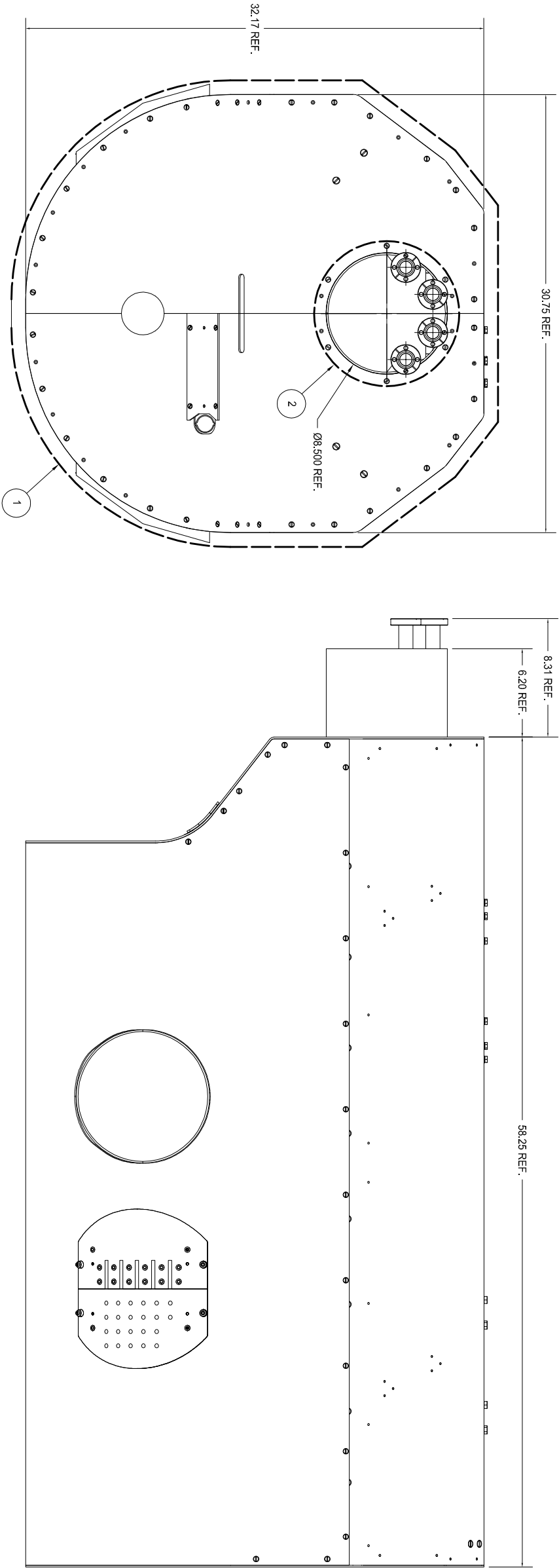


| REVISIONS | | | | DATE | APP |
|-----------|------|-------------|--|------|-----|
| S/N | ZONE | DESCRIPTION | | | |
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80K SHIELD SUPER INSULATION



