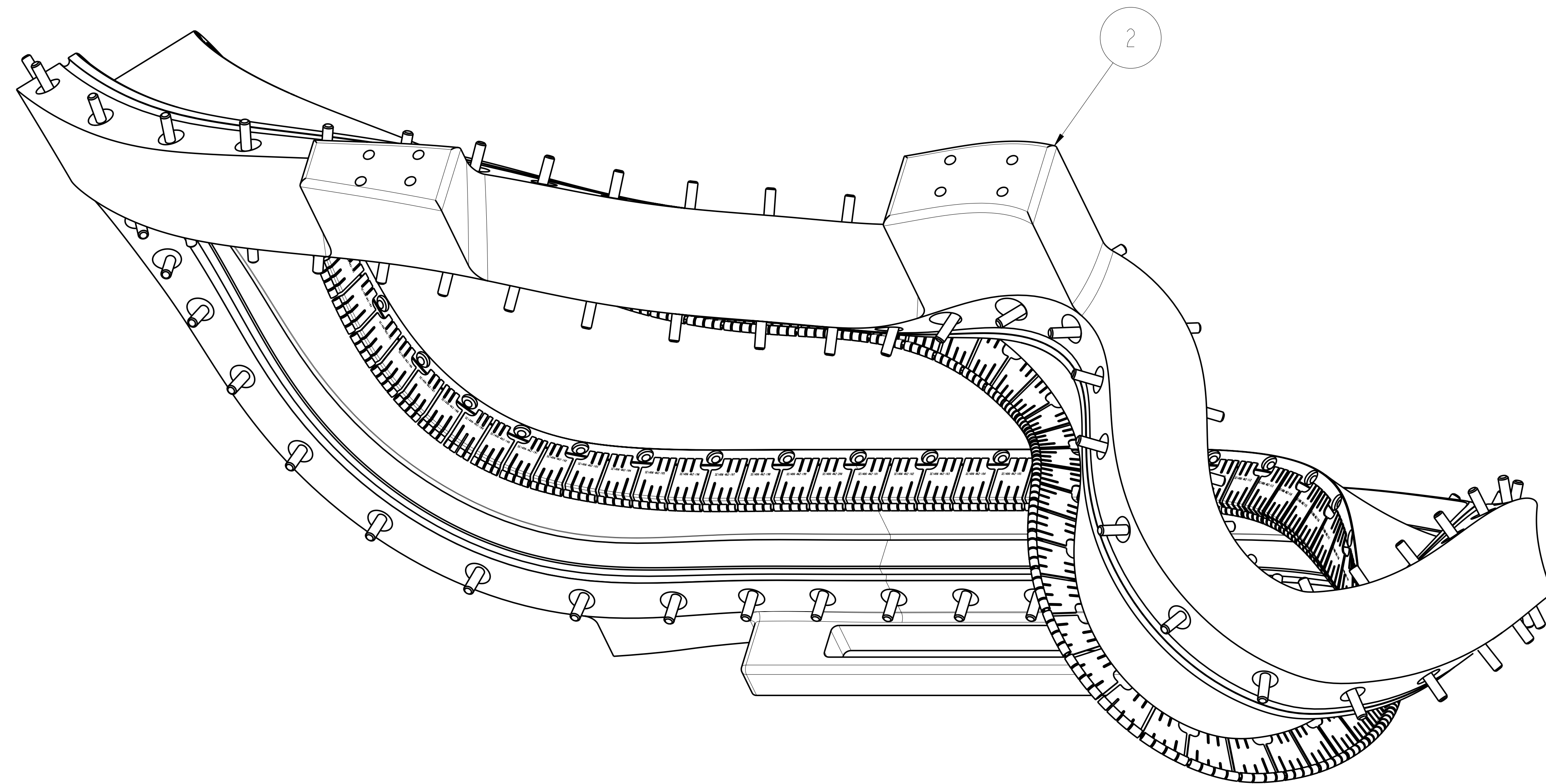


NOTES:

1. INTERPRET DIMENSIONS AND TOLERANCES PER ANSI Y14.5M
2. DIMENSIONS ARE IN INCHES
3. FIND NUMBERS 3 THRU 100 SKIPPED FOR CLARITY



