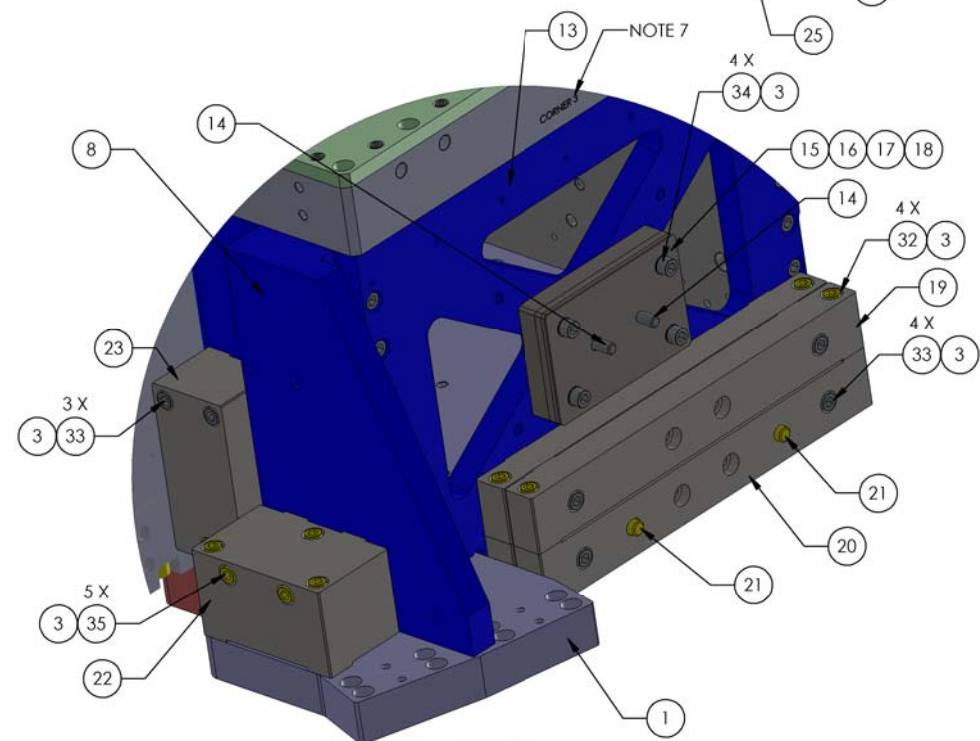
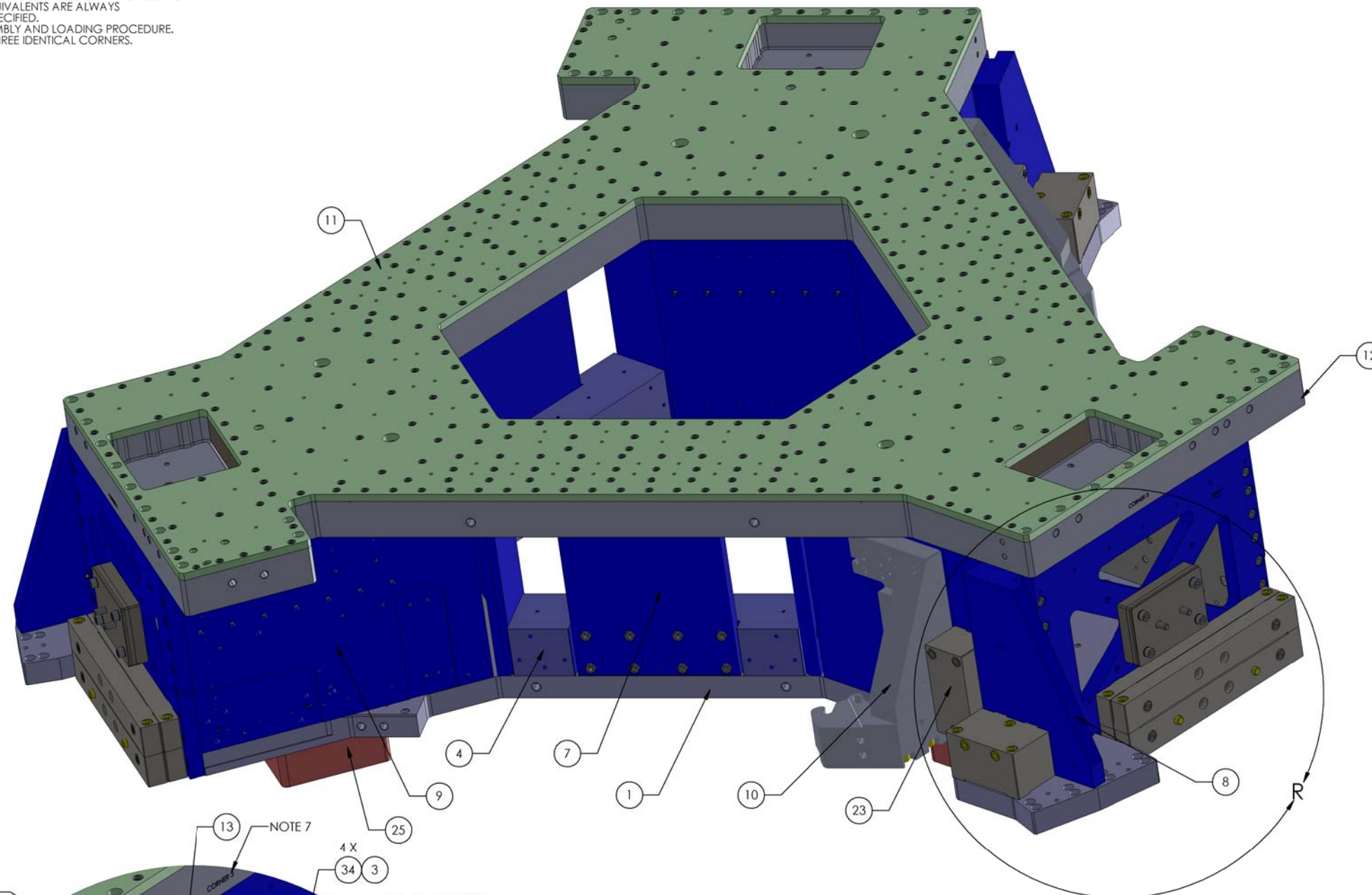