FILE NAME: 7110-012-01

SCALE: NTS

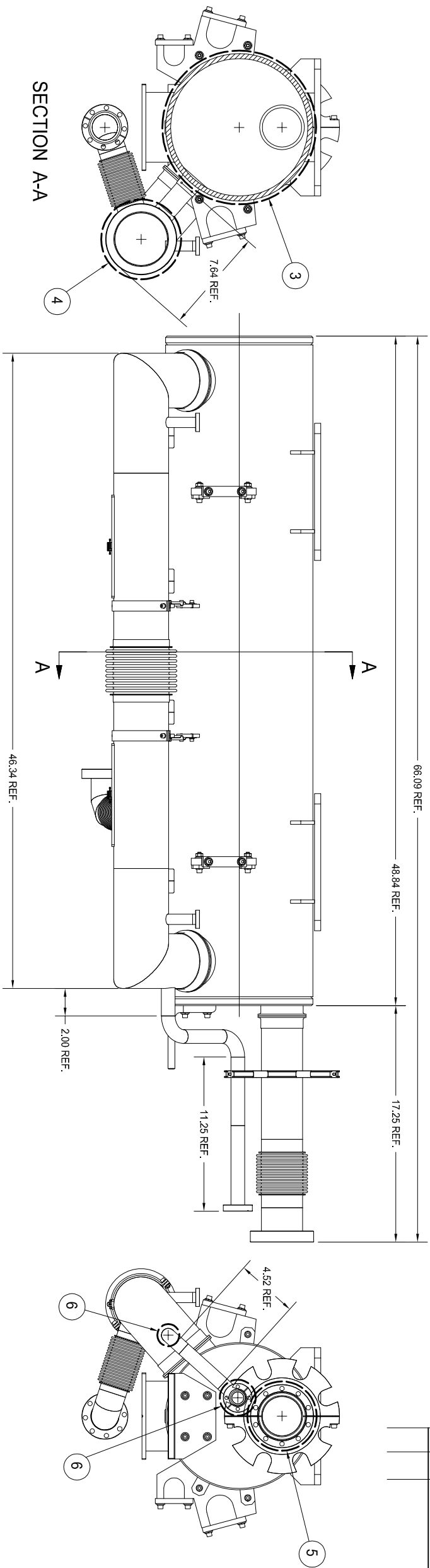
MAT'L.: THIS ASM FOUND AT 7110-002, SH.1

PURCHASE : DAM Mylar/Spunbound Polyester Spacer SuperInsulation - Meyer Tool or Equiv.

| MLI | # LAYERS | DIMENSIONS |
|-------------------|----------|---|
| PART 1 80K SHIELD | 30 | WIDTH = CIRCUMFERENCE + 3" OVERLAP = 109" |
| | 30 | LENGTH = L + (2 x RAD) = 91" |
| PART 2 80K SNOOT | 30 | WIDTH = CIRCUMFERENCE + 2" OVERLAP = 29" |
| | 30 | LENGTH = 7" |

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|---|---|------|----------|-------------|----|----|---------|------|
|  |  | ITEM | DWG. NO. | DESCRIPTION | | | REMARKS | REV. |
| | | | | G1 | G2 | G3 | | |
| | | | | QUANTITY | | | | |
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| REVISIONS | | | 1 |
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| DATE | DESCRIPTION | ZONE | S/N |
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HELIUM GAS RETURN PIPE, INSULATION

