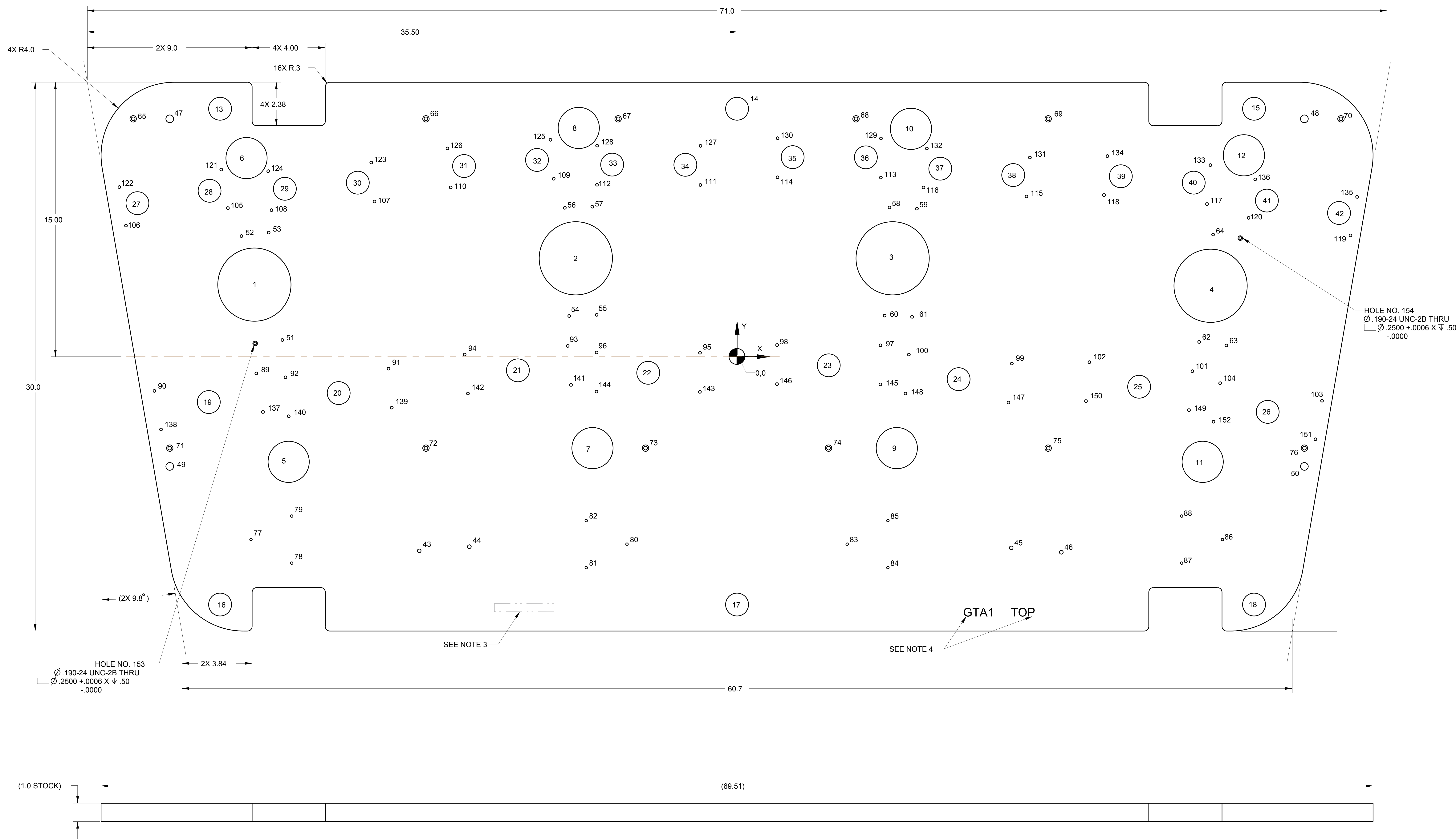


- NOTES:
1. MATERIAL: PLATE 1.0 THK. ALUMINUM TYPE 6061-T6 PER ASTM B209
 2. MAKE FROM DXF FILE
 3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130. LOCATE APPROX AS SHOWN.
 4. VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS.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