NOTES CONTINUED:
 5. VENDOR REFERENCES ARE PROVIDED AS EXAMPLES OF PARTS MEETING ALL REQUIRED SPECIFICATIONS. EQUIVALENTS ARE ALWAYS ACCEPTABLE UNLESS OTHERWISE SPECIFIED.
 6. REFER TO LIGO E0900357 FOR ASSEMBLY AND LOADING PROCEDURE.
 7. NOTE CORNER ID, ASSEMBLY HAS THREE IDENTICAL CORNERS.
 8. SEE SHEET FOR LAYOUT OF WALLS.

| REV. | DATE | DCN # | DRAWING TREE # |
|------|-------------|----------|----------------|
| v1 | 11 Jan 2011 | E1100026 | E1000025 |



| ITEM NO. | PART NUMBER | DESCRIPTION | MATERIAL | REQ |
|----------|----------------------|---|------------|-----|
| 35 | MCMASTER_92196A639 | SHCS 3/8-16 x 3.75 lg. 1 1/4 to 3" lhd | 18-8 SSSL | 15 |
| 34 | HOLOKROME_78106 | SHCS 3/8-16x2" | 18-8 SS | 12 |
| 33 | MCMASTER_92196A636 | SHCS, 3/8"-16x3.0" | 18-8 SS | 21 |
| 32 | MCMASTER_92196A637 | SHCS, 3/8"-16 X 3.25" (PARTIAL THREAD 1.25"-3") | 18-8 SSSL | 12 |
| 31 | UC_COMPONENTS_WFV-25 | Vented Washer, .255 ID X .468 OD X .032 THK #1/4 | 18-8 SSSL | 405 |
| 30 | HOLOKROME_78058 | SHCS, 1/4"-20x.75" | 18-8 SS | 405 |
| 29 | MCMASTER_90145A620 | Dowel Pin, .375 od x .625 lg | 18-8 SS | 12 |
| 28 | HOLOKROME_78102 | SHCS, 3/8"-16x1.5" | 18-8 SS | 120 |
| 27 | D0902443 | BACK RIBS, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 26 | D0902441 | SIDE RIBS, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 6 |
| 25 | D0902280 | BALLAST, STAGE 1, aLIGO BSC-ISI | 6061-T6 Al | 3 |
| 24 | MCMASTER_90145A624 | Dowel Pin, 3/8"x1.0" | 18-8 SS | 6 |
| 23 | D0902612 | LATERAL TRIM MASS 12 LBS., STAGE 1, aLIGO BSC-ISI | AlSI 304 | 3 |
| 22 | D0902613 | LATERAL TRIM MASS 15 LBS., STAGE 1, aLIGO BSC ISI | AlSI 304 | 3 |
| 21 | McMaster_90145A726 | Dowel Pin .50 od x 3.5 lg | 18-8 SSSL | 6 |
| 20 | D0902614 | Front Lower Trim Mass 10 Lbs., Stage 1, aLIGO BSC ISI | AlSI 304 | 6 |
| 19 | D0902615 | Front Upper Trim Mass 10 Lbs., Stage 1, aLIGO BSC-ISI | AlSI 304 | 6 |
| 18 | D0902616-4 | Small Trim Masses, Stage 1, aLIGO BSC-ISI | AlSI 304 | 3 |
| 17 | D0902616-3 | Small Trim Masses, Stage 1, aLIGO BSC-ISI | AlSI 304 | 3 |
| 16 | D0902616-2 | Small Trim Masses, Stage 1, aLIGO BSC-ISI | AlSI 304 | 3 |
| 15 | D0902616-5 | Small Trim Masses, Stage 1, aLIGO BSC-ISI | AlSI 304 | 3 |
| 14 | McMaster_90145A633 | Dowel Pin .375 od x 2.50 lg | 18-8 SS | 6 |
| 13 | D0902281 | Door, Stage 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 12 | D0902273 | Close Out Plate, Stage 1 aLIGO BSC-ISI | 6061-T6 Al | 1 |
| 11 | D0902503 | BSC-ISI, Stage 1, Close Out Plate Cover | 6061-T6 Al | 1 |
| 10 | D0902425 | FLEXURE ROD BRACKET ASSY, STAGE 1, aLIGO BSC ISI | N/A | 3 |
| 9 | D0902278 | L4C WALL, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 8 | D0902274 | FLEXURE WALL, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 7 | D0902282 | HEX INNER WALL, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 6 | D0902271 | ANGLED HEX WALL, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 5 | MCMASTER_90145A624 | Pin 3/8" (.3751) x 1.0 L | 18-8 SS | 39 |
| 4 | D0902272 | BLOCKS LINK, STAGE 1, aLIGO BSC ISI | 6061-T6 Al | 3 |
| 3 | UC_COMPONENTS_WFV-38 | Washer Vented, .39 ID X .63 OD X .032 THK #3/8" | 18-8 SS | 573 |
| 2 | HOLOKROME_78100 | SHCS, 3/8"-16x1.25" | 18-8 SS | 393 |
| 1 | D0902279 | Base Plate, Stage 1, aLIGO BSC-ISI | 6061-16 Al | 1 |