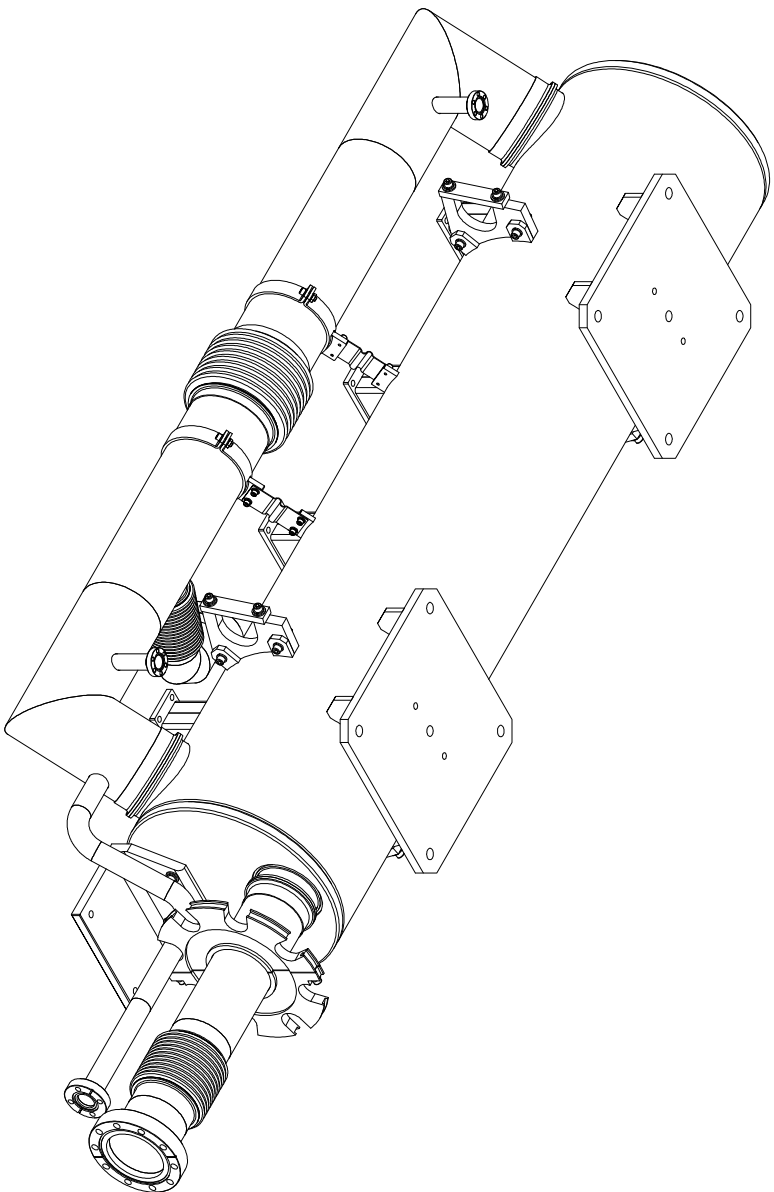
FILE NAME: 7110-012-02

SCALE: NTS

MATL.: THIS ASM FOUND AT 7110-006, SH.1

PURCHASE : DAM Mylar/Spunbound Polyester Spacer Superinsulation - Meyer Tool or Equiv.

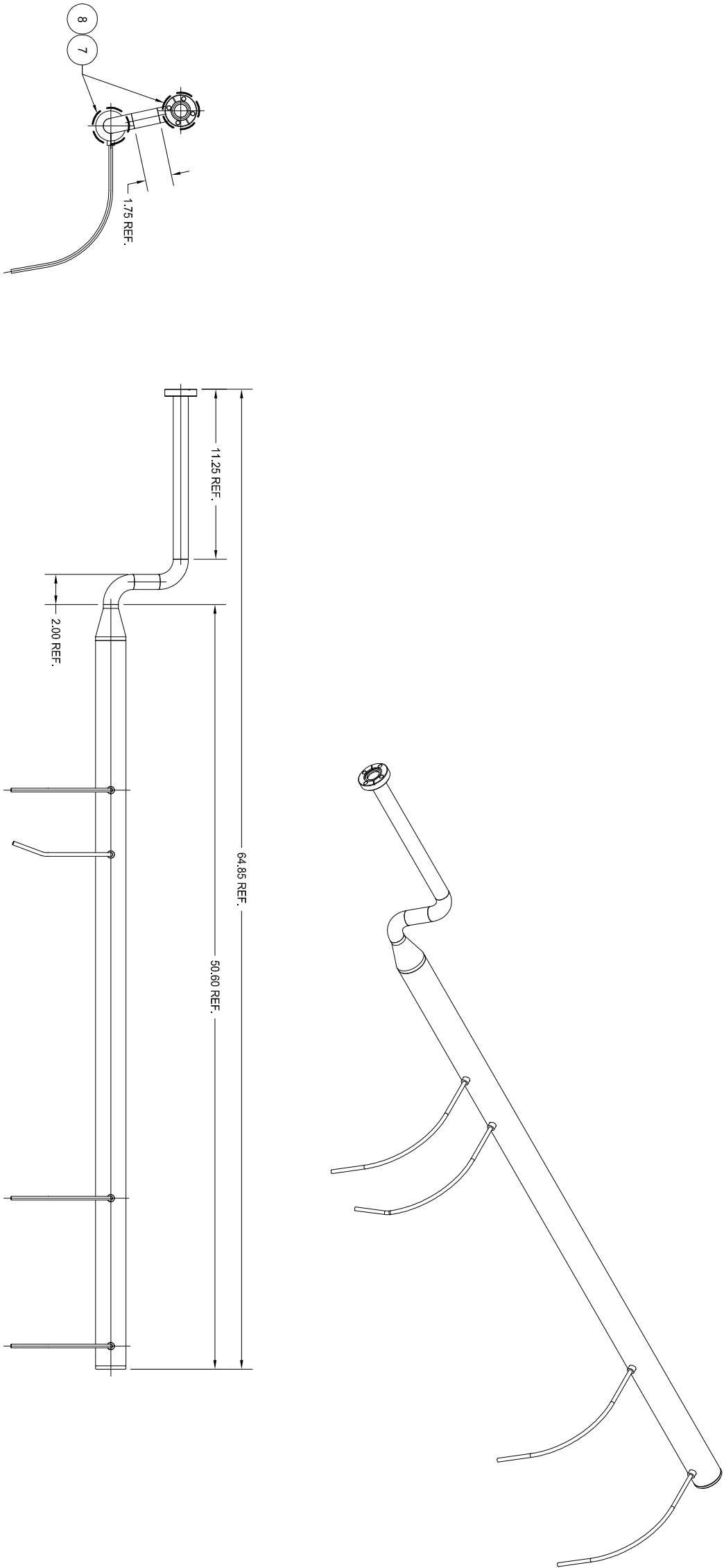
| | MLI | # LAYERS | DIMENSIONS |
|----------|-----------------|----------|---|
| PART - 3 | HGRP | 10 | LENGTH = 34" CIRCUMFERENCE + 3" OVERLAP = 37" |
| | | 10 | LENGTH = L + (2 x RAD) = 60" |
| PART - 4 | 2 - PHASE LINE | 10 | WIDTH = 13" CIRCUMFERENCE + 2" OVERLAP = 15" |
| | | 10 | LENGTH = 47" + 7.5" + 7.5" = 62" |
| PART - 5 | END BELLOW | 10 | WIDTH = 13" CIRCUMFERENCE + 1" OVERLAP = 14" |
| | | 10 | LENGTH = 18" |
| PART - 6 | 2K He FILL LINE | 10 | WIDTH = 4" CIRCUMFERENCE + 1" OVERLAP = 5" |
| | | 10 | LENGTH = 12" + 4" + 2" + (2 x 3") = 24" |



