


| DWG. NO. | | SIZE | REV. | SH. | | |
|----------|---------|------|----------------------------------------------|-----|----------|--|
| 250154 | | 1 | 1 | | 1 | |
| ITEM | PART NO | REQD | DESCRIPTION | | MATERIAL | |
| 9 | 250155 | 4 | Beampipe Support Longeron Assembly | | | |
| 8 | 250154 | 1 | Beampipe Support Cruciform, Forward Position | | | |
| 7 | 250153 | 1 | Beampipe Support Cruciform, Middle Position | | | |
| 6 | 250152 | 1 | Beampipe Support Cruciform, Barrel End | | | |
| 5 | 250051 | 2 | Position Mechanism | | | |
| 4 | 250040 | 2 | Tension Mechanism | | | |
| 3 | | 4 | Socket Head Cap Screw M6-1 by 30MM LG | | Steel | |
| 2 | | 24 | Socket Head Cap Screw M3-.5 X 8MM LG | | Steel | |
| 1 | | 4 | Flat Washer M6 | | Steel | |

ASSEMBLY NOTE:

1. EACH LONGERON ASSY (ITEM 9) IS ATTACHED BY A PAIR OF M3-.5 X 8MM LG SCREWS TO EACH CRUCIFORM SUPPORT (ITEMS 6-8)
2. AS SHOWN IN DETAIL A, AN ADDITIONAL ATTACHMENT IS MADE WITH AN M6-1 X 30 MM LG SCREW AND M6 WASHER (ITEMS 1 AND 3) THRU THE FORWARD CRUCIFORM TO THE STRUT LONGERON MOUNT BUSHING (250180.PRT)

DETAIL A
SCALE 2.000

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|------|------|--------------------------------------------------|--|----------------|--|--------------------|--|----------------|--|-------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|-----------------|--|-------------|--|
| | | | | | UNLESS OTHERWISE SPECIFIED | | | | SHOP ORDERS | | | | SER NO. - | | <div>ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY</div> <div>UNIVERSITY OF CALIFORNIA - BERKELEY</div> <div></div> | | | | | | | |
| | | | | | X.X ± 0.1 | | FRAC. ± 1/64 | | ACCT NO. | | NO. REGD 1 | | DATE ISSD - | | | | | | | | | |
| | | | | | X.XX ± 0.01 | | Angles ± 0.50° | | DEL TO | | E Anderssen | | DATE REQD - | | | | | | | | | |
| | | | | | X.XXX ± 0.001 | | FINISH 125/32 | | SURFACE TREATMT | | | | | | | | | | | | | |
| | | | | | DO NOT SCALE PRINT | | | | IDENT METHOD TAG | | PROJECT NUMBER | | | | <div>ATLAS PIXEL DETECTOR</div> <div>BEAM PIPE AND SERVICES SUPPORT</div> <div>Main Assembly Side C</div> | | | | | | | |
| | | | | | THREADS ARE CLASS 2 | | | | | | | | | | | | | | | | | |
| | | | | | CHAMFER ENDS OF ALL SCREW THREADS 30° | | | | PROJECT NAME | | | | | | | | | | | | | |
| | | | | | CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS | | | | DWG BY D Uken | | DATE 05-Sep-03 | | | | | | | | | | | |
| | | | | | BREAK EDGES .016 MAX. ON MACHINED WORK | | | | CHK BY N Hariman | | DATE | | | | PATENT CLEAR: | | DESIGN ACCT. NO. See WebJO | | DWG. NO. 250154 | | SIZE REV. 1 | |
| | | | | | REMOVE BURRS, WELD SPLATTER & LOOSE SCALE | | | | APR BY E Anderssen | | DATE | | | | | | API000 | | SHEET 1 OF 2 | | | |
| | | | | | IN ACCORDANCE WITH ASME Y14.5M & B46.1 | | | | | | | | | | | | | | | | | |
| REV | DWG | CHK | ZONE | DATE | CHANGES | | | | | | | | | | | | | | | | | |