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
 1. INTERPRET DRAWING PER ASME Y14.5-1994.
 2. REMOVE ALL SHARP EDGES, R.02 MIN.
 3. DO NOT SCALE FROM DRAWING.
 4. ALL MACHINING FLUIDS MUST BE FULLY SYNTHETIC, FULLY WATER SOLUBLE AND FREE OF SULFUR, SILICONE, AND CHLORINE.

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± N/A
 .XXX ± N/A
 ANGULAR ± N/A*

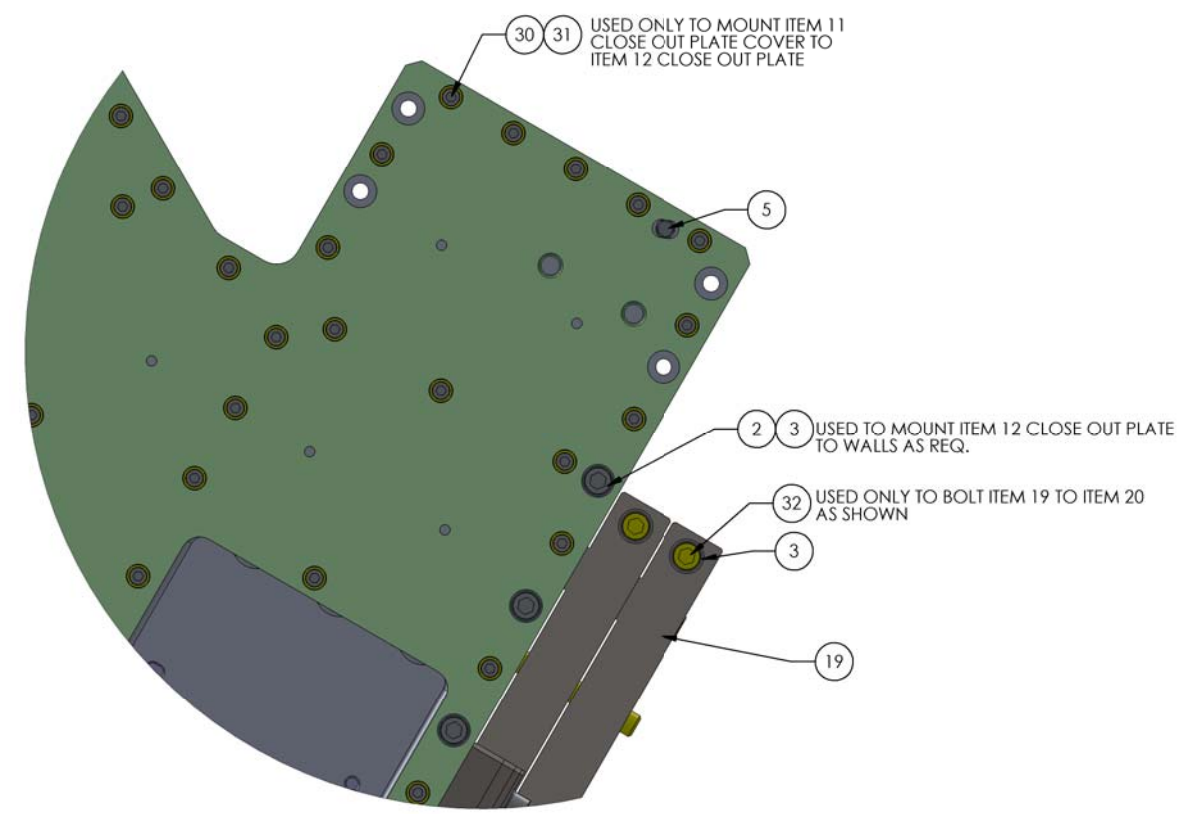
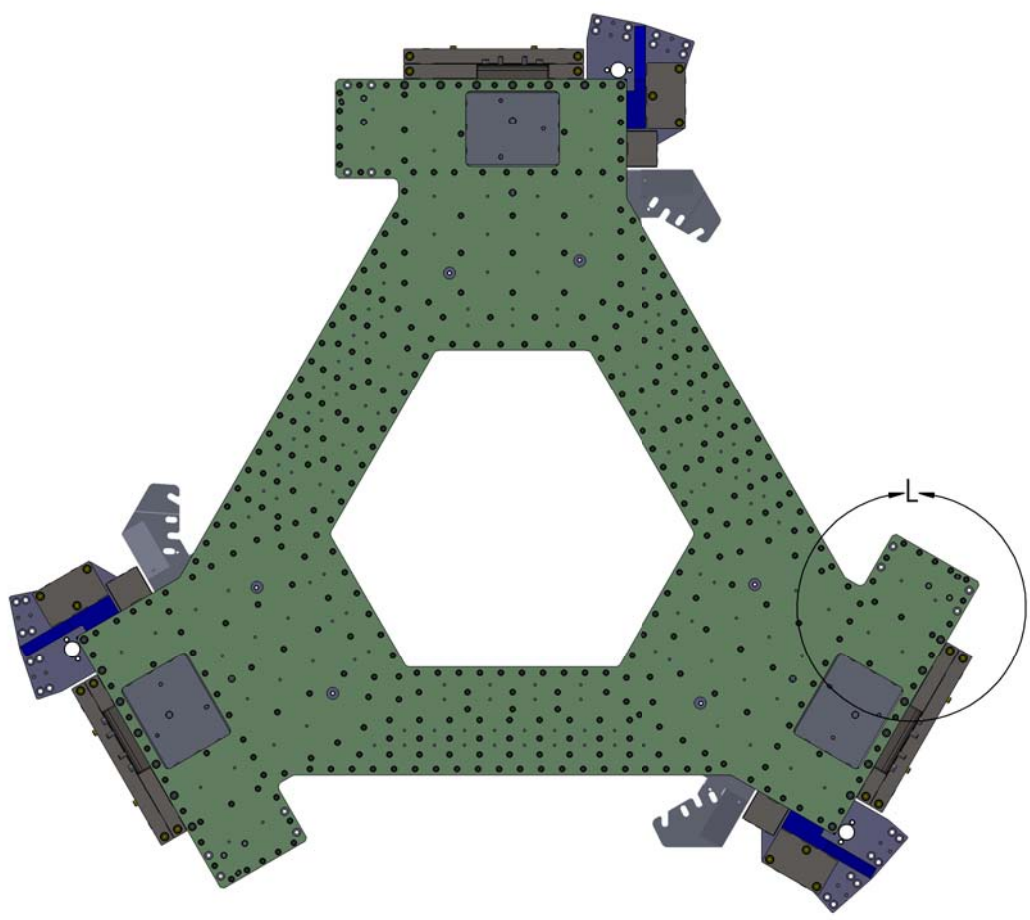
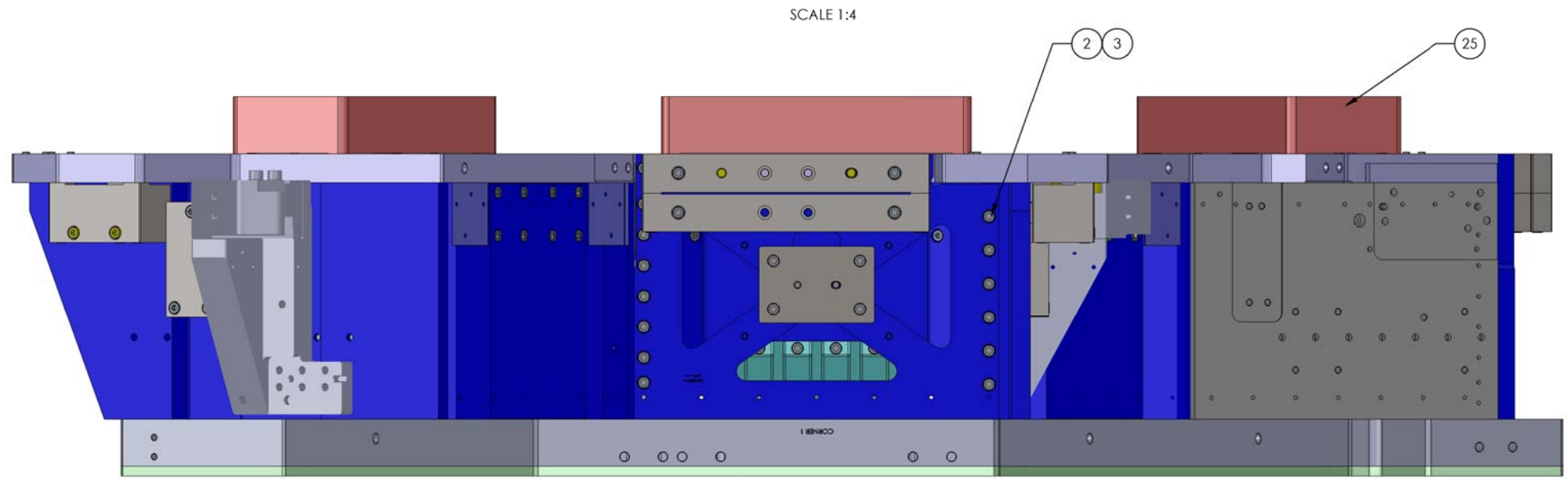
MATERIAL: N/A
 FINISH: N/A μinch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 SYSTEM: ADVANCED LIGO
 SUB-SYSTEM: SEI
 NEXT ASSY: D0901182