| REV. | REMARKS | Q3 | Q2 | Q1 | DESCRIPTION | DWG. NO. | ITEM | PRINT |
|------------------------------------|----------|------|--------|--------|-------------|----------|--------------|---------------------|
| D | 7110-012 | CR-1 | 032607 | 032607 | 7110-012-02 | 032607 | PRINT DISTR. | SH NO. 2 CONT. ON 3 |
| UNLESS OTHERWISE SPECIFIED | | | | | | | | |
| DIMENSIONS ARE IN INCHES | | | | | | | | |
| TOLERANCES ON FRACTIONS: .001 .005 | | | | | | | | |
| ANGLES: .015° | | | | | | | | |
| ALL SURFACES V | | | | | | | | |
| CHECKED BY EC | | | | | | | | |
| APPROVED BY EC | | | | | | | | |
| DRAWN BY TMM | | | | | | | | |
| DRAWN FOR EC | | | | | | | | |
| DATE 002/07 | | | | | | | | |
| SCALE 1:4 | | | | | | | | |
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| 7110-012 | | | | | | | | |
| SH NO. 2 CONT. ON 3 | | | | | | | | |
| REV. | | | | | | | | |

CORNELL UNIVERSITY
LEPP
LABORATORY FOR ELEMENTARY PARTICLE PHYSICS
F/A NEWMAN LAB - ITHACA, NY 14853
ERL Horizontal Test Cavity - Super Insulation Documentation
Helium Gas Return Pipe Super Insulation

| REVISIONS | | | DATE | APP. |
|-----------|------|-------------|------|------|
| SYL. | ZONE | DESCRIPTION | | |
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5K LEFT + RIGHT TUBE INSULATION

7110-012-03

SCALE: NTS


MAT'L.: THIS ASM FOUND AT 7110-019, SH.1

PURCHASE : DAM Mylar/Spunbound Polyester Superinsulation - Meyer Tool or Equiv.

