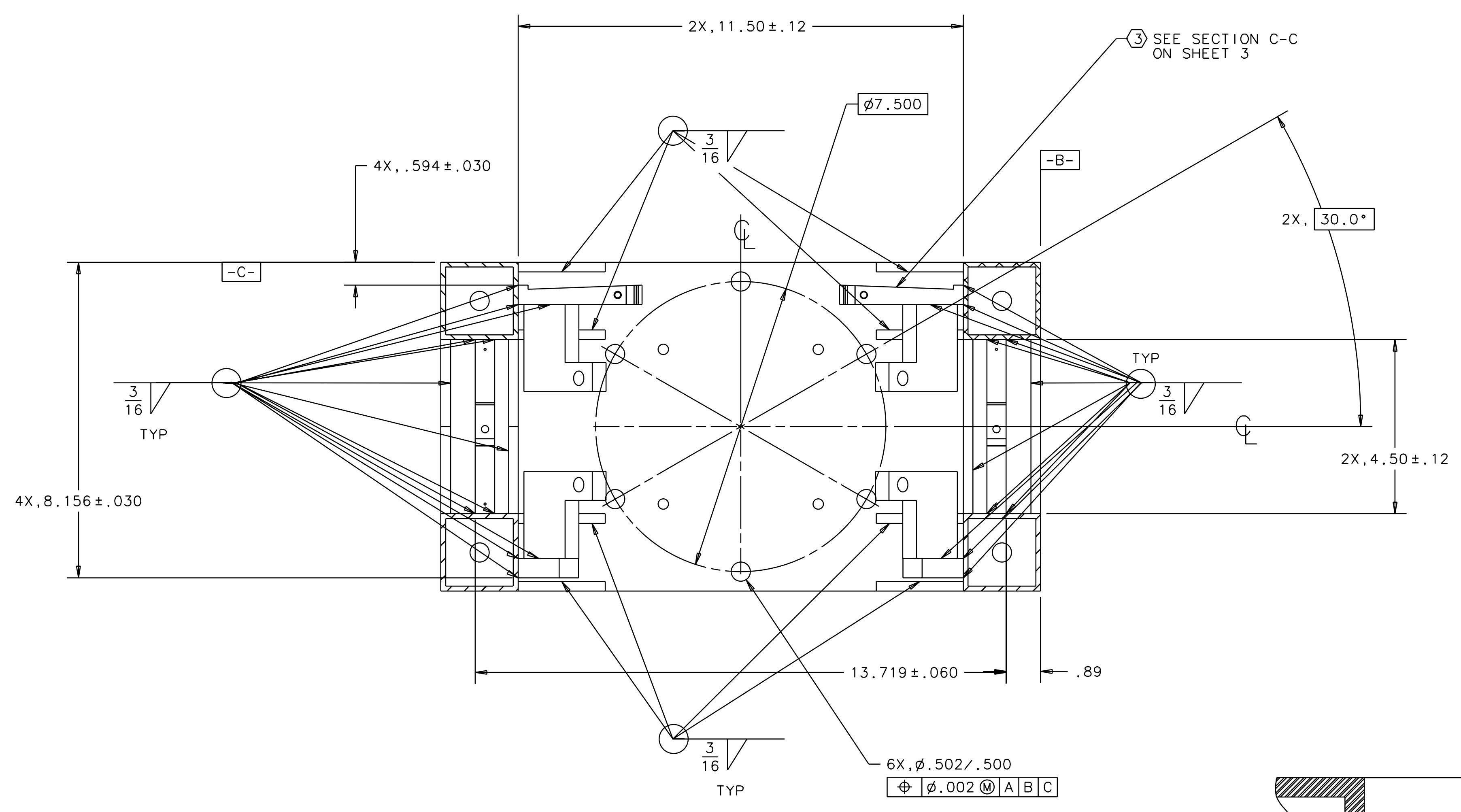


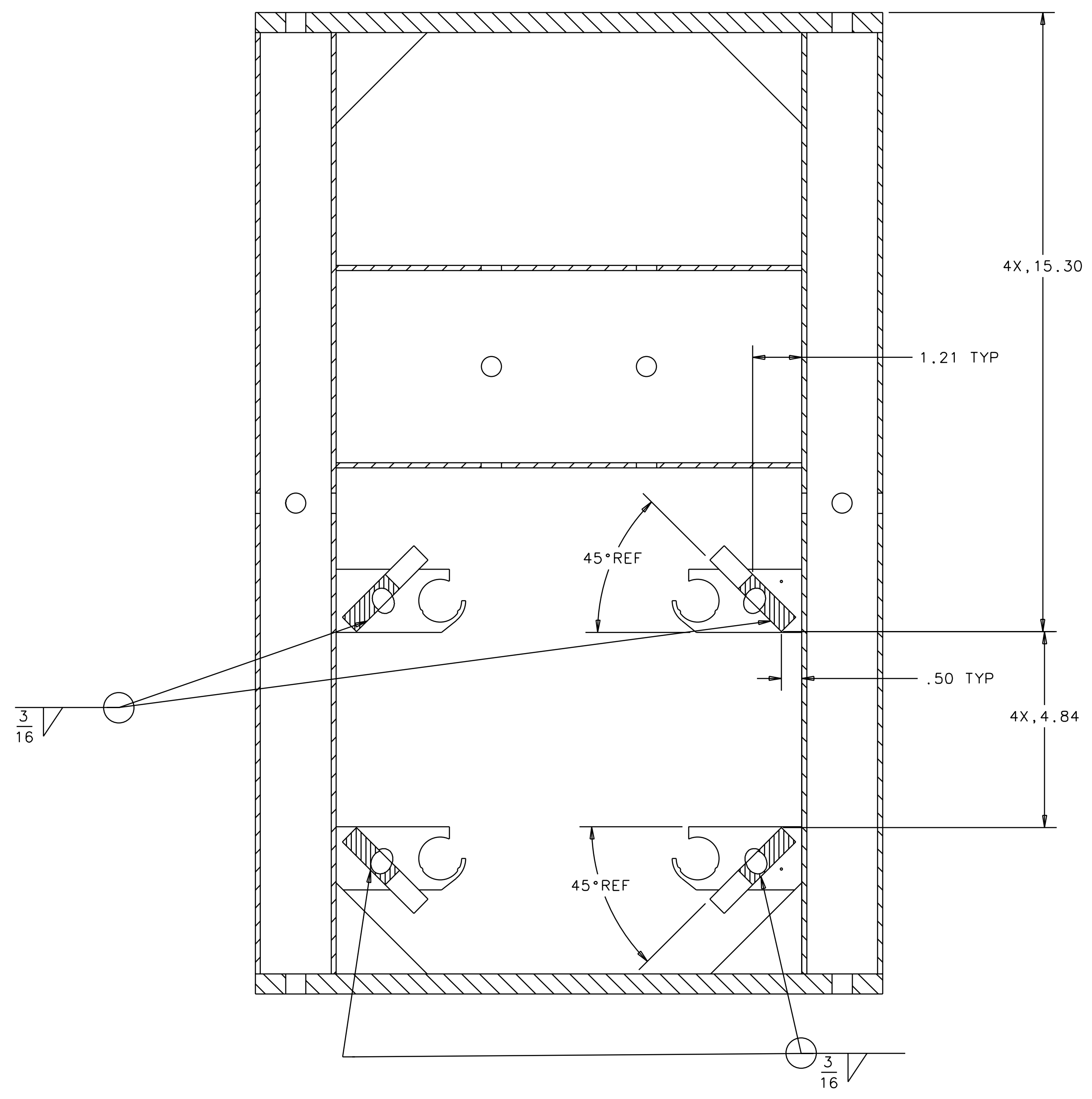
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A	1/19/98	J. Hazel			E980004/INITIAL RELEASE
B	2/5/98	J. Hazel			E980011/CHANGE TO NOTE 3 CHANGE TO SECTION A-A
C	4/2/98	J. Hazel			E980075/ADD SHEET 4
D	4/21/98	J. Hazel			E980085/CHANGE CHAMFER STOP IDENTIFICATION
E	5/1/98	J. Hazel			E980088-00/ADD I.D. CALLOUT
F	7/16/98	C. Conley			E980173/ADD DRAIN HOLES, OPEN TOLERANCES AND CHANGE S/A DIMENSIONS



