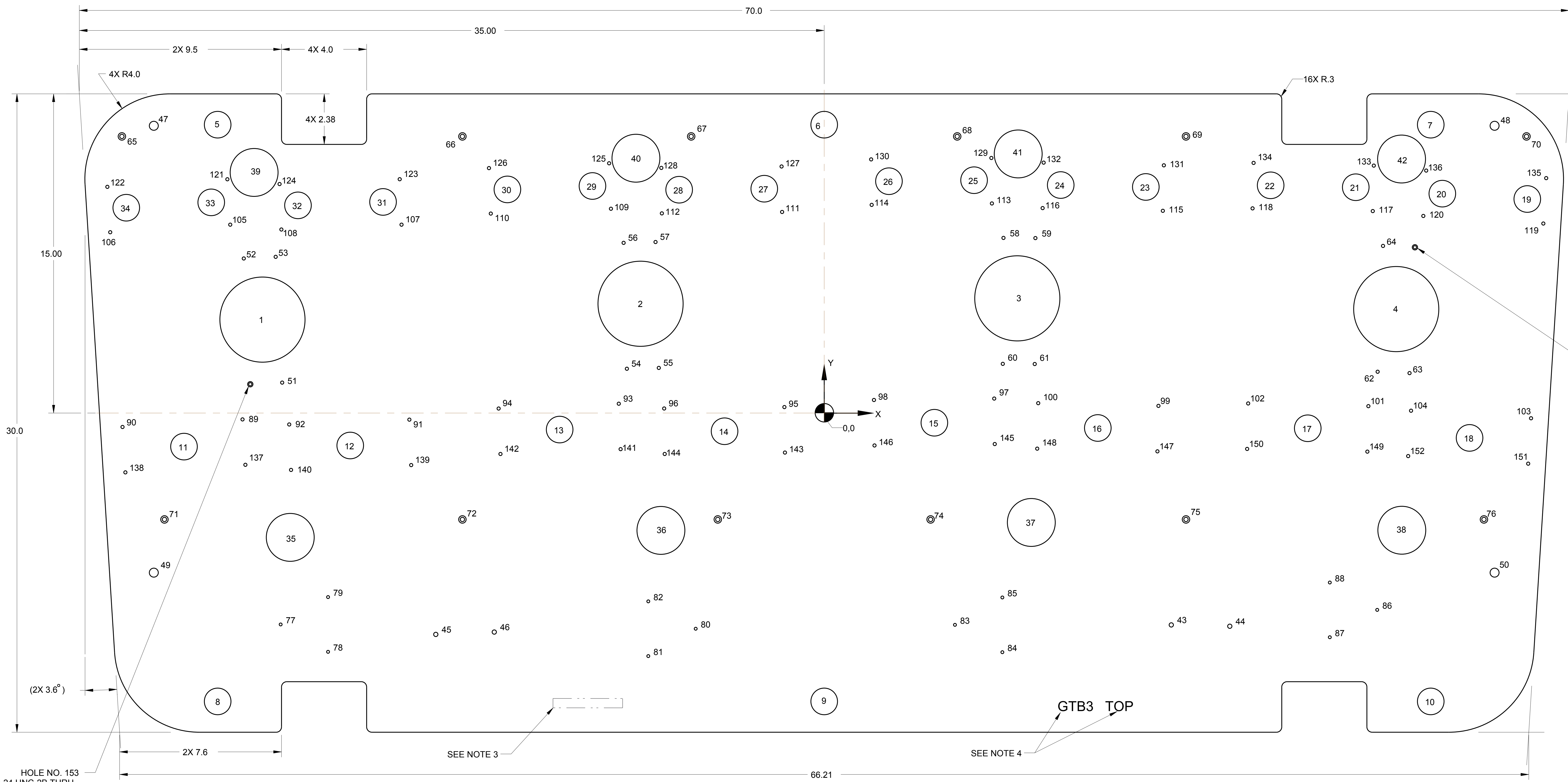


- NOTES:
1. MATERIAL: PLATE ALUMINUM 1.0 THK TYPE 6061-T6 PER ASTM B209
 2. MAKE FROM DXF FILE
 3. VIBRO-ETCH PART WITH DRAWING NUMBER WITH MIN .25 HIGH CHARACTERS IN ACCORDANCE WITH MIL-STD-130, LOCATE APPROX AS SHOWN.
 4. VIBRO-ETCH PLATE WITH PART NAME AND SIDE DESIGNATION WITH MIN .25 HIGH CHARACTERS.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

