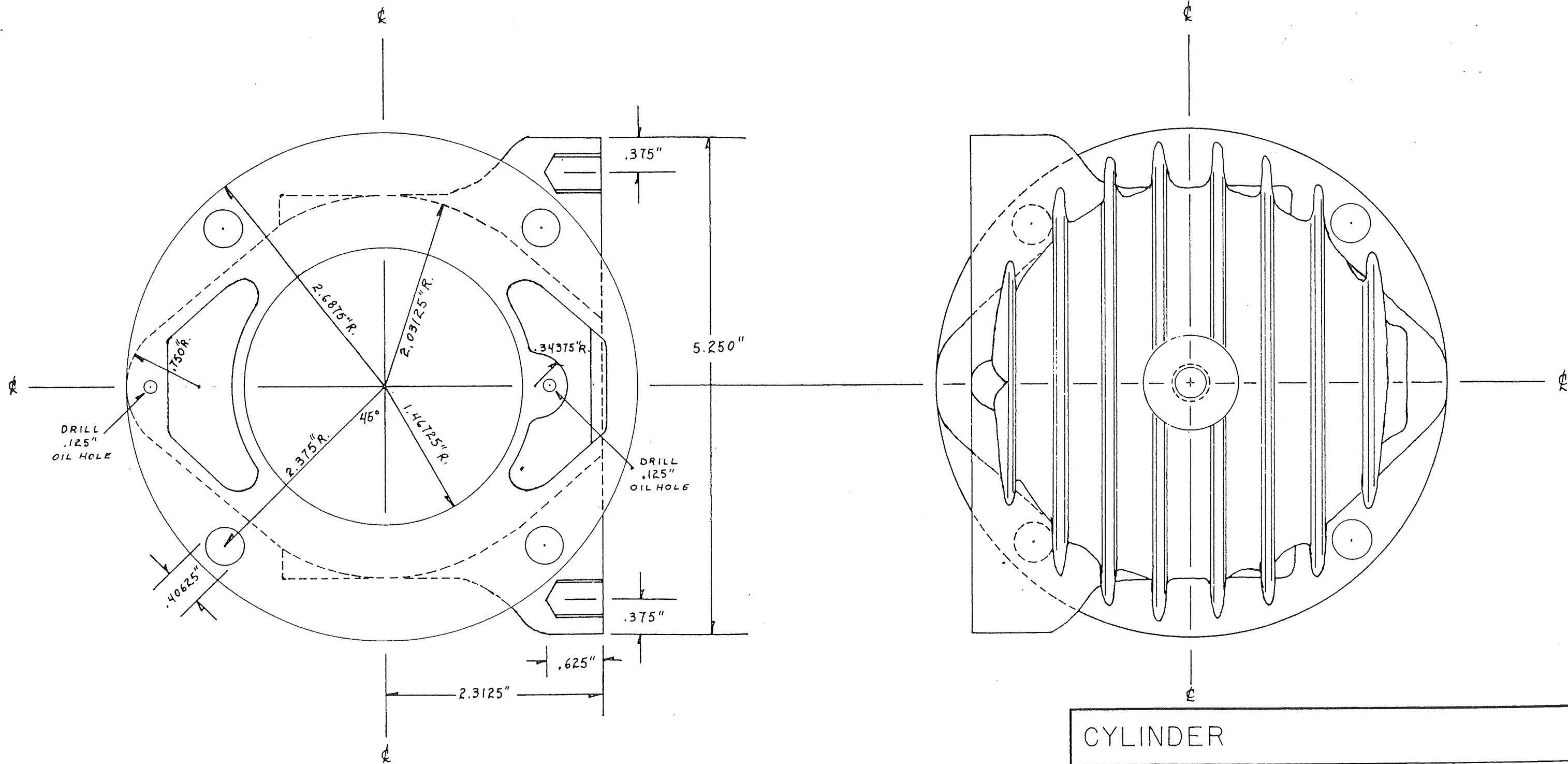


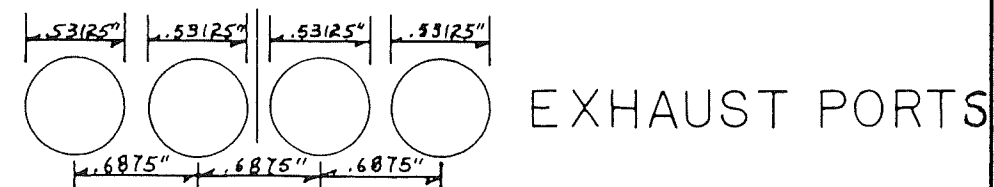
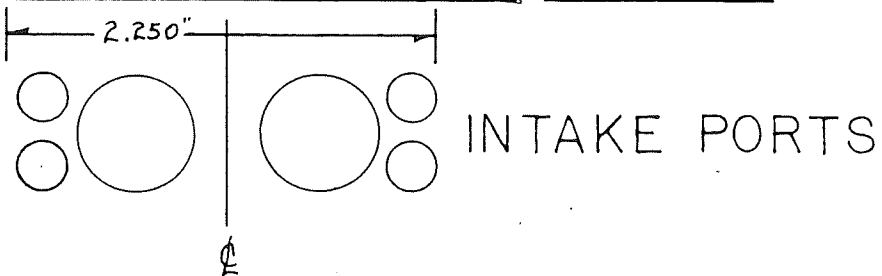
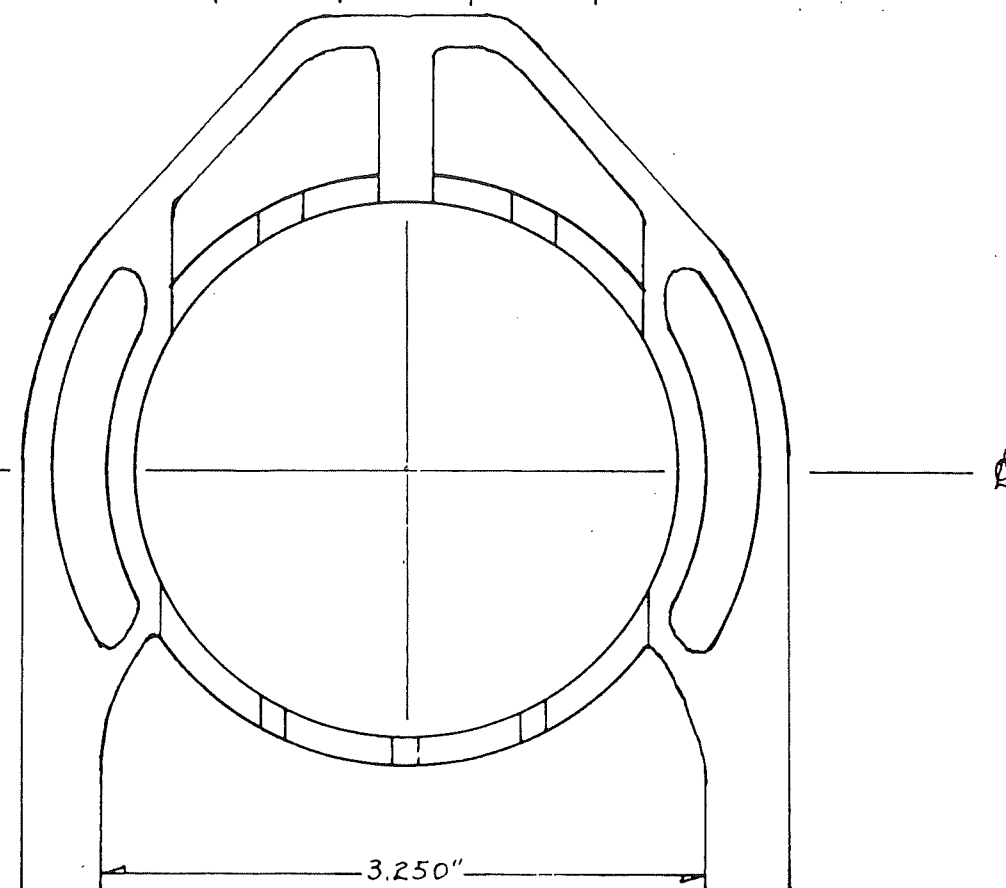
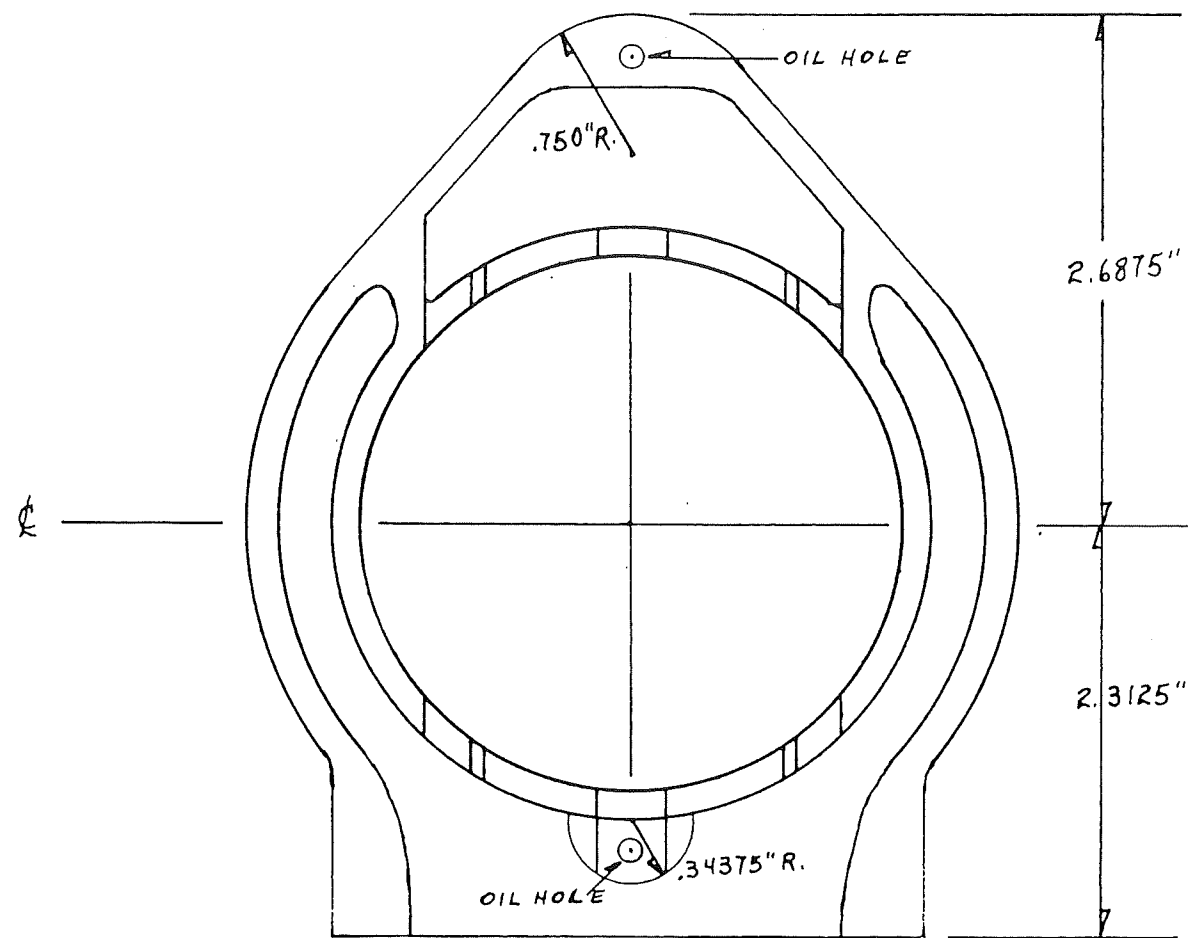
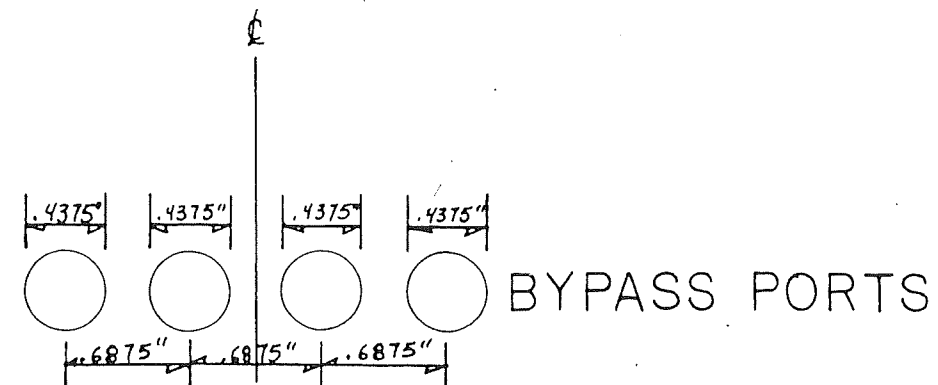
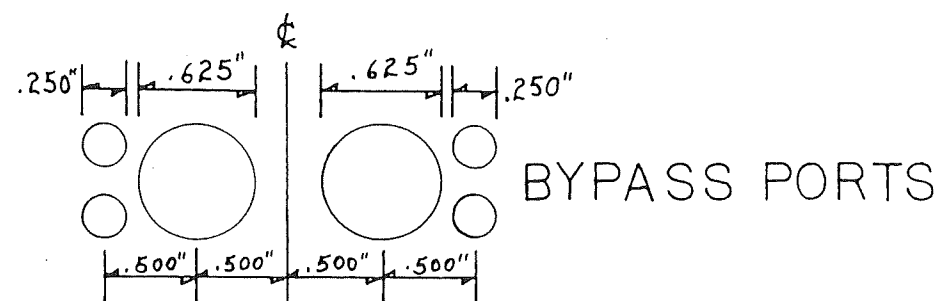
TOP VIEW		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 2

BOTTOM VIEW

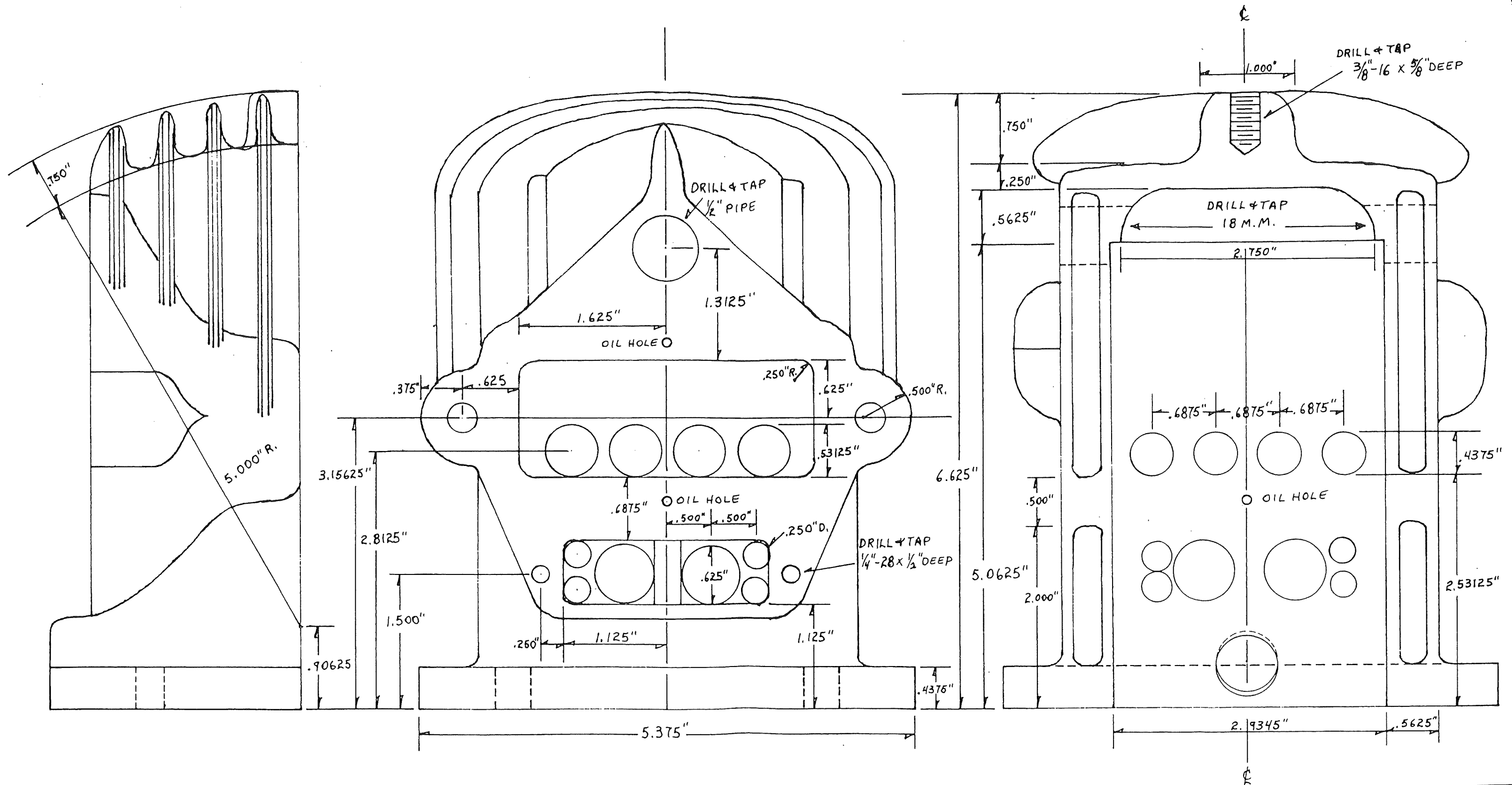
TOP VIEW



CYLINDER		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER
		3

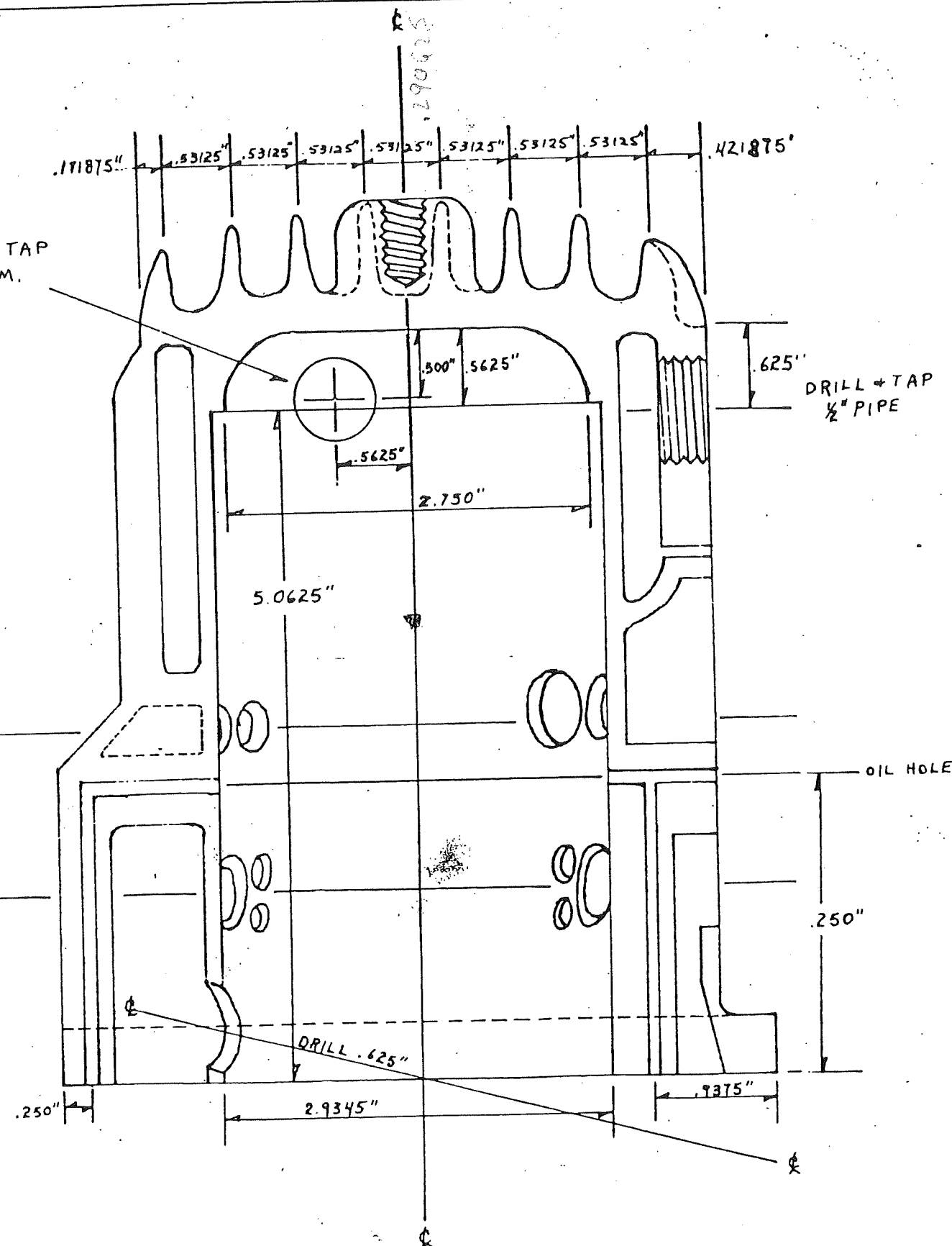


CYLINDER CROSS SECTIONS		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
	DRAWING NUMBER	4



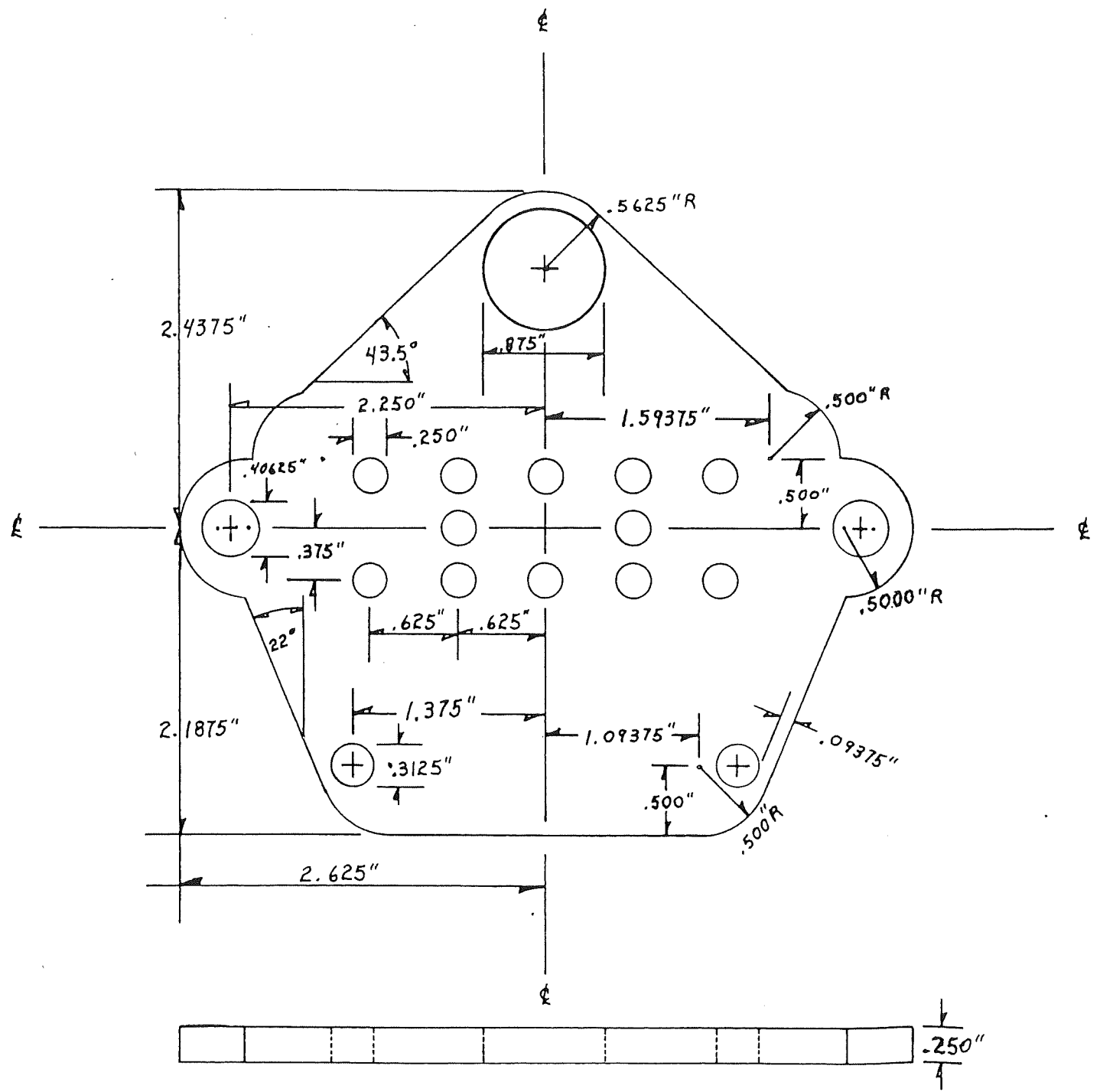
CYLINDER		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 5

DRILL + TAP
18 M.M.

