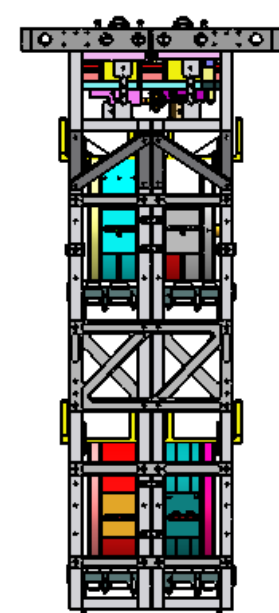
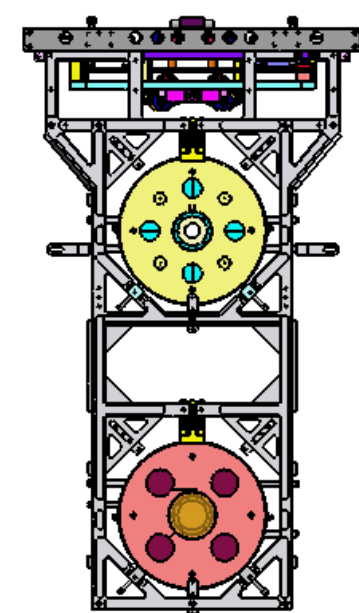
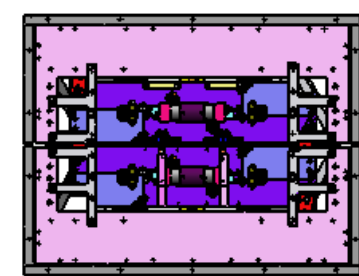
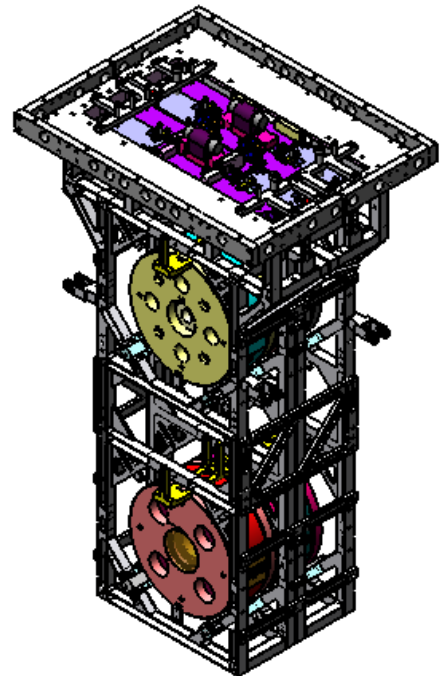


| REV. | DATE | DCN # | DRAWING TREE # |
|------|-------------|------------|----------------|
| A1 | 22 MAR 2006 | E060057-00 | E060059-A |
| | | | |
| | | | |



| ITEM NO. | REQ | SPARE | TOTAL | PART NUMBER | DESCRIPTION | MATERIAL |
|----------|-----|-------|-------|-------------|--|------------|
| 25 | 40 | 10 | 50 | -- | SSTL SOCKET HEAD CAP SCREWS 1/4-20 UNC x 1" LONG x 1.25" LONG & 0.75" LONG | 300 SSTL |
| 24 | 2 | | 2 | D050040 | ETM LOWER STRUCTURE SINGLE CATCHER | -- |
| 23 | 1 | | 1 | D060093 | SUS ETM INTERFACE RING ASSEMBLY TD 1039 410 | |
| 22 | 1 | 0 | 1 | D040360 | UPPER INTERMEDIATE RECTION MASS ASSEMBLY | --- |
| 21 | 1 | 0 | 1 | D040142 | PENULTIMATE REACTION MASS ASSEMBLY | --- |
| 20 | 1 | 0 | 1 | D040161 | REACTION TEST MASS ASSEMBLY | --- |
| 19 | 1 | 0 | 1 | D040350 | UPPER INTERMEDIATE MASS ASSEMBLY | --- |
| 18 | 1 | 0 | 1 | D040132 | PENULTIMATE MASS ASSEMBLY | --- |
| 17 | 1 | 0 | 1 | D040038 | TEST MASS ASSEMBLY | --- |
| 16 | 3 | 1 | 4 | -- | SST SOCKET HEAD CAP SCREW 0.5-13 UNC-2A X 3.5 LONG | 300 SSTL |
| 15 | 4 | 1 | 5 | -- | SST SOCKET HEAD CAP SCREW 0.25-20 UNC-2A X 2 LONG | 300 SSTL |
| 14 | 6 | 1 | 7 | -- | STAINLESS SHCS, 1/4-20X2.5, ROUNDED END | Ag 300 SST |
| 13 | 8 | 1 | 9 | D050247 | SPACER FOR BETWEEN THE LOWER CHAINS | 6061 Alloy |
| 12 | 2 | 1 | 3 | D050237 | UI MASS STOP BETWEEN CHAIN | 6061-T6-AI |
| 11 | 2 | 2 | 4 | D050236 | UI MASS TOP SAFETY STOPS VERTICAL | 6061-T6-AI |
| 10 | 2 | 2 | 4 | D050203 | UI MASS TOP SAFETY STOPS VERTICAL | 6061-T6-AI |
| REF | 1 | 1 | 2 | D040146 | Electrostatic Drive Evaporation Mask | -- |
| 7 | 2 | 0 | 2 | D050047 | ETM LOWER STR TOP FLANGE PLATE | 6061-T6-AI |
| 6 | 4 | 1 | 5 | D050051 | SIDE PLATE FOR SAFETY STOPS | 6061-T6-AI |
| 5 | 4 | 1 | 5 | D050050 | LONGITUDINAL CROSS STRUT | 6061-T6-AI |
| 4 | 4 | 1 | 5 | D050240 | TIE FOR ANGLED TRANS SIDE STRAP | 6061 Alloy |
| 3 | 6 | 0 | 6 | D050043 | ETM LOWER STR LONG SIDE STRAP | 6061-T6-AI |
| 2 | 2 | 1 | 3 | D050042 | LOWER STR LONG ZED STRAPS | 6061-T6-AI |
| 1 | 4 | 0 | 4 | D050041 | LONG. ANGLED V STRAP | |