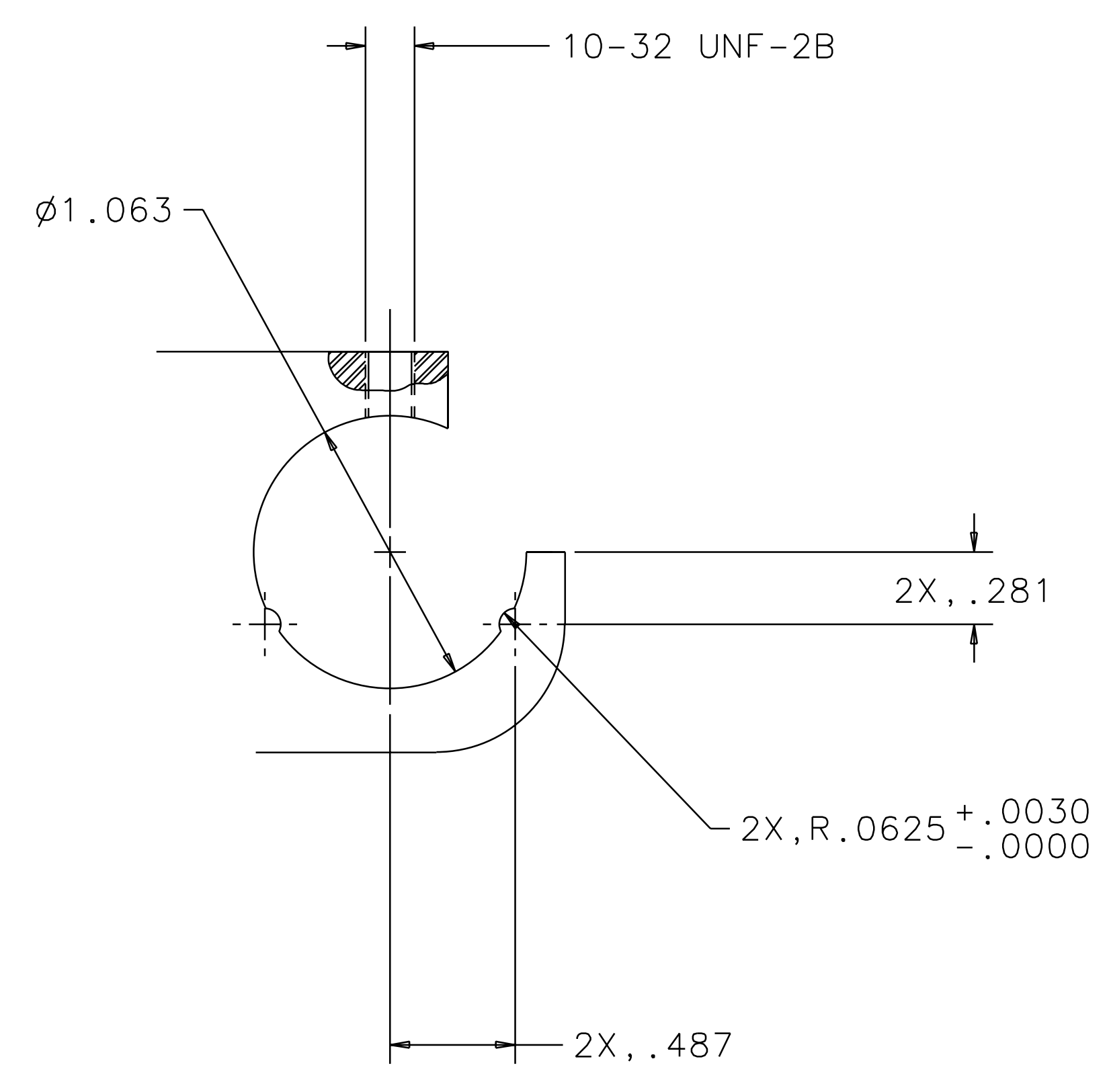
SECTION A-A



SECTION C-C
FLY CUT DEFINED
IN NOTE 3



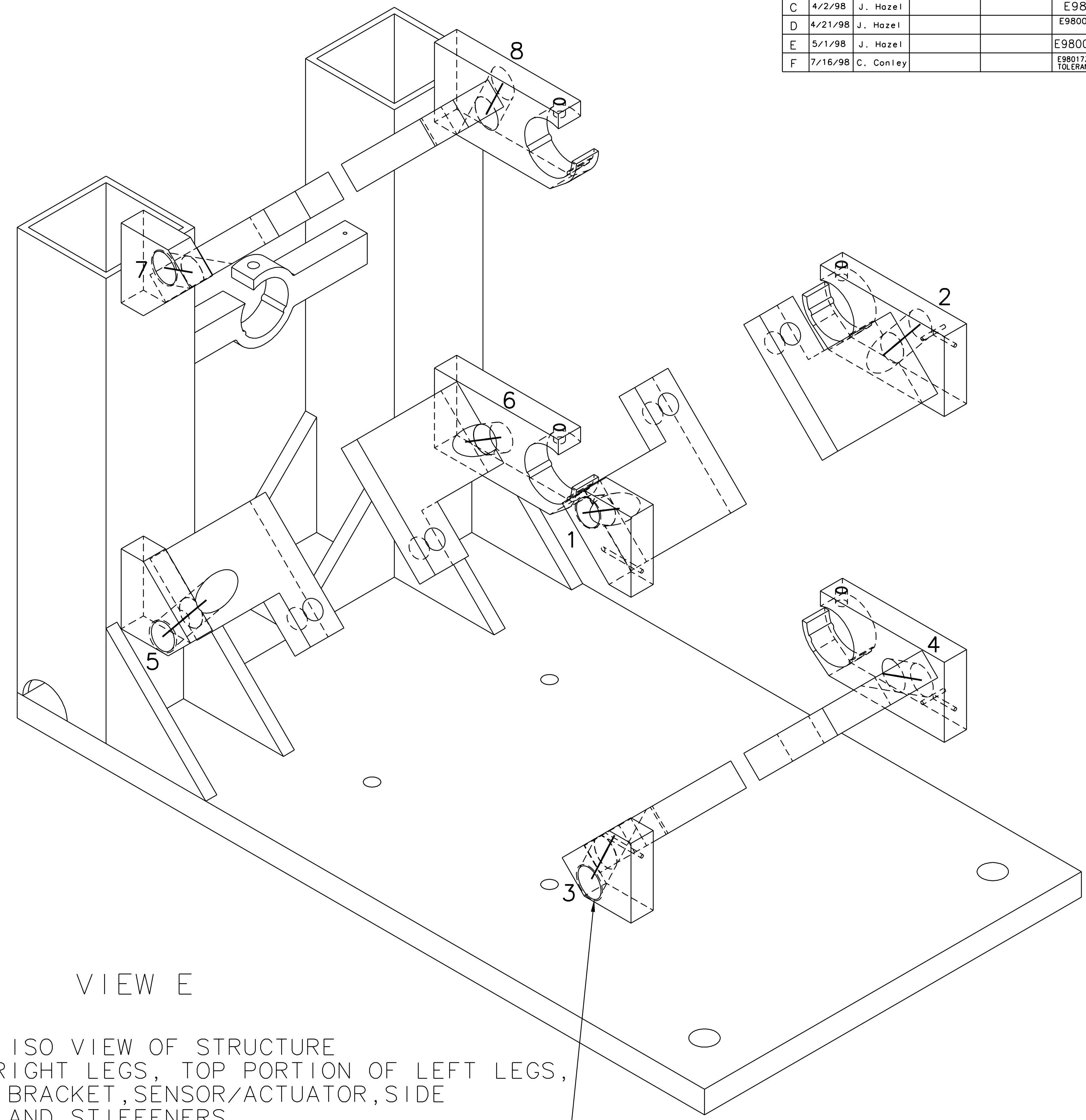
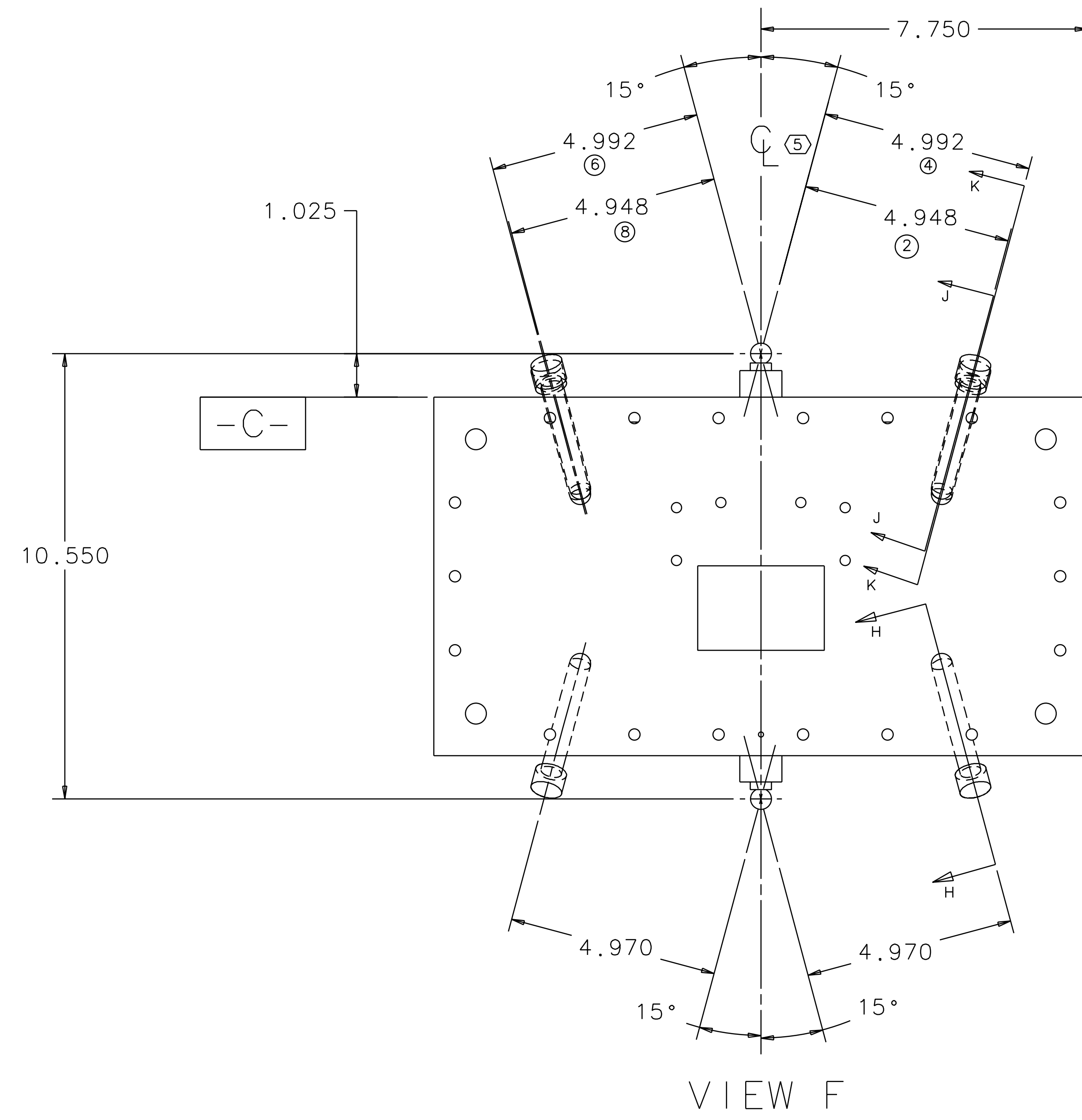
SECTION B-B



VIEW D 2
SCALE 2/1
TYPICAL 6 PLACES

QTY REQ	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
		LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .005 ± .003 ± .05		APPROVALS	DATE	TITLE
DO NOT SCALE DRAWING		J. Hazel	4/96	LARGE OPTIC SUSPENSION STRUCTURE ASSEMBLY
NEXT ASSEMBLY D960132		MATERIAL	SIZE	REV
FILE LOCATION home/dcc/docs/D960133.pdf		FINISH	E D960133	F
SCALE 1/2			SHEET 2 OF 5	

REV	DATE	DRAWN BY	CHECKED	DCC	DCN/DESCRIPTION
A	1/19/98	J. Hazel			E980004/INITIAL RELEASE
B	2/5/98	J. Hazel			E980011/CHANGE TO NOTE 3 CHANGE TO SECTION A-A
C	4/2/98	J. Hazel			E980075/ADD SHEET 4
D	4/21/98	J. Hazel			E980085/CHANGE CHAMFER STOP IDENTIFICATION
E	5/1/98	J. Hazel			E980088-00/ADD I.D. CALLOUT
F	7/16/98	C. Conley			E980173/ADD DRAIN HOLES, OPEN TOLERANCES AND CHANGE S/A DIMENSIONS.



