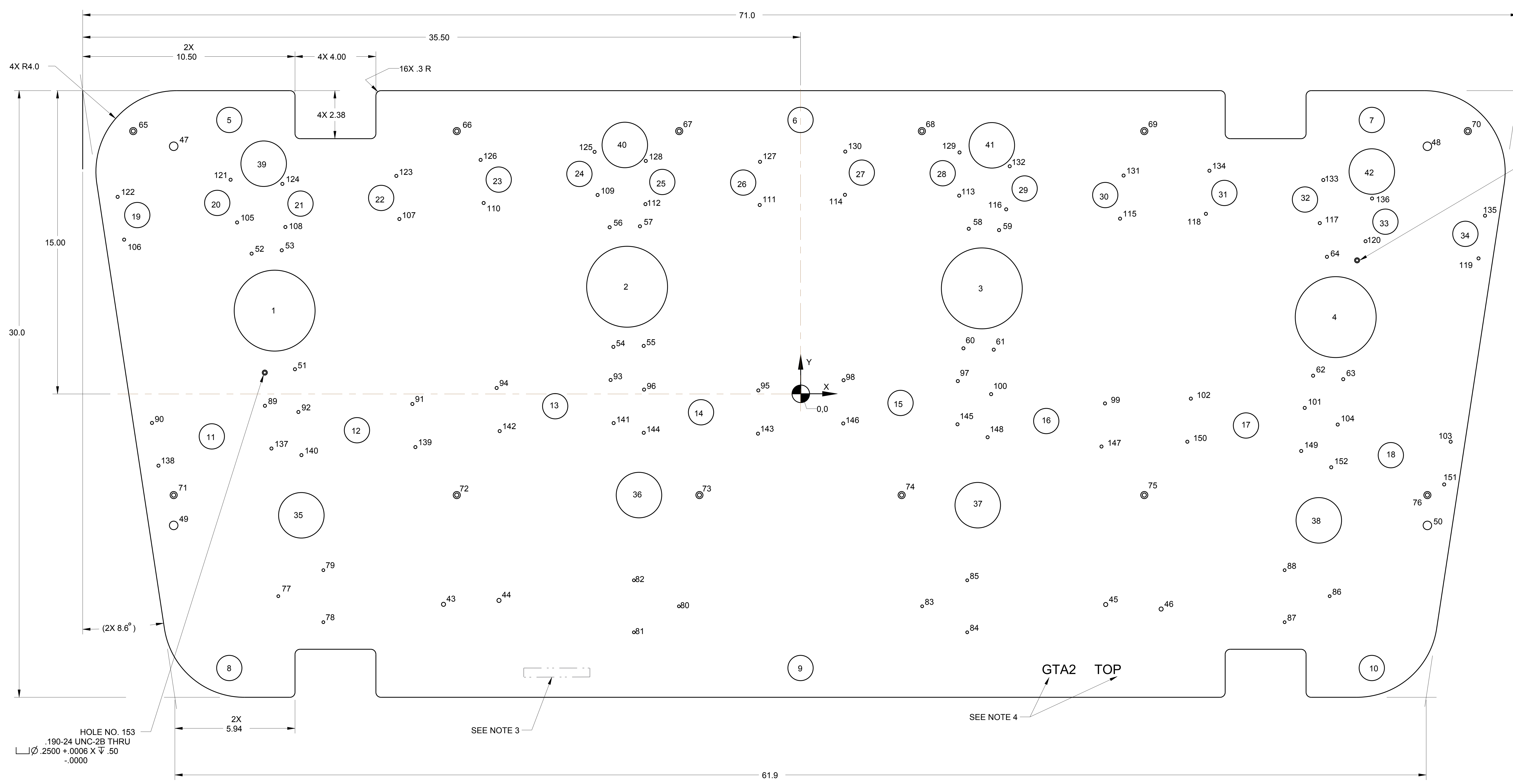


- NOTES:
1. MATERIAL: PLATE 1.0 THK. ALUMINUM TYPE 6061-T6 PER ASTM B209
 2. MAKE FROM DXF FILE
 3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130. LOCATE APPROX AS SHOWN.
 4. VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS.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

