TOP VIEW  
(BELOW PULLEYS)

ATTACH 2 PL. (MID. & BOTTOM)

4" X .180 ALUMINUM CHANNELS

1/2" ALUMINUM

3/4" OAK

2 1/2" RND STEEL COUNTER-WEIGHT

(FIXED BOARD)

THOMPSON LINEAR BEARING:  
SUPER 12-OPN & PILLOW BLOCK  
CLASS PD 60 CASE SHAFT  
LSR-12-PD RAIL

(MOVEABLE BOARD)

UNLESS OTHERWISE SPECIFIED,  
TOLERANCES:  .XX ± .01  
            .XXX ± .005  
            .XXXX ± .001  
ANGLES ± 1/2"  
FRACTIONAL ± 1/32"

DRAWING #: 3769  
DATE: 6/27/94  
SCALE: 1/1  
QTY:  
MATERIAL:  
DRAWN BY: JIM KASTENGREN 492-3722

PHYSICS PRECISION INSTRUMENT SHOP  
UNIVERSITY OF COLORADO, BOULDER
TOP VIEW
(PULLEY & BEARINGS)
RIGHT SIDE VIEW
(PULLEY & BEARINGS)
CHALKBOARD ASSEMBLY:

13'-3" TOP OF BOARD TRAVEL

4'-0"

8'-8"

(FIXED BOARD)

3'-0"

9" BOTTOM OF BOARD TRAVEL

1/2"

1"

DETAIL C

DETAIL B

DETAIL A
DETAIL A
SCALE 1:1

(BACK CHANNEL)

DOOR FRAME
DETAIL C
SCALE 1:1

(BACK CHANNEL)
DRILL THROUGH 5/8 DIA. (2 PL.) REPEAT ONCE @ 86"

DRILL & TAP 1/4-20 THROUGH (2 PL.) REPEAT 5 TIMES @:
36 1/2"
59"
81 1/2"
119"
156 1/2"

TOLERANCES:
.XX ± .01
.XXX ± .005
.XXXXX ± .001
ANGLES ± 1/2"
FRACTIONAL ± 1/32"

UNIVERSITY OF COLORADO, BOULDER

PHYSICS PRECISION INSTRUMENT SHOP

REAR CHANNEL (PG.1 OF 2)

DRAWING #: 3769-1 DATE: 6/28/94
SCALE: 1/2 QTY: 2/BOARD
MATERIAL: 4" X .180 ALUM CHANNEL
DRAWN BY: JIM KASTENGREN 492-3722
DRILL THROUGH 5/8 DIA (2 PL)

DRILL THROUGH 3/8 DIA (4 PL)
CSK FROM BACK FOR 3/8 FH

DRILL & TAP 1/4-20 THROUGH (2 PL.)
(Burr Flanges)

164"

2.000

156 1/2"

REAR CHANNEL (PG. 2 OF 2)
DRILL & TAP 1/4-20 (2 PL) THROUGH BOTH FLANGES
REPEAT 5 TIMES @:
36 1/2"
59"
81 1/2"
119"
156 1/2"

UNLESS OTHERWISE SPECIFIED,
TOLERANCES:
XX ± .01
XXX ± .005
XXXX ± .001
ANGLES ± 1/2"
FRACTIONAL ± 1/32"

PHYSICS PRECISION INSTRUMENT SHOP
UNIVERSITY OF COLORADO, BOULDER

FRONT CHANNEL (PG. 1 OF 2)
DRAWING #: 3769-2 DATE: 6/28/94
SCALE: 1/2 QTY: 2/BOARD
MATERIAL: 4" X .180 ALUM CHANNEL
DRAWN BY: JIM KASTENGREN 492-3722
CHAMFER 45° X 1/4
(TO FIT INTO CHANNEL)

TAP THROUGH
(OR FROM BOTH SIDES)
3/8-16 UNC

OVERALL DIMENSIONS:
4.875" X 3.5" X 1.5"

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UNLESS OTHERWISE SPECIFIED,
TOLERANCES: .XX ± .01
               .XXX ± .005
               .XXXX ± .001
ANGLES ± 1/2°
FRACTIONAL ± 1/32"

TOP MOUNT BLOCK
DRAWING #: 3769-3   DATE: 7/1/94
SCALE: 1/1   QTY: 2/BOARD
MATERIAL: ALUMINUM
DRAWN BY: JIM KASTENGREN 492-3722
<table>
<thead>
<tr>
<th>PHYSICS PRECISION INSTRUMENT SHOP</th>
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<td>UNIVERSITY OF COLORADO, BOULDER</td>
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<thead>
<tr>
<th>UNLESS OTHERWISE SPECIFIED, TOLERANCES:</th>
<th>CHANNEL CONNECTORS</th>
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</thead>
<tbody>
<tr>
<td>.XX ± .01</td>
<td>DRAWING #: 3769-4</td>
</tr>
<tr>
<td>.XXX ± .005</td>
<td>DATE: 7/1/94</td>
</tr>
<tr>
<td>.XXXX ± .001</td>
<td>SCALE: 1/1</td>
</tr>
<tr>
<td>ANGLES ± 1/2&quot;</td>
<td>QTY: 2Ø/BOARD</td>
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<tr>
<td>FRACTIONAL ± 1/32&quot;</td>
<td>MATERIAL: 1/2&quot; ALUM. PLATE</td>
</tr>
<tr>
<td>DRAWN BY: JIM KASTENGREN 492-3722</td>
<td>DRAWN BY: JIM KASTENGREN 492-3722</td>
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</tbody>
</table>

DRILL THRU & CSK FOR 1/4" FH (4 PL)
DRILL THRU 3/8 DIA (2 PL)

UNLESS OTHERWISE SPECIFIED,
TOLERANCES:  .XX ± .01
             .XXX ± .005
             .XXXX ± .001
ANGLES ± 1/2°
FRACTIONAL ± 1/32"

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BEARING STAND-OFFS
DRAWING #: 3769-5     DATE: 7/1/94
SCALE: 1/1             QTY: 4/BOARD
MATERIAL: ALUMINUM
DRAWN BY: JIM.KASTENGREN 492-3722
Ø3/8, 3/4 deep in 1 of 2 blocks (to fit swaged end of cable)

Groove 5/32 W. X .400 DP. for cable

Drill & Tap 8-32 (4 PL)

Ream .251, 1 1/4 DP.
Ø3/8, 3.4 deep in 1 of 2 parts (to fit s-vaged end of cable)

Machine to fit over chalkboard trim

Groove 5/32 w. x .400 dp. for cable

Drill & tap 8-32 (4 pl.)

UNLESS OTHERWISE SPECIFIED, TOLERANCES:

XX ± .01
XXX ± .005
XXXX ± .001
ANGLES ± 1/2°
FRACTIONAL ± 1/32"
DRILL & CBR FROM BACK FOR #10 SCREW (2 PL)

DRILL & CBR FOR #6 SCREW

1.125
1.875
2.50
0.000
0.250
0.500
0.438
0.688

5/8

MACHINE TO FIT OVER ChALKBOARD TRIM

物理精确仪器车间
科罗拉多大学，博尔德

UNLESS OTHERWISE SPECIFIED,
TOLERANCES:  XX ± .01
            XXX ± .005
            XXXX ± .001
ANGLES ± 1/2°
FRACTIONAL ± 1/32"

MOVEABLE BOARD ATTACHMENT BLOCK
DRAWING #: 3769-9       DATE: 7/5/94
SCALE: 1/1       QTY: 24/BOARD
MATERIAL: ANODIZED ALUMINUM
DRAWN BY: JIM KASTEN GREN 492-3722