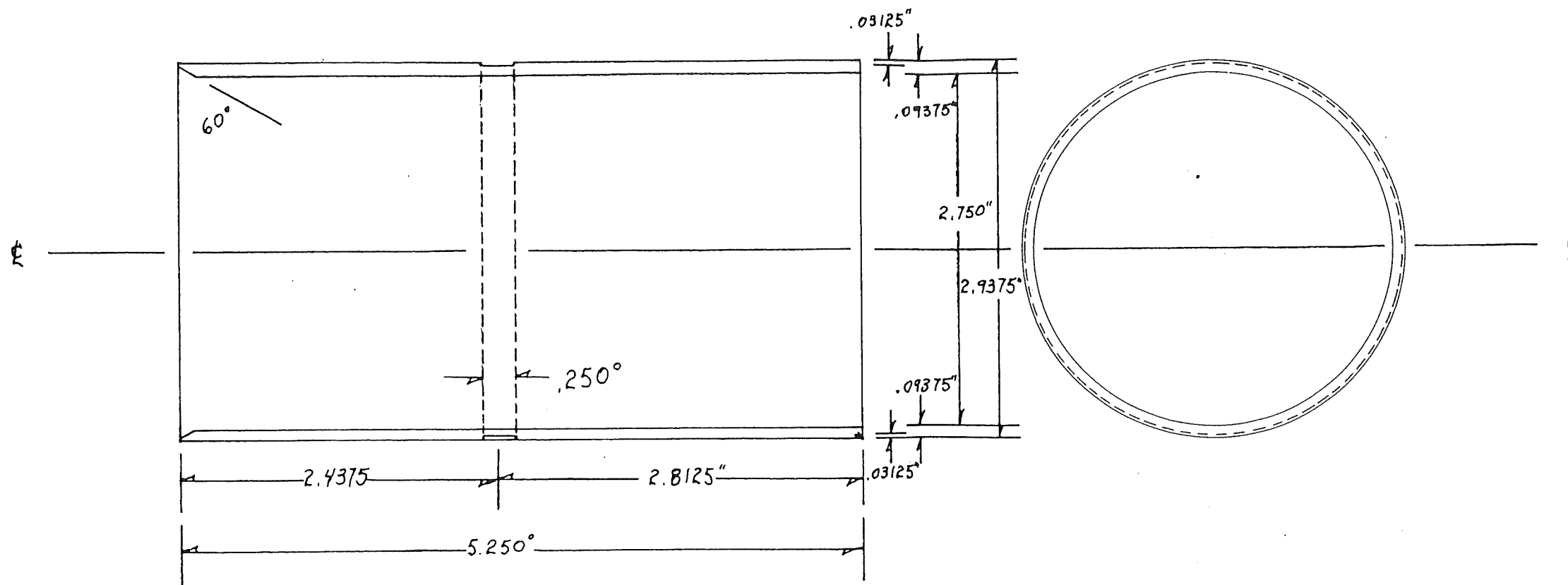


5025
5020

CYLINDER		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 6

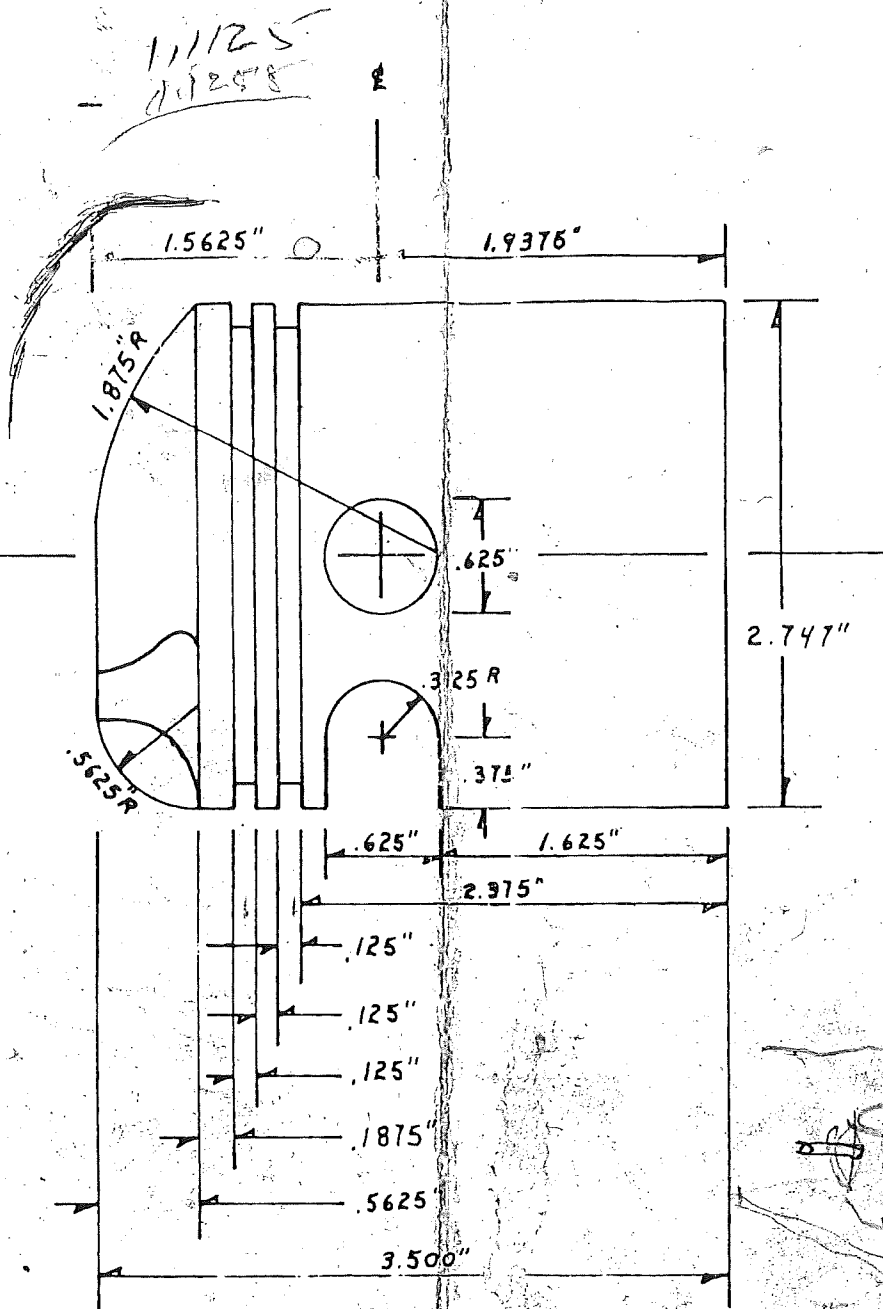
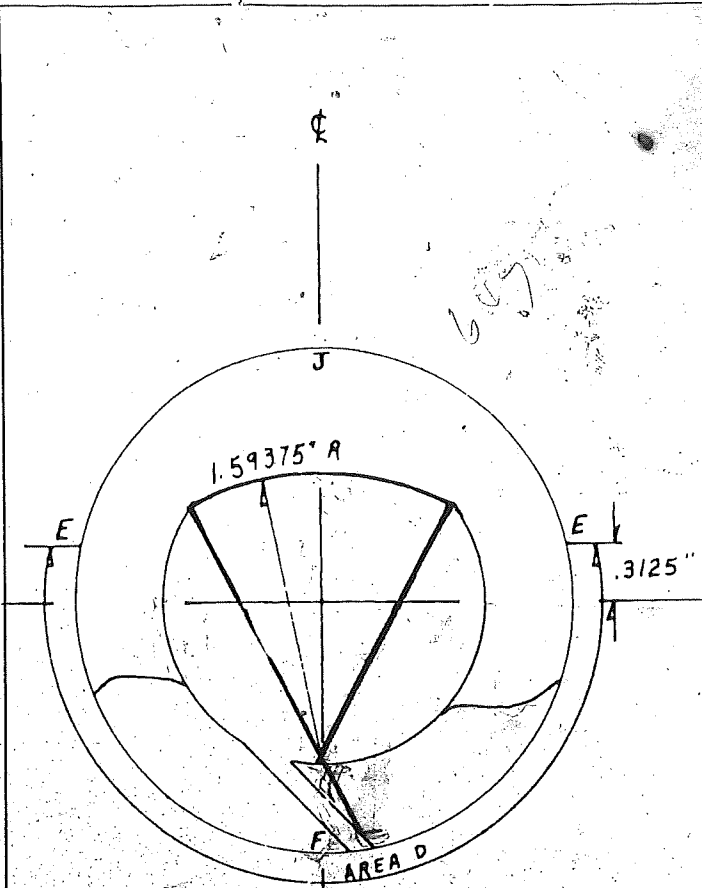


PORT COVER PLATE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30. CU.IN.		
		DRAWING NUMBER
		7



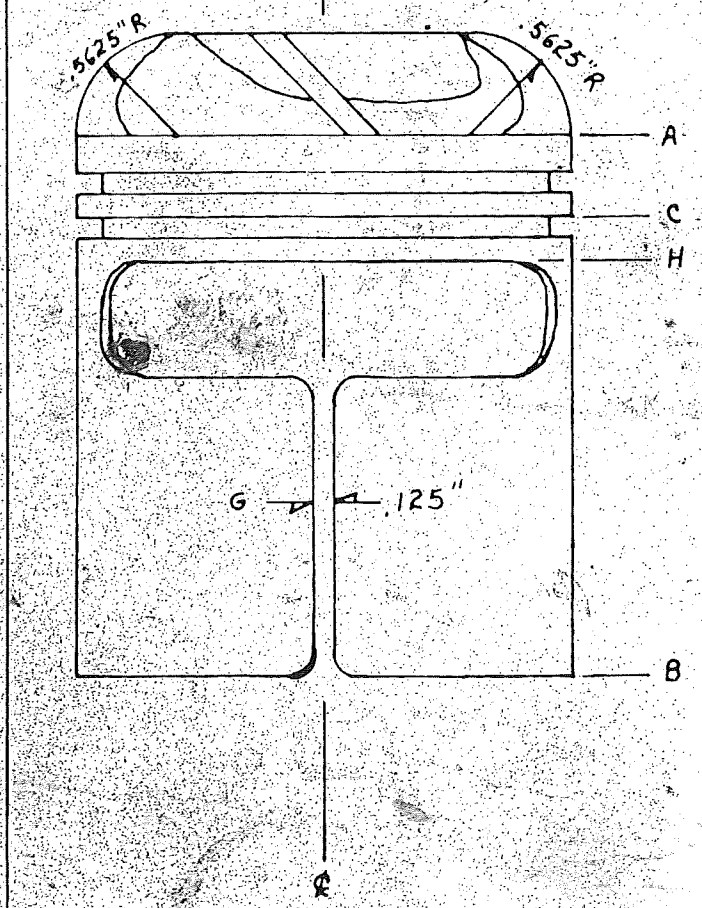
CYLINDER LINER		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 8

2. 9265

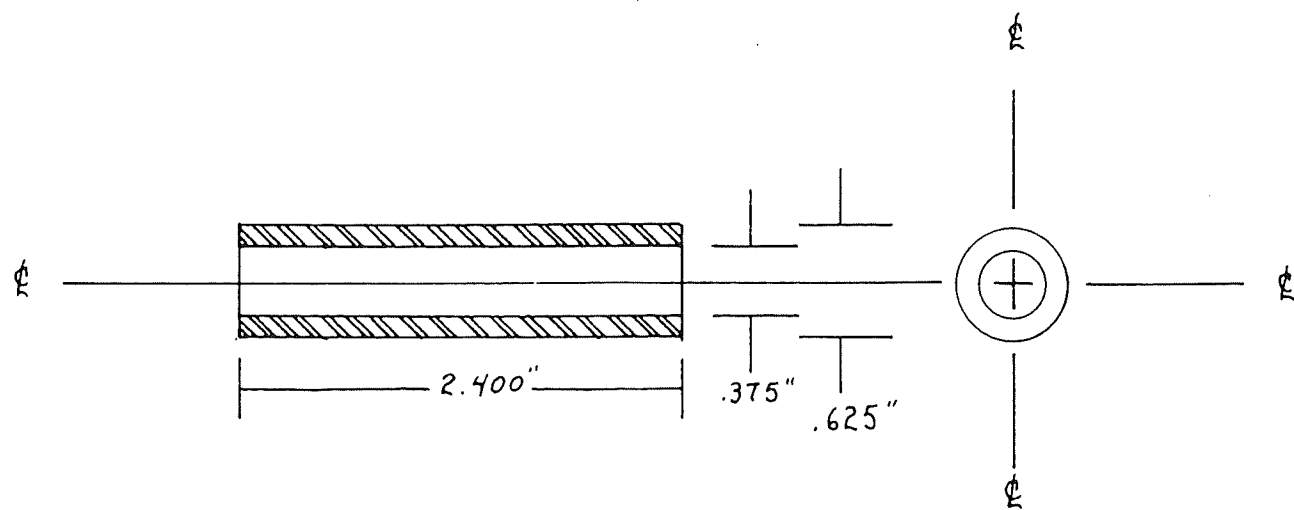


- PROCEDURE
1. TURN PISTON TO 2.790" "A" TO "B"
 2. TURN RING GROOVES TO 2.458±.005"
 3. TURN PISTON TO 2.747" "A" TO "B"
 4. TURN LANDS TO 2.744" "A" TO "C"
 5. CAM-GRIND FROM "E" TO "E" ALONG AREA "D" TO 2.740" READING FROM "J" TO "F" AND FROM "A" TO "H"
 6. CUT SLOT "G"

WALL THICKNESS .083/.094
 SLIT ON SKIRT .052
 .025 ON FIRST RING GROOVE
 .038 ON SECOND RING GROOVE
 .025 DIFFERENT ON LOCATE OF MOUTH



PISTON		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED:
BOURKE 30 CU. IN.		
		DRAWING NUMBER
		9



PISTON PIN

SCALE: FULL

APPROVED BY:

DRAWN BY DES

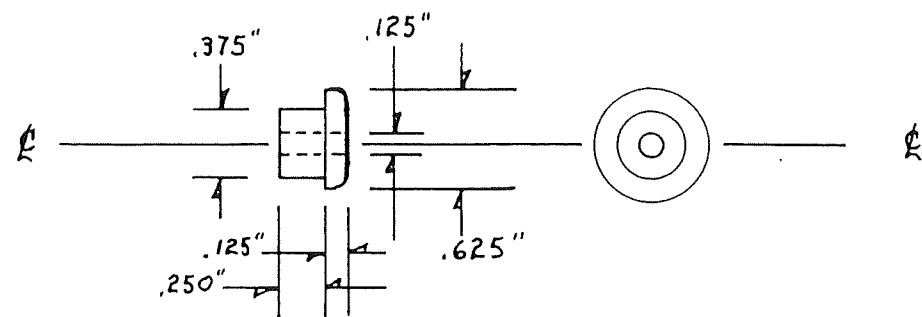
DATE:

REVISED

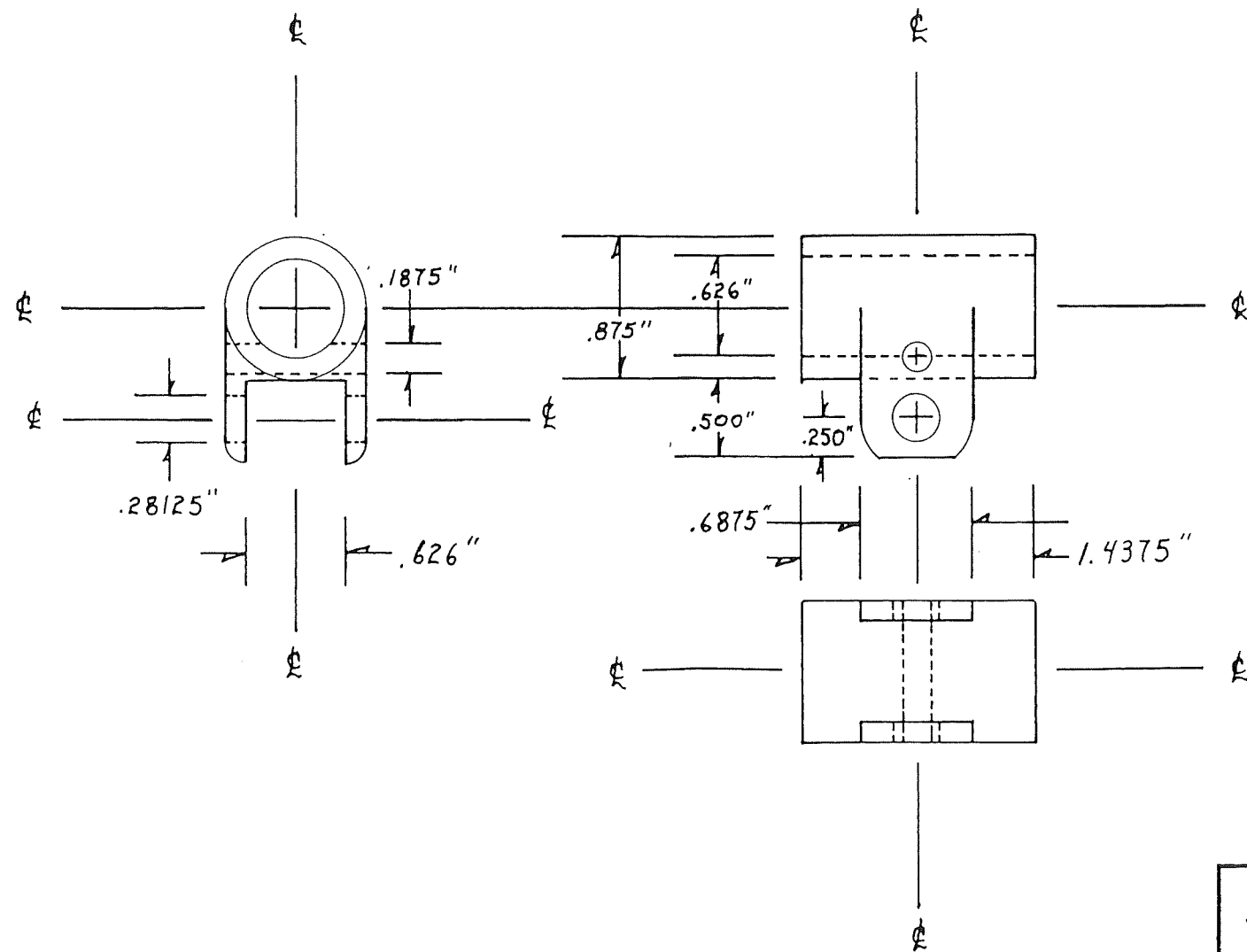
BOURKE 30 CU. IN.

DRAWING NUMBER

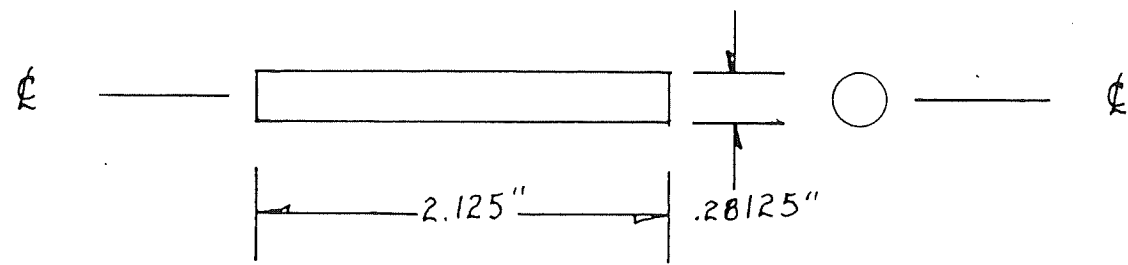
10



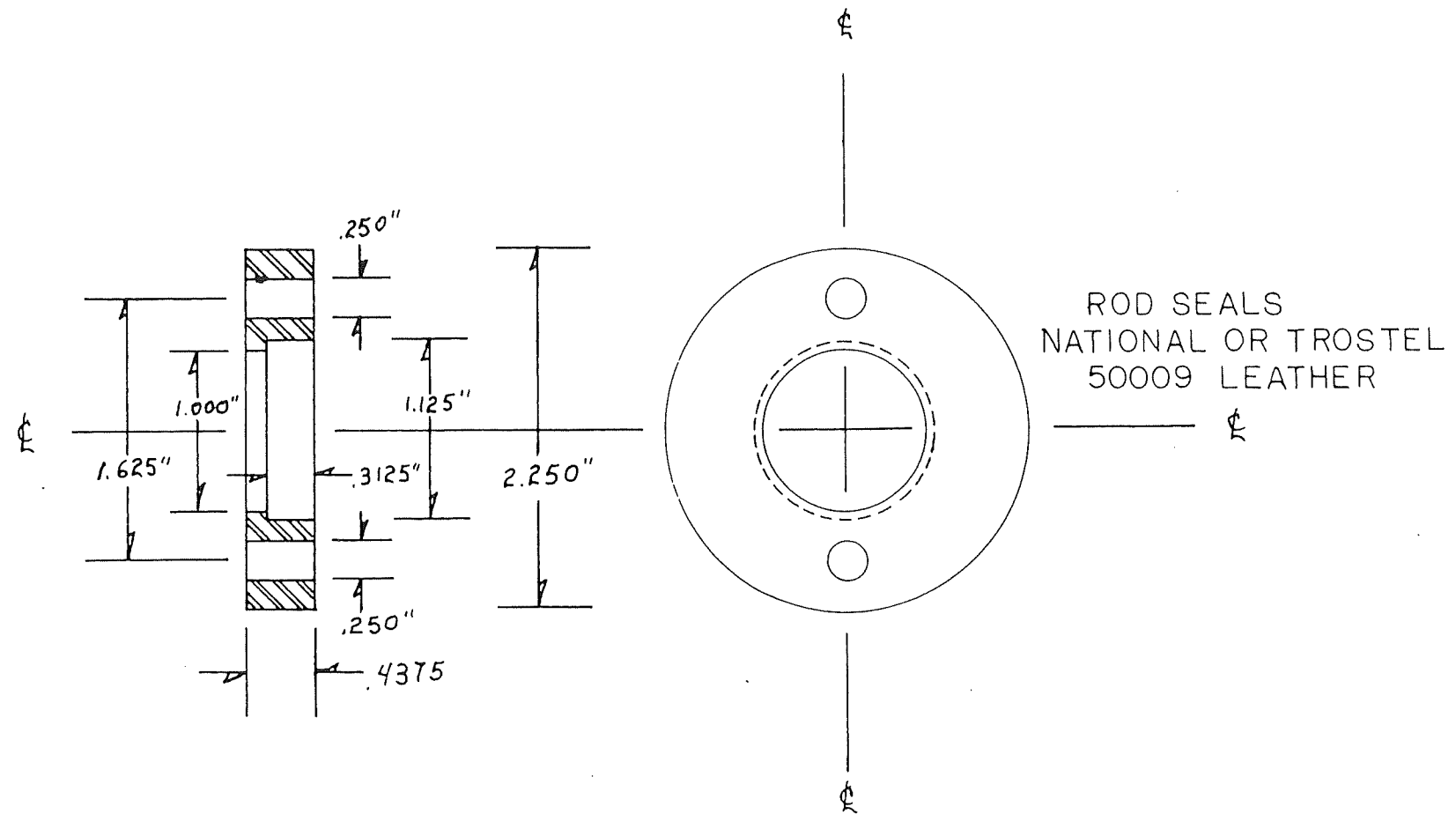
PISTON PIN PLUG		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 11