SIDE "A" UPPER CHILL PLATE
 FABRICATED INSTALLATION
 TRIMETRIC VIEW
 SCALE 0.375

**RELEASED FOR
 FABRICATION / INSTALLATION**
 PPPL Drafting:

| next ass'y | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | WEIGHT | FIND NO |
|------------|-----------|------------------------|---|----------|--------|---------|
| 1 | | SEI406-462-200 | SIDE "A" FORMED UPPER CHILL PLATE # 200 | COPPER | 0.0414 | 200 |
| 1 | | SEI406-462-199 | SIDE "A" FORMED UPPER CHILL PLATE # 199 | COPPER | 0.0415 | 199 |
| 1 | | SEI406-462-198 | SIDE "A" FORMED UPPER CHILL PLATE # 198 | COPPER | 0.0414 | 198 |
| 1 | | SEI406-462-197 | SIDE "A" FORMED UPPER CHILL PLATE # 197 | COPPER | 0.0408 | 197 |
| 1 | | SEI406-462-196 | SIDE "A" FORMED UPPER CHILL PLATE # 196 | COPPER | 0.0401 | 196 |
| 1 | | SEI406-462-195 | SIDE "A" FORMED UPPER CHILL PLATE # 195 | COPPER | 0.0395 | 195 |
| 1 | | SEI406-462-194 | SIDE "A" FORMED UPPER CHILL PLATE # 194 | COPPER | 0.0382 | 194 |
| 1 | | SEI406-462-193 | SIDE "A" FORMED UPPER CHILL PLATE # 193 | COPPER | 0.0367 | 193 |
| 1 | | SEI406-462-192 | SIDE "A" FORMED UPPER CHILL PLATE # 192 | COPPER | 0.0340 | 192 |
| 1 | | SEI406-462-191 | SIDE "A" FORMED UPPER CHILL PLATE # 191 | COPPER | 0.0320 | 191 |
| 1 | | SEI406-462-190 | SIDE "A" FORMED UPPER CHILL PLATE # 190 | COPPER | 0.0305 | 190 |