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



HOLE NO. 153
 190-24 UNC-2B THRU
 ⌀.2500 +.0006 X ⚓.50
 -.0000

HOLE NO. 154
 190-24 UNC-2B THRU
 ⌀.2500 +.0006 X ⚓.50
 -.0000

(1.0 STOCK)

GTA2 TOP

SEE NOTE 3

SEE NOTE 4

REV	DESCRIPTION
2	1 SHEET
1	1 SHEET

INTERPRET IN GENERAL ACCORDANCE WITH ASME Y14.5				COLLIDER-ACCELERATOR DEPARTMENT BROOKHAVEN NATIONAL LABORATORY UPTON, N.Y. 11973	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES .005 .015 .030 .050 .100 .150 .300 .500 ANGULAR TOLERANCE ±1°		DRAWN BY: TRABOCCHI/GRAU 3/01/18 CHECKED BY: S. RESTMEYER 5/21/18 ENGR. APPROVAL: A. ARNO 5/8/18 ENGR. APPROVAL: S. TRABOCCHI 4/30/18 ENGR. APPROVAL: G. MAHLER 5/18/18 DESIGNED BY: J. TUZZOLO 5/21/18		CBETA TOP PLATE ASSEMBLY, GTA2 PLATE, GTA2	
USED ON DRAWING NO. 2570M0017 APPLICATION:	QTY. PER ASSY. 1	FINISH: 125 BREAK SHARP EDGES: <input checked="" type="checkbox"/> MAX. OPEN: 015	SAFETY / RSC: <input type="checkbox"/> DEPARTMENT: <input type="checkbox"/> ISSUE: <input type="checkbox"/>	SIZE: E DRAWING NUMBER: 2570M0016 REV: A	Dwg No: 2570M0016 Sht: 1 of 2 Scale: A3 Scale: 1/2 Weight: 180.8 Sheet: 1 of 2 CREO