PART NAME: STAGE 1 ASSEMBLY, aLIGO BSC ISI

| | | | | | | | | |
|----------|-------------|---------------|-------|-----|------------|----------|--------------|----|
| DESIGNER | F.MATICHARD | 16 Sept. 2009 | SIZE | D | DWG. NO. | D0901180 | REV. | v1 |
| DRAFTER | M.HILLARD | 23 June 2010 | SCALE | 1:4 | PROJECTION | | SHEET 1 OF 4 | |
| CHECKER | A.STEIN | 23 June 2010 | | | | | | |
| APPROVAL | K.MASON | 23 June 2010 | | | | | | |

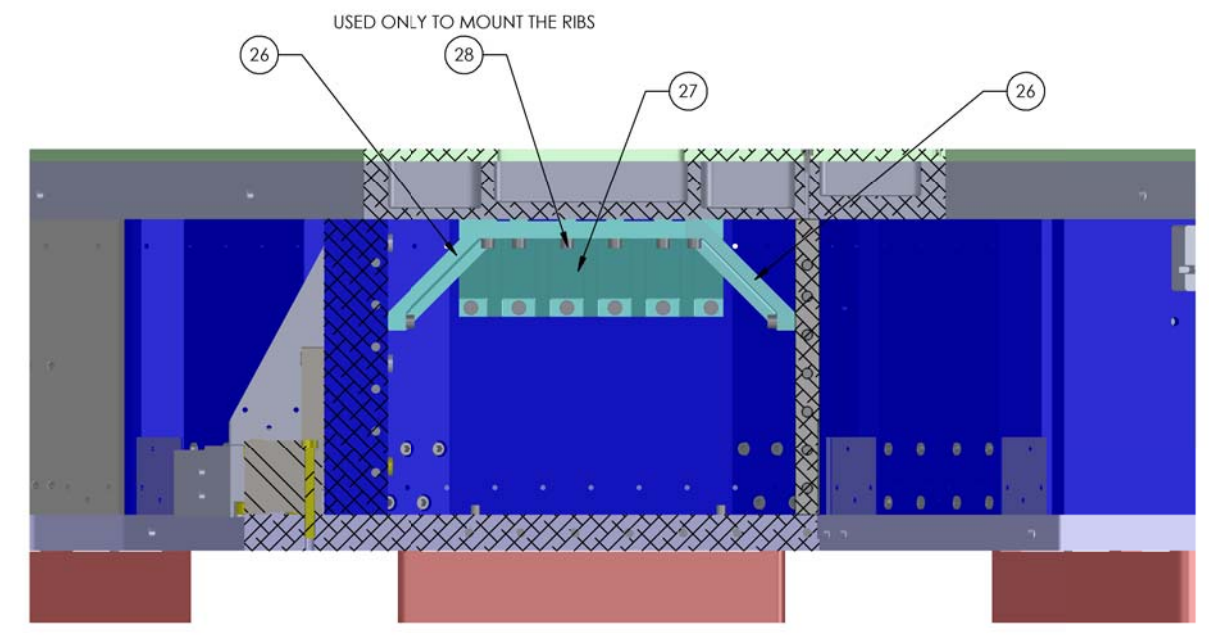
D0901180-Asst LIGO SEI Stage 1 Assembly, PART PDM REV: X-122, DRAWING PDM REV: X-008