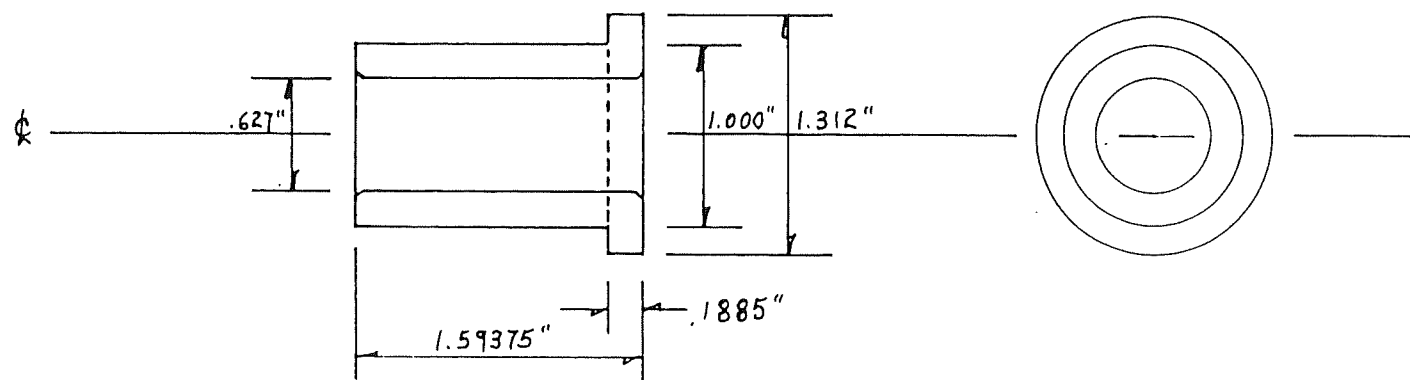
SADDLE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 12



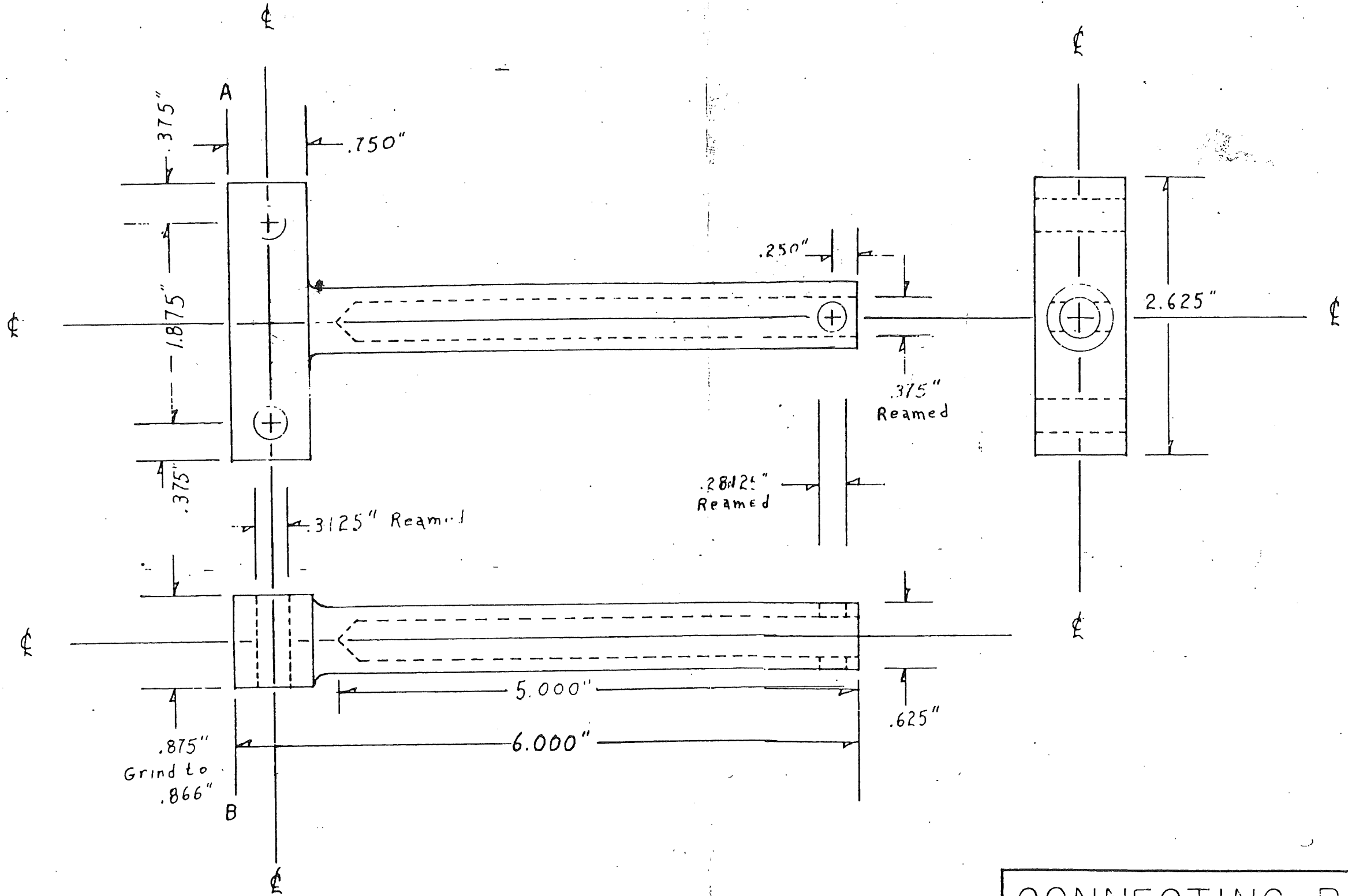
SADDLE PIN		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 13



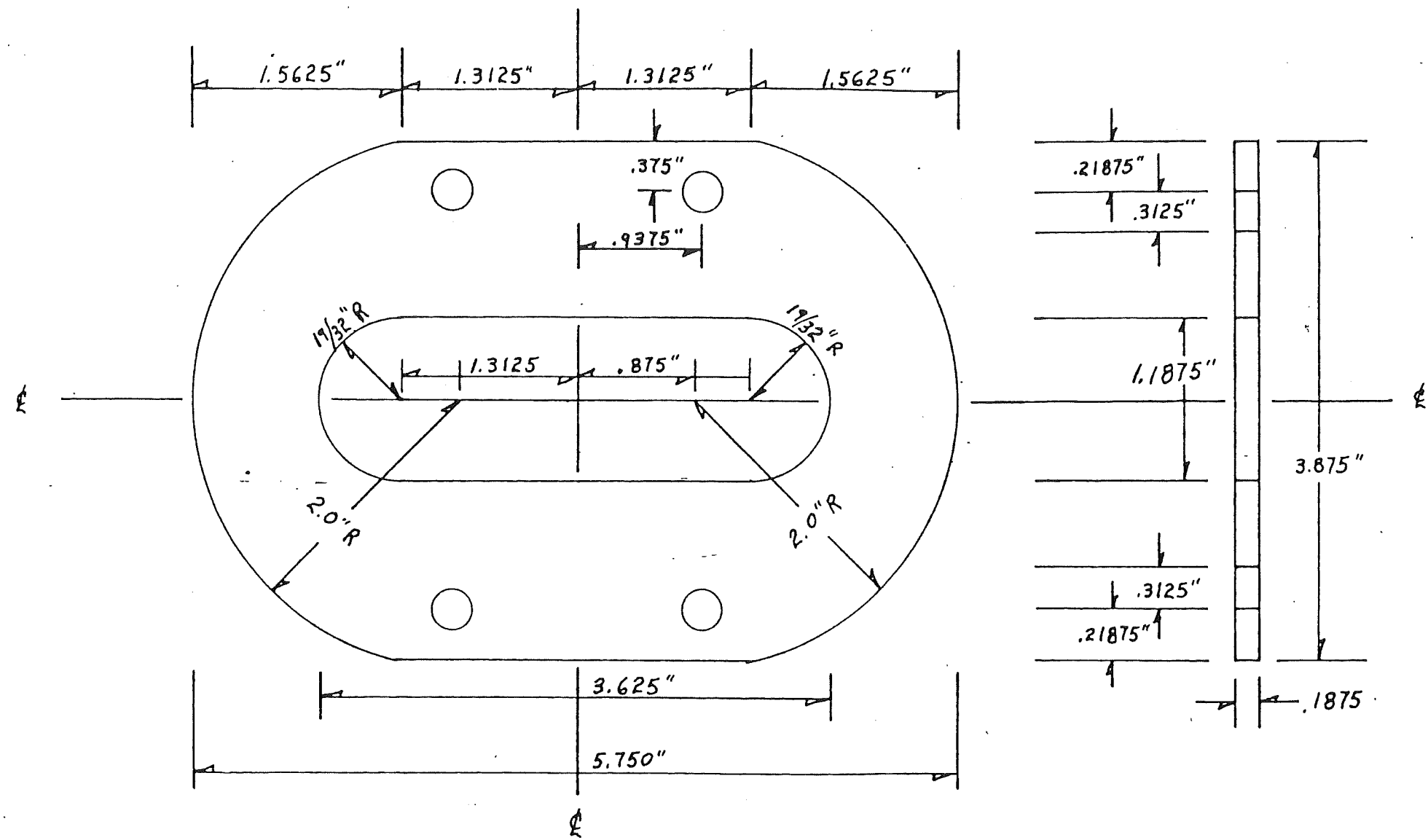
CONNECTING ROD OIL SEAL RETAINER		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 14



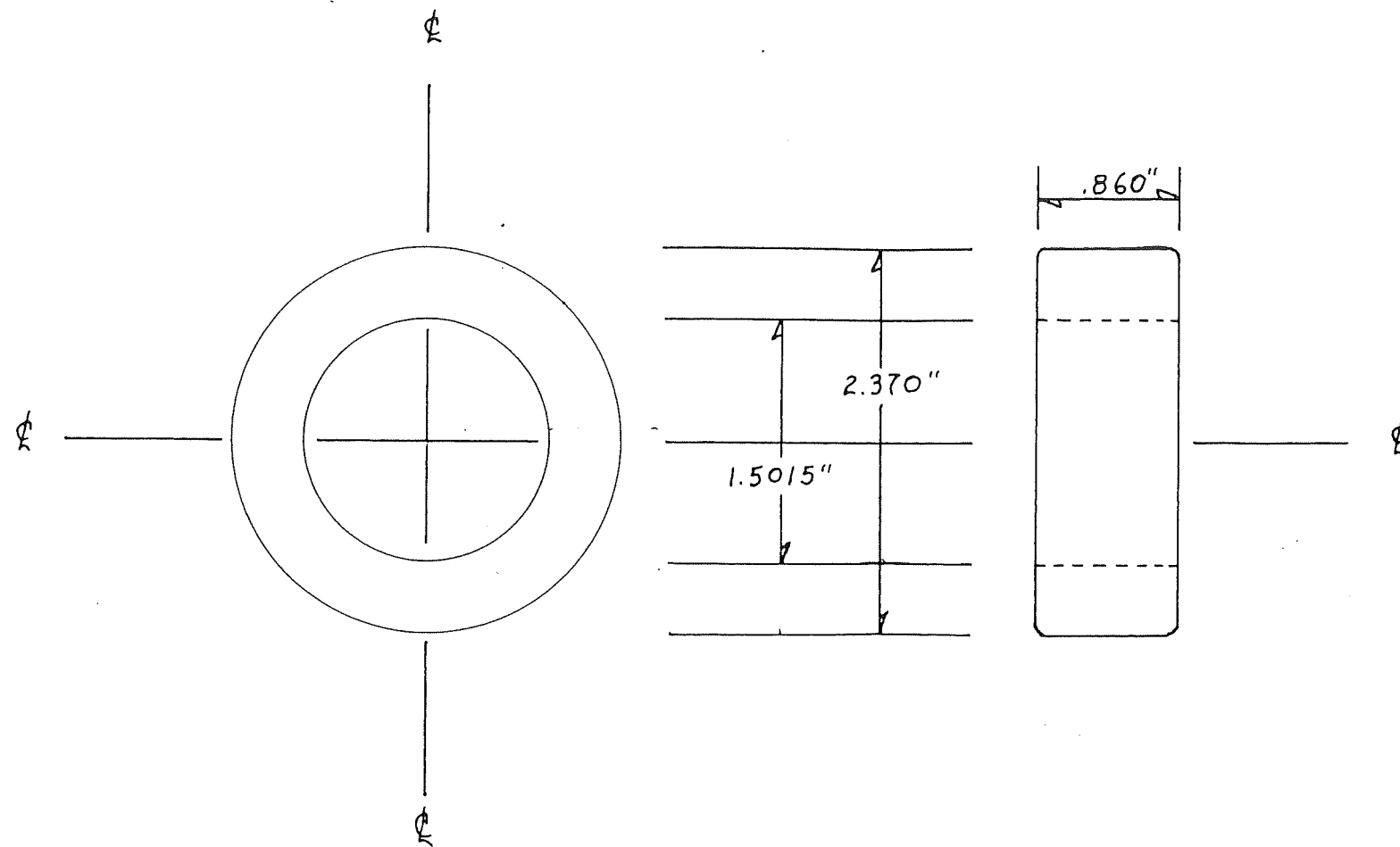
CONNECTING ROD BUSHING		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 15



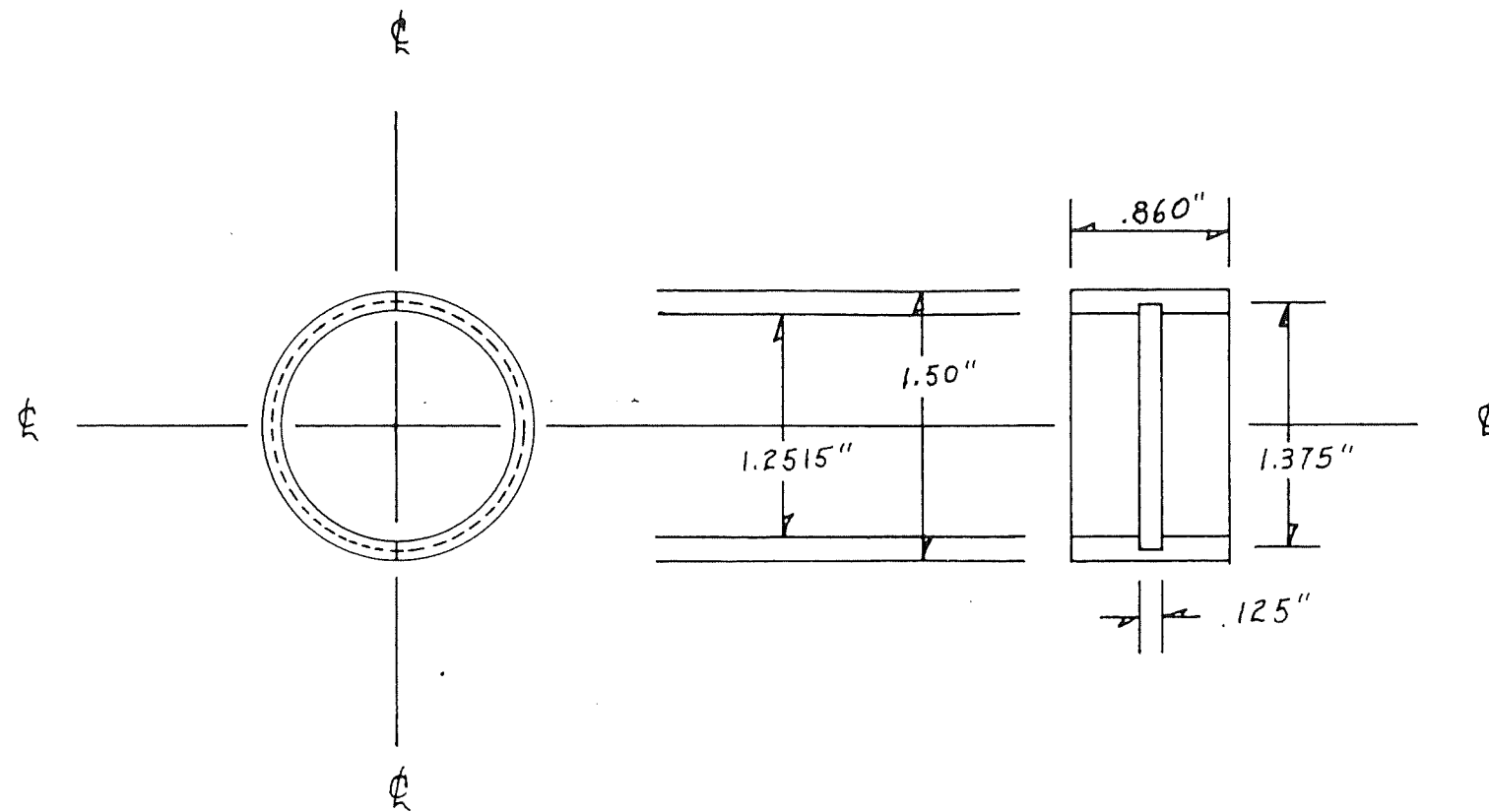
CONNECTING ROD		
SCALE FULL	APPROVED BY:	DRAWN BY DES
DATE		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 16



YOKE PLATE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		DRAWING NUMBER
		17



OUTER CRANK PIN BEARING		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 18



INTERMEDIATE CRANK PIN BEARING

SCALE: FULL

APPROVED BY:

DRAWN BY DES

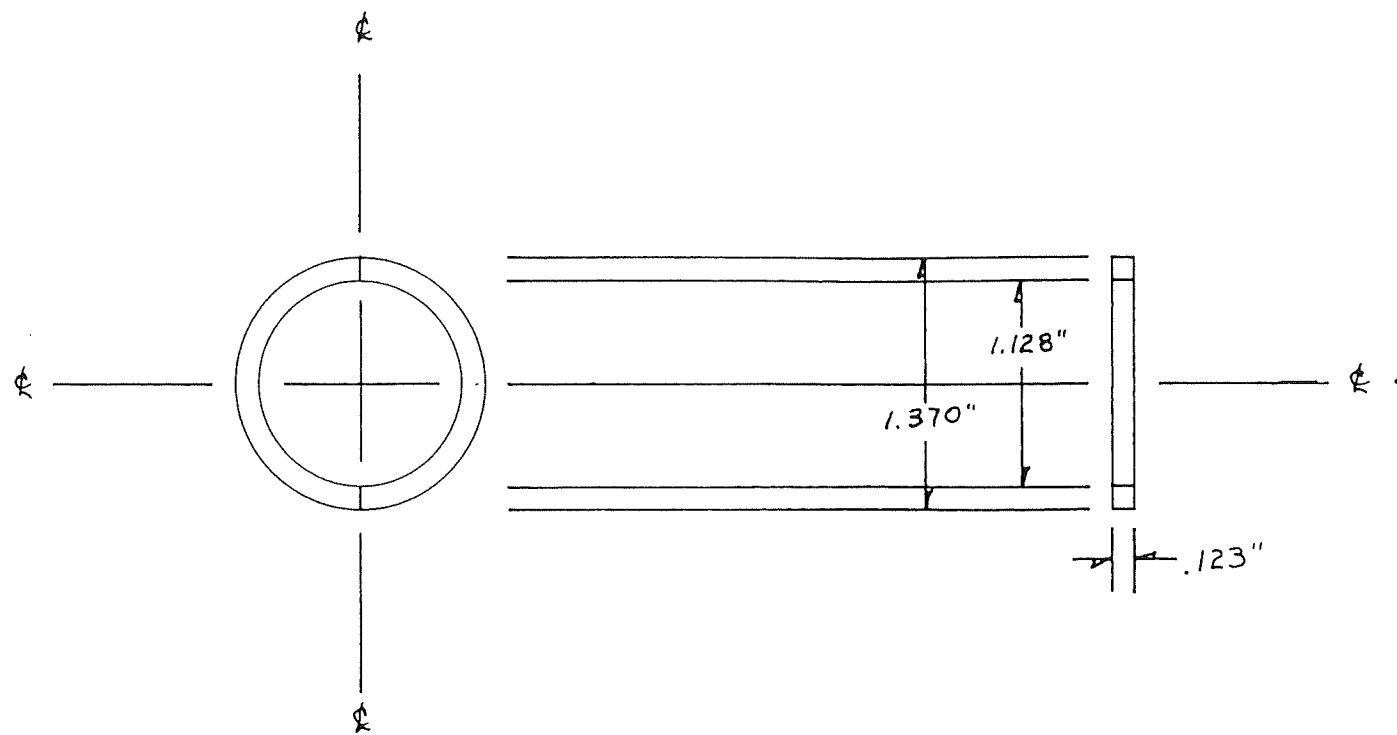
DATE:

REVISED

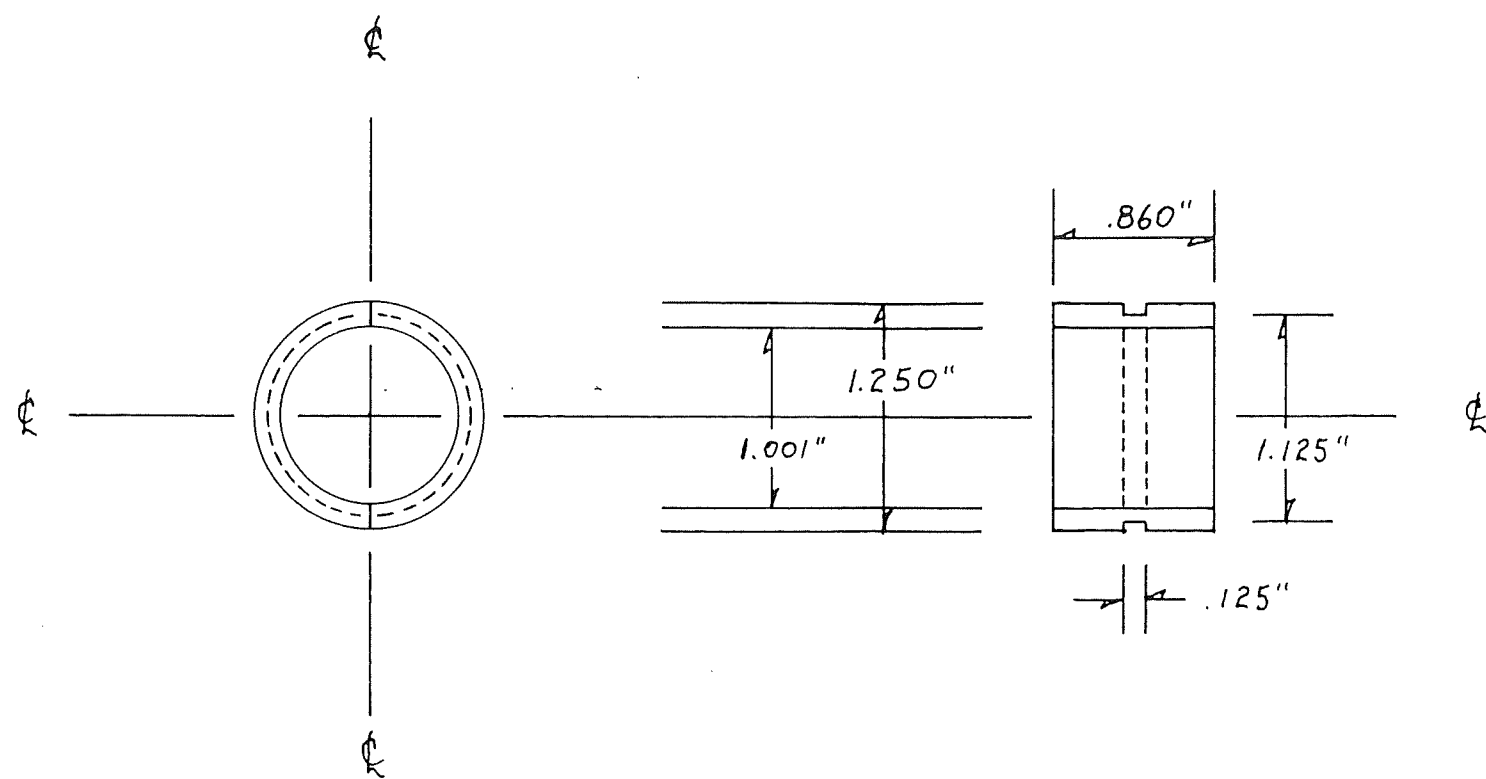
BOURKE 30 CU. IN.