| next ass'y | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | WEIGHT PER | FIND NO |
|------------|-----------|------------------------|---|----------|------------|---------|
| 1 | | SEI406-462-189 | SIDE "A" FORMED UPPER CHILL PLATE # 189 | COPPER | 0.0303 | 189 |
| 1 | | SEI406-462-188 | SIDE "A" FORMED UPPER CHILL PLATE # 188 | COPPER | 0.0314 | 188 |
| 1 | | SEI406-462-187 | SIDE "A" FORMED UPPER CHILL PLATE # 187 | COPPER | 0.0340 | 187 |
| 1 | | SEI406-462-186 | SIDE "A" FORMED UPPER CHILL PLATE # 186 | COPPER | 0.0375 | 186 |
| 1 | | SEI406-462-185 | SIDE "A" FORMED UPPER CHILL PLATE # 185 | COPPER | 0.0409 | 185 |
| 1 | | SEI406-462-184 | SIDE "A" FORMED UPPER CHILL PLATE # 184 | COPPER | 0.0421 | 184 |
| 1 | | SEI406-462-183 | SIDE "A" FORMED UPPER CHILL PLATE # 183 | COPPER | 0.0413 | 183 |
| 1 | | SEI406-462-182 | SIDE "A" FORMED UPPER CHILL PLATE # 182 | COPPER | 0.0389 | 182 |
| 1 | | SEI406-462-181 | SIDE "A" FORMED UPPER CHILL PLATE # 181 | COPPER | 0.0374 | 181 |
| 1 | | SEI406-462-180 | SIDE "A" FORMED UPPER CHILL PLATE # 180 | COPPER | 0.0355 | 180 |
| 1 | | SEI406-462-179 | SIDE "A" FORMED UPPER CHILL PLATE # 179 | COPPER | 0.0343 | 179 |
| 1 | | SEI406-462-178 | SIDE "A" FORMED UPPER CHILL PLATE # 178 | COPPER | 0.0321 | 178 |
| 1 | | SEI406-462-177 | SIDE "A" FORMED UPPER CHILL PLATE # 177 | COPPER | 0.0299 | 177 |
| 1 | | SEI406-462-176 | SIDE "A" FORMED UPPER CHILL PLATE # 176 | COPPER | 0.0269 | 176 |
| 1 | | SEI406-462-175 | SIDE "A" FORMED UPPER CHILL PLATE # 175 | COPPER | 0.0236 | 175 |
| 1 | | SEI406-462-174 | SIDE "A" FORMED UPPER CHILL PLATE # 174 | COPPER | 0.0209 | 174 |
| 1 | | SEI406-462-173 | SIDE "A" FORMED UPPER CHILL PLATE # 173 | COPPER | 0.0204 | 173 |
| 1 | | SEI406-462-172 | SIDE "A" FORMED UPPER CHILL PLATE # 172 | COPPER | 0.0229 | 172 |
| 1 | | SEI406-462-171 | SIDE "A" FORMED UPPER CHILL PLATE # 171 | COPPER | 0.0267 | 171 |
| 1 | | SEI406-462-170 | SIDE "A" FORMED UPPER CHILL PLATE # 170 | COPPER | 0.0309 | 170 |
| 1 | | SEI406-462-169 | SIDE "A" FORMED UPPER CHILL PLATE # 169 | COPPER | 0.0336 | 169 |
| 1 | | SEI406-462-168 | SIDE "A" FORMED UPPER CHILL PLATE # 168 | COPPER | 0.0352 | 168 |
| 1 | | SEI406-462-167 | SIDE "A" FORMED UPPER CHILL PLATE # 167 | COPPER | 0.0355 | 167 |
| 1 | | SEI406-462-166 | SIDE "A" FORMED UPPER CHILL PLATE # 166 | COPPER | 0.0363 | 166 |
| 1 | | SEI406-462-165 | SIDE "A" FORMED UPPER CHILL PLATE # 165 | COPPER | 0.0371 | 165 |
| 1 | | SEI406-462-164 | SIDE "A" FORMED UPPER CHILL PLATE # 164 | COPPER | 0.0387 | 164 |
| 1 | | SEI406-462-163 | SIDE "A" FORMED UPPER CHILL PLATE # 163 | COPPER | 0.0399 | 163 |
| 1 | | SEI406-462-162 | SIDE "A" FORMED UPPER CHILL PLATE # 162 | COPPER | 0.0414 | 162 |
| 1 | | SEI406-462-161 | SIDE "A" FORMED UPPER CHILL PLATE # 161 | COPPER | 0.0421 | 161 |
