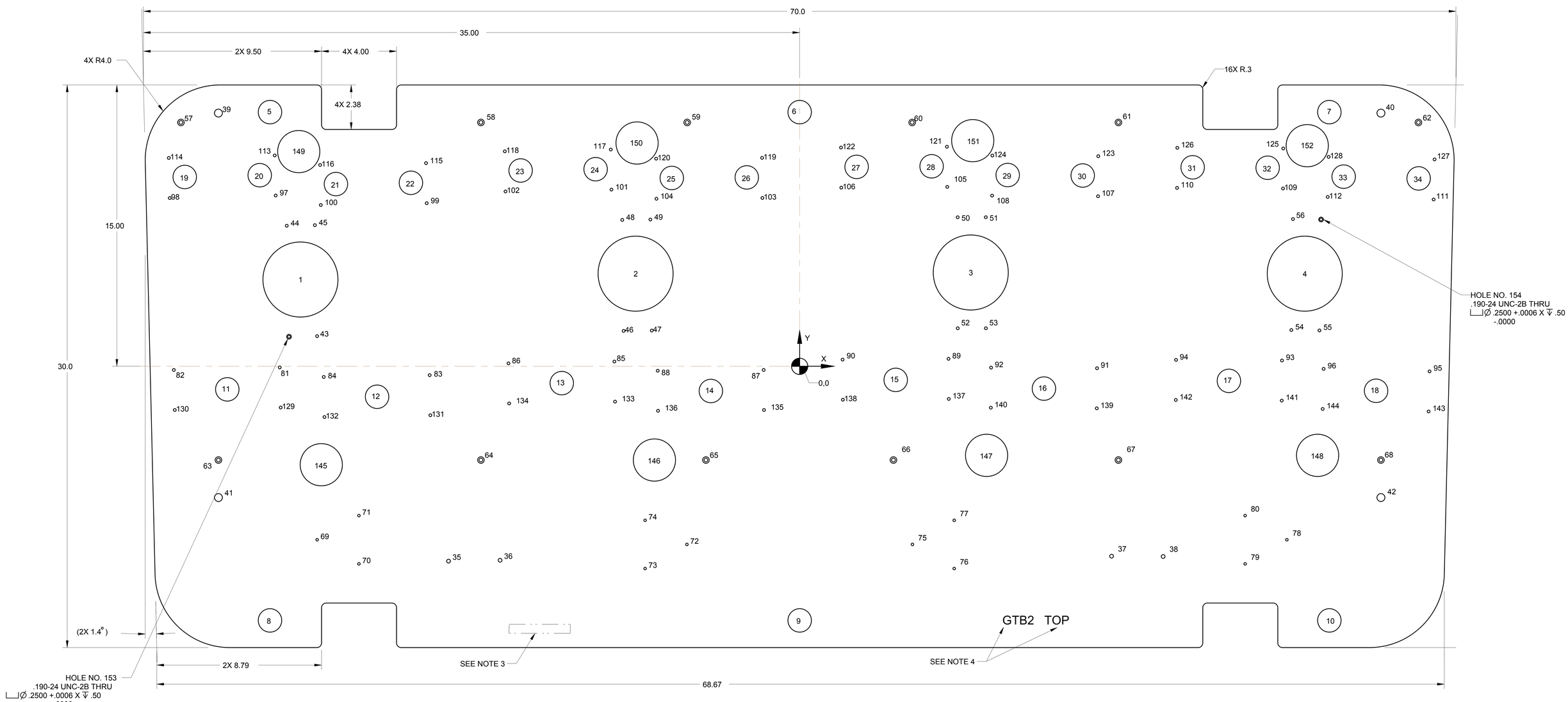
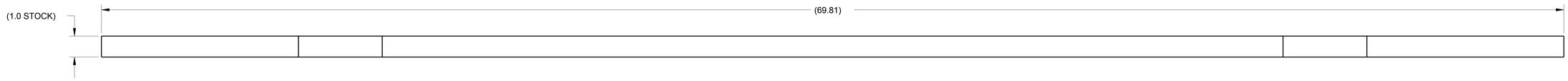
NOTES:

1. MATERIAL: PLATE ALUMINUM 1.0 THK TYPE 6061-T6 PER ASTM B209
2. MAKE FROM DXF FILE
3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX AS SHOWN.
4. VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS. LOCATE APPROX AS SHOWN.