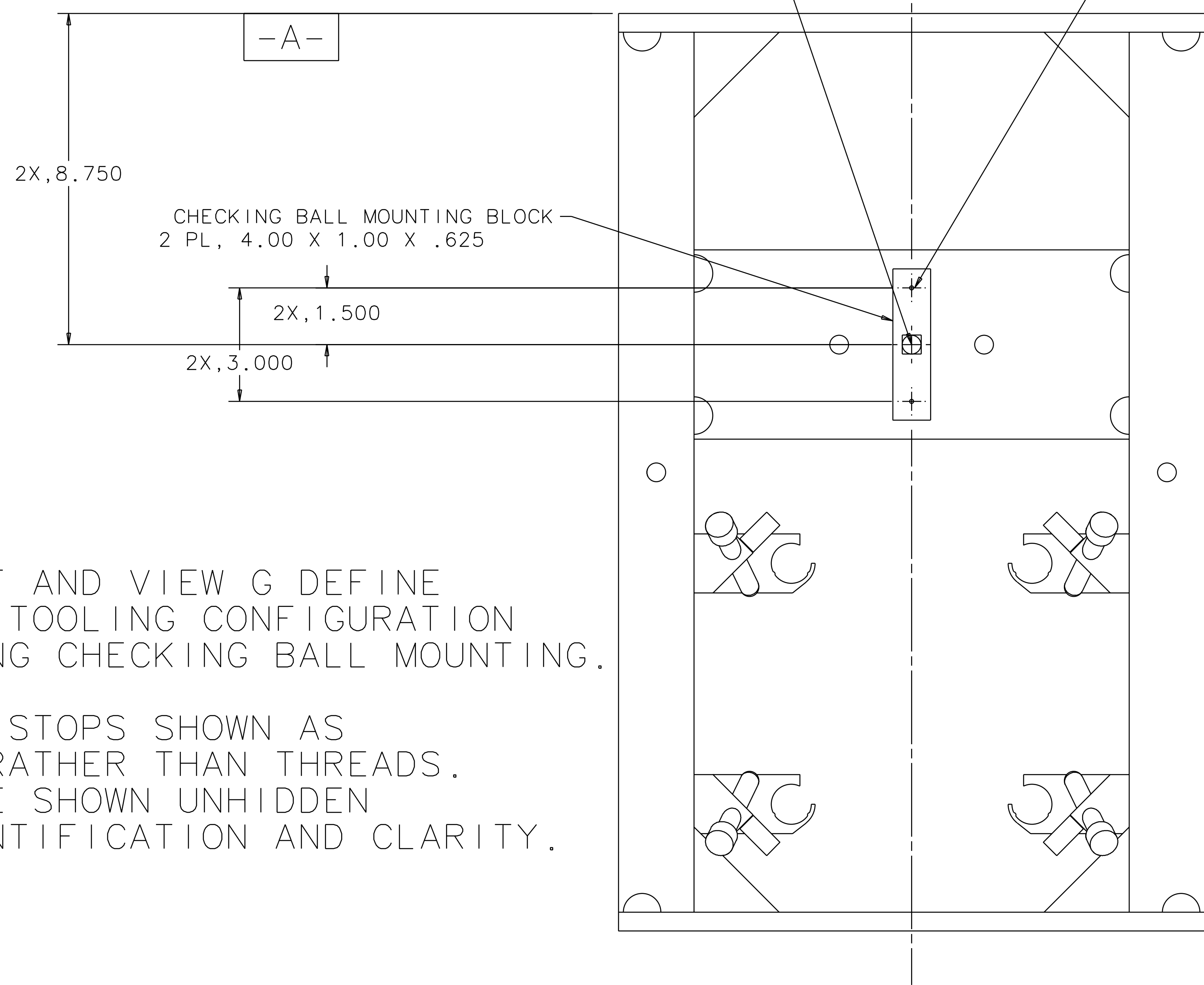
ISO VIEW OF STRUCTURE
WITHOUT: RIGHT LEGS, TOP PORTION OF LEFT LEGS,
RIGHT LOS BRACKET, SENSOR/ACTUATOR, SIDE
TOP PLATE AND STIFFENERS.

CHAMFER STOP CENTERLINES
HIGHLIGHTED AND NUMBERED

CHAMFER STOPS
8X, 1/2-13 UNC-2B

2 PL, CHECKING BALL, JERGENS P/N 29013

4X, #4-40 SCREW
MATCH DRILL TO
STIFFENER IN
STRUCTURE



VIEW F AND VIEW G DEFINE
INTERIM TOOLING CONFIGURATION
INCLUDING CHECKING BALL MOUNTING.

