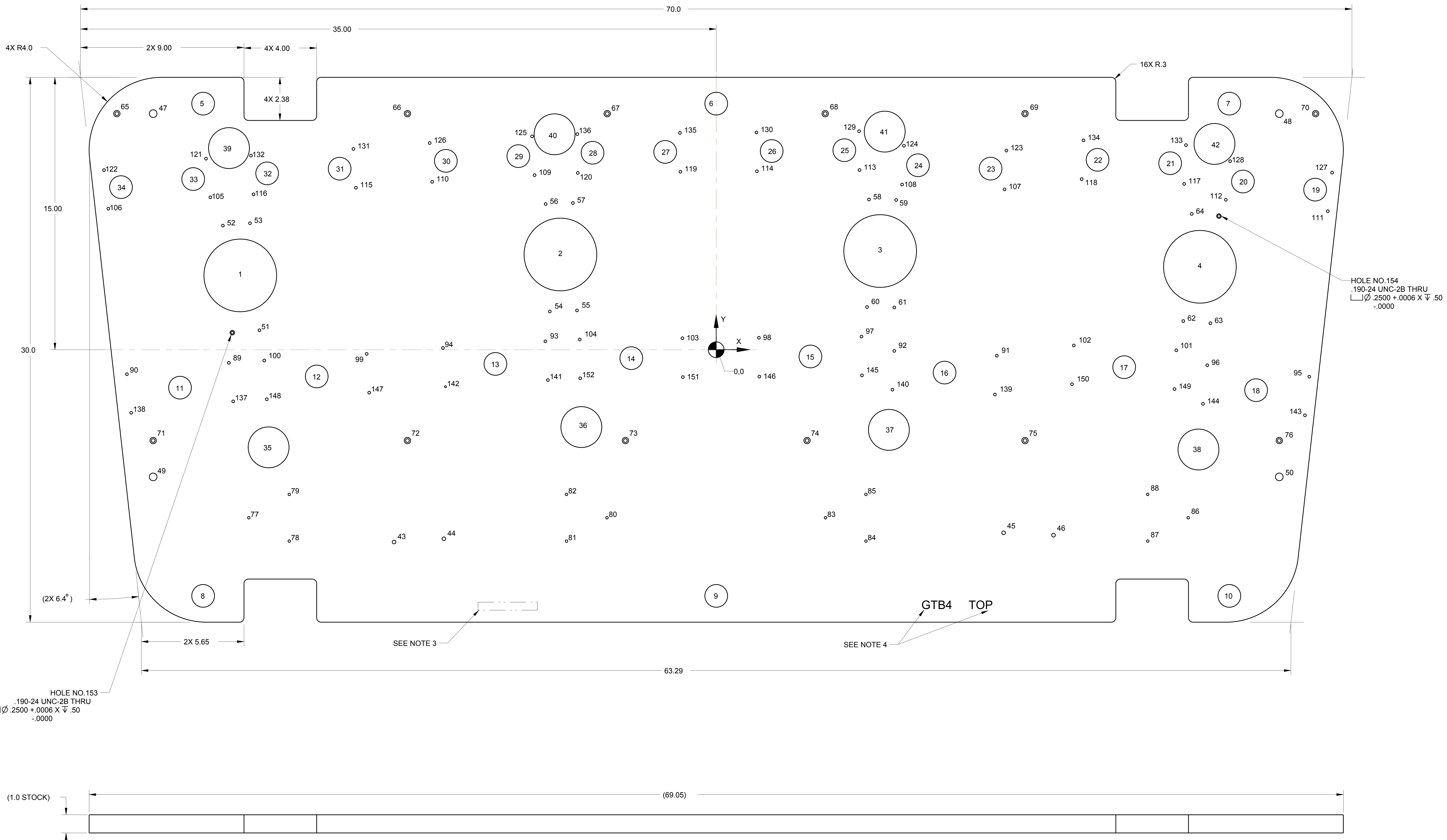


- NOTES:
1. MATERIAL: PLATE ALUMINUM 1.0 THK TYPE 6061-T6 PER ASTM B209
 2. MAKE FROM DXF FILE
 3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX AS SHOWN.
 4. VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS.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