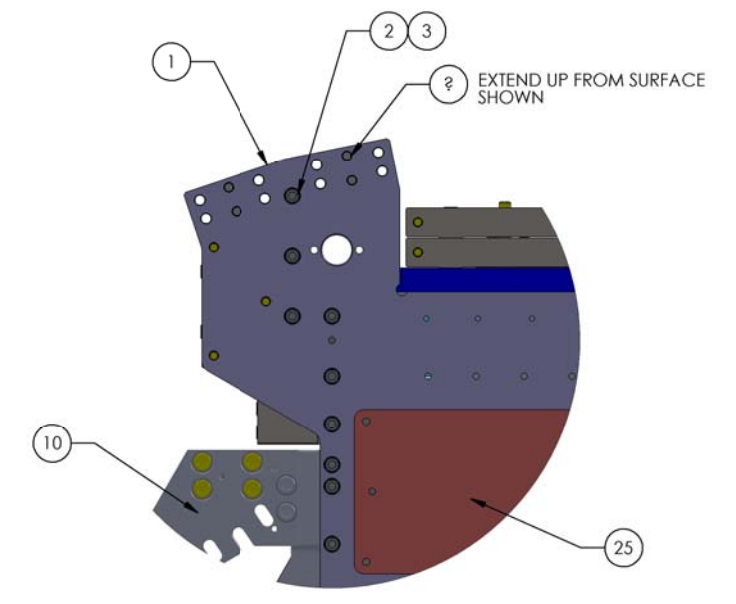
DETAIL L
SCALE 1 : 2
TYP. 3 CORNERS

| | | |
|---|-------------|--------------|
| LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | REV. |
| SIZE | DWG. NO. | REV. |
| D | D0901180 | v1 |
| SCALE: 1:8 | PROJECTION: | SHEET 2 OF 4 |

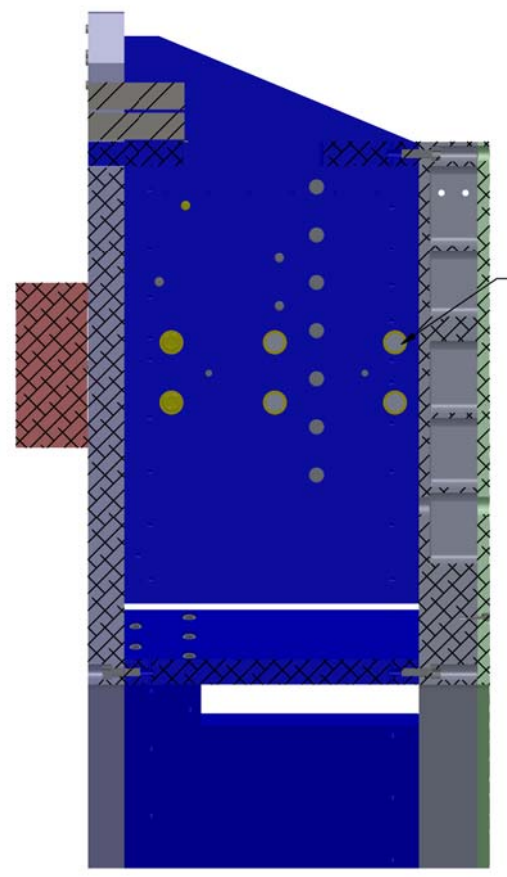
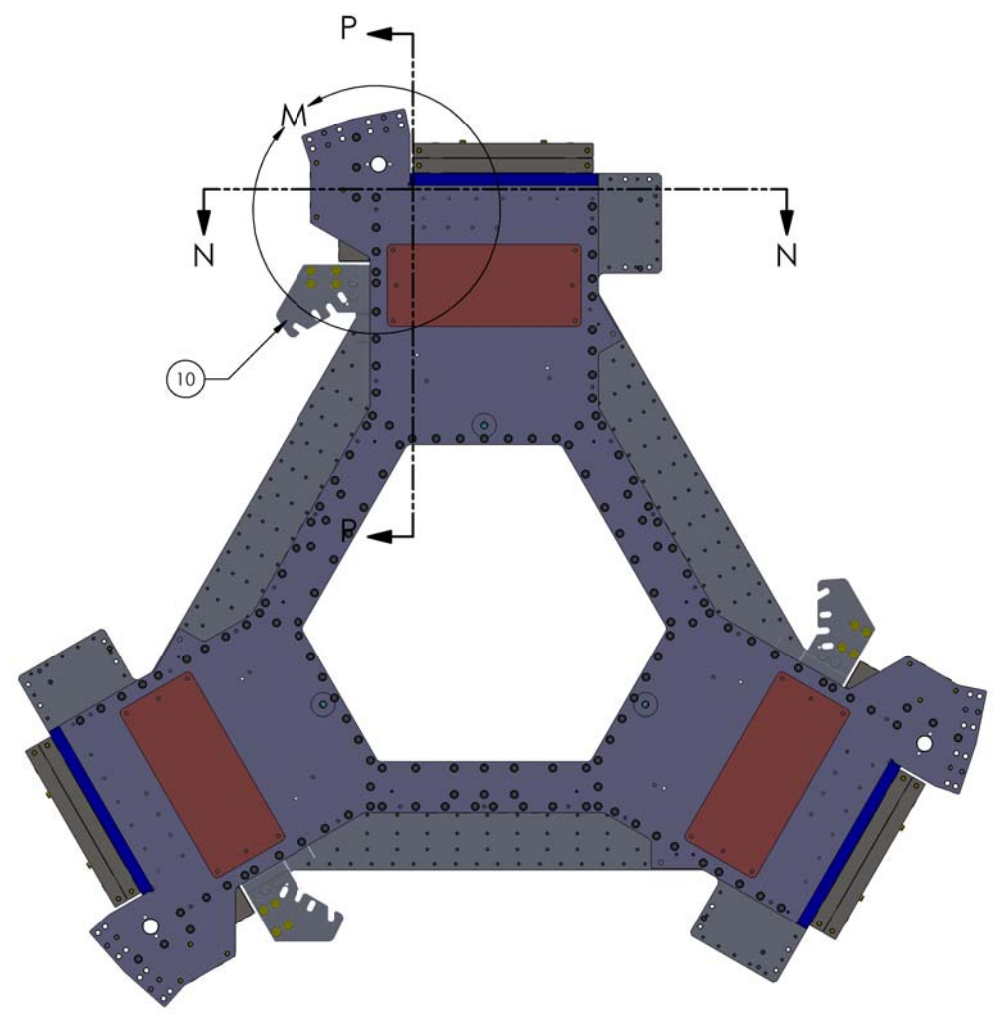
D0901180.A41.LIGO.ESI.BEC.Stage 1 Assembly, PART PDM REV: X-122, DRAWING PDM REV: X-008



