner edge of Top Assy
1.100"[2.794cm]
10.400"[26.416cm]
11.750"[29.845cm]
21.050"[53.467cm]
22.400"[56.896cm]
31.700"[80.518cm]
33.050"[83.947cm]
42.350"[107.569cm]
43.700"[110.998cm]
53.000"[134.62cm]
54.350"[138.049cm]
63.650"[161.671cm]
65.000"[165.1cm]
74.300"[188.722cm]
75.650"[192.151cm]
84.950"[215.773cm]
0.400"[1.016cm]
0.410"[1.041cm]
1.550"[3.937cm]
1.540"[3.912cm]
1.540"[3.912cm]
1.540"[3.912cm]
1.530"[3.886cm]
6.880"[17.475cm]
0.410"[1.041cm]
0.400"[1.016cm]
5
TAMP
8.200"[20.8cm]
TOFr5 TOP ASSY: TOP VIEW, BLIND HOLE POSITIONING FOR BRACES PEM STUDS
Blind hole posns for Braces wrt inner edge of Top Assy
0.425"[1.08cm]
10.650"[27.051cm]
4.375"[11.113cm]
TOFr5 BOTTOM ASSY: TOP VIEW
0.430"[1.09cm]
1.600"[4.06cm]
4.440"[11.28cm]
1.600"[4.06cm]
0.430"[1.09cm]
8.500"[21.59cm]
8.400"[21.34cm]
88.000"[223.52cm]
90.000"[228.6cm]
B
B
6
TOFr5 BOTTOM ASSY: SIDE VIEW
hole posns wrt outer edge of Bottom Assy:
84.500"[214.63cm]
68.500"[173.99cm]
45.000"[114.3cm]
24.500"[62.23cm]
2.000"[5.08cm]
0.300"[0.76cm]
3.776"[9.59cm]
Tray Feet
Blind Holes for PEM Model F-632-1, "Flush Nuts", Stainless Steel
Blind Hole Diameter: 0.213" +0.003" -0.000"
to accept 6-32 screws inserted from the outside through blind holes in top assy (see view 3)
90.000"[228.6cm]
B
B
7
View A
Gas Feedthrough Holes
0.625"[1.588cm]
Ø 0.156"[Ø 0.397cm]
Ø 0.453"[Ø 1.151cm]
2× R0.032" Max
0.690"[1.753cm]
0.900"[2.286cm]
1.000"[2.54cm]
2.590"[6.579cm]
0.690"[1.753cm]
1.000"[2.54cm]
2.000"[5.08cm]
2.500"[6.35cm]
2.000"[5.08cm]
1.000"[2.54cm]
HV Feedthrough Holes
0.480"[1.219cm]
0.508"[1.29cm]
View B
0.100"[0.254cm]
3.776"[9.59cm]
2.025"[5.144cm]
1.751"[4.448cm]
8.500"[21.59cm]
tolerance +0.000 -0.010
0.430"[1.09cm]
0.430"[1.09cm]
6.140"[15.596cm]
(inner distance)
4.440"[11.278cm]
Tray Feet: End View
Material: 5052 H32 Aluminum Sheet Stock
thickness = 0.090", length = 88"
0.750"[1.91cm]
0.850"[2.16cm]
1.600"[4.06cm]
0.365"[0.93cm]
tolerance +/- 0.010" [0.03cm]
View C
InnerSides & Cover Braces
0.300"[0.762cm]
0.840"[2.132cm]
6.400"[16.256cm]
0.840"[2.132cm]
0.300"[0.762cm]
7.000"[17.78cm]
8.500"[21.59cm]