| 1 | | SEI406-462-160 | SIDE "A" FORMED UPPER CHILL PLATE # 160 | COPPER | 0.0426 | 160 |
| 1 | | SEI406-462-159 | SIDE "A" FORMED UPPER CHILL PLATE # 159 | COPPER | 0.0425 | 159 |
| 1 | | SEI406-462-158 | SIDE "A" FORMED UPPER CHILL PLATE # 158 | COPPER | 0.0422 | 158 |
| 1 | | SEI406-462-157 | SIDE "A" FORMED UPPER CHILL PLATE # 157 | COPPER | 0.0414 | 157 |
| 1 | | SEI406-462-156 | SIDE "A" FORMED UPPER CHILL PLATE # 156 | COPPER | 0.0407 | 156 |
| 1 | | SEI406-462-155 | SIDE "A" FORMED UPPER CHILL PLATE # 155 | COPPER | 0.0402 | 155 |
| 1 | | SEI406-462-154 | SIDE "A" FORMED UPPER CHILL PLATE # 154 | COPPER | 0.0400 | 154 |
| 1 | | SEI406-462-153 | SIDE "A" FORMED UPPER CHILL PLATE # 153 | COPPER | 0.0400 | 153 |
| 1 | | SEI406-462-152 | SIDE "A" FORMED UPPER CHILL PLATE # 152 | COPPER | 0.0398 | 152 |
| 1 | | SEI406-462-151 | SIDE "A" FORMED UPPER CHILL PLATE # 151 | COPPER | 0.0399 | 151 |
| 1 | | SEI406-462-150 | SIDE "A" FORMED UPPER CHILL PLATE # 150 | COPPER | 0.0399 | 150 |
| 1 | | SEI406-462-149 | SIDE "A" FORMED UPPER CHILL PLATE # 149 | COPPER | 0.0399 | 149 |
| 1 | | SEI406-462-148 | SIDE "A" FORMED UPPER CHILL PLATE # 148 | COPPER | 0.0397 | 148 |
| 1 | | SEI406-462-147 | SIDE "A" FORMED UPPER CHILL PLATE # 147 | COPPER | 0.0380 | 147 |
| 1 | | SEI406-462-146 | SIDE "A" FORMED UPPER CHILL PLATE # 146 | COPPER | 0.0373 | 146 |
| 1 | | SEI406-462-145 | SIDE "A" FORMED UPPER CHILL PLATE # 145 | COPPER | 0.0340 | 145 |
| 1 | | SEI406-462-144 | SIDE "A" FORMED UPPER CHILL PLATE # 144 | COPPER | 0.0317 | 144 |
| 1 | | SEI406-462-143 | SIDE "A" FORMED UPPER CHILL PLATE # 143 | COPPER | 0.0279 | 143 |
| 1 | | SEI406-462-142 | SIDE "A" FORMED UPPER CHILL PLATE # 142 | COPPER | 0.0280 | 142 |
| 1 | | SEI406-462-141 | SIDE "A" FORMED UPPER CHILL PLATE # 141 | COPPER | 0.0310 | 141 |
| 1 | | SEI406-462-140 | SIDE "A" FORMED UPPER CHILL PLATE # 140 | COPPER | 0.0376 | 140 |
| 1 | | SEI406-462-139 | SIDE "A" FORMED UPPER CHILL PLATE # 139 | COPPER | 0.0433 | 139 |
| 1 | | SEI406-462-138 | SIDE "A" FORMED UPPER CHILL PLATE # 138 | COPPER | 0.0483 | 138 |
| 1 | | SEI406-462-137 | SIDE "A" FORMED UPPER CHILL PLATE # 137 | COPPER | 0.0510 | 137 |
| 1 | | SEI406-462-136 | SIDE "A" FORMED UPPER CHILL PLATE # 136 | COPPER | 0.0533 | 136 |
| 1 | | SEI406-462-135 | SIDE "A" FORMED UPPER CHILL PLATE # 135 | COPPER | 0.0544 | 135 |
| 1 | | SEI406-462-134 | SIDE "A" FORMED UPPER CHILL PLATE # 134 | COPPER | 0.0566 | 134 |
| 1 | | SEI406-462-133 | SIDE "A" FORMED UPPER CHILL PLATE # 133 | COPPER | 0.0563 | 133 |
| 1 | | SEI406-462-132 | SIDE "A" FORMED UPPER CHILL PLATE # 132 | COPPER | 0.0602 | 132 |
| 1 | | SEI406-462-131 | SIDE "A" FORMED UPPER CHILL PLATE # 131 | COPPER | 0.0549 | 131 |
| 1 | | SEI406-462-130 | SIDE "A" FORMED UPPER CHILL PLATE # 130 | COPPER | 0.0458 | 130 |