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



REV	DESCRIPTION
A	INITIAL RELEASE

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5				COLLIDER-ACCELERATOR DEPARTMENT BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973	
UNLESS OTHERWISE SPECIFIED		DRAWN BY: TRABOCCHI/GRALI 3/9/18 CHECKED BY: S. RESTMEYER 5/2/18 DESIGN APPROVAL: A. ARNO 5/8/18 DIMENSIONAL TOLERANCES ARE IN INCHES: ANG. AND APPROX. APPROVAL: S. TRABOCCHI 4/30/18 JOB: 016 APPROVAL: G. MAHLER 5/9/18 JOB: 016 APPROVAL: J. TUOZZOLO 5/2/18 DATE: 05/05/18		CBETA TOP PLATE ASSEMBLY, GTA1 PLATE, GTA1	
DIMENSIONAL TOLERANCES ARE IN INCHES: ANG. AND APPROX. APPROVAL: S. TRABOCCHI 4/30/18 JOB: 016 APPROVAL: G. MAHLER 5/9/18 JOB: 016 APPROVAL: J. TUOZZOLO 5/2/18 DATE: 05/05/18		SIZE: E DRAWING NUMBER: 2570M0013 REV: A		CATEGORY: A3 SCALE: 1/2 WEIGHT: 179.1 SHEET OF 1 2	

DWG NO 2570M0013

SHT 1 OF 1

CREO

HOLE TABLE			
HOLE NO.	X	Y	NOTE
1	-26.38	3.94	Ø 4.00 THRU
2	-8.81	5.38	Ø 4.00 THRU
3	8.50	5.38	Ø 4.00 THRU
4	25.88	3.88	Ø 4.00 THRU
5	-24.50	-5.75	Ø 2.25 THRU
6	-26.81	10.85	Ø 2.25 THRU
7	-7.90	-5.00	Ø 2.25 THRU
8	-8.65	12.50	Ø 2.25 THRU
9	8.73	-5.00	Ø 2.25 THRU
10	9.50	12.45	Ø 2.25 THRU
11	25.44	-5.75	Ø 2.25 THRU
12	27.70	11.01	Ø 2.25 THRU
13	-28.25	13.55	Ø 1.25 THRU
14	0.00	13.55	Ø 1.25 THRU
15	28.25	13.55	Ø 1.25 THRU
16	-28.25	-13.55	Ø 1.25 THRU
17	0.00	-13.55	Ø 1.25 THRU
18	28.25	-13.55	Ø 1.25 THRU
19	-28.87	-2.48	Ø 1.25 THRU
20	-21.77	-1.99	Ø 1.25 THRU
21	-11.98	-0.75	Ø 1.25 THRU
22	-4.85	-0.88	Ø 1.25 THRU
23	5.01	-0.47	Ø 1.25 THRU
24	12.11	-1.23	Ø 1.25 THRU
25	21.97	-1.65	Ø 1.25 THRU
26	29.00	-3.02	Ø 1.25 THRU
27	-32.77	8.39	Ø 1.25 THRU
28	-28.82	9.07	Ø 1.25 THRU
29	-24.71	9.18	Ø 1.25 THRU
30	-20.72	9.51	Ø 1.25 THRU
31	-14.92	10.42	Ø 1.25 THRU
32	-10.93	10.75	Ø 1.25 THRU
33	-6.83	10.50	Ø 1.25 THRU
34	-2.83	10.49	Ø 1.25 THRU
35	3.04	10.91	Ø 1.25 THRU
36	7.04	10.90	Ø 1.25 THRU
37	11.11	10.28	Ø 1.25 THRU
38	15.09	9.93	Ø 1.25 THRU
39	20.97	9.86	Ø 1.25 THRU
40	24.95	9.51	Ø 1.25 THRU
41	28.95	8.53	Ø 1.25 THRU
42	32.89	7.85	Ø 1.25 THRU
43	-17.37	-10.62	250-20 UNC-2B ∇ .75
44	-14.63	-10.39	250-20 UNC-2B ∇ .75
45	14.98	-10.45	250-20 UNC-2B ∇ .75
46	17.72	-10.69	250-20 UNC-2B ∇ .75
47	-31.00	13.00	500-13 UNC-2B THRU
48	31.00	13.00	500-13 UNC-2B THRU
49	-31.00	-6.00	500-13 UNC-2B THRU
50	31.00	-6.00	500-13 UNC-2B THRU
51	-24.85	0.91	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
52	-27.08	6.59	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
53	-25.59	6.78	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
54	-9.17	2.22	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
55	-7.67	2.28	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
56	-9.41	8.14	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
57	-7.91	8.20	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
58	8.33	8.16	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
59	9.83	8.09	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
60	8.06	2.24	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
61	9.56	2.18	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
62	25.25	0.80	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
63	26.74	0.61	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
64	26.01	6.67	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
65	-33.00	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
66	-17.00	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
67	-6.50	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
68	6.50	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
69	17.00	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
70	33.00	13.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°