REVISION APPROVALS								
REV	ECN NO.	DESCRIPTION	DATE	BY	CHK	DES	ENG	SUPV
A	-	INITIAL RELEASE	-	-	-	-	-	-





A	A	REV	REVISION STATUS OF SHEETS
2	1	SHEET	

2570M0041	1
USED ON DRAWING NO.	QTY. PER ASS'Y.
APPLICATION	

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
DECIMAL TOLERANCES
.XX ± .020
.XXX ± .005
ANGULAR TOLERANCE ± 1°

125 FINISH

BREAK SHARP EDGES
MAX. .03 MIN. .015

DRAWN BY	TRABOCCHI/GRAU	3/30/18
CHECKED BY	S. RESTMEYER	5/2/18
DESIGN APPROVAL	A. ARNO	5/8/18
ENG'G APPROVAL	S. TRABOCCHI	4/30/18
SUPERVISOR APPROVAL	G. MAHLER	5/3/18
CEE / CME	J. TUOZZOLO	5/2/18
DIVISION HEAD		
Q.A.		
SAFETY / RSC		
DEPARTMENT CHAIR		

COLLIDER-ACCELERATOR DEPARTMENT
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

CBETA
TOP PLATE ASSEMBLY, GTB2
PLATE, GTB2

SIZE	DRAWING NUMBER:	REV.
E	2570M0040	A

Q.A. CATEGORY	SCALE:	WEIGHT:	SHEET OF
A3	1/2	189.3	1 2

DWG NO 2570M0040 SHT 1 OF 2 REV A

CREO

HOLE TABLE			
Hole No.	X	Y	NOTE
1	-26.63	4.63	Ø4.00 THRU
2	-8.75	4.94	Ø4.00 THRU
3	9.13	5.00	Ø4.00 THRU
4	26.94	4.94	Ø4.00 THRU
5	-28.25	13.55	Ø1.25 THRU
6	0.00	13.55	Ø1.25 THRU
7	28.25	13.55	Ø1.25 THRU
8	-28.25	-13.55	Ø1.25 THRU
9	0.00	-13.55	Ø1.25 THRU
10	28.25	-13.55	Ø1.25 THRU
11	-30.53	-1.23	Ø1.25 THRU
12	-22.54	-1.62	Ø1.25 THRU
13	-12.69	-0.90	Ø1.25 THRU
14	-4.74	-1.32	Ø1.25 THRU
15	5.12	-0.73	Ø1.25 THRU
16	13.03	-1.19	Ø1.25 THRU
17	22.89	-0.78	Ø1.25 THRU
18	30.74	-1.31	Ø1.25 THRU
19	-32.80	10.09	Ø1.25 THRU
20	-28.80	10.19	Ø1.25 THRU
21	-24.73	9.71	Ø1.25 THRU
22	-20.73	9.78	Ø1.25 THRU
23	-14.88	10.44	Ø1.25 THRU
24	-10.88	10.51	Ø1.25 THRU
25	-6.82	10.04	Ø1.25 THRU
26	-2.82	10.07	Ø1.25 THRU
27	3.04	10.63	Ø1.25 THRU
28	7.04	10.66	Ø1.25 THRU
29	11.09	10.20	Ø1.25 THRU
30	15.09	10.17	Ø1.25 THRU
31	20.96	10.61	Ø1.25 THRU
32	24.96	10.59	Ø1.25 THRU
33	29.01	10.11	Ø1.25 THRU
34	33.01	10.02	Ø1.25 THRU
35	-18.73	-10.39	.250-20 UNC-2B ↧ .75
36	-15.98	-10.34	.250-20 UNC-2B ↧ .75
37	16.63	-10.13	.250-20 UNC-2B ↧ .75
38	19.38	-10.14	.250-20 UNC-2B ↧ .75
39	-31.00	13.50	.500-13 UNC-2B THRU
40	31.00	13.50	.500-13 UNC-2B THRU
41	-31.00	-7.00	.500-13 UNC-2B THRU
42	31.00	-7.00	.500-13 UNC-2B THRU
43	-25.74	1.61	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
44	-27.36	7.49	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
45	-25.86	7.52	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
46	-9.39	1.89	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
47	-7.89	1.90	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
48	-9.46	7.80	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
49	-7.96	7.82	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
50	8.43	7.94	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
51	9.93	7.95	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
52	8.43	2.03	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
53	9.93	2.03	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
54	26.22	1.93	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
55	27.72	1.91	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
56	26.31	7.85	Ø .149 THRU.190-24 UNC-2B X .75 FULL THD MIN
57	-33.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
58	-17.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
59	-6.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
60	6.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
61	17.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
62	33.00	13.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
63	-31.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
64	-17.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
65	-5.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
66	5.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
67	17.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
68	31.00	-5.00	Ø .203 ↧ .19, ⌵ Ø .350 X 120°
69	-25.74	-9.25	.164-32 UNC-2B ↧ .50
70	-23.51	-10.54	.164-32 UNC-2B ↧ .50