DRAWING NUMBER

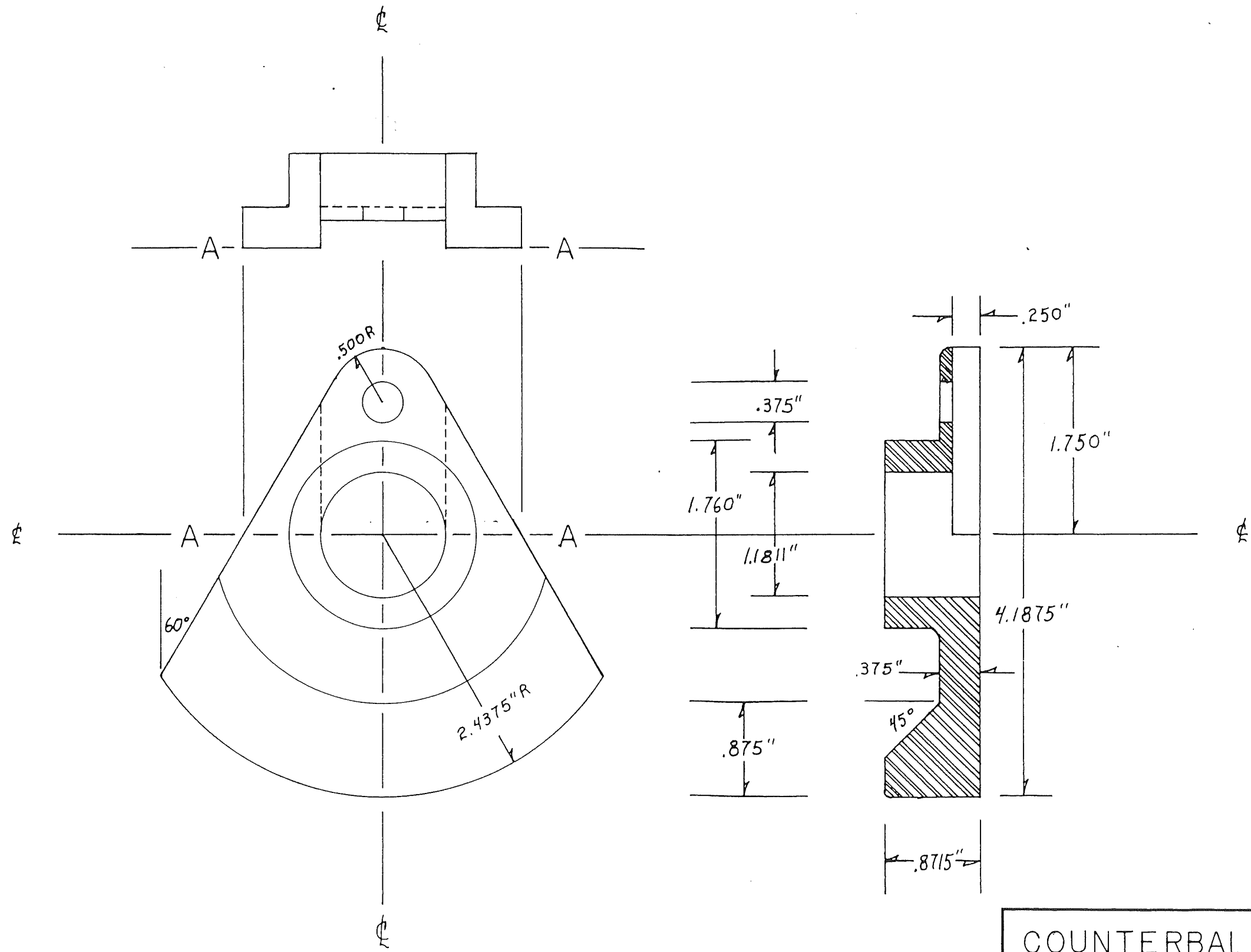
19



CRANKPIN BEARING RETAINER RING		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
	DRAWING NUMBER	20



INNER CRANK PIN BEARING		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 21

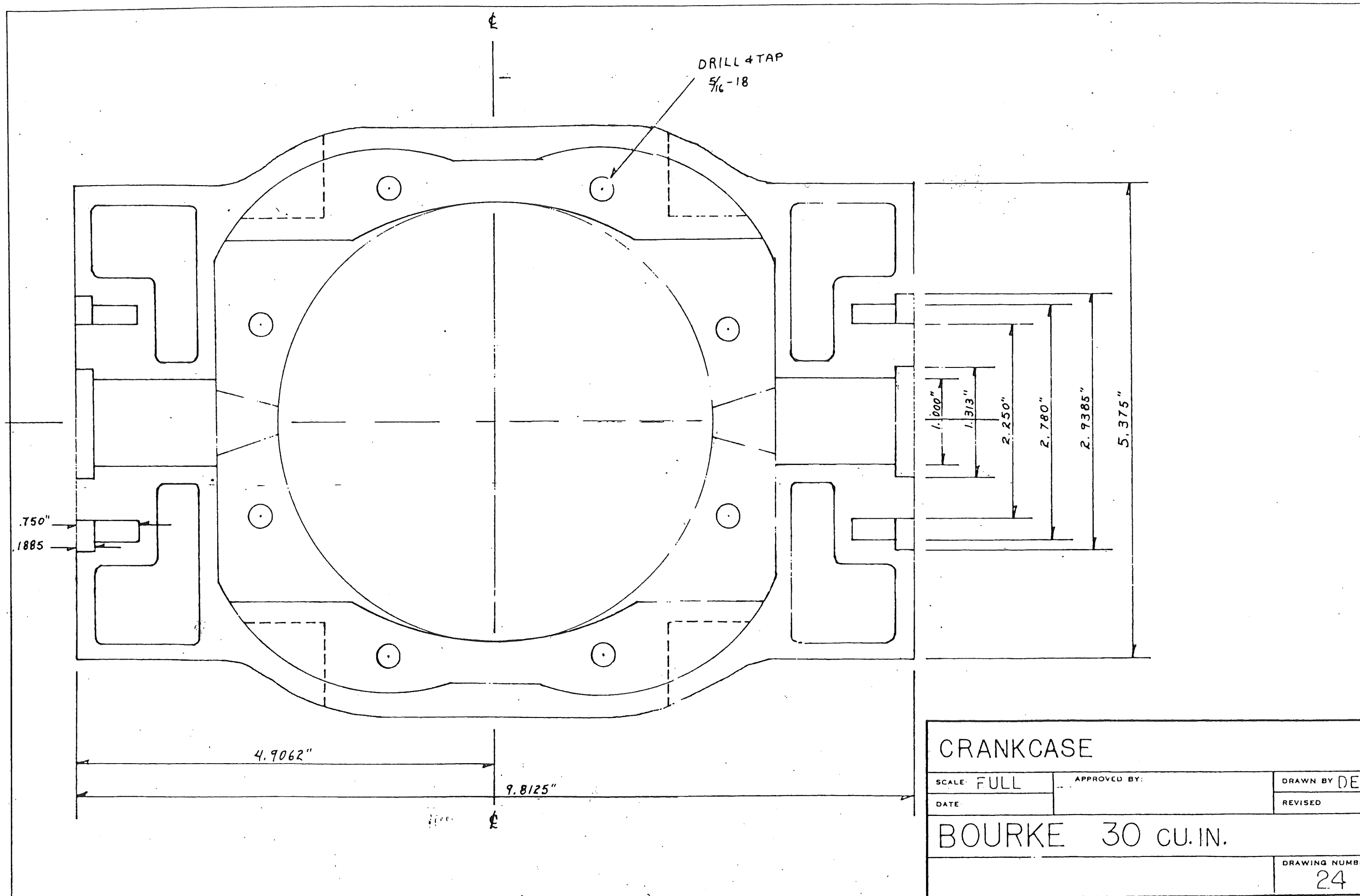


COUNTERBALANCE

SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED

BOURKE 30 CU.IN.

DRAWING NUMBER
23



DRILL & TAP
5/16-18

.750"
1.885"

4.9062"

9.8125"

1.000"
1.313"
2.250"
2.780"
2.9385"
5.375"

CRANKCASE

SCALE: FULL

APPROVED BY:

DRAWN BY DES

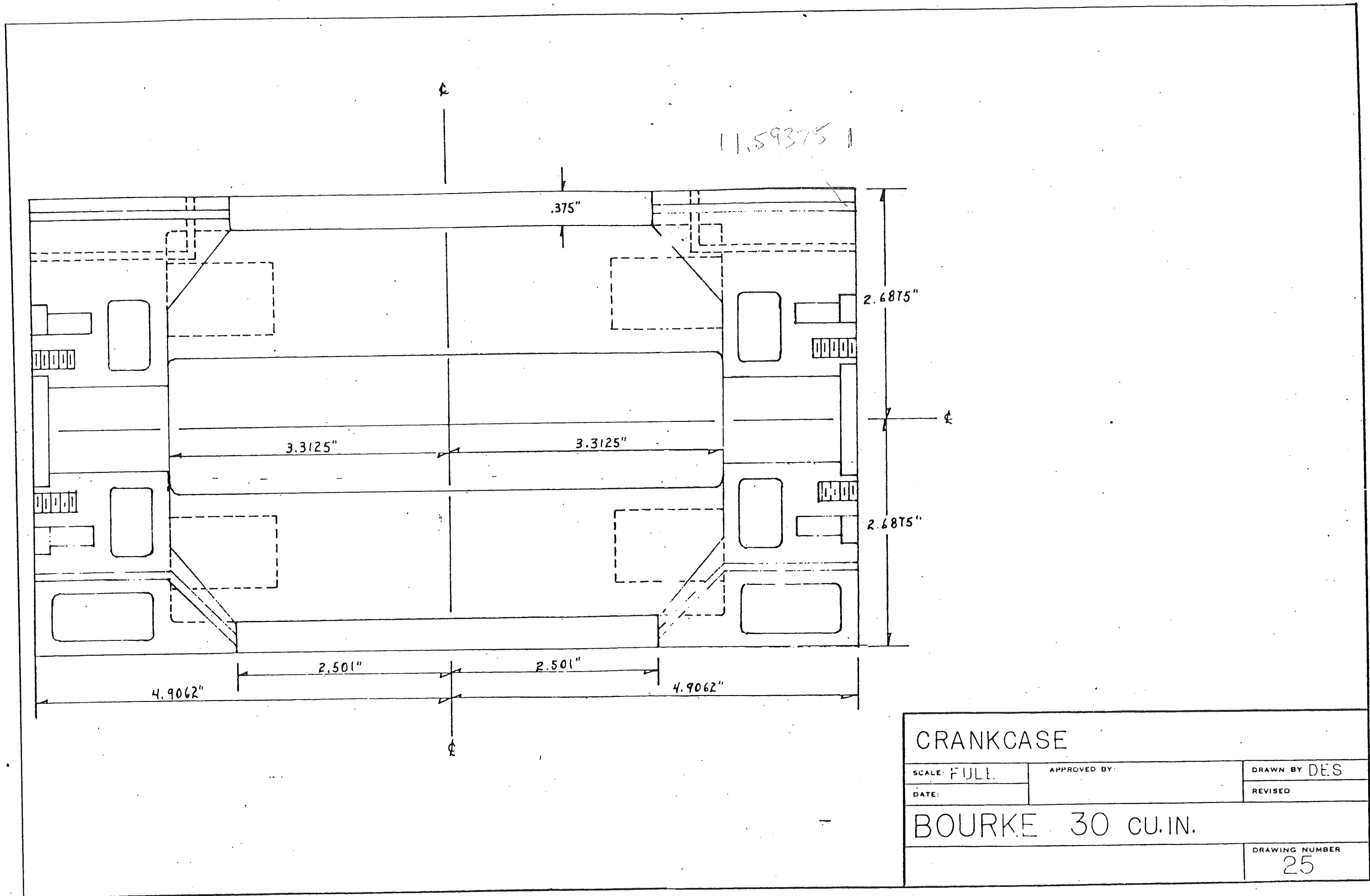
DATE

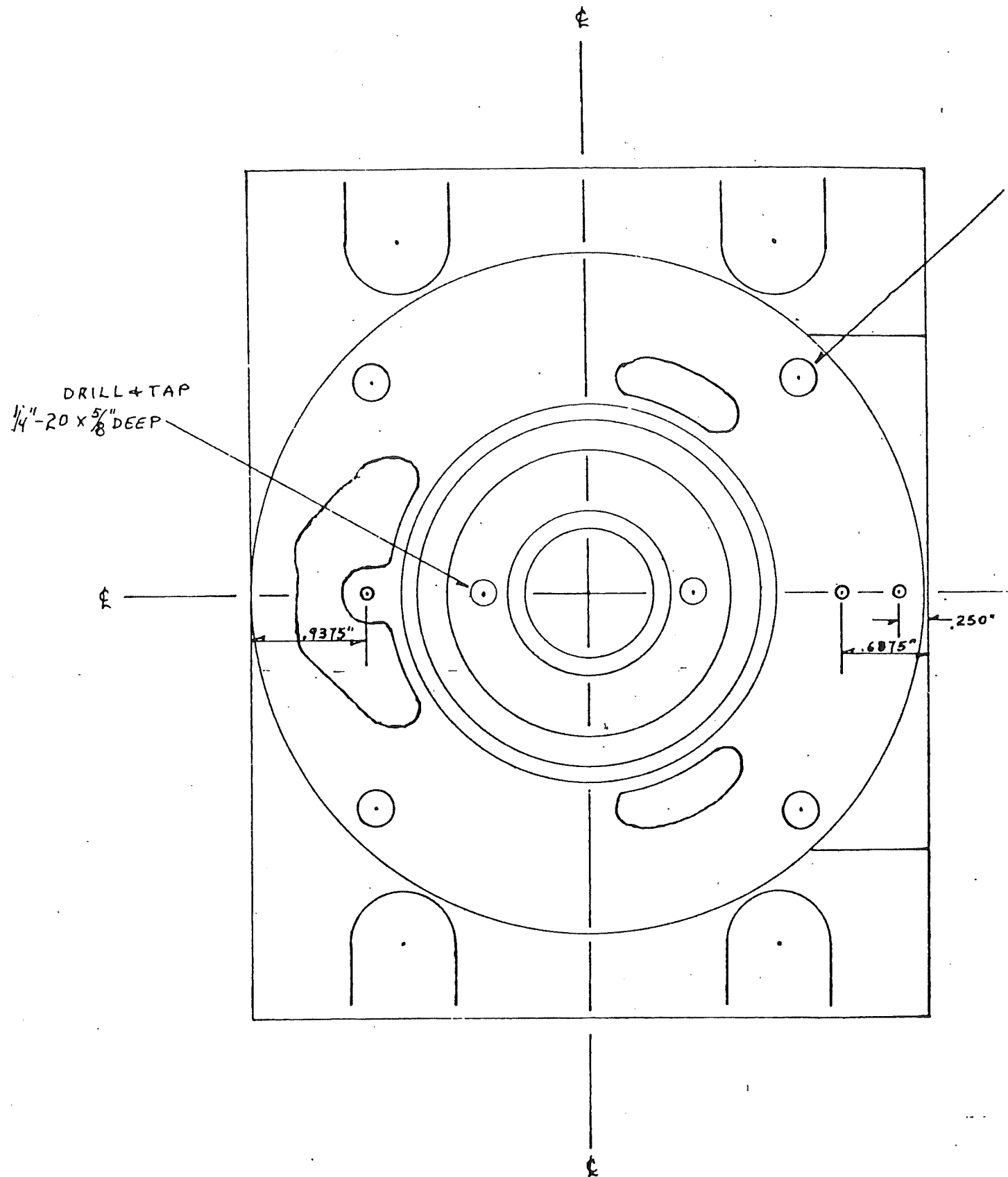
REVISED

BOURKE 30 CU.IN.

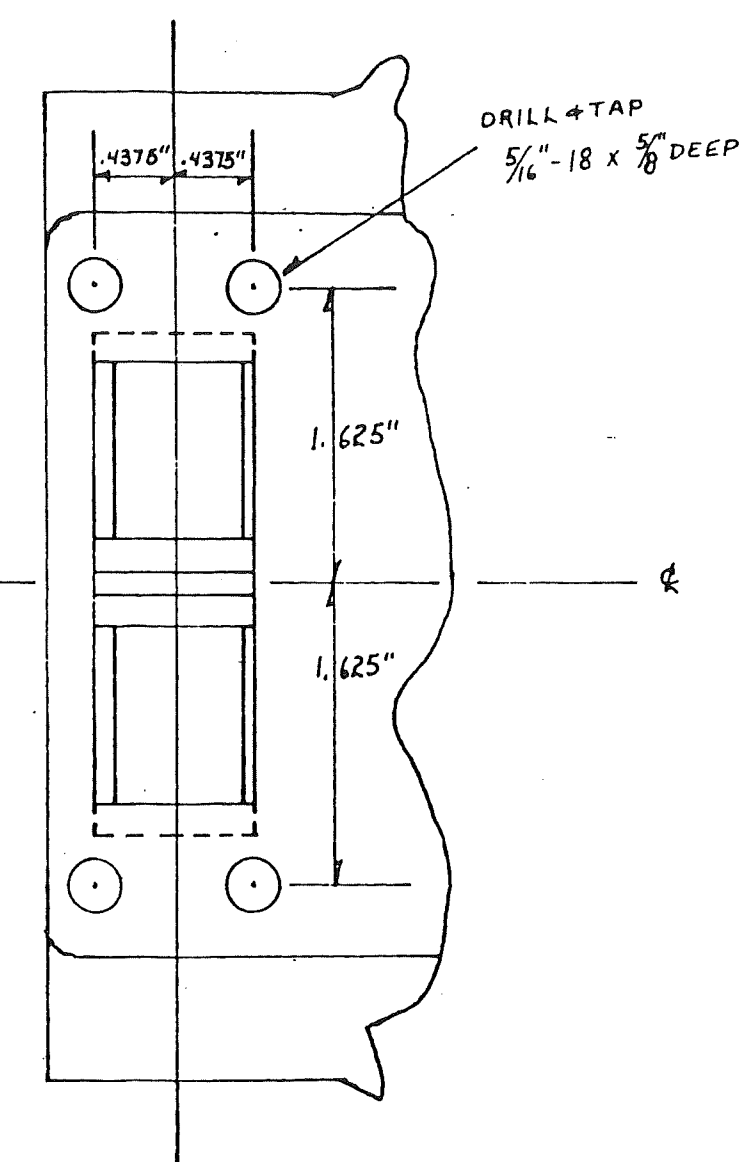
DRAWING NUMBER

24



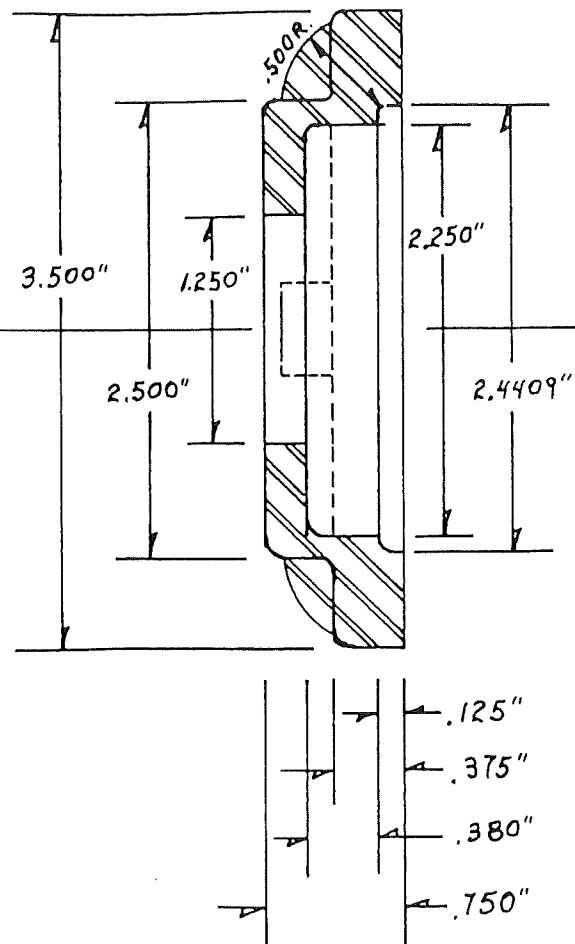
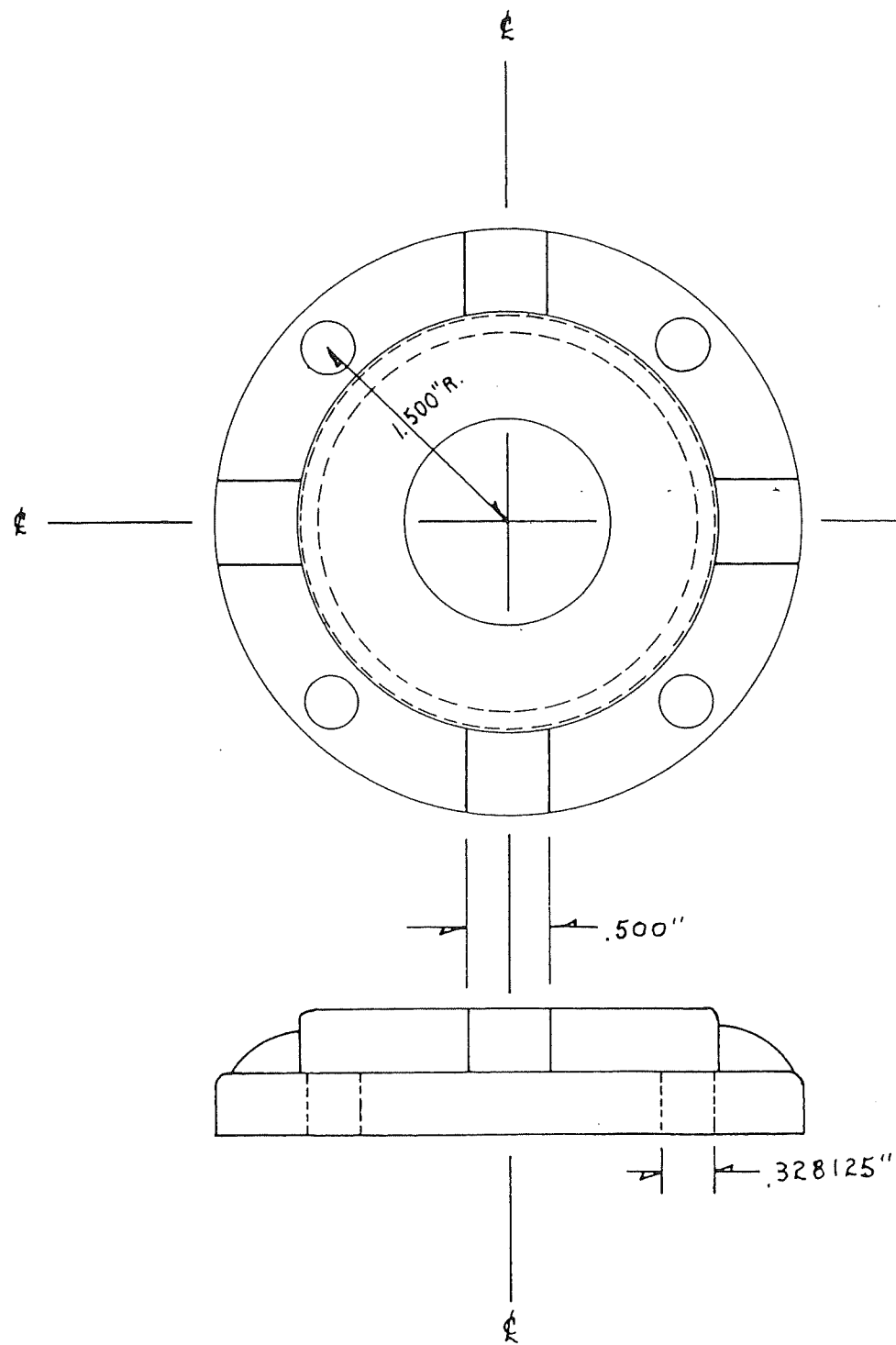


DRILL & TAP
 $\frac{3}{8}$ "-16 x $\frac{5}{8}$ " DEEP



DRILL & TAP
 $\frac{5}{16}$ "-18 x $\frac{5}{8}$ " DEEP

CRANKCASE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
		DRAWING NUMBER 26