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



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/RAU 3/31/18 CHECKED BY: S. RESTMEYER 5/2/18 DESIGN APPROVAL: A. ARNO 5/8/18 DIMENSIONAL TOLERANCES: S. TRABOCCHI 4/30/18 JOB: 016 S. MAHLER 5/9/18 DATE: 0/05 APPROVAL: G. MAHLER 5/9/18 ANGLE TOLERANCE: ±1° SEE DIM: J. TUOZZOLO 5/2/18		SIZE: E DRAWING NUMBER: 2570M0046 REV: A	
USED ON DRAWING NO. 2570M0047 QTY. PER ASSY. 1		FINISH: 125 BREAK SHARP EDGES SAFETY / RSC DEPARTMENT:		CATEGORY: A3 SCALE: 1/2 WEIGHT: 178.1 SHEET OF 1 2	

DWG NO 2570M0046

SHEET 1 OF 2

CREO

HOLE TABLE			
HOLE NO.	X	Y	NOTE
1	-26.20	4.09	Ø 4.00 THRU
2	-8.58	5.25	Ø 4.00 THRU
3	9.03	5.44	Ø 4.00 THRU
4	26.63	4.57	Ø 4.00 THRU
5	-28.25	13.55	Ø 1.25 THRU
6	0.00	13.55	Ø 1.25 THRU
7	28.25	13.55	Ø 1.25 THRU
8	-28.25	-13.55	Ø 1.25 THRU
9	0.00	-13.55	Ø 1.25 THRU
10	28.25	-13.55	Ø 1.25 THRU
11	-29.52	-2.09	Ø 1.25 THRU
12	-22.00	-1.47	Ø 1.25 THRU
13	-12.16	-0.78	Ø 1.25 THRU
14	-4.68	-0.46	Ø 1.25 THRU
15	5.19	-0.37	Ø 1.25 THRU
16	12.57	-1.26	Ø 1.25 THRU
17	22.46	-0.96	Ø 1.25 THRU
18	29.72	-2.23	Ø 1.25 THRU
19	32.97	8.82	Ø 1.25 THRU
20	29.00	9.26	Ø 1.25 THRU
21	24.99	10.27	Ø 1.25 THRU
22	21.00	10.46	Ø 1.25 THRU
23	15.10	9.97	Ø 1.25 THRU
24	11.11	10.16	Ø 1.25 THRU
25	7.05	10.99	Ø 1.25 THRU
26	3.05	10.94	Ø 1.25 THRU
27	-2.81	10.89	Ø 1.25 THRU
28	-6.81	10.85	Ø 1.25 THRU
29	-10.89	10.66	Ø 1.25 THRU
30	-14.89	10.40	Ø 1.25 THRU
31	-20.73	9.97	Ø 1.25 THRU
32	-24.72	9.71	Ø 1.25 THRU
33	-28.80	9.40	Ø 1.25 THRU
34	-32.77	8.95	Ø 1.25 THRU
35	-24.64	-5.37	Ø 2.25 THRU
36	-7.43	-4.26	Ø 2.25 THRU
37	9.51	-4.41	Ø 2.25 THRU
38	26.55	-5.49	Ø 2.25 THRU
39	-26.83	11.10	Ø 2.25 THRU
40	-8.90	11.86	Ø 2.25 THRU
41	9.28	12.01	Ø 2.25 THRU
42	27.43	11.33	Ø 2.25 THRU
43	-17.74	-10.58	.250-20 UNC-2B ∇ .75
44	-14.99	-10.41	.250-20 UNC-2B ∇ .75
45	15.82	-10.08	.250-20 UNC-2B ∇ .75
46	18.57	-10.21	.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	-7.00	.500-13 UNC-2B THRU
50	31.00	-7.00	.500-13 UNC-2B THRU
51	-25.15	1.07	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
52	-27.16	6.84	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
53	-25.67	6.97	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
54	-9.16	2.11	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
55	-7.66	2.17	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
56	-9.39	8.02	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
57	-7.89	8.08	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
58	8.41	8.27	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
59	9.91	8.25	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
60	8.30	2.36	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
61	9.80	2.33	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
62	25.71	1.58	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
63	27.21	1.46	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
64	26.18	7.48	Ø .149 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	-6.00	13.00	Ø .203 ∇ .19 ∇ Ø .350 X 120°
68	6.00	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			
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	-25.74	-9.25	.164-32 UNC-2B ∇ .50
78	-23.51	-10.54	.164-32 UNC-2B ∇ .50
79	-23.51	-7.96	.164-32 UNC-2B ∇ .50
80	-6.02	-9.25	.164-32 UNC-2B ∇ .50
81	-8.24	-10.54	.164-32 UNC-2B ∇ .50
82	-8.24	-7.96	.164-32 UNC-2B ∇ .50
83	6.02	-9.25	.164-32 UNC-2B ∇ .50
84	8.24	-10.54	.164-32 UNC-2B ∇ .50
85	8.24	-7.96	.164-32 UNC-2B ∇ .50
86	25.99	-9.25	.164-32 UNC-2B ∇ .50
87	23.76	-10.54	.164-32 UNC-2B ∇ .50
88	23.76	-7.96	.164-32 UNC-2B ∇ .50
89	-26.83	-0.72	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
90	-32.45	-1.35	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
91	15.44	-0.33	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
92	9.80	-0.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
93	-9.41	0.46	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
94	-15.04	0.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
95	32.65	-1.48	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
96	27.04	-0.85	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