| MLI | # LAYERS | DIMENSIONS |
|---------------------------|----------|--|
| PART - 7 5K LEFT TUBE | 10 | WIDTH = 6.5" CIRCUMFERENCE + 1" OVERLAP = 7.5" |
| PART - 8 5K RIGHT TUBE | 10 | LENGTH = 51" + 2" + 12" + (2 x 3") = 71" |
| | 10 | WIDTH = 6.5" CIRCUMFERENCE + 1" OVERLAP = 7.5" |
| | 10 | LENGTH = 51" + 2" + 12" + (2 x 3") = 71" |

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|----------------------|-----------------|------|-----------|-------------|----------------------------|--|--|----|----|---------|------|
| D | PRINT DISTR. | ITEM | DWGS. NO. | DESCRIPTION | G1 | | | G2 | G3 | REMARKS | REV. |
| | | | | | QUANTITY | | | | | | |
| | | | | | 7110-012 | | | | | | |
| | | | | | PLOT DATE 032607 | | | | | | |
| | | | | | CADD FILE NAME 7110-012-03 | | | | | | |
| | | | | | UNLESS OTHERWISE SPECIFIED | | | | | | |
| | | | | | DIMENSIONS ARE IN INCHES | | | | | | |
| | | | | | TOLERANCES ON | | | | | | |
| | | | | | .000 ±.010 | | | | | | |
| | | | | | FRACTIONS ±1/64 | | | | | | |
| | | | | | ANGLES 3/16° | | | | | | |
| | | | | | ALL SURFACES | | | | | | |
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| DATE 032107 | | | | | | | | | | | |
| SCALE 1/4" | | | | | | | | | | | |
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| 7110-012 | | | | | | | | | | | |
| SH. NO. 3 CONT. ON 4 | | | | | | | | | | | |
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| CR-1 | |
| UNLESS OTHERWISE SPECIFIED | |
| DIMENSIONS ARE IN INCHES | |
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| FRACTIONS ±1/64 | |
| ANGLES 3/16° | |
| ALL SURFACES | |
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| DATE 032107 | |
| SCALE 1/4" | |
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| 7110-012 | |
| SH. NO. 3 CONT. ON 4 | |
| REV. | |

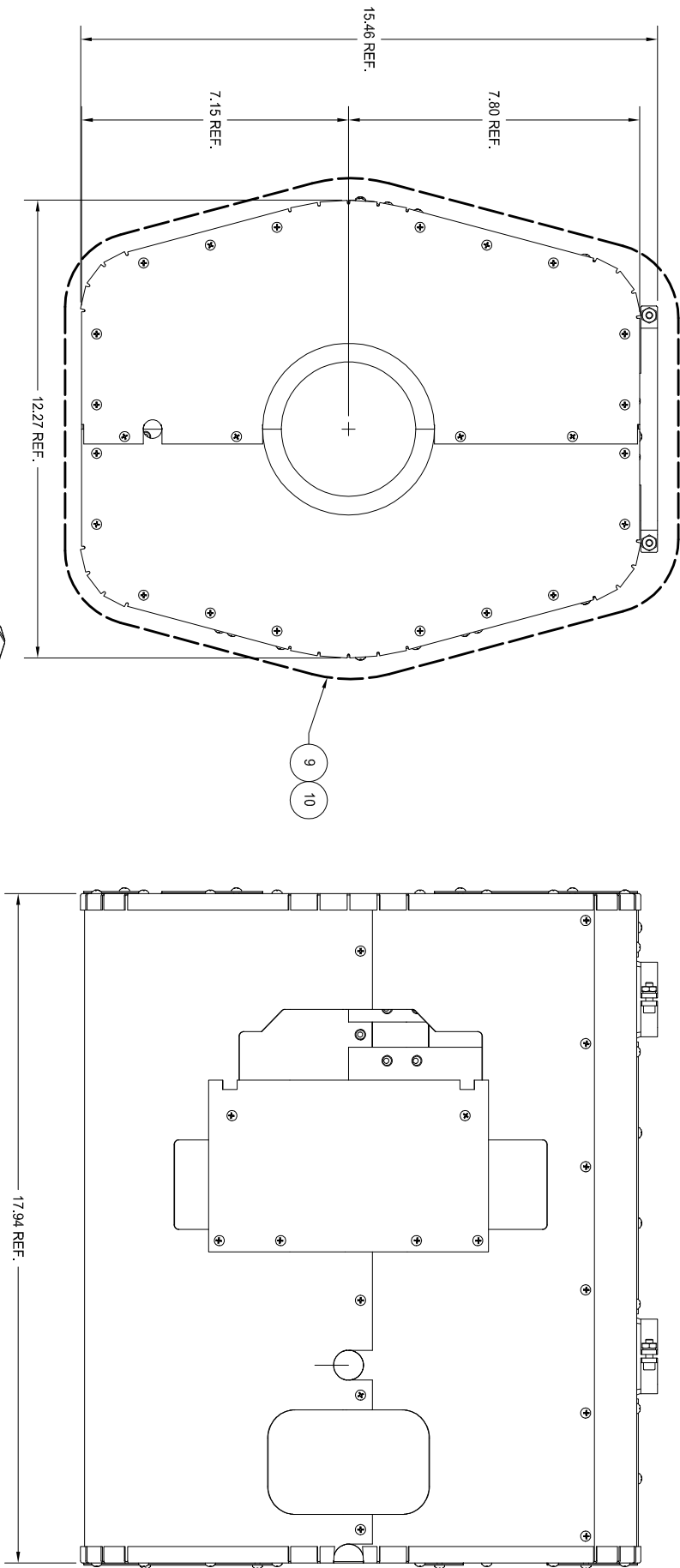
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| CORNELL UNIVERSITY | |  | | LEPP | |
| LABORATORY FOR ELEMENTARY PARTICLE PHYSICS | | | | | |
| F.R. NEWMAN LAB. ITHACA, NY 4853 | | | | | |