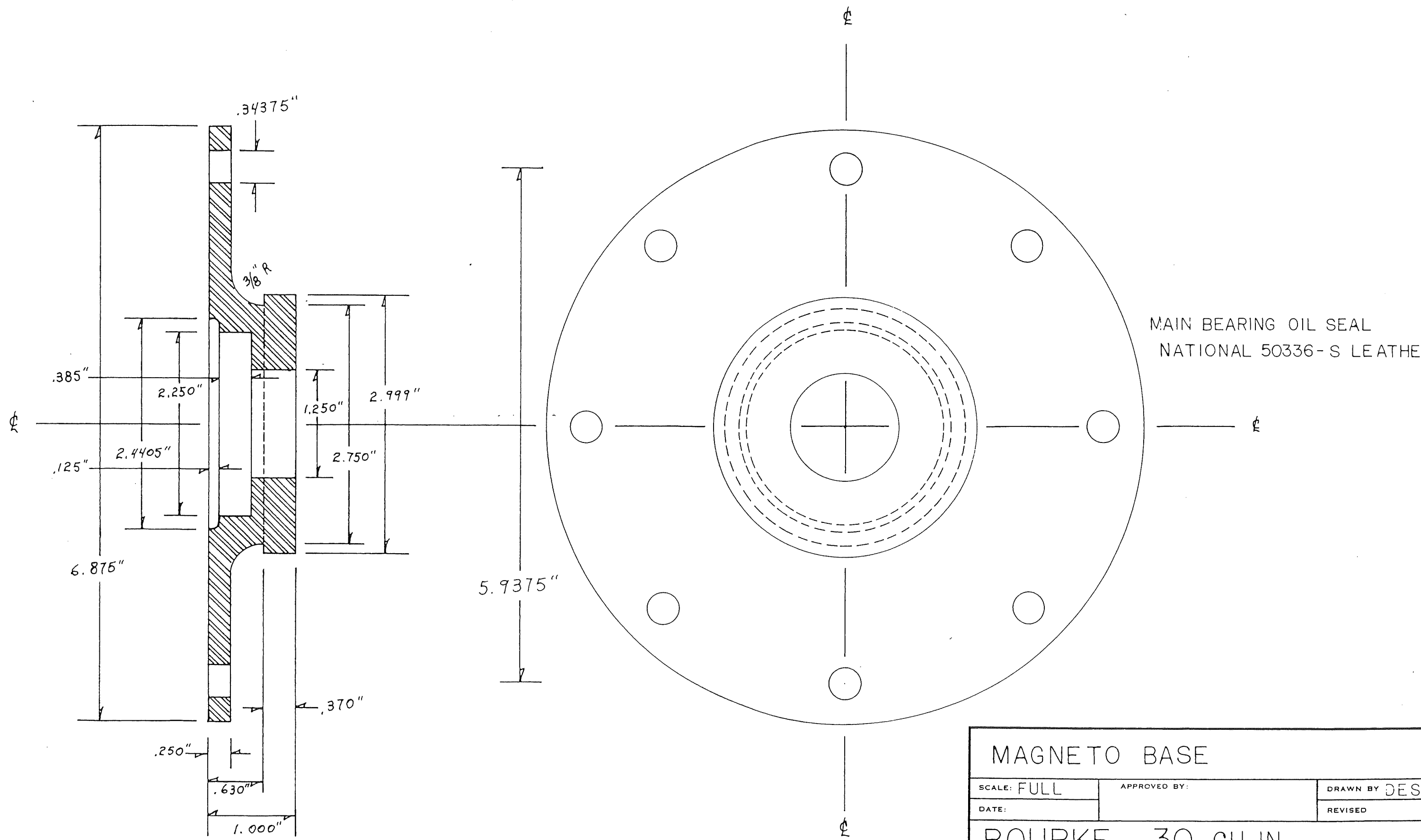
MAIN BEARING
OIL SEAL
NATIONAL 50336-S LEATHER

BOTTOM OIL SEAL COVER

SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED

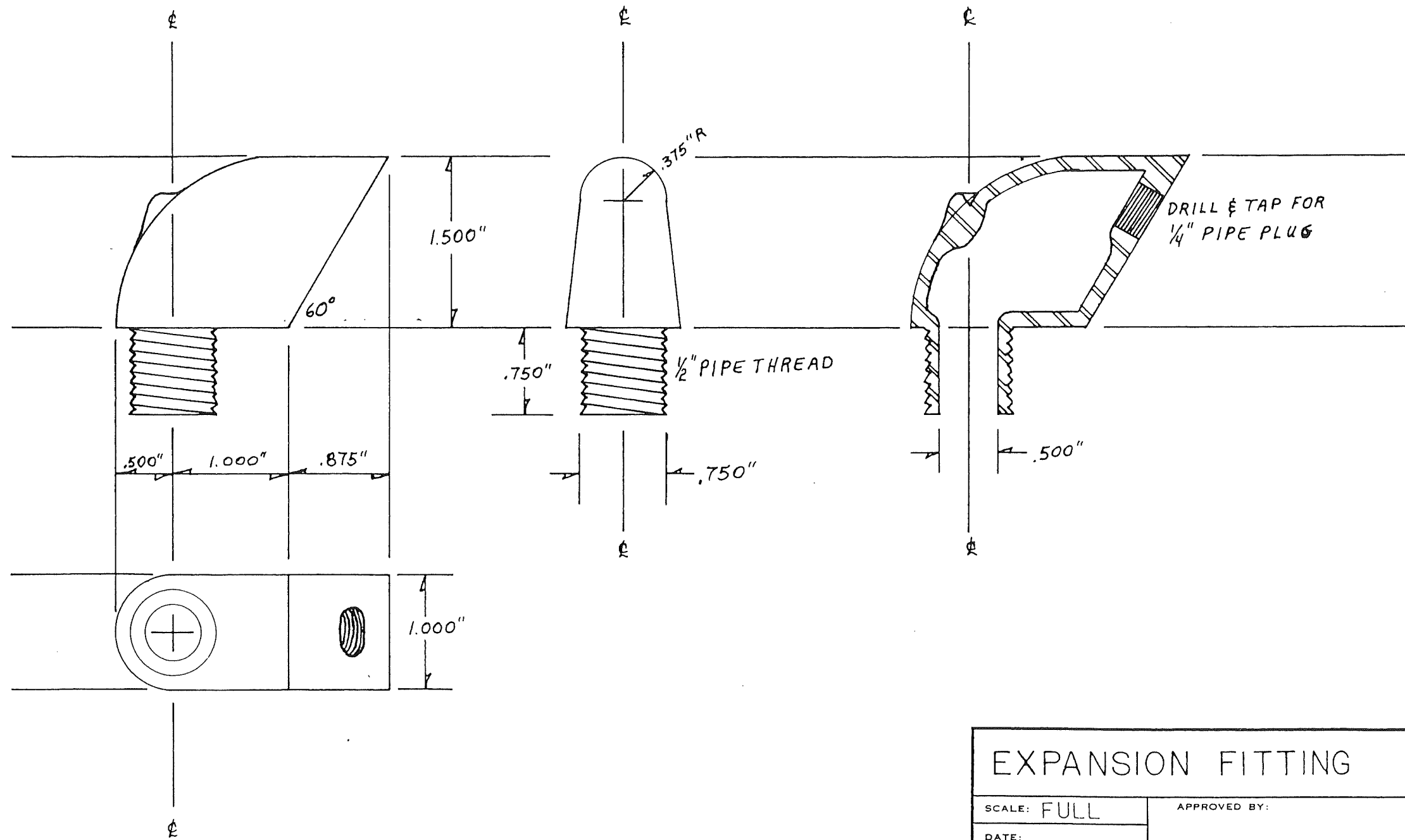
BOURKE 30 CU. IN.

DRAWING NUMBER
28

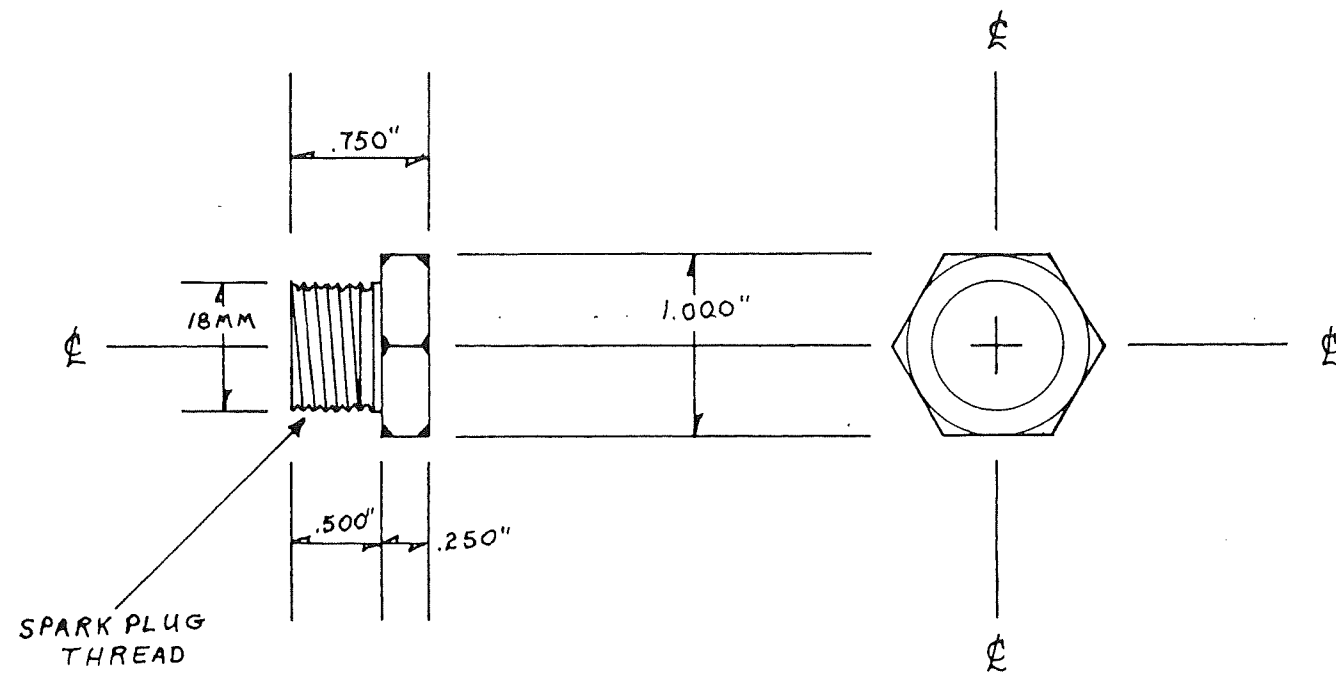


MAIN BEARING OIL SEAL
NATIONAL 50336-S LEATHER

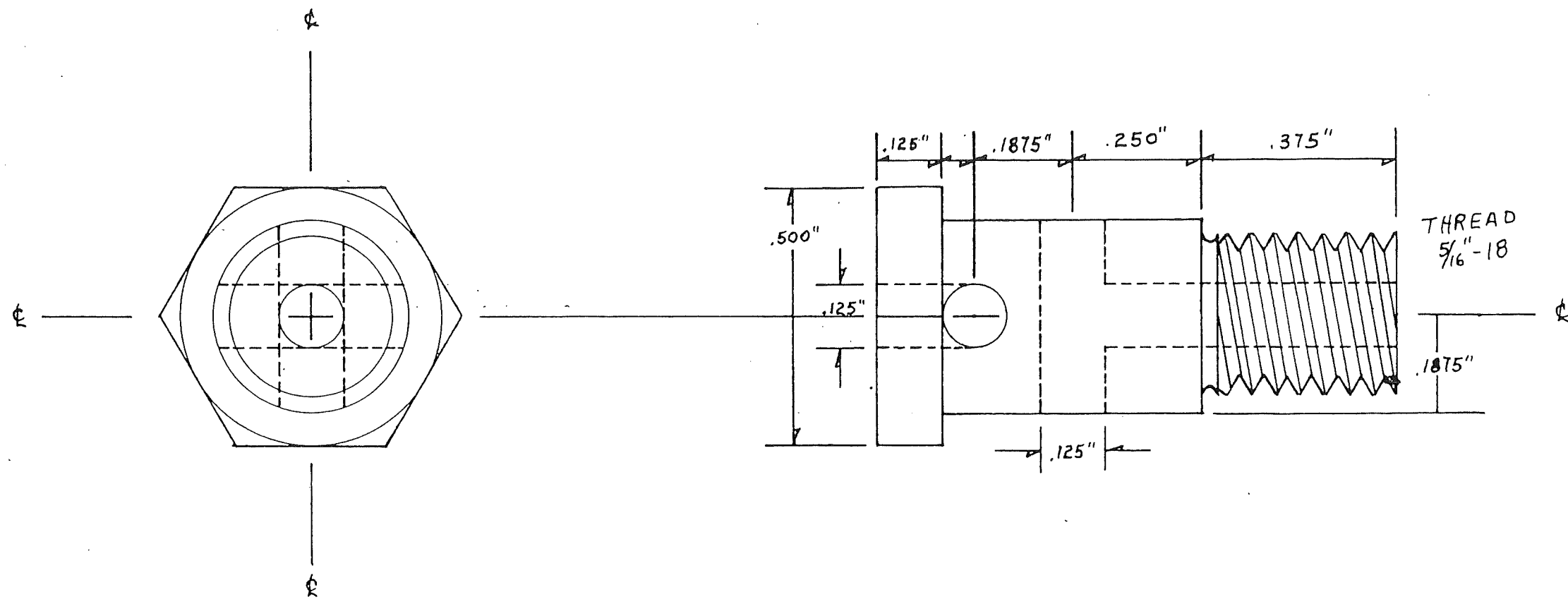
MAGNETO BASE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		DRAWING NUMBER
		29



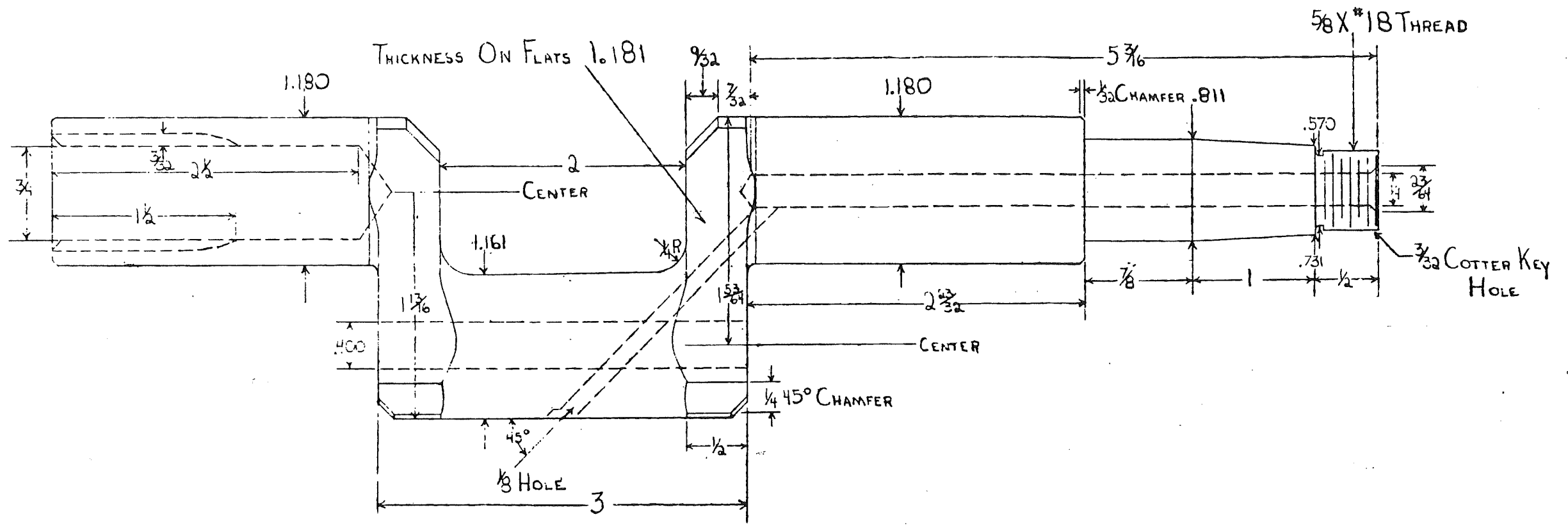
EXPANSION FITTING		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU.IN.		
	DRAWING NUMBER	30



COMPRESSION ADJUST PLUG		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 31

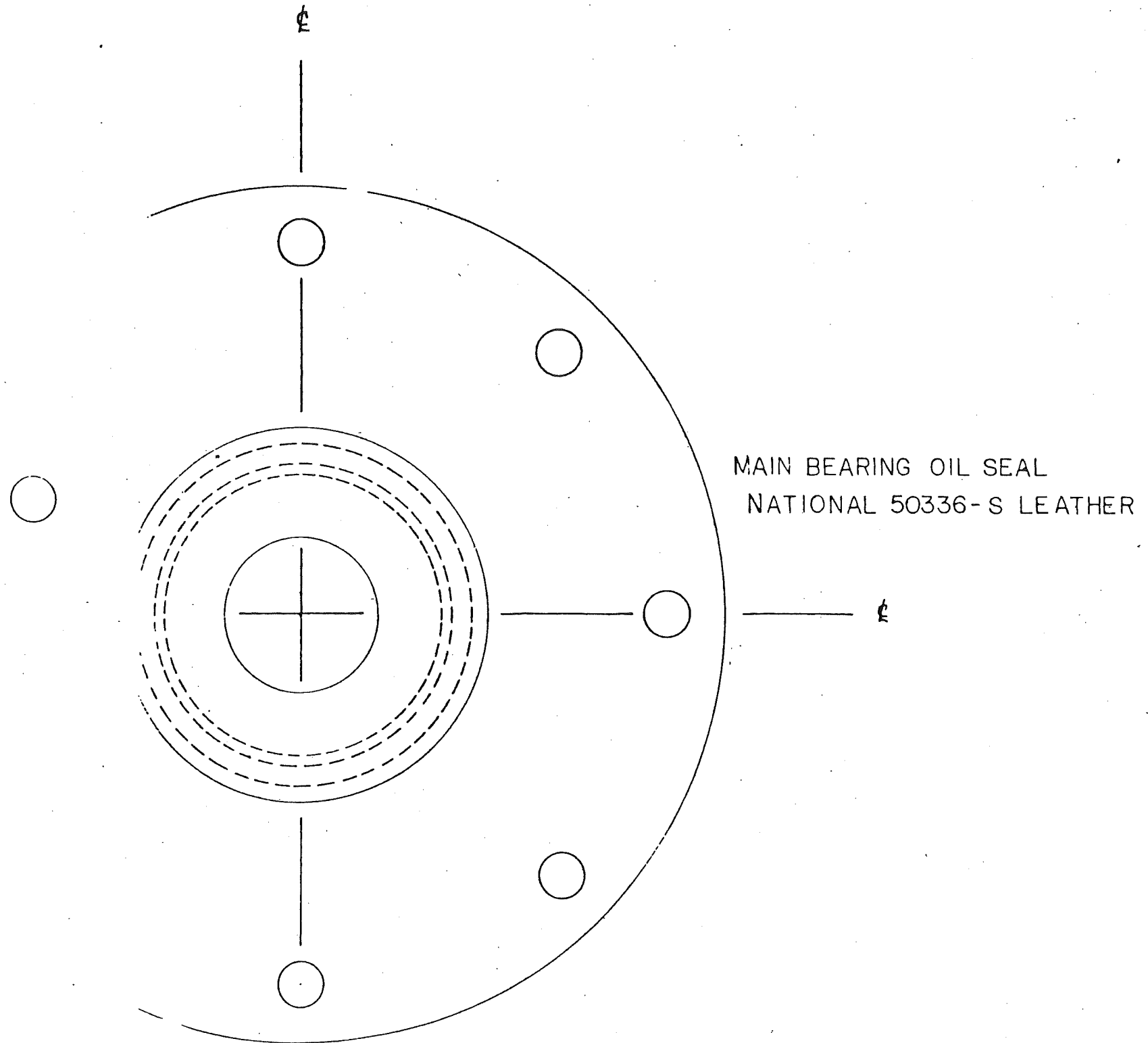
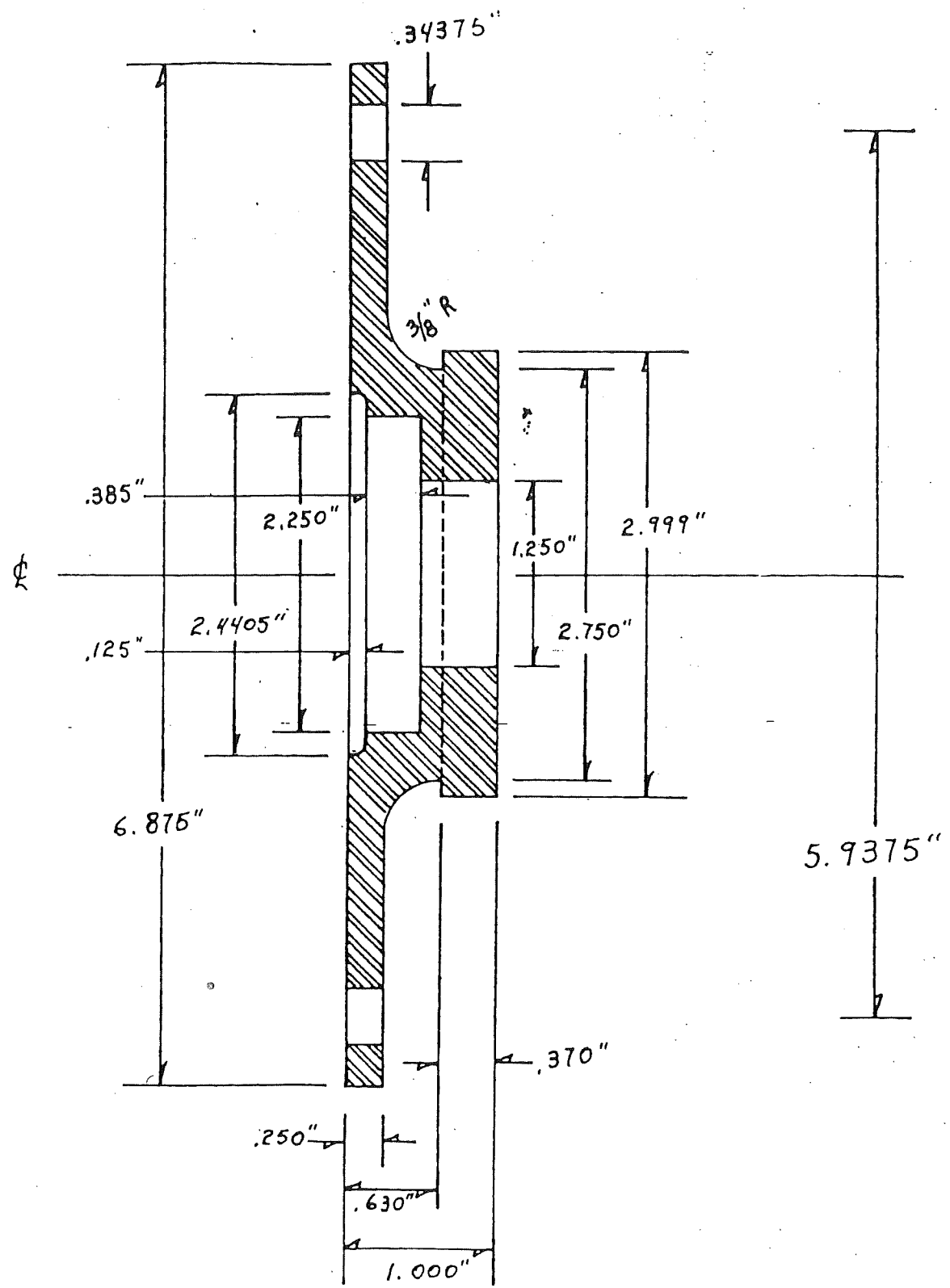


INJECTOR BODY		
SCALE: 4X	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		
		DRAWING NUMBER 32