97	8.00	0.73	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
98	2.35	0.66	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
99	-19.24	-0.23	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
100	-24.88	-0.59	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
101	25.33	-0.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
102	19.69	0.24	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
103	-1.86	0.63	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
104	-7.51	0.57	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
105	-27.85	8.40	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
106	-33.47	7.77	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
107	15.88	8.83	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
108	10.23	9.10	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
109	-10.00	9.61	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
110	-15.64	9.25	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
111	33.67	7.63	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
112	28.06	8.26	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
113	7.89	9.90	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
114	2.24	9.83	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
115	-19.84	8.92	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
116	-25.48	8.56	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
117	25.76	9.13	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
118	20.12	9.40	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
119	-1.97	9.80	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
120	-7.62	9.74	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
121	-28.09	10.52	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
122	-33.71	9.89	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
123	15.98	10.97	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
124	10.33	11.23	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
125	-10.14	11.75	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
126	-15.78	11.38	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
127	33.91	9.75	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
128	28.29	10.38	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
129	7.86	12.03	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
130	2.22	11.97	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
131	-19.98	11.06	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
132	-25.61	10.69	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
133	25.86	11.27	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
134	20.22	11.53	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
135	-2.00	11.94	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
136	-7.65	11.87	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
137	-26.59	-2.84	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
138	-32.21	-3.47	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
139	15.34	-2.46	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
140	9.70	-2.20	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN

HOLE TABLE			
HOLE NO.	X	Y	NOTE
141	-9.27	-1.67	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
142	-14.91	-2.04	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
143	32.41	-3.61	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
144	26.80	-2.98	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
145	8.02	-1.41	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
146	2.37	-1.48	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
147	-19.11	-2.36	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
148	-24.74	-2.73	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
149	25.23	-2.16	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
150	19.59	-1.90	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
151	-1.84	-1.50	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
152	-7.49	-1.57	Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN
153	-26.643±.002	.941±.002	SEE F/D ZONE C8
154	27.676±.002	7.360±.002	SEE F/D ZONE E1