| 1 | | SEI406-462-129 | SIDE "A" FORMED UPPER CHILL PLATE # 129 | COPPER | 0.0443 | 129 |
| 1 | | SEI406-462-128 | SIDE "A" FORMED UPPER CHILL PLATE # 128 | COPPER | 0.0416 | 128 |
| 1 | | SEI406-462-127 | SIDE "A" FORMED UPPER CHILL PLATE # 127 | COPPER | 0.0397 | 127 |
| 1 | | SEI406-462-126 | SIDE "A" FORMED UPPER CHILL PLATE # 126 | COPPER | 0.0386 | 126 |
| 1 | | SEI406-462-125 | SIDE "A" FORMED UPPER CHILL PLATE # 125 | COPPER | 0.0379 | 125 |
| 1 | | SEI406-462-124 | SIDE "A" FORMED UPPER CHILL PLATE # 124 | COPPER | 0.0376 | 124 |
| 1 | | SEI406-462-123 | SIDE "A" FORMED UPPER CHILL PLATE # 123 | COPPER | 0.0373 | 123 |
| 1 | | SEI406-462-122 | SIDE "A" FORMED UPPER CHILL PLATE # 122 | COPPER | 0.0366 | 122 |
| 1 | | SEI406-462-121 | SIDE "A" FORMED UPPER CHILL PLATE # 121 | COPPER | 0.0362 | 121 |
| 1 | | SEI406-462-120 | SIDE "A" FORMED UPPER CHILL PLATE # 120 | COPPER | 0.0353 | 120 |
| 1 | | SEI406-462-119 | SIDE "A" FORMED UPPER CHILL PLATE # 119 | COPPER | 0.0352 | 119 |
| 1 | | SEI406-462-118 | SIDE "A" FORMED UPPER CHILL PLATE # 118 | COPPER | 0.0341 | 118 |
| 1 | | SEI406-462-117 | SIDE "A" FORMED UPPER CHILL PLATE # 117 | COPPER | 0.0334 | 117 |
| 1 | | SEI406-462-116 | SIDE "A" FORMED UPPER CHILL PLATE # 116 | COPPER | 0.0320 | 116 |
| 1 | | SEI406-462-115 | SIDE "A" FORMED UPPER CHILL PLATE # 115 | COPPER | 0.0310 | 115 |
| 1 | | SEI406-462-114 | SIDE "A" FORMED UPPER CHILL PLATE # 114 | COPPER | 0.0301 | 114 |
| 1 | | SEI406-462-113 | SIDE "A" FORMED UPPER CHILL PLATE # 113 | COPPER | 0.0294 | 113 |
| 1 | | SEI406-462-112 | SIDE "A" FORMED UPPER CHILL PLATE # 112 | COPPER | 0.0301 | 112 |
| 1 | | SEI406-462-111 | SIDE "A" FORMED UPPER CHILL PLATE # 111 | COPPER | 0.0321 | 111 |
| 1 | | SEI406-462-110 | SIDE "A" FORMED UPPER CHILL PLATE # 110 | COPPER | 0.0356 | 110 |
| 1 | | SEI406-462-109 | SIDE "A" FORMED UPPER CHILL PLATE # 109 | COPPER | 0.0383 | 109 |
| 1 | | SEI406-462-108 | SIDE "A" FORMED UPPER CHILL PLATE # 108 | COPPER | 0.0407 | 108 |
| 1 | | SEI406-462-107 | SIDE "A" FORMED UPPER CHILL PLATE # 107 | COPPER | 0.0414 | 107 |
| 1 | | SEI406-462-106 | SIDE "A" FORMED UPPER CHILL PLATE # 106 | COPPER | 0.0418 | 106 |
| 1 | | SEI406-462-105 | SIDE "A" FORMED UPPER CHILL PLATE # 105 | COPPER | 0.0413 | 105 |
| 1 | | SEI406-462-104 | SIDE "A" FORMED UPPER CHILL PLATE # 104 | COPPER | 0.0414 | 104 |
| 1 | | SEI406-462-103 | SIDE "A" FORMED UPPER CHILL PLATE # 103 | COPPER | 0.0411 | 103 |
| 1 | | SEI406-462-102 | SIDE "A" FORMED UPPER CHILL PLATE # 102 | COPPER | 0.0413 | 102 |
| 1 | | SEI406-462-101 | SIDE "A" FORMED UPPER CHILL PLATE # 101 | COPPER | 0.0411 | 101 |
| 1 | | SEI406-011 | TWISTED RACETRACK WINDING FORM WLDMT | STEEL | 730.0000 | 2 |
| 1 | | | SIDE "B" UPPER CHILL PLATE FAB INSTALL | -- | 3.7889 | 1 |