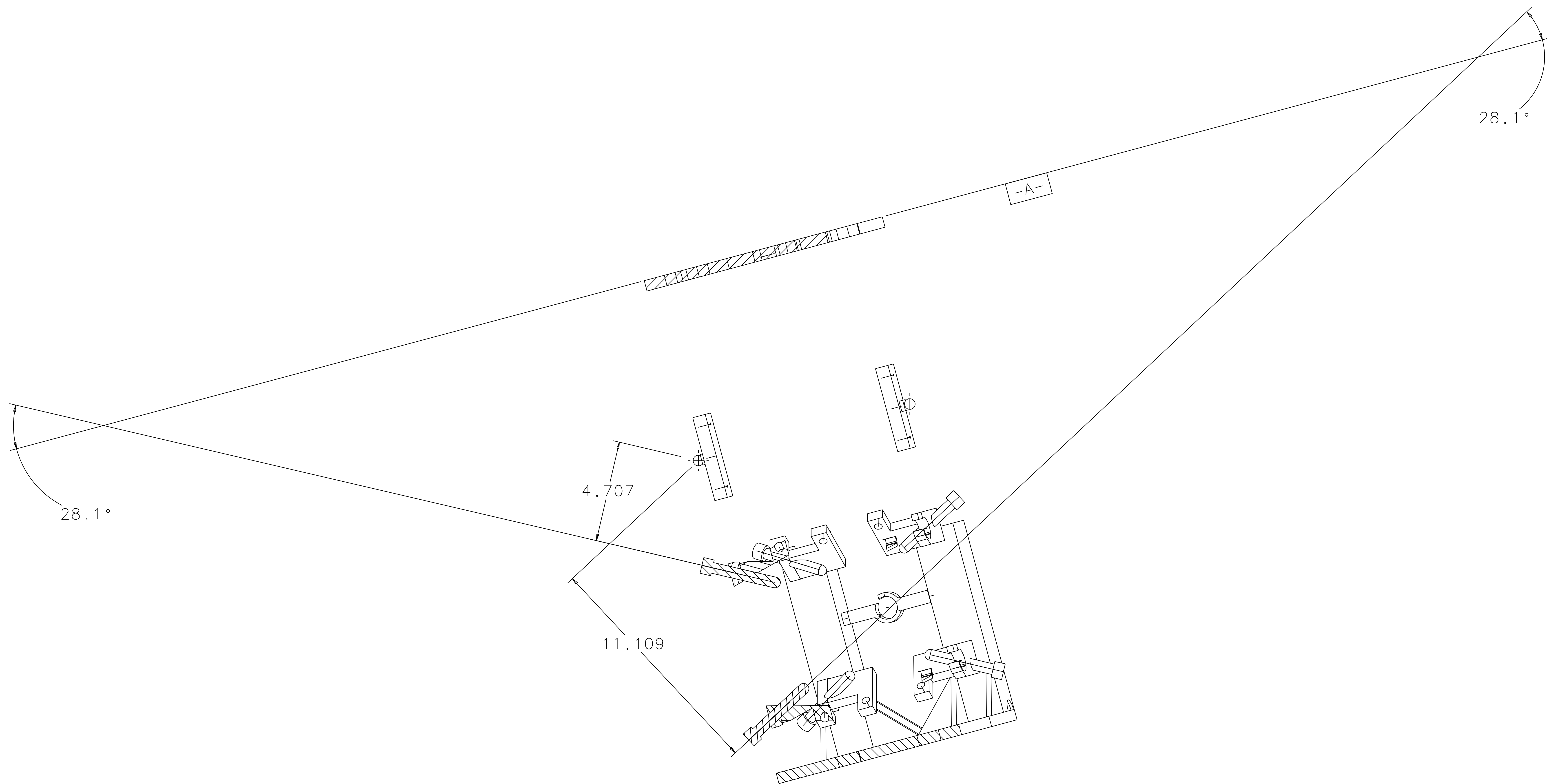
CHAMFER STOPS SHOWN AS
SCREWS RATHER THAN THREADS.
THEY ARE SHOWN UNHIDDEN
FOR IDENTIFICATION AND CLARITY.

VIEW G

QTY REQ	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES : : : : : 0.XX=+0.03 0.XXX=±0.005 DO NOT SCALE DRAWING				
APPROVALS		DATE	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
DRAWN J. Hazel		4/96	TITLE LARGE OPTIC SUSPENSION STRUCTURE ASSEMBLY	
CHECKED			SIZE E D960133	
NEXT ASSEMBLY D960132		MATERIAL	REV F	
FILE LOCATION home/dcc/docs/D960133.pdf		FINISH	SCALE 1/2	
			SHEET 3 OF 5	