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|---|--|--|--|--|--|
| ERL Horizontal Test Cavity - Super Insulation Documentation | | | | | |
| 5K Left + Right Tube Super Insulation | | | | | |



ERL Horizontal Test Cavity - Super Insulation Documentation
5K Left + Right Tube Super Insulation

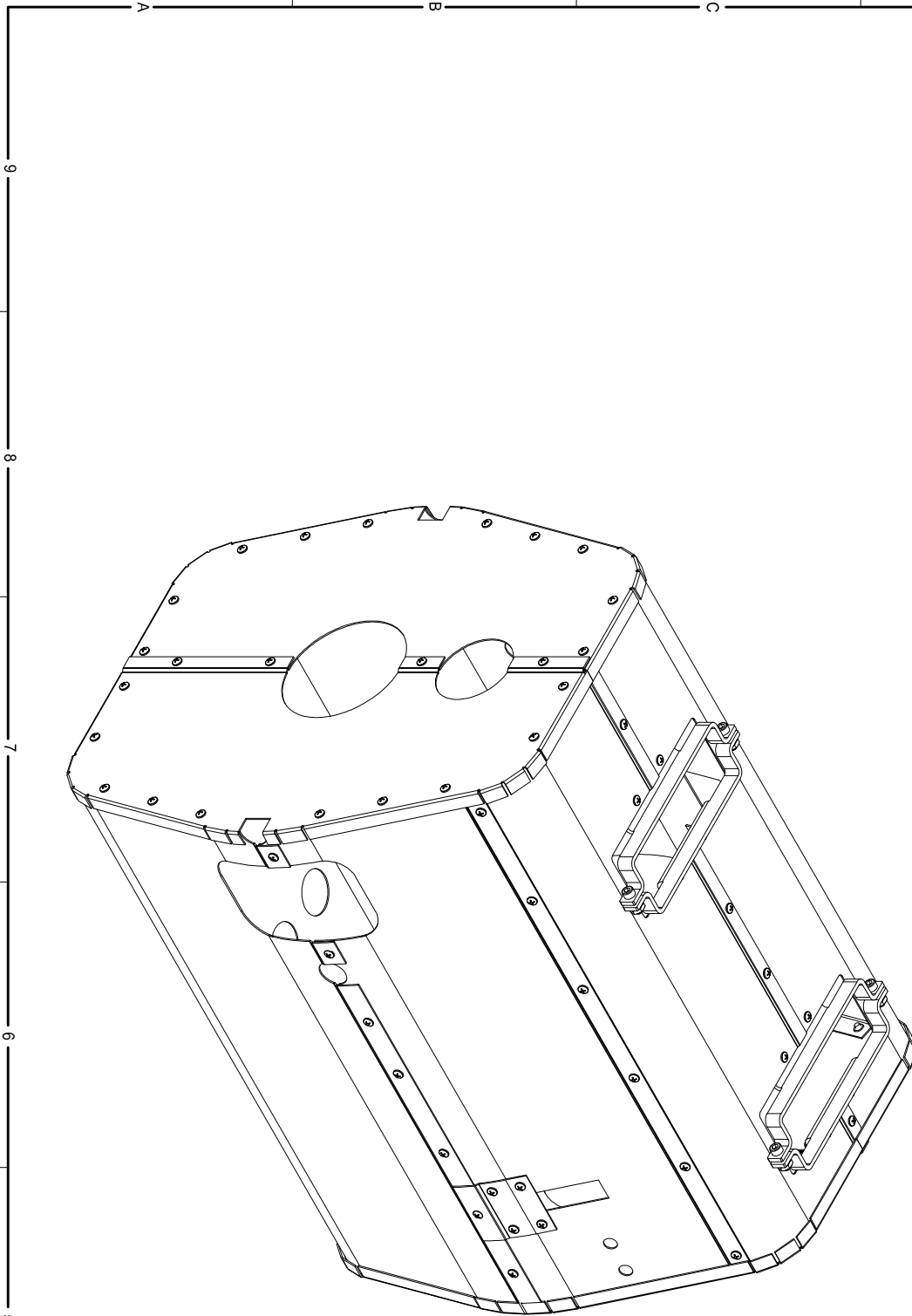
| REVISIONS | | | | DATE | APP. |
|-----------|------|-------------|--|------|------|
| SYL. | ZONE | DESCRIPTION | | | |
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MAGNETIC SHIELD II, LEFT + RIGHT SUPER INSULATION