| next ass'y | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | WEIGHT | FIND NO |
|------------|-----------|------------------------|-----------------------------|----------|--------|---------|
| | | | | | | |

| next ass'y | CAGE CODE | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION | MATERIAL | WEIGHT PER | FIND NO |
|------------|-----------|------------------------|-----------------------------|----------|------------|---------|
| | | | | | | |

| REV | DESCRIPTION | BY | DATE | CHK | DEPT | DATE | PE | REQ | DATE | ORNL | DOE | DATE |
|-----|-------------|----|------|-----|------|------|----|-----|------|------|-----|------|
| | | | | | | | | | | | | |

SCALE NOTED

| DES | BRAD NELSON | 02/11/05 |
|--------|-----------------|----------|
| DRW | TOM HARGROVE | 02/11/05 |
| CHK | MIKE CODE | 02/11/05 |
| SECT | | |
| DEPT | | |
| PE | DAVE WILLIAMSON | 02/11/05 |
| CR | | |
| PJ | | |
| REQ | | |
| FINISH | | |

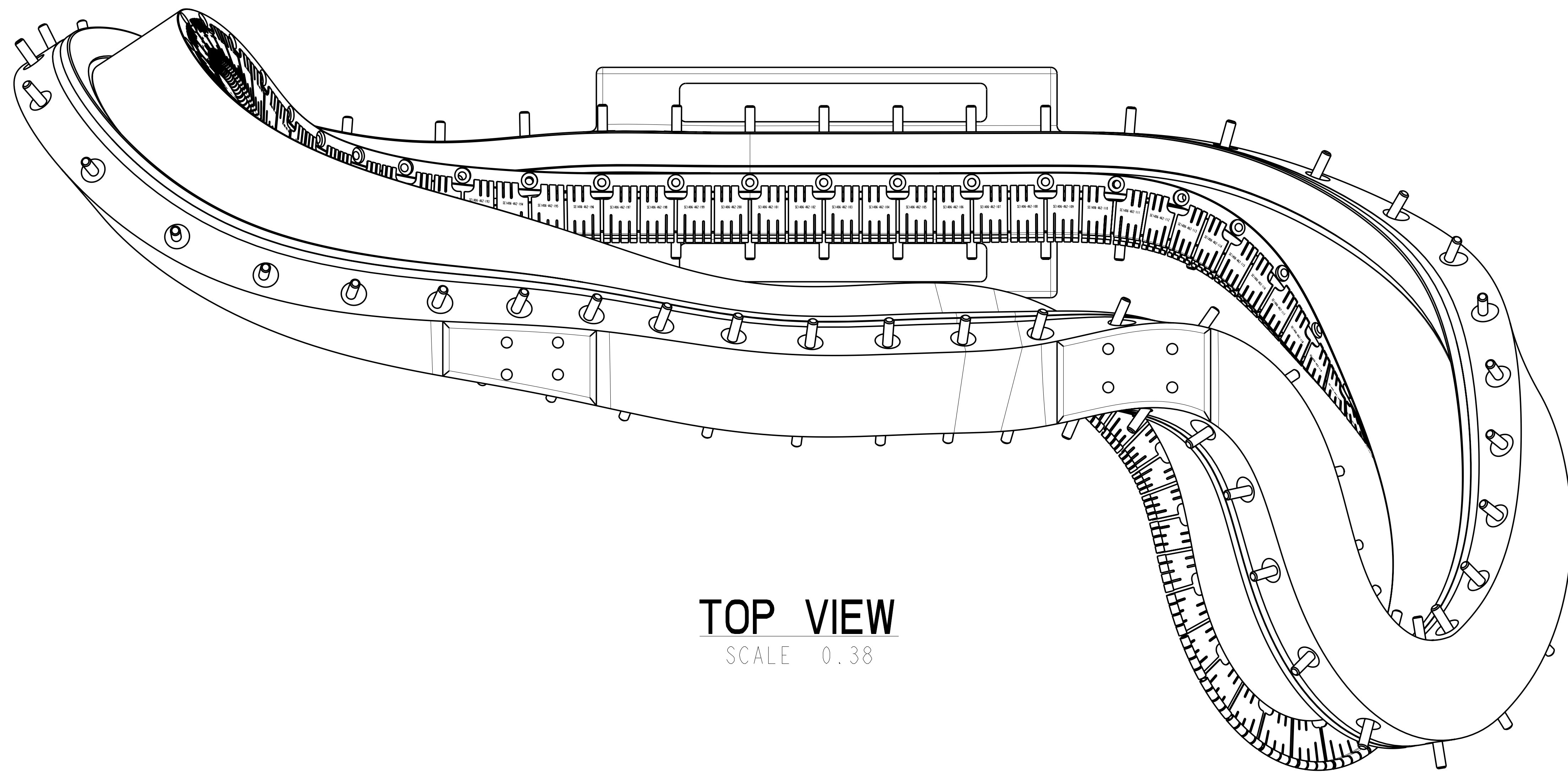
UT-BATTELLE
 NATIONAL COMPACT STELLARATOR EXPERIMENT
 TWISTED RACETRACK
 SIDE "A" UPPER CHILL PLATE
 FABRICATED INSTALLATION

Oak Ridge National Laboratory
 managed for the DEPARTMENT OF ENERGY under
 U.S. GOVERNMENT contract DE-AC05-00OR22725
 by BATTELLE, LLC, Oak Ridge, Tennessee