HOLE TABLE			
Hole No.	X	Y	NOTE
71	-23.51	-7.96	.164-32 UNC-2B ↧ .50
72	-6.02	-9.50	.164-32 UNC-2B ↧ .50
73	-8.24	-10.79	.164-32 UNC-2B ↧ .50
74	-8.24	-8.21	.164-32 UNC-2B ↧ .50
75	6.02	-9.50	.164-32 UNC-2B ↧ .50
76	8.24	-10.79	.164-32 UNC-2B ↧ .50
77	8.24	-8.21	.164-32 UNC-2B ↧ .50
78	25.99	-9.25	.164-32 UNC-2B ↧ .50
79	23.76	-10.54	.164-32 UNC-2B ↧ .50
80	23.76	-7.96	.164-32 UNC-2B ↧ .50
81	-27.73	-0.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
82	-33.38	-0.20	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
83	-19.73	-0.47	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
84	-25.38	-0.57	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
85	-9.88	0.25	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
86	-15.53	0.15	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
87	-1.92	-0.20	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
88	-7.57	-0.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
89	7.94	0.40	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
90	2.29	0.35	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
91	15.86	-0.11	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
92	10.21	-0.07	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
93	25.72	0.31	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
94	20.07	0.34	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
95	33.59	-0.27	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
96	27.94	-0.14	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
97	-27.95	9.11	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
98	-33.60	8.97	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
99	-19.89	8.69	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
100	-25.54	8.60	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
101	-10.04	9.42	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
102	-15.69	9.32	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
103	-1.99	8.97	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
104	-7.64	8.93	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
105	7.87	9.57	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
106	2.22	9.52	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
107	15.91	9.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
108	10.26	9.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
109	25.78	9.48	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
110	20.13	9.51	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
111	33.81	8.89	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
112	28.16	9.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
113	-28.00	11.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
114	-33.65	11.11	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
115	-19.93	10.83	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
116	-25.58	10.74	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
117	-10.08	11.56	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
118	-15.73	11.46	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
119	-2.00	11.11	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
120	-7.65	11.07	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
121	7.85	11.70	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
122	2.20	11.66	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
123	15.93	11.20	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
124	10.28	11.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
125	25.79	11.62	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
126	20.14	11.65	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
127	33.86	11.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
128	28.21	11.17	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
129	-27.68	-2.20	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
130	-33.33	-2.33	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
131	-19.70	-2.61	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
132	-25.35	-2.71	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
133	-9.85	-1.89	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
134	-15.49	-1.98	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
135	-1.90	-2.33	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
136	-7.55	-2.37	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
137	7.95	-1.74	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
138	2.30	-1.78	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
139	15.85	-2.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
140	10.20	-2.21	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.

HOLE TABLE			
Hole No.	X	Y	NOTE
141	25.71	-1.83	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
142	20.06	-1.80	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
143	33.54	-2.41	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
144	27.89	-2.28	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD. MIN.
145	-25.52	-5.25	Ø2.25 THRU
146	-7.75	-5.00	Ø2.25 THRU
147	9.97	-4.75	Ø2.25 THRU
148	27.62	-4.75	Ø2.25 THRU
149	-26.72	11.45	Ø2.25 THRU
150	-8.67	11.91	Ø2.25 THRU
151	9.23	12.03	Ø2.25 THRU
152	27.07	11.76	Ø2.25 THRU
153	-27.236±.002	1.576±.002	SEE F/D ZONE C8
154	27.809±.002	7.827±.002	SEE F/D ZONE E1

REV A
SHT 2 OF 2
DWG NO 2570M0040

COLLIDER-ACCELERATOR DEPARTMENT
BROOKHAVEN NATIONAL LABORATORY
UPTON, N.Y. 11973

SIZE E | DRAWING NUMBER: 2570M0040 | REV A
Q.A. CATEGORY: A3 | SCALE: - | WEIGHT: - | SHEET OF 2 2