1 2 3 4 5 6 7 8

REV	DATE	DRAWN BY	CHECKED	DCC	DCN/DESCRIPTION
A	1/19/98	J. Hazel			E980004/ INITIAL RELEASE
B	2/5/98	J. Hazel			E980011/CHANGE TO NOTE 3 CHANGE TO SECTION A-A
C	4/2/98	J. Hazel			E980075/ADD SHEET 4
D	4/21/98	J. Hazel			E980085/CHANGE CHAMFER STOP IDENTIFICATION
E	5/1/98	J. Hazel			E980088-00/ADD I.D. CALLOUT
F	7/16/98	C. Conley			E980173/ADD DRAIN HOLES, OPEN TOLERANCES AND CHANGE S/A DIMENSIONS



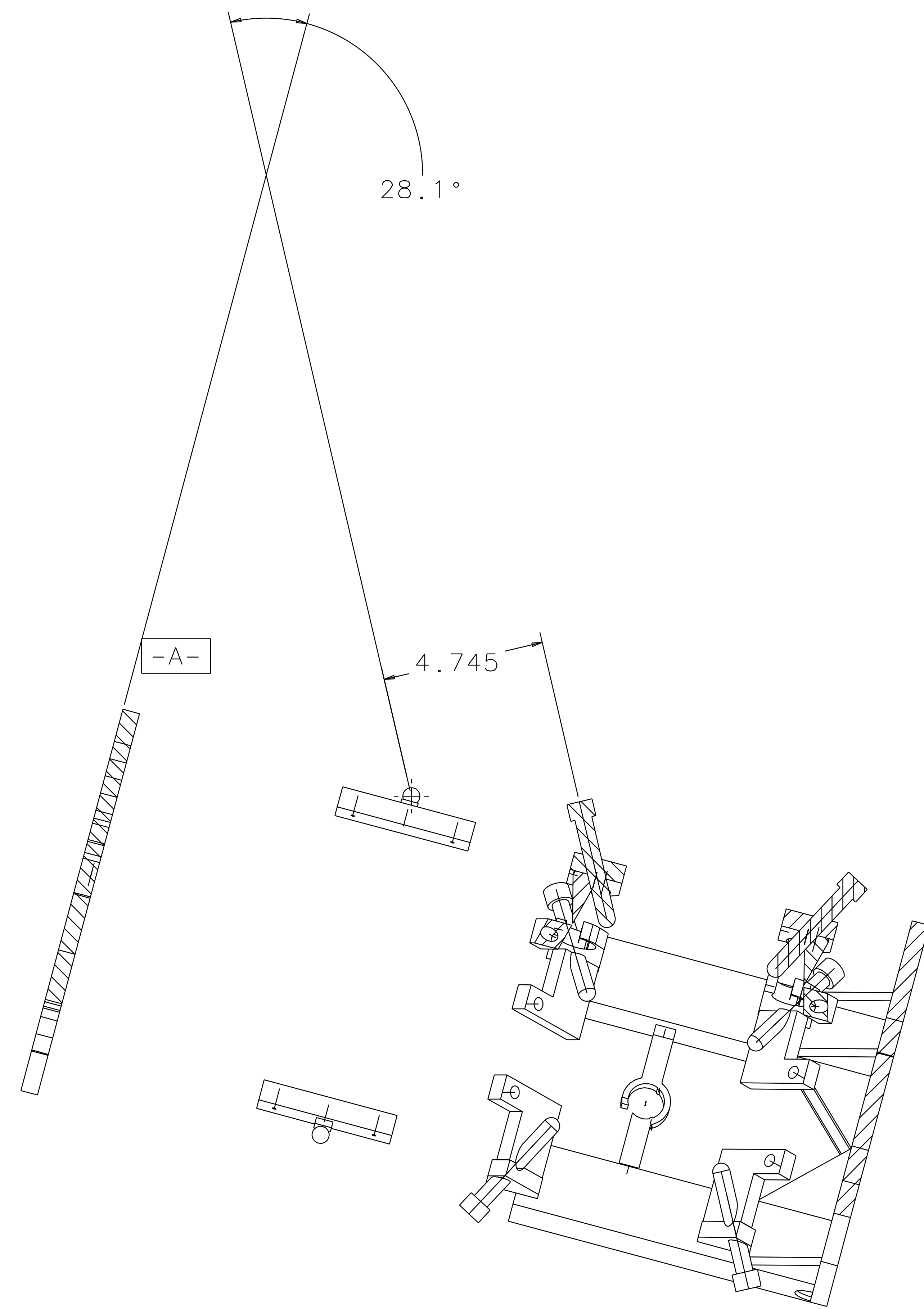
SECTION H-H
 DEFINE CHAMFER STOP 1 & 3,
 AND 7 & 5 (OPPOSITE)
 ROTATED 90° CLOCKWISE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES " ± .05"				
DRAWN J. Hazel		APPROVALS	DATE 4/96	TITLE LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY LARGE OPTIC SUSPENSION STRUCTURE ASSEMBLY
CHECKED				SIZE E D960133
NEXT ASSEMBLY D960132		MATERIAL	FINISH	SCALE 1/2
FILE LOCATION home/dcc/docs/D960133.pdf				REV F
				SHEET 4 OF 5