PARTS LIST

NOTES: (UNLESS OTHERWISE SPECIFIED)

- DO NOT SCALE FROM DRAWING.
- FOR BALLOONS REFER TO PAGE 2 OF 2.
- NOT ALL HARDWARE IS CALLED OUT ON THE BOM. A SELECTION OF SSTL 1/4-20 UNC X VARIOUS LENGTHS FROM 0.5" LONG UP TO 1.25" LONG WOULD COVER THAT IS REQUIRED.

DIMENSIONS ARE IN INCHES
 TOLERANCES:
 .XX ± 0.01
 .XXX ± 0.005
 ANGULAR ± 0.5°
 MATERIAL --
 FINISH -- μ inch

LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
 IGR, GLASGOW UNIVERSITY GEO 600 GROUP

SYSTEM **ADVANCED LIGO**
 SUB-SYSTEM **SUS**
 NEXT ASSY **D040401**

DRAWN C. TORRIE
 CHECKED
 APPROVED

PART NAME
ETM LOWER STR ASSEMBLY RIG
 SIZE DWG. NO. **D040516**
 REV. **A1**
 SCALE: NTS PROJECTION: SHEET 1 OF 2

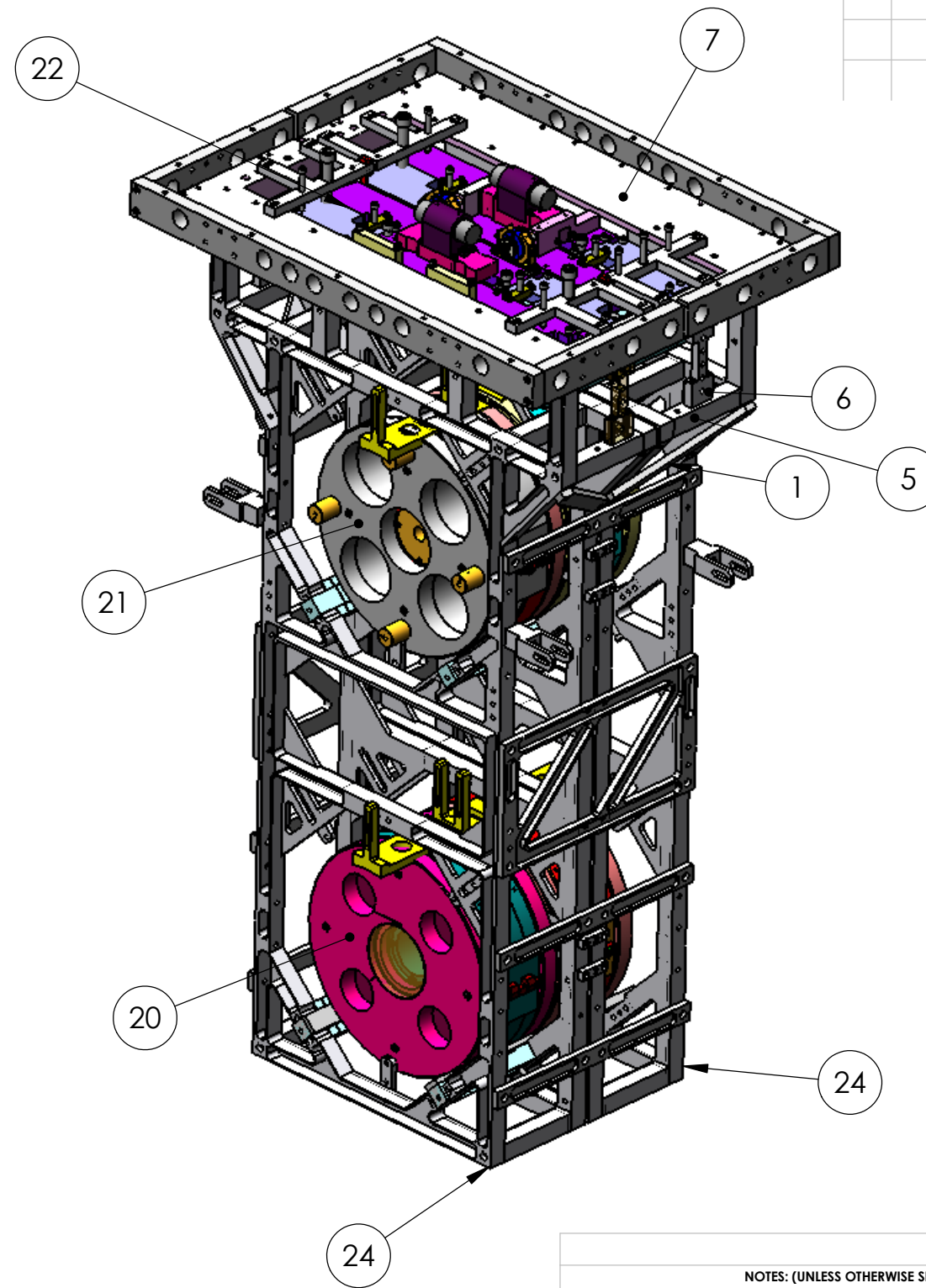
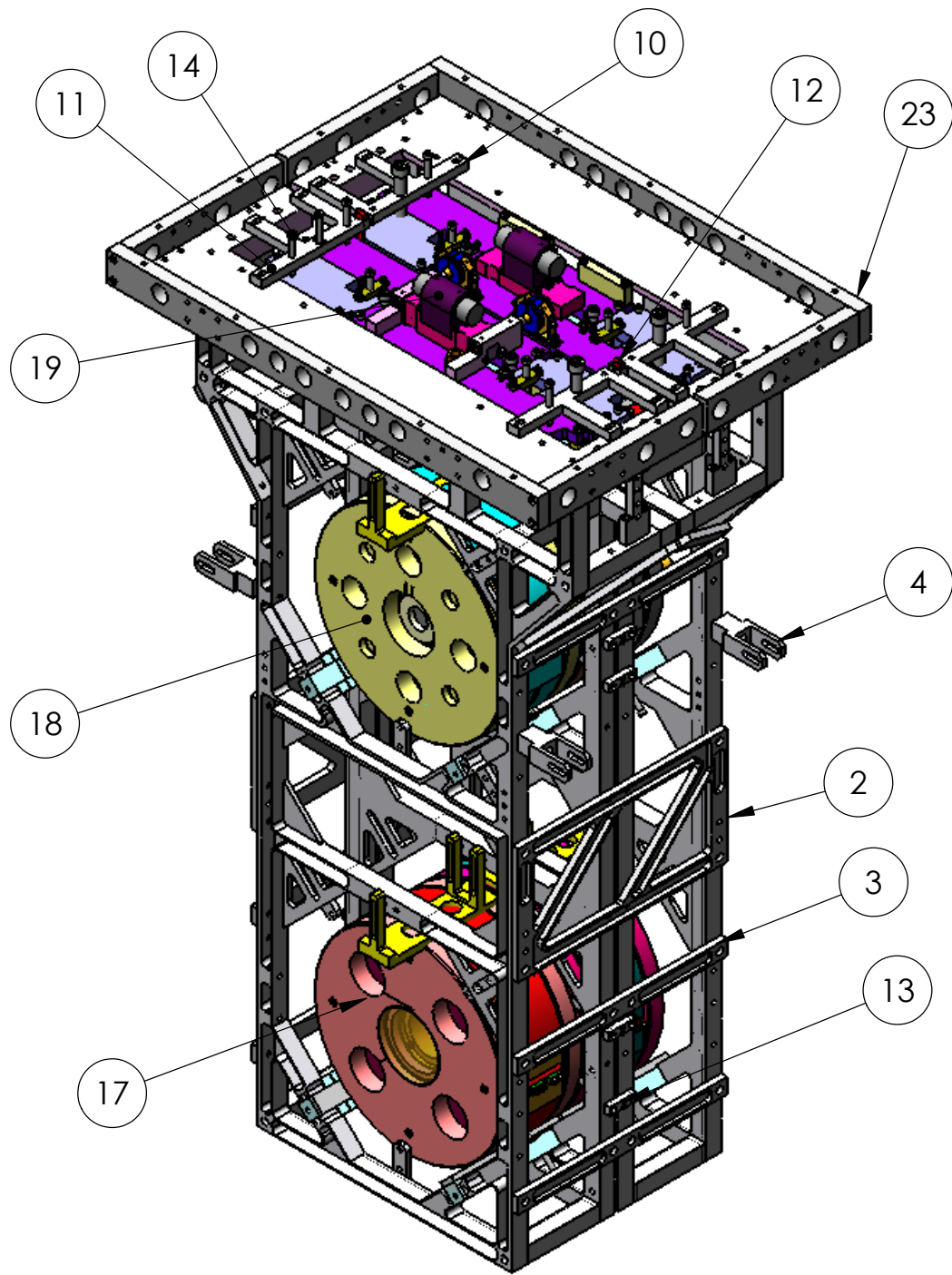
8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