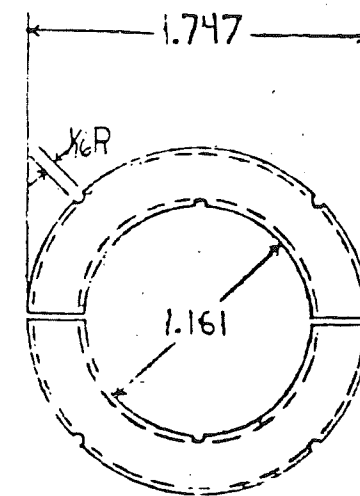
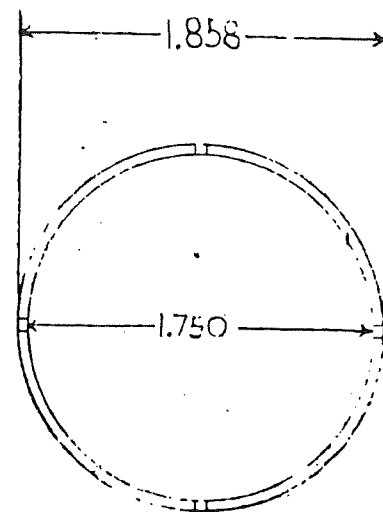
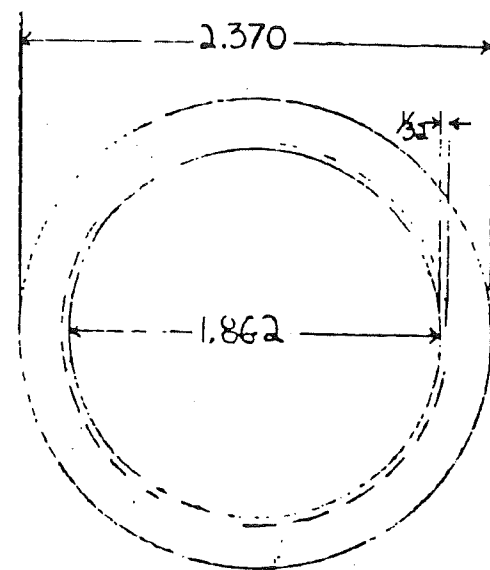
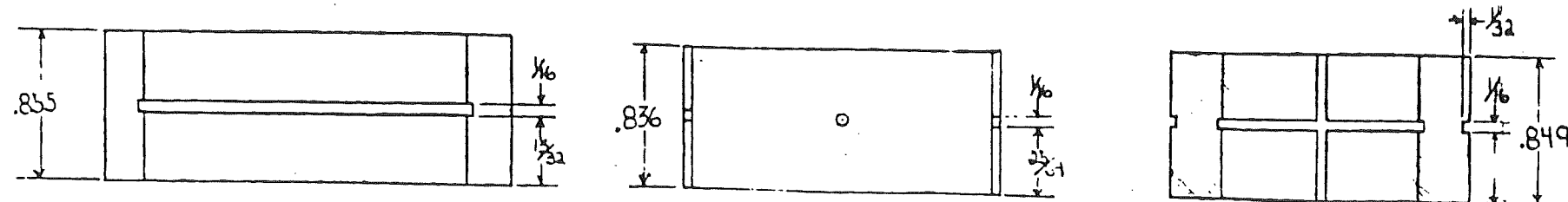


DRAWING OF CRANK SHAFT

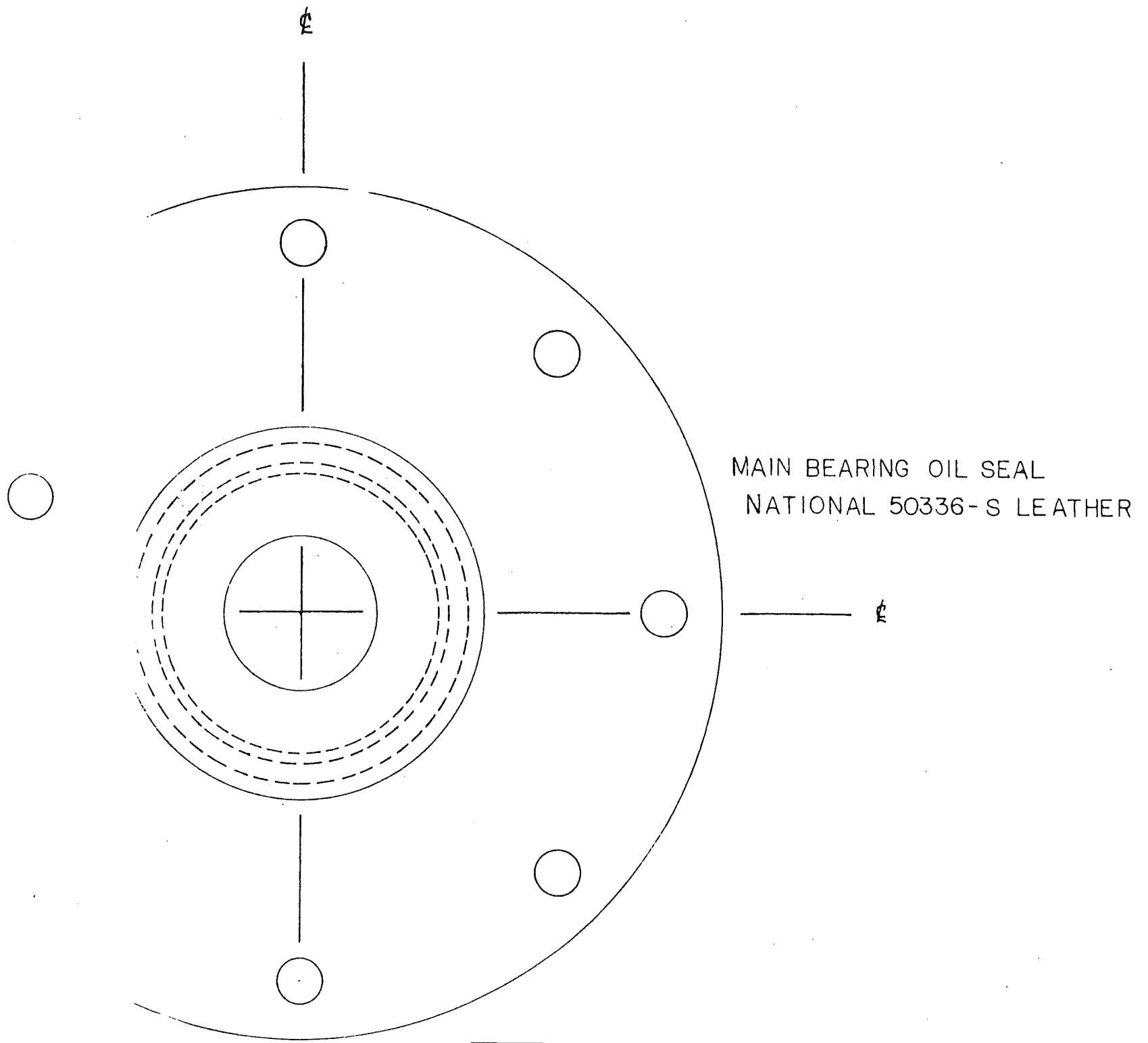
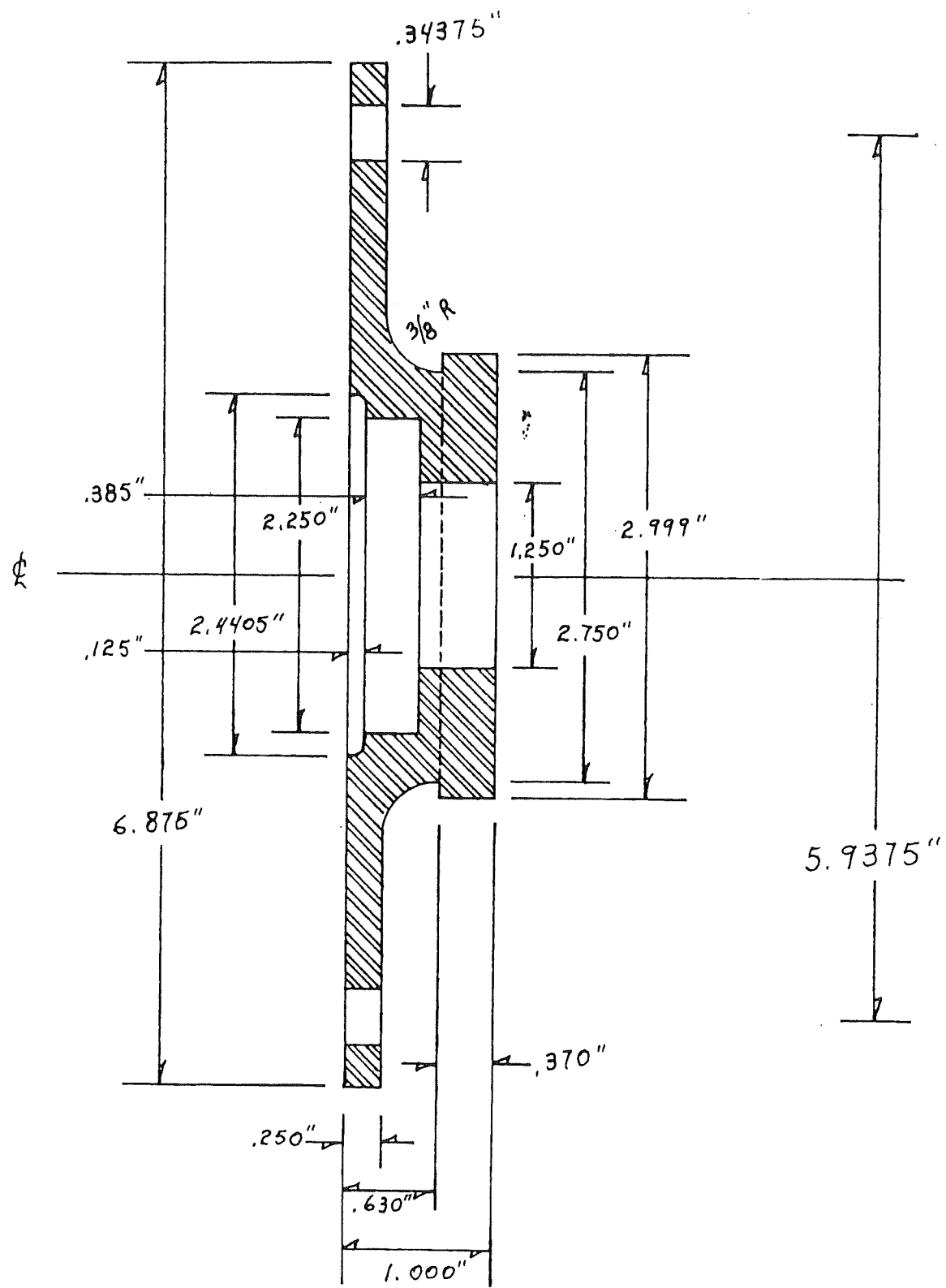
TOLERANCES FRACTIONS ± 1/64
 DECIMALS



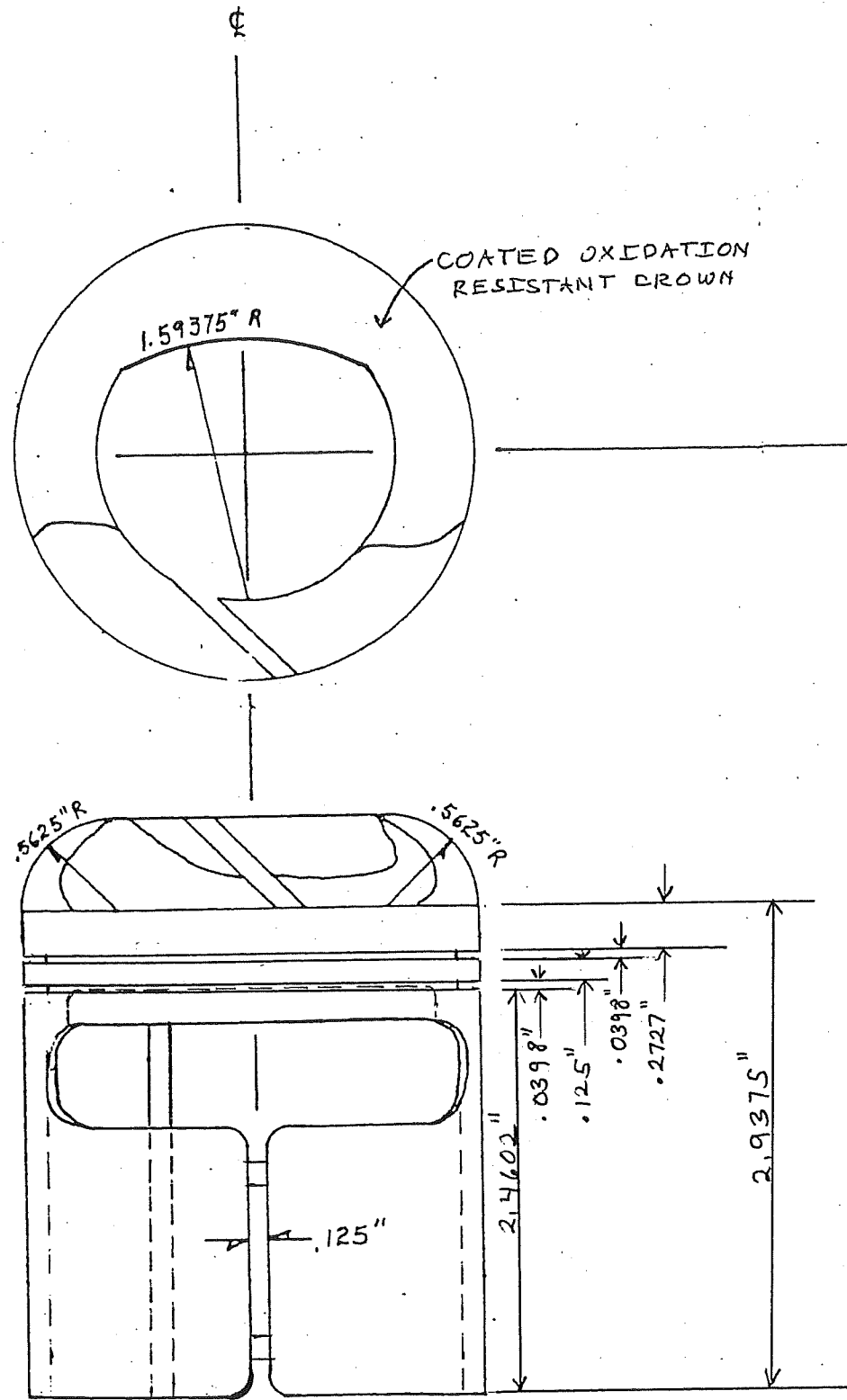
MAGNETO BASE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		



DRAWING OF OUTER RACE OF SLIPPER BEARING	DRAWING OF CENTER RACE OF SLIPPER BEARING	DRAWING OF INNER RACE OF SLIPPER BEARING By: SZ
--	---	--

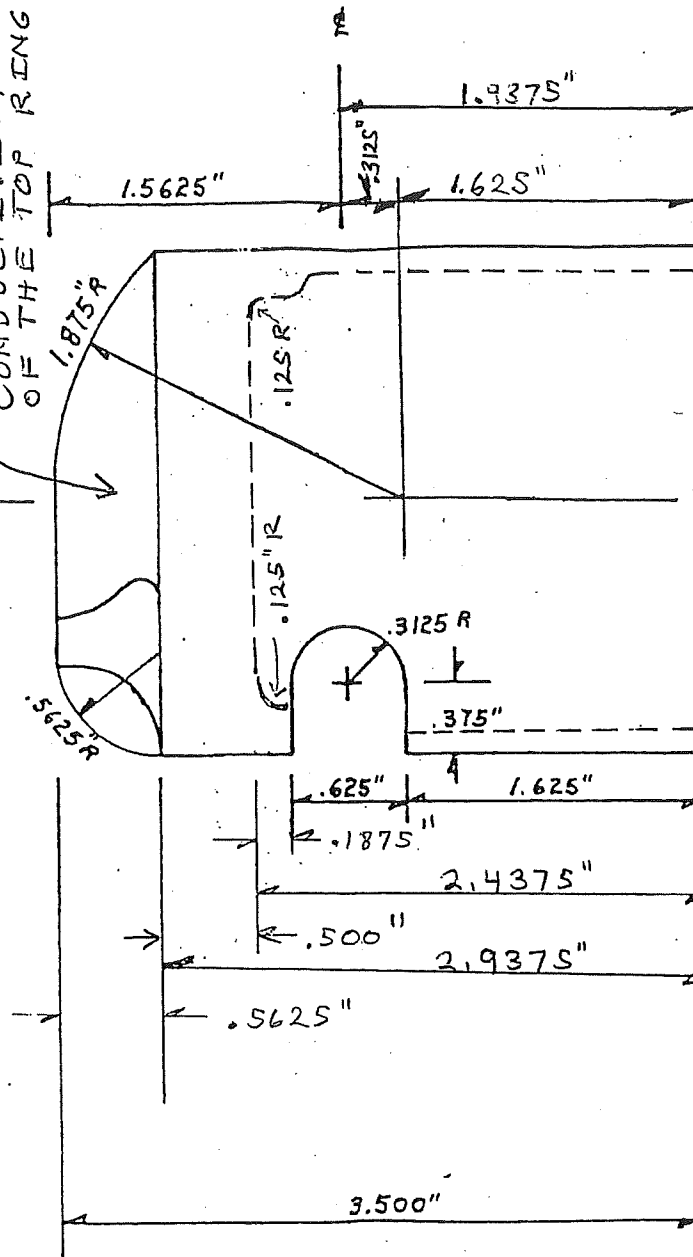


MAGNETO BASE		
SCALE: FULL	APPROVED BY:	DRAWN BY DES
DATE:		REVISED
BOURKE 30 CU. IN.		



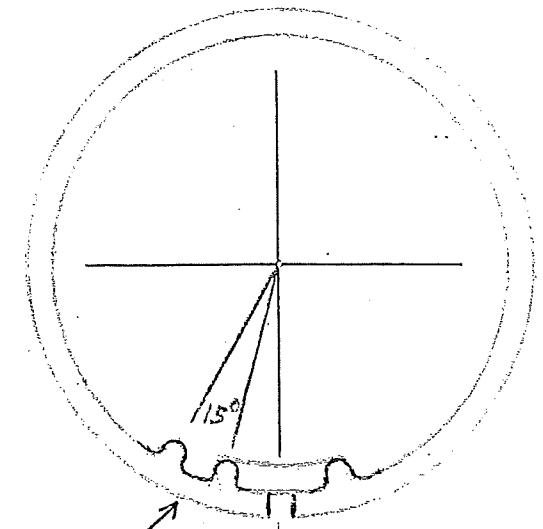
.125" X .125" SKIRT RIBS ON 15° INTERVALS AROUND THE PISTON ϕ WITH TWO .125" X .125" PERPENDICULAR BRIDGING RIBS ϕ OVER THE SLOT

PISTON CROWN TAILORED FOR MINIMUM THERMAL CONDUCTIVITY TO THE TOP OF THE TOP RING GROOVE



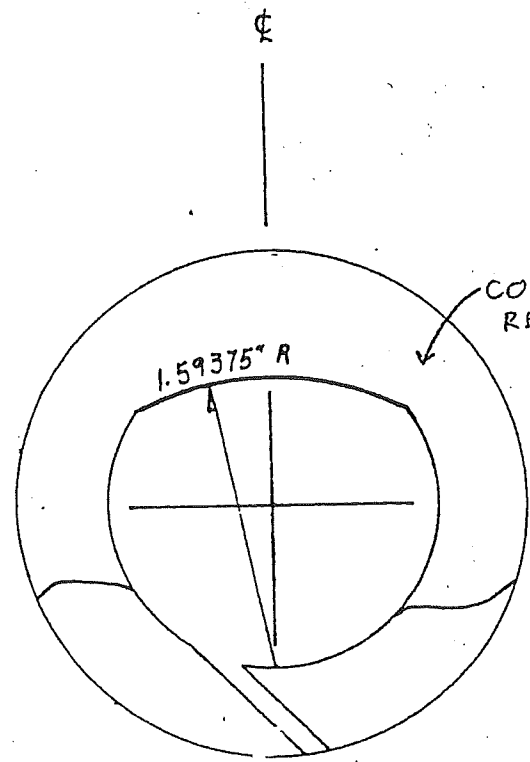
OUTSIDE DIAMETER FINISHED FOR 2.756" CYLINDER

FINISHED PISTON SKIRT .125" TAILORED FOR MAXIMUM THERMAL CONDUCTIVITY - IF POSSIBLE, THE LAST .015625" OF OUTSIDE SKIRT SURFACE SHOULD BE GRAPHITE MATRIX

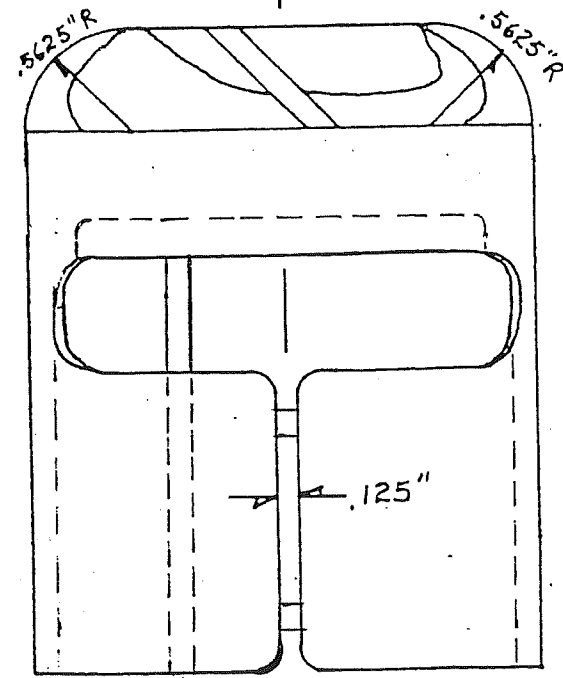


.125" X .125" SKIRT RIBS ON 15° INTERVALS AROUND THE PISTON ϕ WITH TWO .125" X .125" PERPENDICULAR BRIDGING RIBS OVER THE SLOT

BASE DRAWING WITH RING GROOVES ADDED

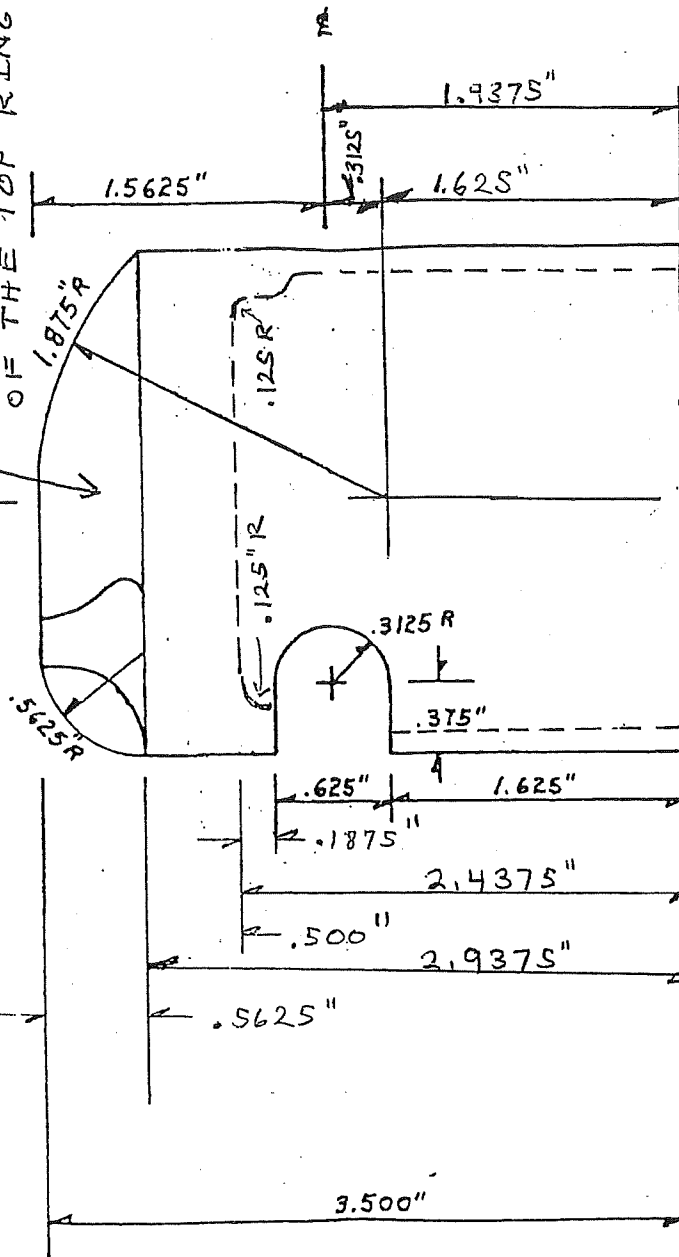


COATED OXIDATION RESISTANT CROWN



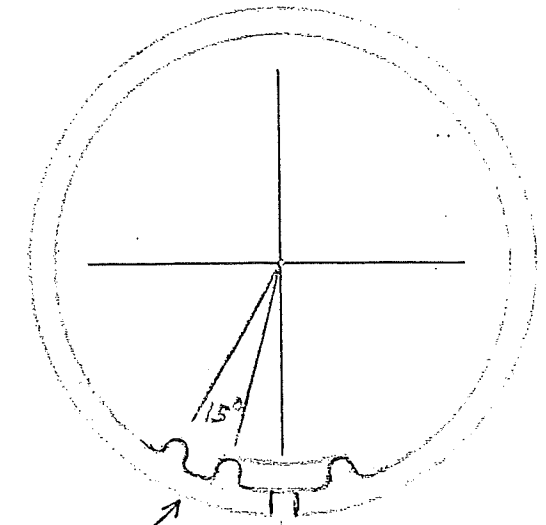
.125" X .125" SKIRT RIBS ON 15° INTERVALS AROUND THE PISTON ϕ WITH TWO .125" X .125" PERPENDICULAR BRIDGING RIBS ϕ OVER THE SLOT