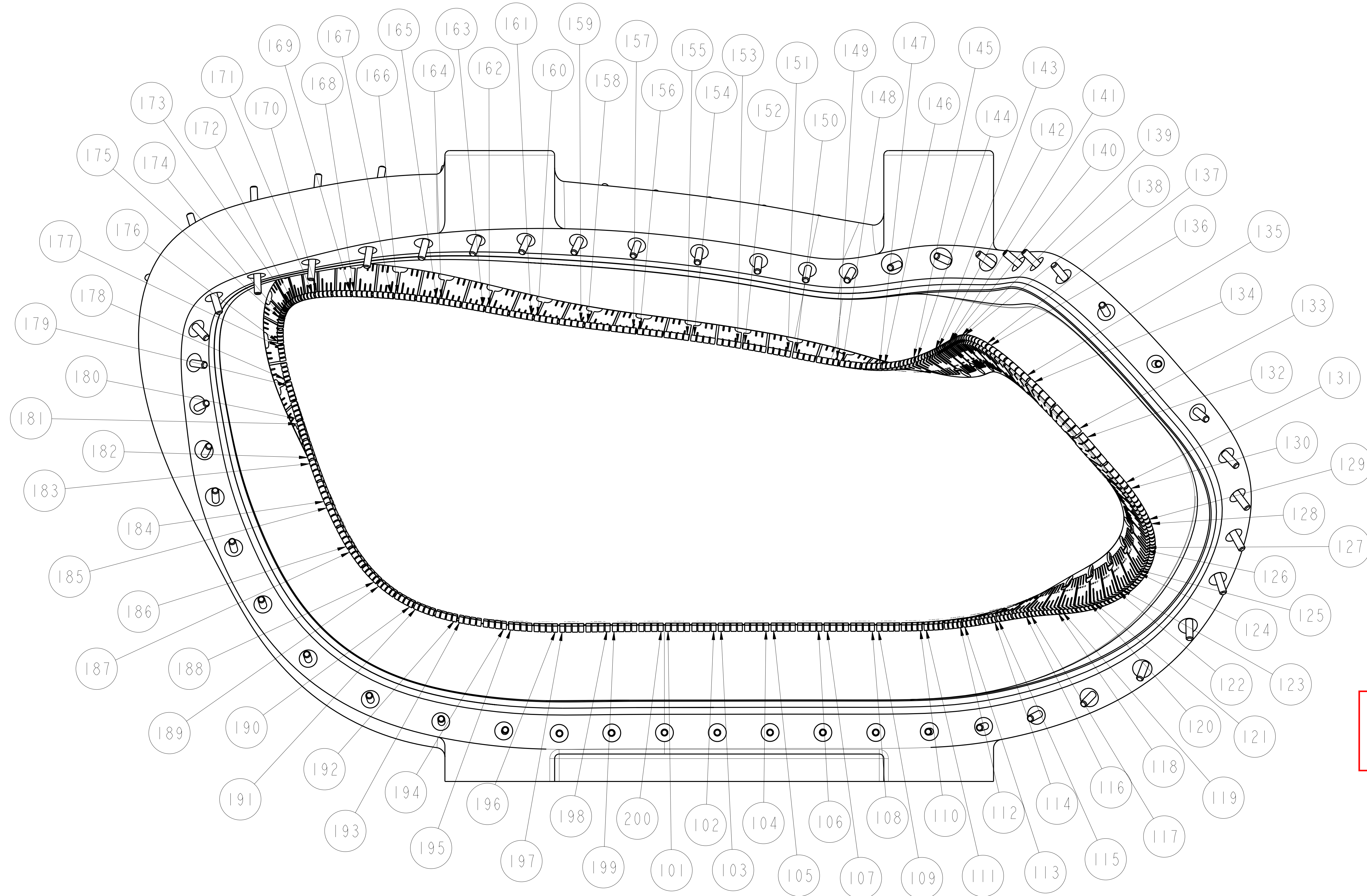
VERSION NO. 1 PLANT X-10 BLDG 5700 FL 3 SHOT 1 TYPE CLASS
 RELEASE LEVEL Fabrication SEI406-461 REV 0

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P THIS DRAWING PRODUCED ON PRO-ENGINEER



TOP VIEW
SCALE 0.38



**RELEASED FOR
FABRICATION / INSTALLATION**
PPPL Drafting:

| | | | | | | |
|--|-------|------------|----|-----|-----|------------|
| Oak Ridge National Laboratory managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-00OR22725 UT-BATTELLE, LLC, Oak Ridge, Tennessee PROJECT NAME: | | | | | | |
| NATIONAL COMPACT STELLARATOR EXPERIMENT | | | | | | |
| TWISTED RACETRACK SIDE "A" UPPER CHILL PLATE FABRICATED INSTALLATION | | | | | | |
| VERSION NO: | PLANT | BLDG | FL | SHT | OF | TYPE CLASS |
| 1 | X-10 | 5700 | 3 | 2 | 2 | U |
| RELEASE LEVEL | | SE1406-461 | | | REV | |
| Fabrication | | | | | 0 | |