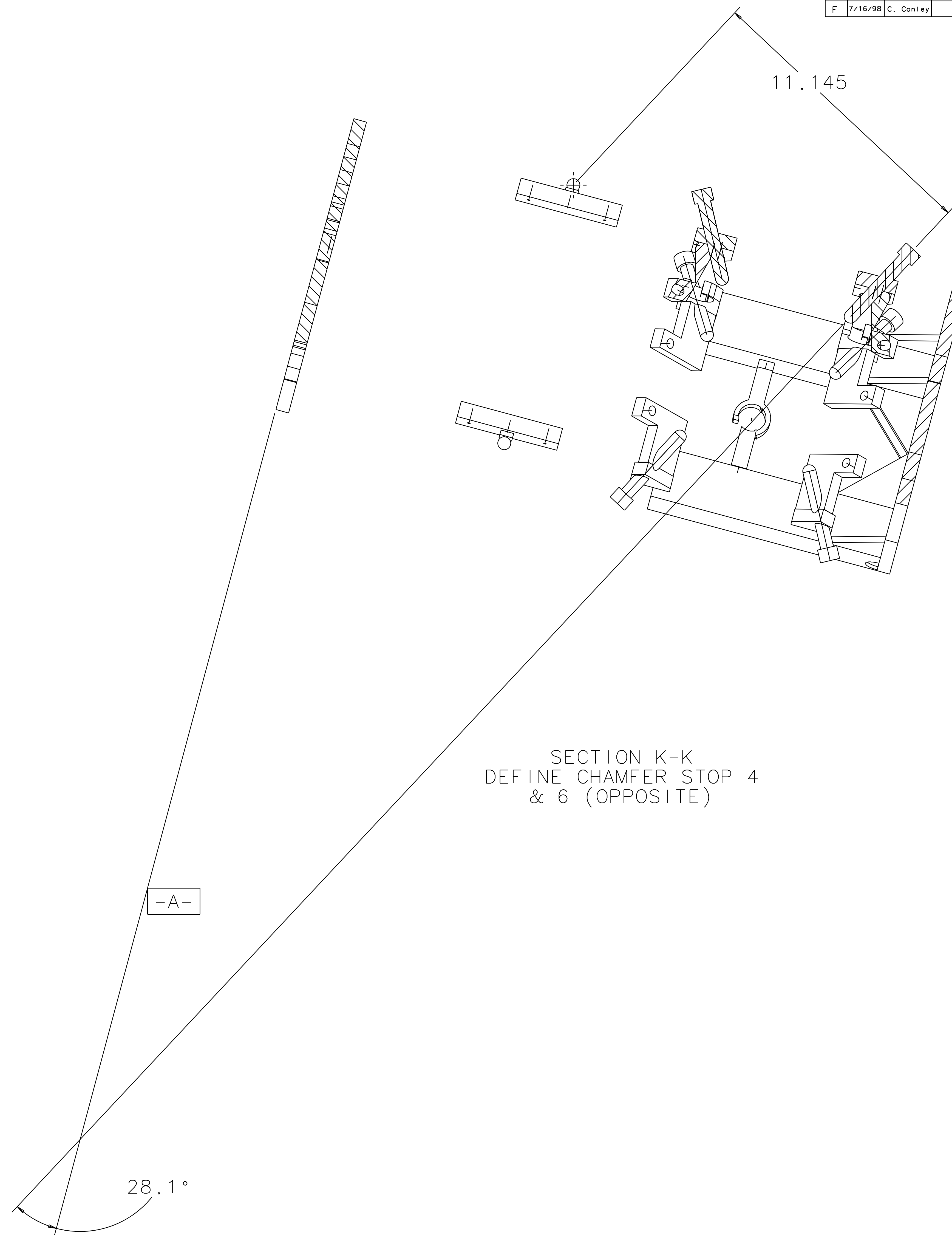
1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

REV	DATE	DRAWN BY	CHECKED	DCC	DCN/DESCRIPTION
A	1/19/98	J. Hazel			E980004/ INITIAL RELEASE
B	2/5/98	J. Hazel			E980011/CHANGE TO NOTE 3 CHANGE TO SECTION A-A
C	4/2/98	J. Hazel			E980075/ADD SHEET 4
D	4/21/98	J. Hazel			E980085/CHANGE CHAMFER STOP IDENTIFICATION
E	5/1/98	J. Hazel			E980088-00/ADD I.D. CALLOUT
F	7/16/98	C. Conley			E980123/ADD DRAIN HOLES, OPEN TOLERANCES AND CHANGE S/A DIMENSIONS



SECTION J-J
DEFINE CHAMFER STOP 2
& 8 (OPPOSITE)



SECTION K-K
DEFINE CHAMFER STOP 4
& 6 (OPPOSITE)

28.1°

28.1°

-A-

-A-

QTY REQ	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				
TOLERANCES ARE:				
FRACTIONS DECIMALS ANGLES				
: : : 0.5°				
DRAWN J. Hazel 4/96				
CHECKED				
DO NOT SCALE DRAWING				
APPROVALS DATE LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY				
TITLE LARGE OPTIC SUSPENSION STRUCTURE ASSEMBLY				
NEXT ASSEMBLY D960132				
MATERIAL				
FINISH				
FILE LOCATION home/dcc/docs/D960133.pdf				
SCALE 1/2				
SHEET 5 OF 5				

1 2 3 4 5 6 7 8