PISTON CROWN TAILORED FOR MINIMUM THERMAL CONDUCTIVITY TO THE TOP OF THE TOP RING GROOVE



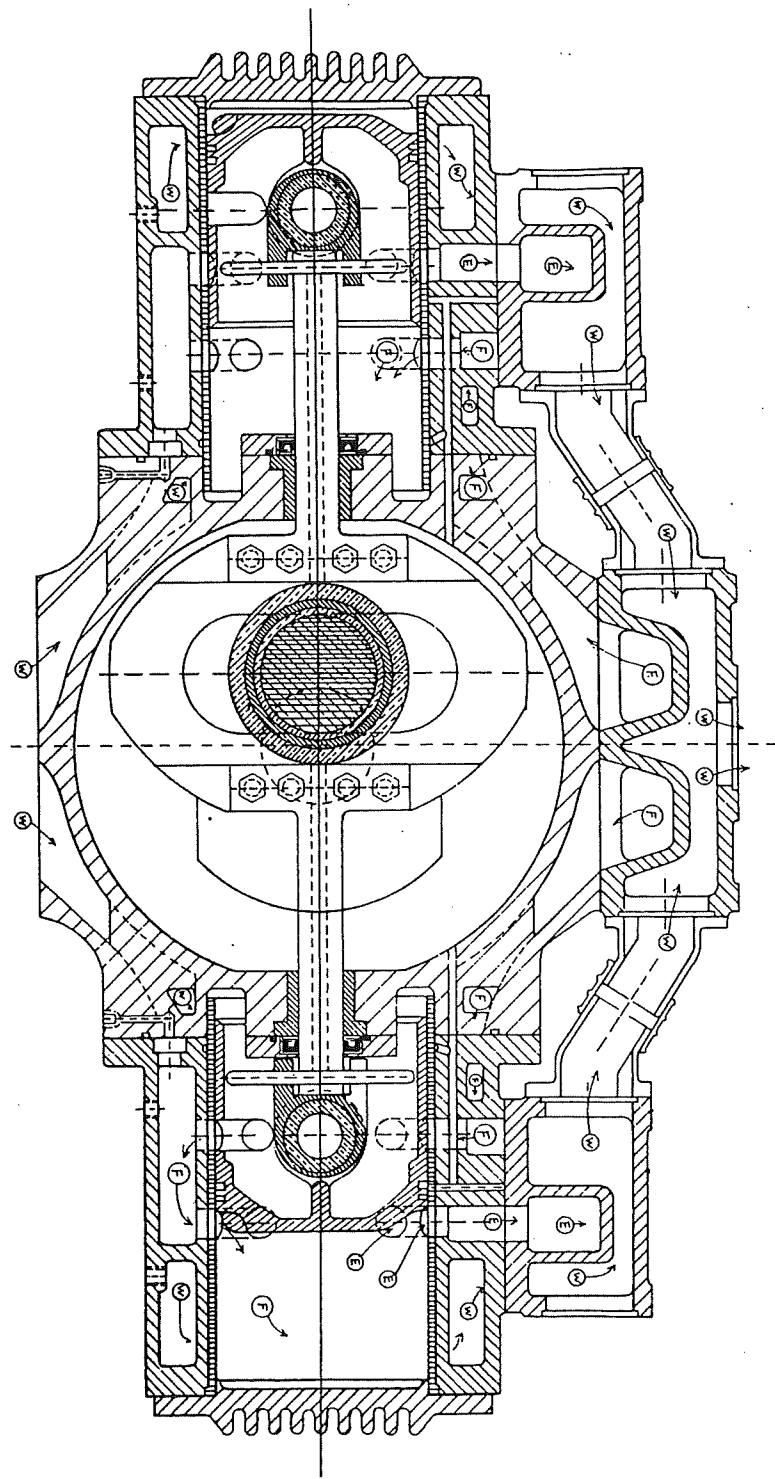
OUTSIDE DIAMETER FINISHED FOR 2.756" CYLINDER

FINISHED PISTON SKIRT .125" TAILORED FOR MAXIMUM THERMAL CONDUCTIVITY - IF POSSIBLE, THE LAST .015625" OF OUTSIDE SKIRT SURFACE SHOULD BE GRAPHITE MATRIX

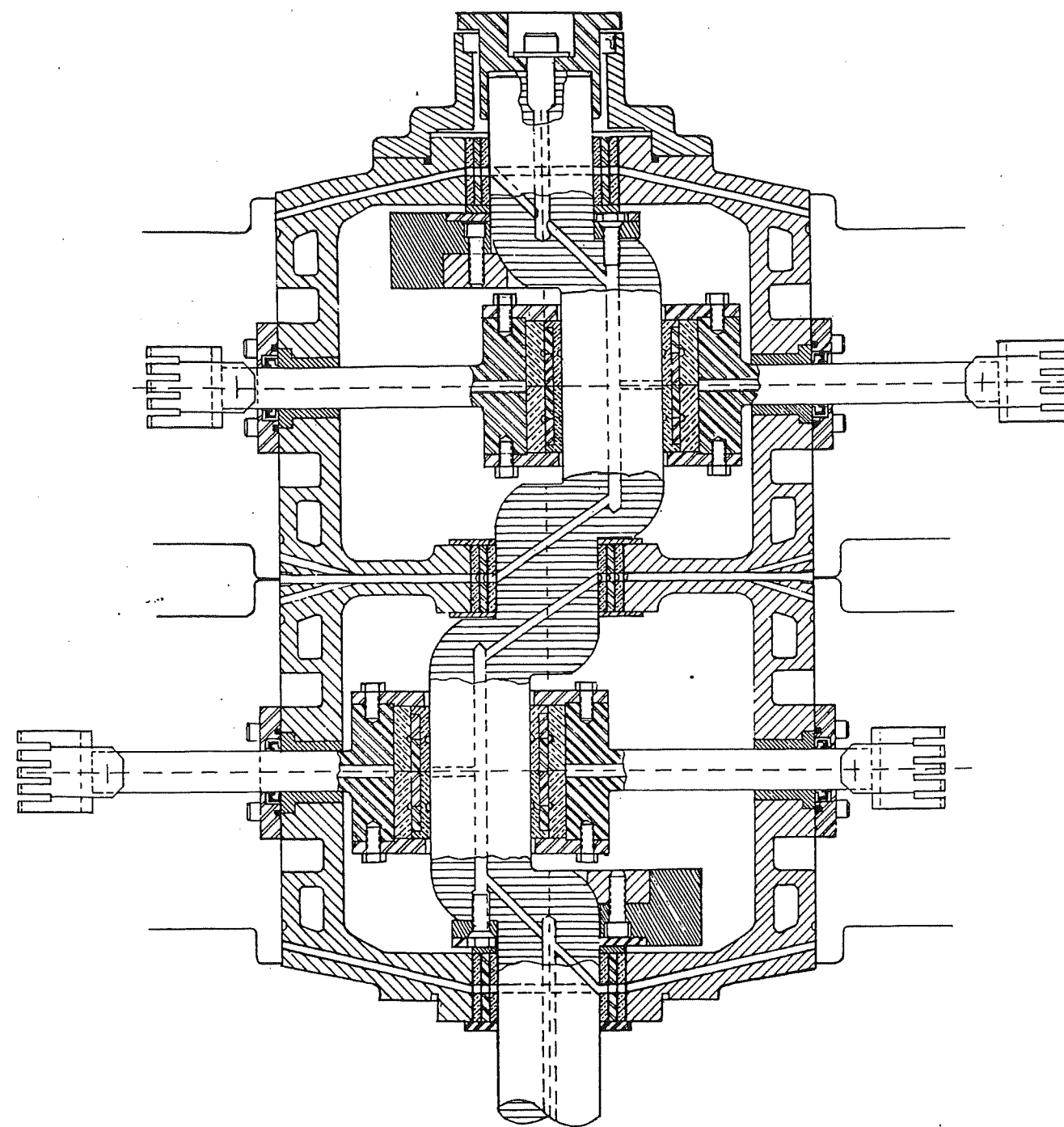


.125" X .125" SKIRT RIBS ON 15° INTERVALS AROUND THE PISTON ϕ WITH TWO .125" X .125" PERPENDICULAR BRIDGING RIBS ϕ OVER THE SLOT

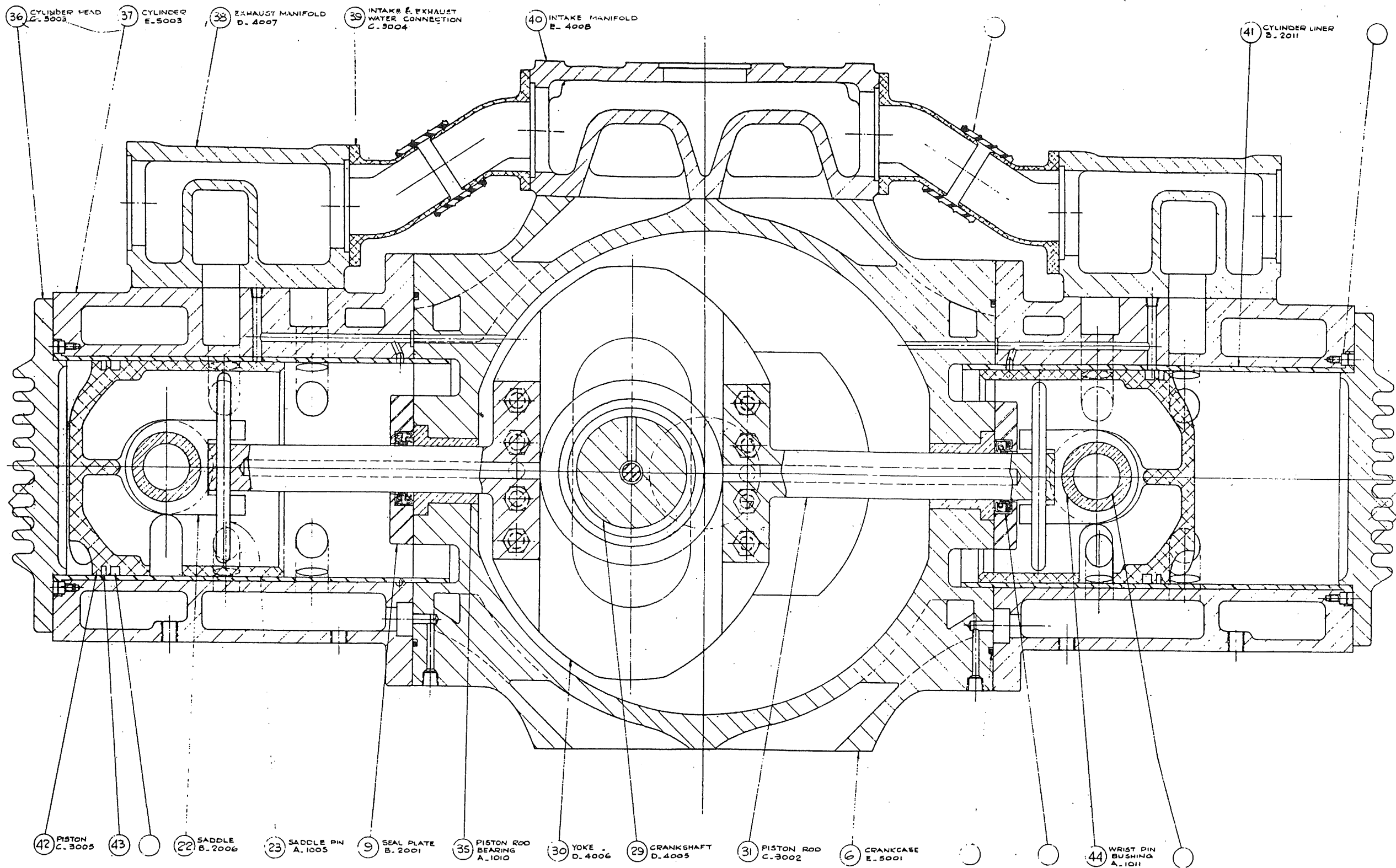
BASE DRAWING FOR RINGLESS AND RINGED PISTON



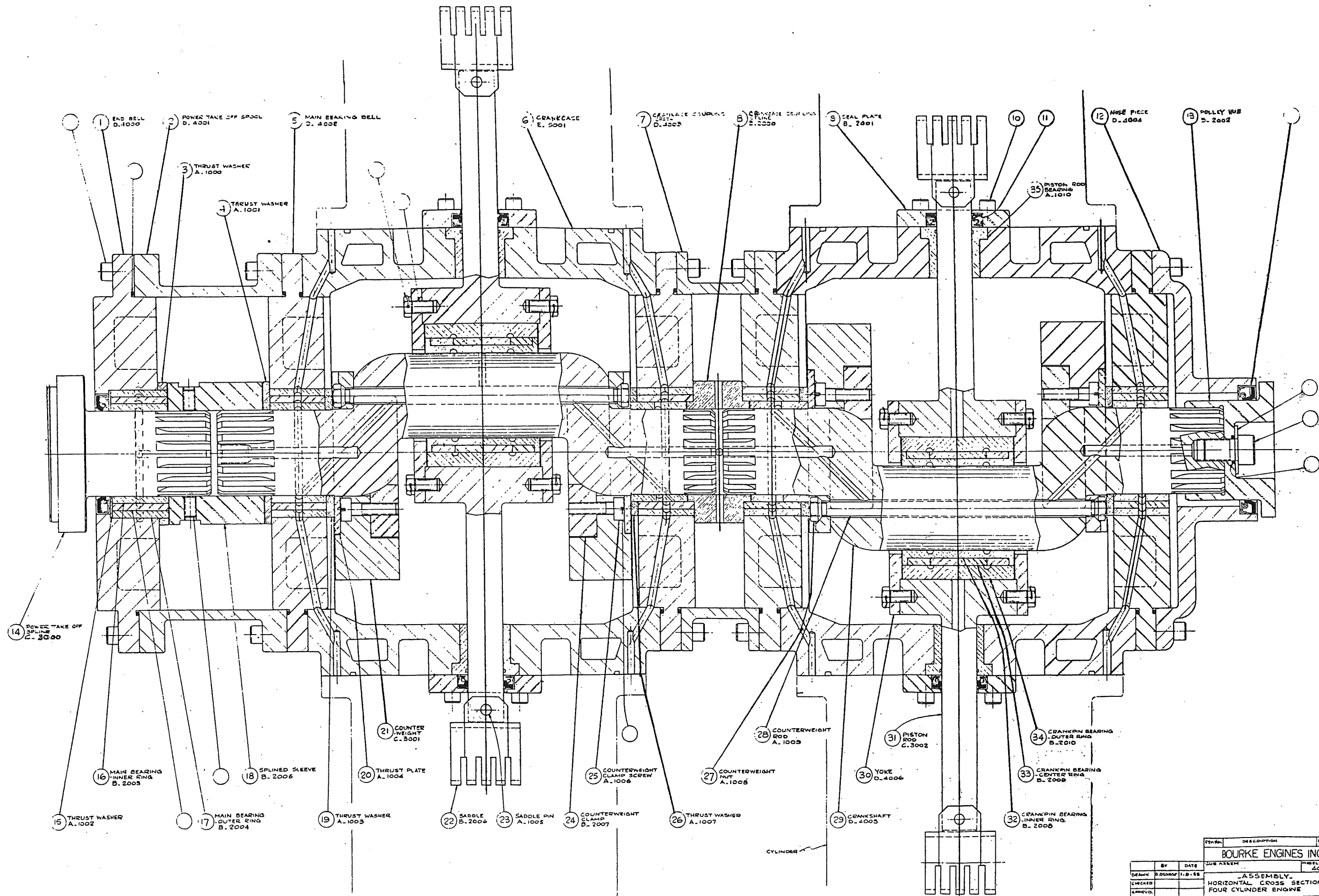
VERTICAL CROSS SECTION OF BOURKE 400



HORIZONTAL CROSS SECTION OF BOURKE 400

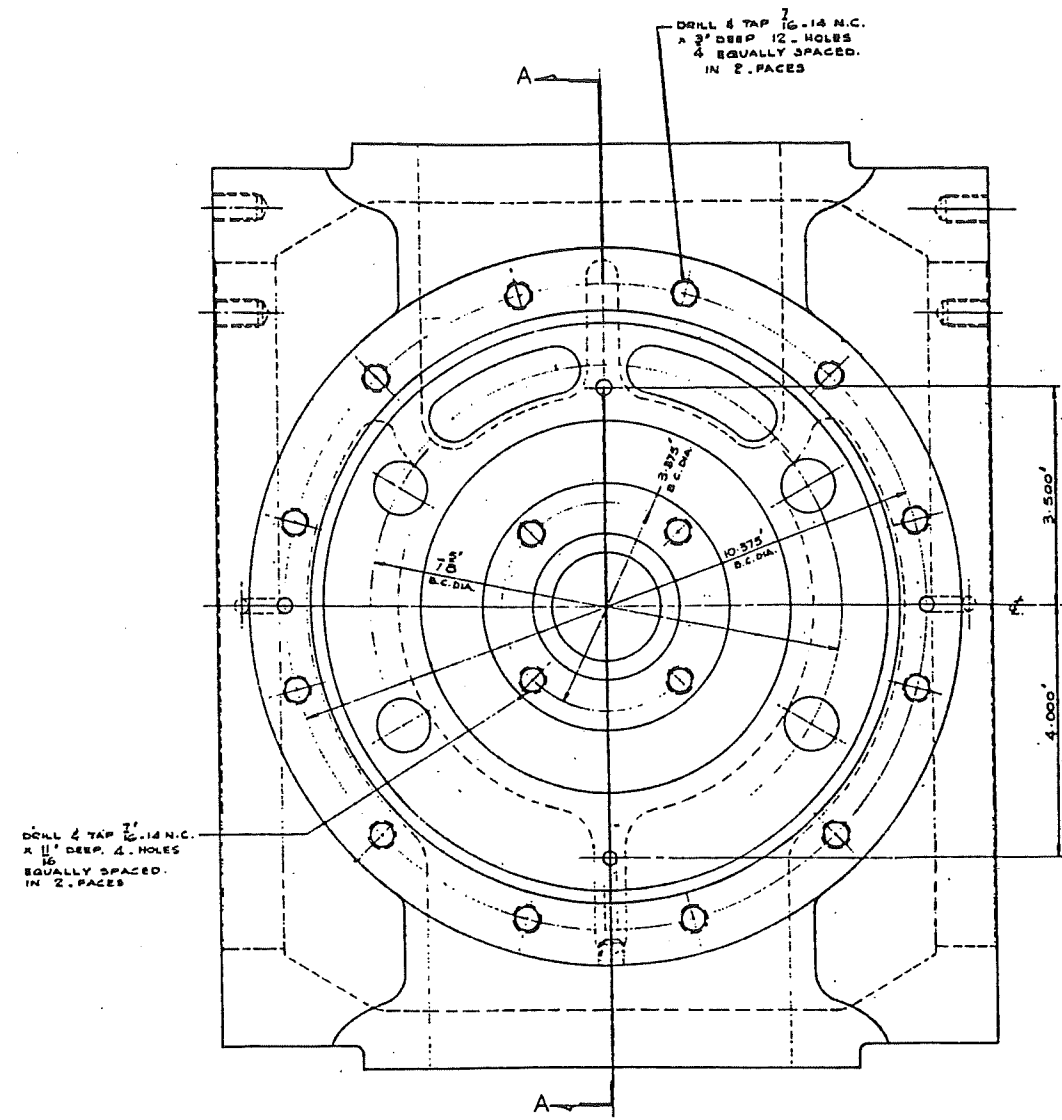


REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC. MODEL No. 400 - ASSEMBLY - VERTICAL CROSS SECTION THRU TWO CYLINDERS SCALE FULL SIZE DRAWING No. E. 5002			
DRAWN	D. OROSC		1-8-55
CHECKED			
APPROVED			
			REV.