HOLE TABLE			
HOLE NO.	X	Y	NOTE
1	-26.01	4.12	Ø 4.00 THRU
2	-8.58	5.30	Ø 4.00 THRU
3	8.97	5.22	Ø 4.00 THRU
4	26.47	3.80	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	-29.11	-2.10	Ø 1.25 THRU
12	-21.94	-1.79	Ø 1.25 THRU
13	-12.13	-0.61	Ø 1.25 THRU
14	-4.92	-0.91	Ø 1.25 THRU
15	4.94	-0.44	Ø 1.25 THRU
16	12.15	-1.34	Ø 1.25 THRU
17	22.03	-1.56	Ø 1.25 THRU
18	29.19	-3.03	Ø 1.25 THRU
19	-32.80	8.85	Ø 1.25 THRU
20	-28.85	9.45	Ø 1.25 THRU
21	-24.73	9.41	Ø 1.25 THRU
22	-20.74	9.69	Ø 1.25 THRU
23	-14.93	10.60	Ø 1.25 THRU
24	-10.94	10.88	Ø 1.25 THRU
25	-6.84	10.48	Ø 1.25 THRU
26	-2.84	10.45	Ø 1.25 THRU
27	3.03	10.95	Ø 1.25 THRU
28	7.03	10.92	Ø 1.25 THRU
29	11.08	10.16	Ø 1.25 THRU
30	15.07	9.84	Ø 1.25 THRU
31	20.96	9.94	Ø 1.25 THRU
32	24.95	9.62	Ø 1.25 THRU
33	28.92	8.52	Ø 1.25 THRU
34	32.88	7.92	Ø 1.25 THRU
35	-24.69	-6.00	Ø 2.25 THRU
36	-7.99	-5.00	Ø 2.25 THRU
37	8.76	-5.50	Ø 2.25 THRU
38	25.63	-6.25	Ø 2.25 THRU
39	-26.55	11.39	Ø 2.25 THRU
40	-8.69	12.31	Ø 2.25 THRU
41	9.46	12.30	Ø 2.25 THRU
42	28.25	11.00	Ø 2.25 THRU
43	-17.66	-10.40	.250-20 UNC-2B ∇ .75
44	-14.91	-10.21	.250-20 UNC-2B ∇ .75
45	15.09	-10.41	.250-20 UNC-2B ∇ .75
46	17.83	-10.64	.250-20 UNC-2B ∇ .75
47	-31.00	12.25	.500-13 UNC-2B THRU
48	31.00	12.25	.500-13 UNC-2B THRU
49	-31.00	-6.50	.500-13 UNC-2B THRU
50	31.00	-6.50	.500-13 UNC-2B THRU
51	-25.00	1.22	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
52	-27.15	6.94	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
53	-25.66	7.10	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
54	-9.26	2.33	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
55	-7.76	2.38	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
56	-9.44	8.24	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
57	-7.94	8.29	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
58	8.32	8.17	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
59	9.82	8.10	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
60	8.06	2.26	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
61	9.55	2.19	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
62	25.35	0.90	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
63	26.84	0.73	Ø .149 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
64	26.03	6.78	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	-25.83	-10.00	.164-32 UNC-2B X .50 FULL THD. MIN.
78	-23.60	-11.29	.164-32 UNC-2B X .50 FULL THD. MIN.
79	-23.60	-8.71	.164-32 UNC-2B X .50 FULL THD. MIN.
80	-6.02	-10.50	.164-32 UNC-2B X .50 FULL THD. MIN.
81	-8.24	-11.79	.164-32 UNC-2B X .50 FULL THD. MIN.
82	-8.24	-9.21	.164-32 UNC-2B X .50 FULL THD. MIN.
83	6.02	-10.50	.164-32 UNC-2B X .50 FULL THD. MIN.
84	8.24	-11.79	.164-32 UNC-2B X .50 FULL THD. MIN.
85	8.24	-9.21	.164-32 UNC-2B X .50 FULL THD. MIN.
86	26.17	-10.00	.164-32 UNC-2B X .50 FULL THD. MIN.
87	23.94	-11.29	.164-32 UNC-2B X .50 FULL THD. MIN.
88	23.94	-8.71	.164-32 UNC-2B X .50 FULL THD. MIN.
89	-26.49	-0.58	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
90	-32.07	-1.43	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
91	-19.20	-0.50	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
92	-24.83	-0.89	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
93	-9.39	0.69	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
94	-15.03	0.30	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
95	-2.09	0.18	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
96	-7.74	0.22	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
97	7.78	0.64	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
98	2.13	0.68	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
99	15.06	-0.47	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
100	9.43	-0.01	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
101	24.93	-0.69	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
102	19.30	-0.23	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
103	32.15	-2.36	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
104	26.57	-1.51	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
105	-27.86	8.48	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
106	-33.45	7.63	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
107	-19.84	8.65	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
108	-25.47	8.26	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
109	-10.04	9.84	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
110	-15.67	9.44	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
111	-2.02	9.35	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
112	-7.67	9.39	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
113	7.85	9.81	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
114	2.20	9.85	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
115	15.80	8.67	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
116	10.17	9.13	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
117	25.68	8.45	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
118	20.05	8.91	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
119	33.53	6.70	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
120	27.94	7.55	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
121	-28.19	10.60	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
122	-33.77	9.75	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
123	-19.99	10.78	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
124	-25.62	10.39	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
125	-10.19	11.97	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
126	-15.82	11.58	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
127	-2.00	11.48	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
128	-7.65	11.53	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
129	7.86	11.94	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
130	2.21	11.99	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
131	15.98	10.80	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
132	10.34	11.26	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
133	25.85	10.58	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
134	20.22	11.04	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
135	33.85	8.82	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
136	28.26	9.67	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
137	-26.17	-2.70	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
138	-31.75	-3.55	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
139	-19.05	-2.63	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
140	-24.68	-3.02	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.

HOLE TABLE			
Hole No.	X	Y	NOTE
141	-9.24	-1.44	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
142	-14.88	-1.84	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
143	-2.10	-1.96	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
144	-7.75	-1.92	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
145	7.76	-1.50	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
146	2.11	-1.46	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
147	14.88	-2.60	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
148	9.25	-2.14	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
149	24.76	-2.82	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
150	19.13	-2.36	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
151	31.83	-4.47	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
152	26.24	-3.63	Ø .1495 THRU, .190-24 UNC-2B X .75 FULL THD. MIN.
153	-26.494 ±.002	1.057 ±.002	SEE F/D ZONE C8
154	27.523 ±.002	6.608 ±.002	SEE F/D ZONE F1