HOLE TABLE CONT			
HOLE NO.	X	Y	NOTE
71	-31.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
72	-17.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
73	-5.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
74	5.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
75	17.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
76	31.00	-5.00	Ø 203 ∇ .19, ∇ Ø .350 X 120°
77	-26.56	-10.00	.164-32 UNC-2B ∇ .50
78	-24.33	-11.29	.164-32 UNC-2B ∇ .50
79	-24.33	-8.71	.164-32 UNC-2B ∇ .50
80	-6.02	-10.25	.164-32 UNC-2B ∇ .50
81	-8.24	-11.54	.164-32 UNC-2B ∇ .50
82	-8.24	-8.96	.164-32 UNC-2B ∇ .50
83	6.02	-10.25	.164-32 UNC-2B ∇ .50
84	8.24	-11.54	.164-32 UNC-2B ∇ .50
85	8.24	-8.96	.164-32 UNC-2B ∇ .50
86	26.53	-10.00	.164-32 UNC-2B ∇ .50
87	24.30	-11.29	.164-32 UNC-2B ∇ .50
88	24.30	-8.71	.164-32 UNC-2B ∇ .50
89	-26.27	-0.92	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
90	-31.84	-1.87	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
91	-19.05	-0.66	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
92	-24.68	-1.13	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
93	-9.25	0.59	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
94	-14.88	0.11	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
95	-2.03	0.21	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
96	-7.68	0.23	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
97	7.84	0.62	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
98	2.19	0.63	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
99	15.02	-0.38	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
100	9.39	0.11	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
101	24.88	-0.79	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
102	19.25	-0.30	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
103	31.97	-2.41	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
104	26.40	-1.45	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
105	-27.82	8.12	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
106	-33.39	7.16	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
107	-19.81	8.48	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
108	-25.44	8.01	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
109	-10.02	9.72	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
110	-15.65	9.25	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
111	-2.00	9.38	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
112	-7.65	9.40	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
113	7.86	9.79	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
114	2.21	9.80	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
115	15.82	8.76	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
116	10.19	9.25	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
117	25.68	8.34	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
118	20.05	8.83	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
119	33.52	6.63	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
120	27.95	7.59	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
121	-28.19	10.23	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
122	-33.75	9.27	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
123	-19.99	10.61	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
124	-25.62	10.14	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
125	-10.20	11.85	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
126	-15.83	11.38	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
127	-2.00	11.52	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
128	-7.65	11.54	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
129	7.87	11.93	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
130	2.22	11.94	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
131	16.00	10.89	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
132	10.37	11.38	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
133	25.87	10.47	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
134	20.24	10.96	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
135	33.88	8.73	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
136	28.31	9.69	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
137	-25.91	-3.02	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
138	-31.48	-3.98	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
139	-18.87	-2.79	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
140	-24.50	-3.26	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN

HOLE TABLE CONT			
HOLE NO.	X	Y	NOTE
141	-9.08	-1.54	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
142	-14.71	-2.02	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
143	-2.03	-1.92	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
144	-7.68	-1.91	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
145	7.83	-1.52	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
146	2.18	-1.50	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
147	14.83	-2.51	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
148	9.20	-2.02	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
149	24.69	-2.92	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
150	19.07	-2.43	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
151	31.60	-4.52	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
152	26.04	-3.56	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN
153	-26.334 ± .002	0.721 ± .002	SEE F/D ZONE C8
154	27.499 ± .002	6.481 ± .002	SEE F/D ZONE E1