FILE NAME: 7110-012-04
SCALE: NTS
MATT.: THIS ASM FOUND AT 7102-042, SH.1
PURCHASE : DAM Mylar/Spunbound Polyester Spacer Superinsulation - Meyer Tool or Equiv.

| MLI | # LAYERS | DIMENSIONS |
|-----------|------------------|---|
| PART - 9 | MAG SHIELD LEFT | 10 |
| | | WIDTH = 47" CIRCUMFERENCE + 3" OVERLAP = 50" |
| | | LENGTH = L + (2 x RAD) = 18 + (2 x 6.5) = 31" |
| PART - 10 | MAG SHIELD RIGHT | 10 |
| | | WIDTH = 47" CIRCUMFERENCE + 3" OVERLAP = 50" |
| | | LENGTH = L + (2 x RAD) = 18 + (2 x 6.5) = 31" |



| REV. | REMARKS | G1 | G2 | G3 | DATE | DRAWN FOR | DRAWN BY | CHANGED BY | EC | APPROVED BY | REV. |
|----------------------------|--------------|----|----|----|----------|-----------|----------|------------|----|-------------|------|
| D | PRINT DISTR. | | | | 03/26/07 | | | | | | |
| PLOT DATE: 03/26/07 | | | | | | | | | | | |
| CWD FILE NAME: 7110-012-04 | | | | | | | | | | | |
| UNLESS OTHERWISE SPECIFIED | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES | | | | | | | | | | | |
| TOLERANCES ON .000 .005 | | | | | | | | | | | |
| FRACTIONS 1/16" | | | | | | | | | | | |
| ANGLES 30° | | | | | | | | | | | |
| ALL SURFACES | | | | | | | | | | | |
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| DRAWN BY: TKM | | | | | | | | | | | |
| DATE: 03/21/07 | | | | | | | | | | | |
| SCALE: NTS | | | | | | | | | | | |
| SHEET NO. 4 OF 4 | | | | | | | | | | | |
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ERL Horizontal Test Cavity - Super Insulation Documentation
Magnetic Shield II, Left + Right Super Insulation