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D
C
B
A

| REV. | DATE | DCN # | DRAWING TREE # |
|------|-------------|------------|----------------|
| A1 | 22 MAR 2006 | E060057-00 | E060059-A |
| | | | |
| | | | |



| NOTES: (UNLESS OTHERWISE SPECIFIED) | | | PARTS LIST | | | | | | | | | | | | | | | | | | | |
|---|----------------|-----------|---|------------|---|------|--------------|---------------|------------|-----|-----------|---------|---|--|---------------|---------|------------|----------------|--|--|--|--|
| REFER TO SHEET 1 OF 2 FOR OTHER NOTES. | | | DIMENSIONS ARE IN INCHES | | | | | | | | | | | | | | | | | | | |
| 4. FOR B.O.M. SEE SHEET 1 OF 2. | | | TOLERANCES: .XX ± 0.01 .XXX ± 0.005 | | | | | | | | | | | | | | | | | | | |
| | | | ANGULAR ± 0.5 ° | | | | | | | | | | | | | | | | | | | |
| | | | MATERIAL -- | | | | | | | | | | | | | | | | | | | |
| | | | FINISH -- μ inch | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>C. TORRIE</td> <td>MARCH 2006</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | | NAME | DATE | C. TORRIE | MARCH 2006 | | | | | | | | | | | | | | |
| NAME | DATE | | | | | | | | | | | | | | | | | | | | | |
| C. TORRIE | MARCH 2006 | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |
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| DRAWN | | C. TORRIE | | MARCH 2006 | | | | | | | | | | | | | | | | | | |
| CHECKED | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1"> <tr> <td colspan="2">LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP</td> </tr> <tr> <td>SYSTEM</td> <td>ADVANCED LIGO</td> </tr> <tr> <td>SUB-SYSTEM</td> <td>SUS</td> </tr> <tr> <td>NEXT ASSY</td> <td>D040401</td> </tr> <tr> <td colspan="2">PART NAME ETM LOWER STR ASSEMBLY RIG</td> </tr> <tr> <td>SIZE DWG. NO.</td> <td>D040516</td> </tr> <tr> <td>SCALE: NTS</td> <td>PROJECTION: --</td> </tr> </table> | | LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP | | SYSTEM | ADVANCED LIGO | SUB-SYSTEM | SUS | NEXT ASSY | D040401 | PART NAME ETM LOWER STR ASSEMBLY RIG | | SIZE DWG. NO. | D040516 | SCALE: NTS | PROJECTION: -- | | | | |
| LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY IGR, GLASGOW UNIVERSITY GEO 600 GROUP | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEM | ADVANCED LIGO | | | | | | | | | | | | | | | | | | | | | |
| SUB-SYSTEM | SUS | | | | | | | | | | | | | | | | | | | | | |
| NEXT ASSY | D040401 | | | | | | | | | | | | | | | | | | | | | |
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| REV. | A1 | | | | | | | | | | | | | | | | | | | | | |
| SHEET 2 OF 2 | | | | | | | | | | | | | | | | | | | | | | |