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



HOLE NO. 154
 .190-24 UNC-2B THRU
 .190 ± .0006 X .50
 -.0000

HOLE NO. 153
 .190-24 UNC-2B THRU
 .190 ± .0006 X .50
 -.0000

GTB3 TOP

SEE NOTE 3

SEE NOTE 4

(1.0 STOCK)

| 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 DIMENSIONS ARE IN INCHES DECIMAL TOLERANCES .005 .015 .030 .050 .100 .150 .200 .300 .500 .750 1.000 ANGULAR TOLERANCE ±1° | | DRAWN BY: TRABOCCHI/GRAU 3/01/18 CHECKED BY: S. RESTMEYER 5/21/18 DESIGN APPROVAL: A. ARNO 5/18/18 ENG. FOR APPROVAL: S. TRABOCCHI 4/30/18 APPROVAL: G. MAHLER 5/18/18 SEE ENG: J. TUZZOLO 5/21/18 | | CBETA TOP PLATE ASSEMBLY, GTB3 PLATE, GTB3 | |
| USED ON DRAWING NO. 2570M0044 APPLICATION: | QTY. PER ASSY. 1 | FINISH: 125 <input checked="" type="checkbox"/> BREAK SHARP EDGES MAX. GRN: 015 | SAFETY/REG. DEPARTMENT: | SIZE: E CATEGORY: A3 | DRAWING NUMBER: 2570M0043 REV: A SCALE: 1/2 WEIGHT: 180.5 SHEET OF 1 2 |

DWG NO 2570M0043

SHT 1 of 1

CREO

| HOLE TABLE | | | |
|------------|---------|---------|--|
| HOLE NO. | X | Y | NOTE |
| 1 | -26.395 | 4.391 | Ø 4.00 THRU |
| 2 | -8.629 | 5.136 | Ø 4.00 THRU |
| 3 | 9.074 | 5.390 | Ø 4.00 THRU |
| 4 | 26.879 | 4.886 | Ø 4.00 THRU |
| 5 | -28.500 | 13.552 | Ø 1.25 THRU |
| 6 | 0.000 | 13.552 | Ø 1.25 THRU |
| 7 | 28.500 | 13.552 | Ø 1.25 THRU |
| 8 | -28.500 | -13.552 | Ø 1.25 THRU |
| 9 | 0.000 | -13.552 | Ø 1.25 THRU |
| 10 | 28.500 | -13.552 | Ø 1.25 THRU |
| 11 | -30.082 | -1.577 | Ø 1.25 THRU |
| 12 | -22.270 | -1.525 | Ø 1.25 THRU |
| 13 | -12.430 | -0.776 | Ø 1.25 THRU |
| 14 | -4.681 | -0.855 | Ø 1.25 THRU |
| 15 | 5.177 | -0.455 | Ø 1.25 THRU |
| 16 | 12.857 | -0.702 | Ø 1.25 THRU |
| 17 | 22.721 | -0.715 | Ø 1.25 THRU |
| 18 | 30.324 | -1.168 | Ø 1.25 THRU |
| 19 | 33.037 | 10.059 | Ø 1.25 THRU |
| 20 | 29.045 | 10.311 | Ø 1.25 THRU |
| 21 | 24.977 | 10.612 | Ø 1.25 THRU |
| 22 | 20.978 | 10.702 | Ø 1.25 THRU |
| 23 | 15.112 | 10.625 | Ø 1.25 THRU |
| 24 | 11.113 | 10.715 | Ø 1.25 THRU |
| 25 | 7.042 | 10.943 | Ø 1.25 THRU |
| 26 | 3.043 | 10.895 | Ø 1.25 THRU |
| 27 | -2.816 | 10.543 | Ø 1.25 THRU |
| 28 | -6.816 | 10.495 | Ø 1.25 THRU |
| 29 | -10.889 | 10.670 | Ø 1.25 THRU |
| 30 | -14.886 | 10.510 | Ø 1.25 THRU |
| 31 | -20.729 | 9.921 | Ø 1.25 THRU |
| 32 | -24.726 | 9.761 | Ø 1.25 THRU |
| 33 | -28.802 | 9.901 | Ø 1.25 THRU |
| 34 | -32.794 | 9.649 | Ø 1.25 THRU |
| 35 | -25.089 | -5.843 | Ø 2.25 THRU |
| 36 | -7.672 | -5.515 | Ø 2.25 THRU |
| 37 | 9.732 | -5.142 | Ø 2.25 THRU |
| 38 | 27.141 | -5.507 | Ø 2.25 THRU |
| 39 | -26.787 | 11.307 | Ø 2.25 THRU |
| 40 | -8.846 | 11.976 | Ø 2.25 THRU |
| 41 | 9.116 | 12.177 | Ø 2.25 THRU |
| 42 | 27.129 | 11.938 | Ø 2.25 THRU |
| 43 | 16.309 | -9.957 | .250-20 UNC-2B X .75 FULL THD MIN |
| 44 | 19.058 | -10.019 | .250-20 UNC-2B X .75 FULL THD MIN |
| 45 | -18.250 | -10.403 | .250-20 UNC-2B X .75 FULL THD MIN |
| 46 | -15.502 | -10.292 | .250-20 UNC-2B X .75 FULL THD MIN |
| 47 | -31.500 | 13.500 | .500-13 UNC-2B THRU |
| 48 | 31.500 | 13.500 | .500-13 UNC-2B THRU |
| 49 | -31.500 | -7.500 | .500-13 UNC-2B THRU |
| 50 | 31.500 | -7.500 | .500-13 UNC-2B THRU |
| 51 | -25.469 | 1.431 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 52 | -27.272 | 7.264 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 53 | -25.774 | 7.341 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 54 | -9.271 | 2.082 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 55 | -7.772 | 2.121 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 56 | -9.425 | 7.998 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 57 | -7.926 | 8.037 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 58 | 8.424 | 8.230 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 59 | 9.924 | 8.222 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 60 | 8.392 | 2.312 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 61 | 9.892 | 2.304 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 62 | 26.005 | 1.941 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 63 | 27.504 | 1.877 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 64 | 26.258 | 7.854 | Ø .149 THRU .190-24 UNC-2B X .75 FULL THD MIN. |
| 65 | -33.000 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 66 | -17.000 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 67 | -6.250 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 68 | 6.250 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 69 | 17.000 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 70 | 33.000 | 13.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |

| HOLE TABLE | | | |
|------------|---------|---------|---|
| HOLE NO. | X | Y | NOTE |
| 71 | -31.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 72 | -17.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 73 | -5.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 74 | 5.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 75 | 17.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 76 | 31.000 | -5.000 | Ø .203 ∇ .19, ∇ Ø .350 X 120° |
| 77 | -25.540 | -9.935 | .164-32 UNC-2B ∇ .50 |
| 78 | -23.313 | -11.221 | .164-32 UNC-2B ∇ .50 |
| 79 | -23.313 | -8.649 | .164-32 UNC-2B ∇ .50 |
| 80 | -6.038 | -10.136 | .164-32 UNC-2B ∇ .50 |
| 81 | -8.266 | -11.422 | .164-32 UNC-2B ∇ .50 |
| 82 | -8.266 | -8.850 | .164-32 UNC-2B ∇ .50 |
| 83 | 6.144 | -9.953 | .164-32 UNC-2B ∇ .50 |
| 84 | 8.372 | -11.239 | .164-32 UNC-2B ∇ .50 |
| 85 | 8.372 | -8.667 | .164-32 UNC-2B ∇ .50 |
| 86 | 25.985 | -9.250 | .164-32 UNC-2B ∇ .50 |
| 87 | 23.758 | -10.536 | .164-32 UNC-2B ∇ .50 |
| 88 | 23.758 | -7.964 | .164-32 UNC-2B ∇ .50 |
| 89 | -27.332 | -0.299 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 90 | -32.971 | -0.655 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 91 | -19.492 | -0.310 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 92 | -25.137 | -0.537 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 93 | -9.652 | 0.439 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 94 | -15.297 | 0.212 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 95 | -1.870 | 0.281 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 96 | -7.519 | 0.214 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 97 | 7.988 | 0.680 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 98 | 2.339 | 0.614 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 99 | 15.706 | 0.337 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 100 | 10.057 | 0.464 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 101 | 25.570 | 0.324 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 102 | 19.922 | 0.451 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 103 | 33.213 | -0.245 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 104 | 27.575 | 0.110 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 105 | -27.909 | 8.853 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 106 | -33.548 | 8.497 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 107 | -19.860 | 8.853 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 108 | -25.506 | 8.626 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 109 | -10.020 | 9.602 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 110 | -15.666 | 9.375 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 111 | -1.978 | 9.450 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 112 | -7.628 | 9.383 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 113 | 7.880 | 9.850 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 114 | 2.231 | 9.783 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 115 | 15.912 | 9.504 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 116 | 10.264 | 9.632 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 117 | 25.777 | 9.491 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 118 | 20.128 | 9.619 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 119 | 33.791 | 8.906 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 120 | 28.152 | 9.262 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 121 | -28.044 | 10.986 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 122 | -33.683 | 10.630 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 123 | -19.946 | 10.989 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 124 | -25.592 | 10.762 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 125 | -10.106 | 11.738 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 126 | -15.752 | 11.511 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 127 | -2.003 | 11.587 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 128 | -7.653 | 11.521 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 129 | 7.855 | 11.987 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 130 | 2.205 | 11.921 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 131 | 15.960 | 11.641 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 132 | 10.312 | 11.769 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 133 | 25.825 | 11.628 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 134 | 20.176 | 11.755 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 135 | 33.925 | 11.040 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 136 | 28.287 | 11.396 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 137 | -27.197 | -2.432 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 138 | -32.836 | -2.788 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 139 | -19.406 | -2.446 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 140 | -25.052 | -2.673 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |

| HOLE TABLE | | | |
|------------|----------------|--------------|---|
| HOLE NO. | X | Y | NOTE |
| 141 | -9.566 | -1.697 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 142 | -15.212 | -1.924 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 143 | -1.844 | -1.857 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 144 | -7.494 | -1.923 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 145 | 8.014 | -1.457 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 146 | 2.364 | -1.524 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 147 | 15.658 | -1.800 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 148 | 10.009 | -1.673 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 149 | 25.522 | -1.813 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 150 | 19.873 | -1.686 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 151 | 33.079 | -2.379 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 152 | 27.440 | -2.023 | Ø .149 THRU .190-24 UNC-2B .75 FULL THD MIN |
| 153 | -26.967 ± .002 | 1.354 ± .002 | SEE F/D ZONE C8 |
| 154 | 27.757 ± .002 | 7.790 ± .002 | SEE F/D ZONE E1 |