SECTION N-N
SCALE 1 : 4
TYP. 3 CORNERS



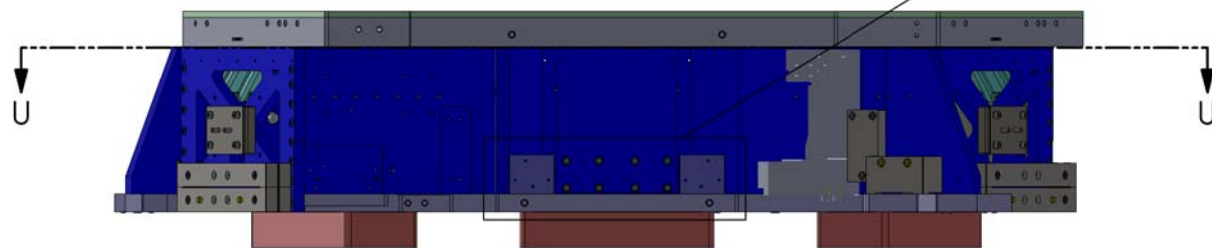
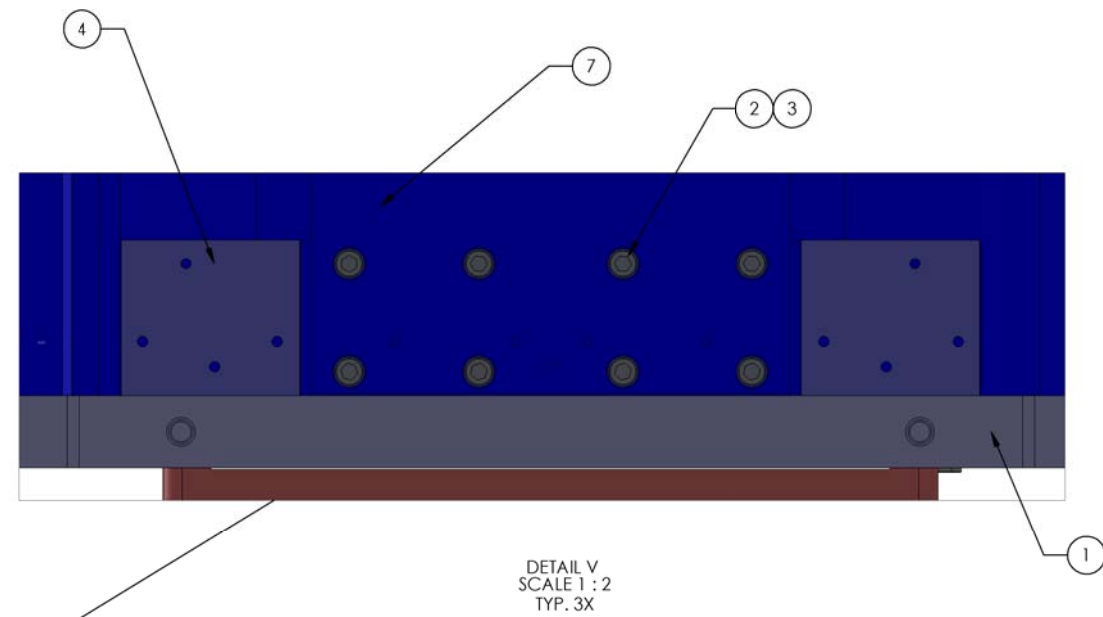
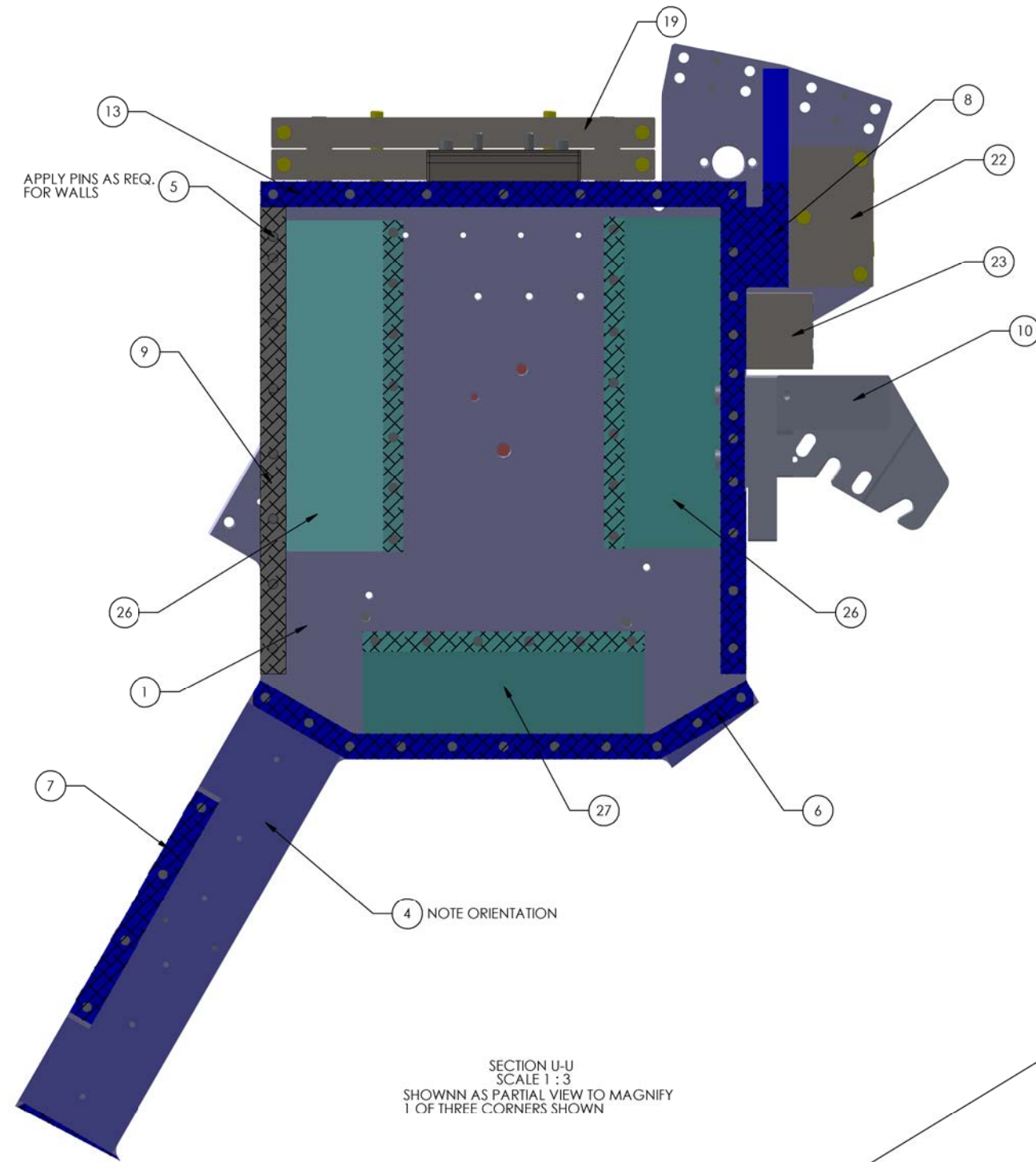
DETAIL M
SCALE 1 : 4
TYP. 3 CORNERS



SECTION P-P
SCALE 1 : 4

| | | |
|---|-------------|--------------|
| LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | REV. |
| SIZE | DWG. NO. | REV. |
| D | D0901180 | v1 |
| SCALE: 1:8 | PROJECTION: | SHEET 3 OF 4 |

D0901180.ASL LIGO SEI BEC Stage 1 Assembly, PART PDM REV: X-122, DRAWING PDM REV: X-008



| | | |
|---|-----------------|--------------|
| LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY | | REV. |
| SIZE | DWG. NO. | v1 |
| D | D0901180 | |
| SCALE: 1:8 | PROJECTION: | SHEET 4 OF 4 |

D0901180-Adj. LIGO SES BEC Stage 1 Assembly, PART PDM REV: X-122, DRAWING PDM REV: X-008