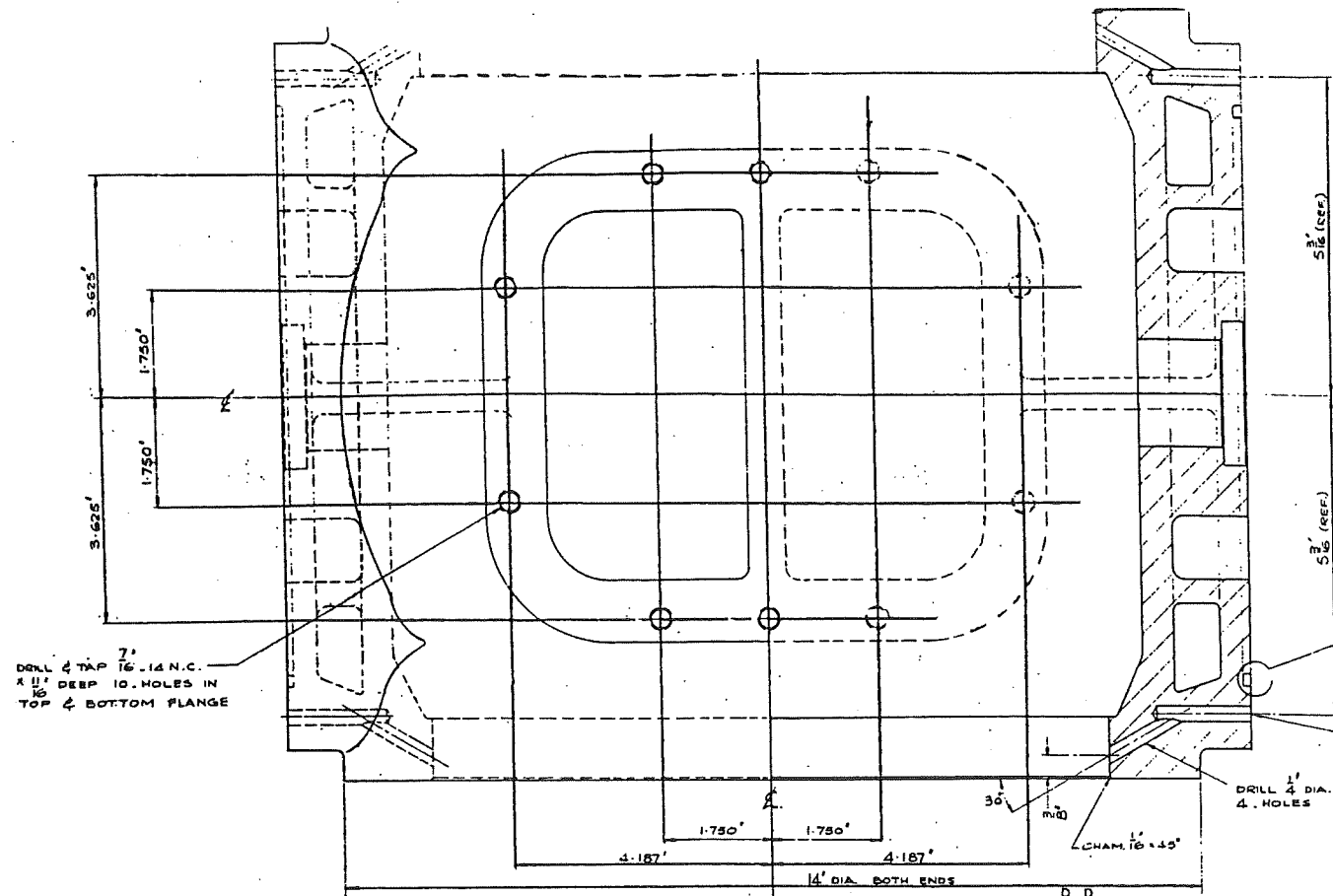
- 1 END BELL D. 1030
- 2 POWER TAKE OFF SPOOL D. 4301
- 3 MAIN BEARING BELL D. 4002
- 4 CRANKCASE E. 5001
- 5 CRANKCASE COUPLING WHEEL D. 4003
- 6 CRANKCASE COUPLING FLANGE E. 2030
- 7 SEAL PLATE B. 2001
- 8 NUT PIECE D. 4004
- 9 POLLEY WUB E. 2002
- 10 THRUST WASHER A. 1000
- 11 THRUST WASHER A. 1001
- 12 THRUST WASHER A. 1002
- 13 THRUST WASHER A. 1003
- 14 THRUST WASHER A. 1004
- 15 THRUST WASHER A. 1005
- 16 THRUST WASHER A. 1006
- 17 THRUST WASHER A. 1007
- 18 THRUST WASHER A. 1008
- 19 THRUST WASHER A. 1009
- 20 THRUST WASHER A. 1010
- 21 THRUST WASHER A. 1011
- 22 THRUST WASHER A. 1012
- 23 THRUST WASHER A. 1013
- 24 THRUST WASHER A. 1014
- 25 THRUST WASHER A. 1015
- 26 THRUST WASHER A. 1016
- 27 THRUST WASHER A. 1017
- 28 THRUST WASHER A. 1018
- 29 THRUST WASHER A. 1019
- 30 THRUST WASHER A. 1020
- 31 THRUST WASHER A. 1021
- 32 THRUST WASHER A. 1022
- 33 THRUST WASHER A. 1023
- 34 THRUST WASHER A. 1024
- 35 THRUST WASHER A. 1025
- 16 MAIN BEARING INNER RING B. 2003
- 17 MAIN BEARING OUTER RING B. 2004
- 18 SPLINED SLEEVE B. 2005
- 19 THRUST WASHER A. 1003
- 20 THRUST PLATE A. 1004
- 21 COUNTERWEIGHT ROD C. 3001
- 22 SADDLE B. 2002
- 23 SADDLE PIN A. 1005
- 24 COUNTERWEIGHT CLAMP SCREW B. 2007
- 25 COUNTERWEIGHT CLAMP SCREW A. 1006
- 26 THRUST WASHER A. 1007
- 27 COUNTERWEIGHT NUT A. 1008
- 28 COUNTERWEIGHT ROD A. 1009
- 29 CRANKSHAFT D. 4005
- 30 YOKE D. 4006
- 31 PISTON ROD C. 3002
- 32 CRANKPIN BEARING INNER RING B. 2008
- 33 CRANKPIN BEARING CENTER RING B. 2009
- 34 CRANKPIN BEARING OUTER RING B. 2010
- 14 POWER TAKE OFF SPLINE E. 3000

BY		DATE	DESCRIPTION	BY	DATE
DRAWN		1.8.55	ASSEMBLY		
CHECKED			HORIZONTAL CROSS SECTION		
APPROVED			FOUR CYLINDER ENGINE		
SCALE FULL SIZE			DRAWING No E. 5000		



REV.	DESCRIPTION	BY	DATE
1	BOURKE ENGINES INC.		
2	CRANKCASE		

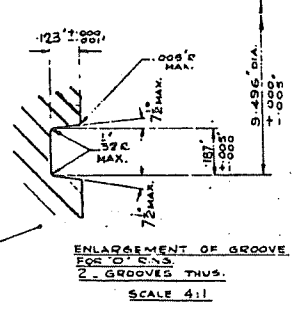
SCALE FOUR EIGHT SIXTY FIVE TO ONE



DRILL & TAP 7/16" DIA. X 1/16" DEEP 10 HOLES IN TOP & BOTTOM FLANGE

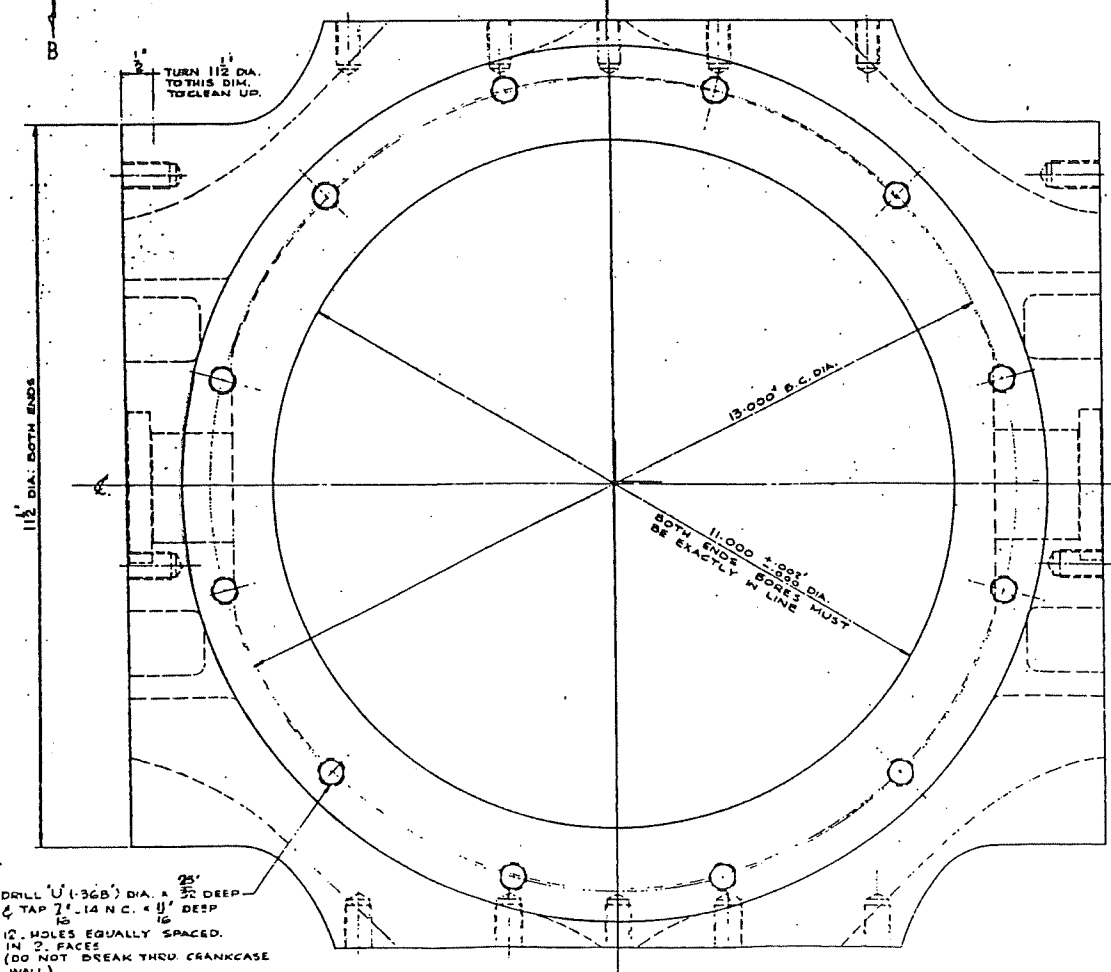
DRILL 1/4" DIA. 3/16" DEEP 4 HOLES

SECTION B-B



ENLARGEMENT OF GROOVE FOR O.S.S. GROOVES THUS. SCALE 4:1

- NOTES:
1. FACES C & D TO BE EXACTLY PARALLEL.
 2. BORE E TO BE EXACTLY 90° TO FACES C & D.
 3. ALL MACHINED SURFACES.
 4. THIS DRAWING FOR MACHINING PURPOSES ONLY.



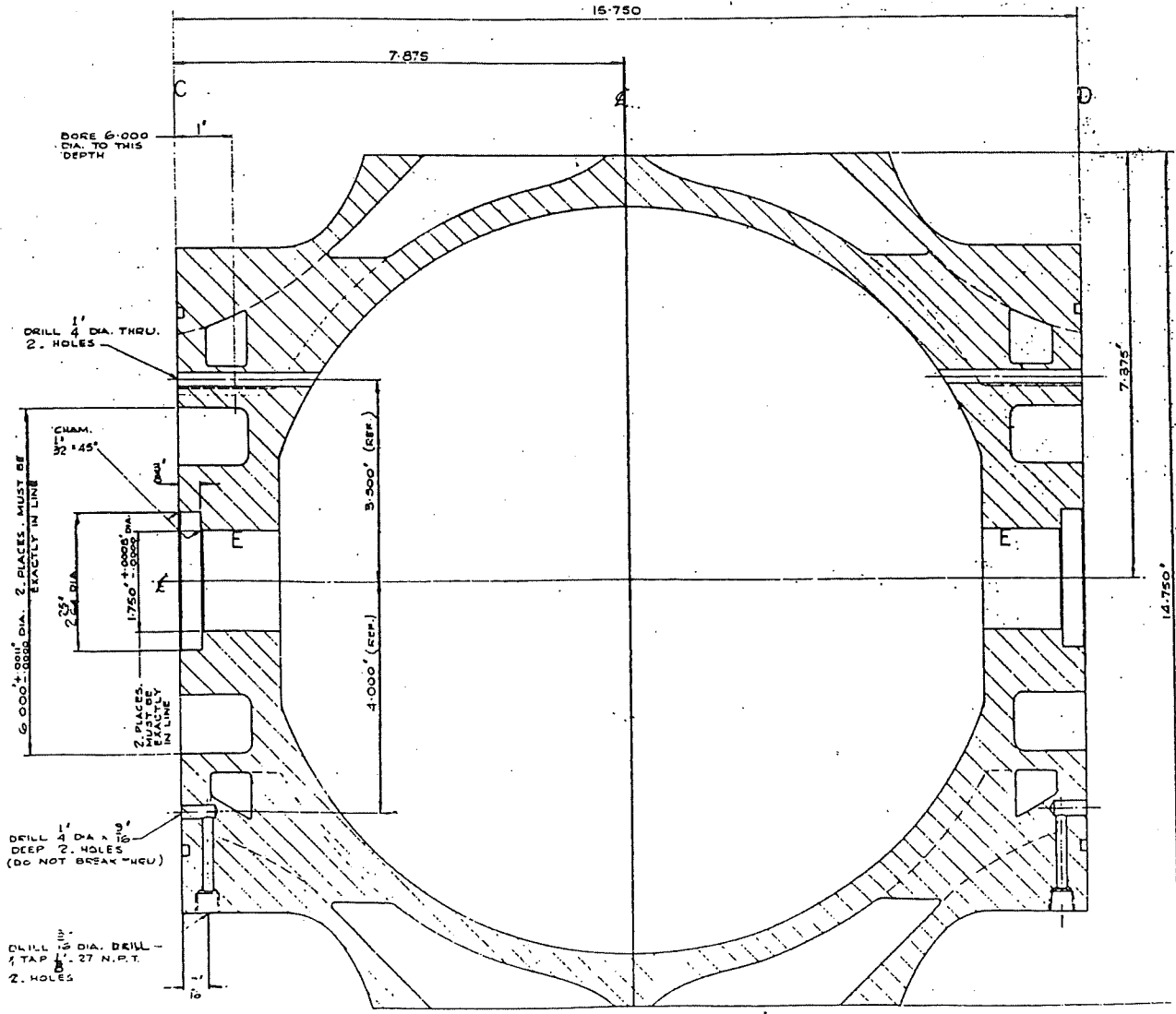
DRILL 1/4" (1/32") DIA. X 3/16" DEEP & TAP 7/16" N.C. X 1/16" DEEP 12 HOLES EQUALLY SPACED IN 2 FACES (DO NOT BREAK THRU CRANKCASE WALL)

DRILL 1/4" DIA. THRU 2 HOLES

6.000" DIA. 2 PLACES MUST BE EXACTLY IN LINE

DRILL 1/4" DIA. X 3/16" DEEP 2 HOLES (DO NOT BREAK THRU)

DRILL 1/8" DIA. DRILL 1 TAP 1/8" N.P.T. 2 HOLES

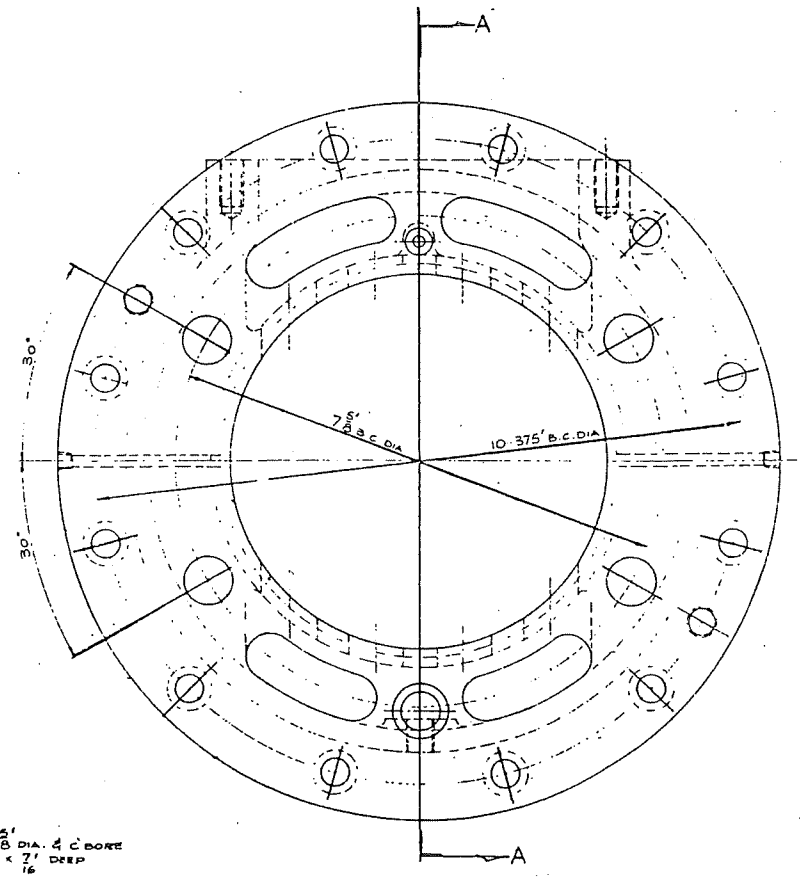
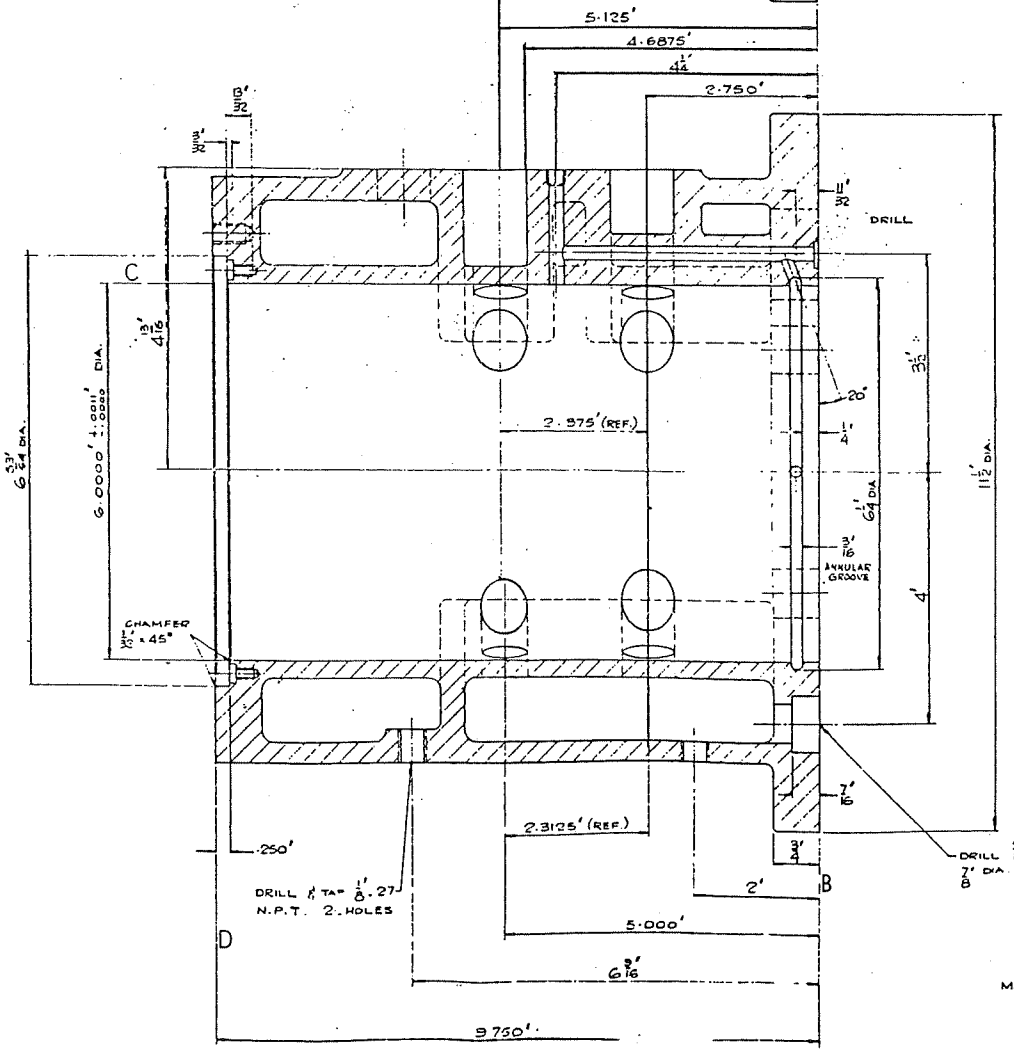
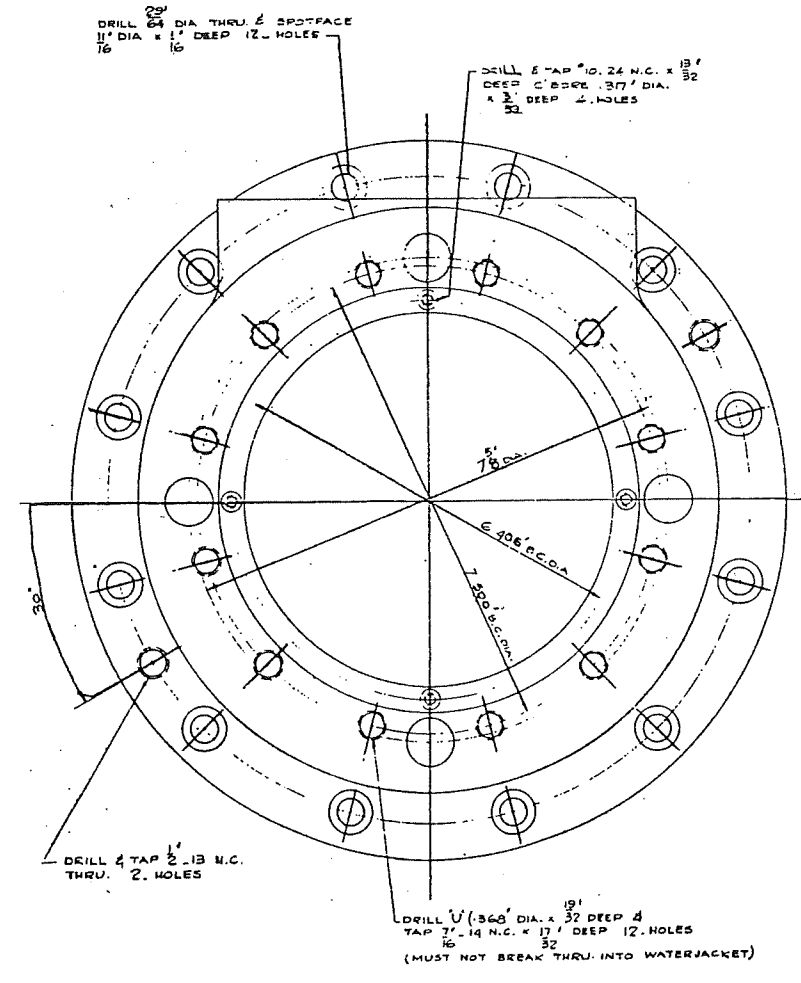
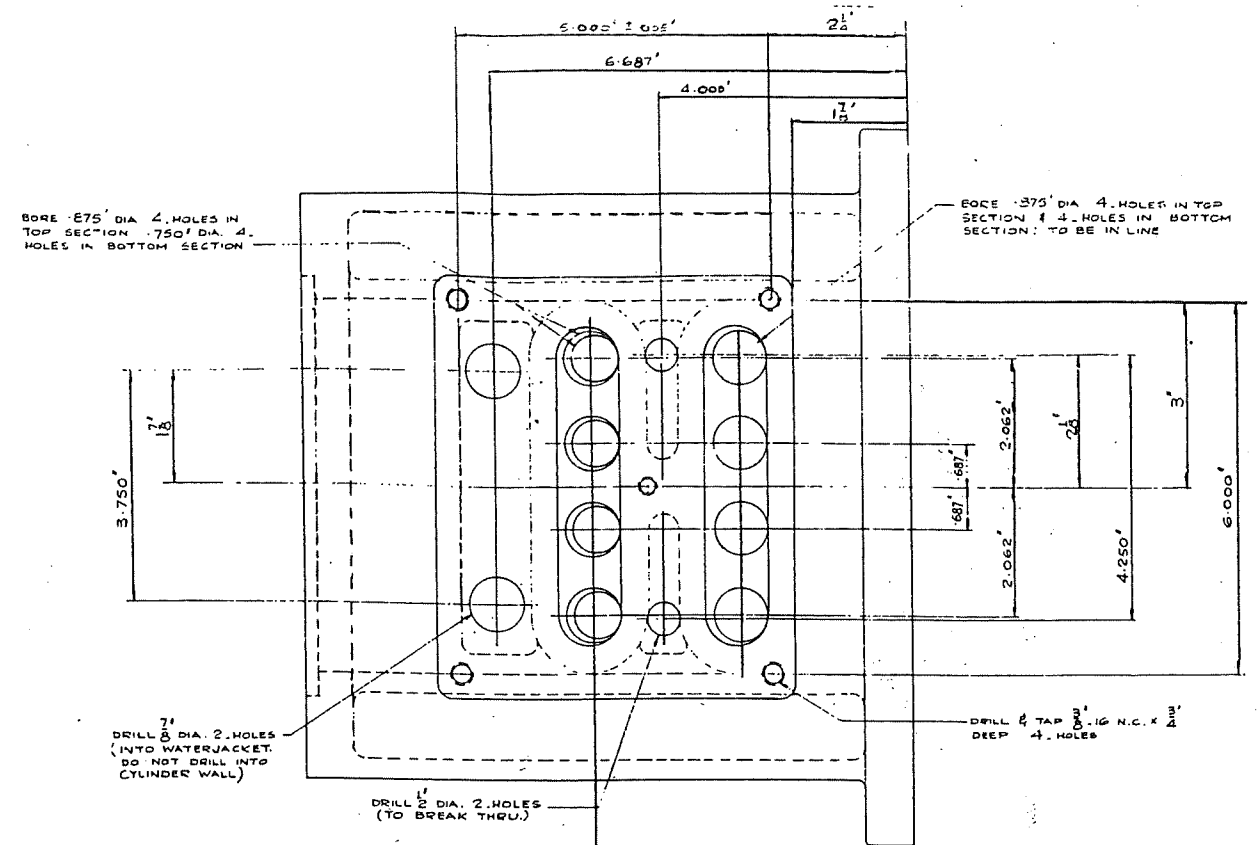


SECTION A-A

DESIGN	DESCRIPTION	DATE
BY	PROVISED	PROJECT
DRAWN	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE
SCALE FULL SIZE DRAWING NO. E.5001		

BOURKE ENGINES INC.

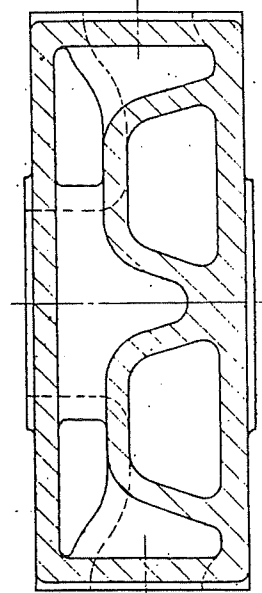
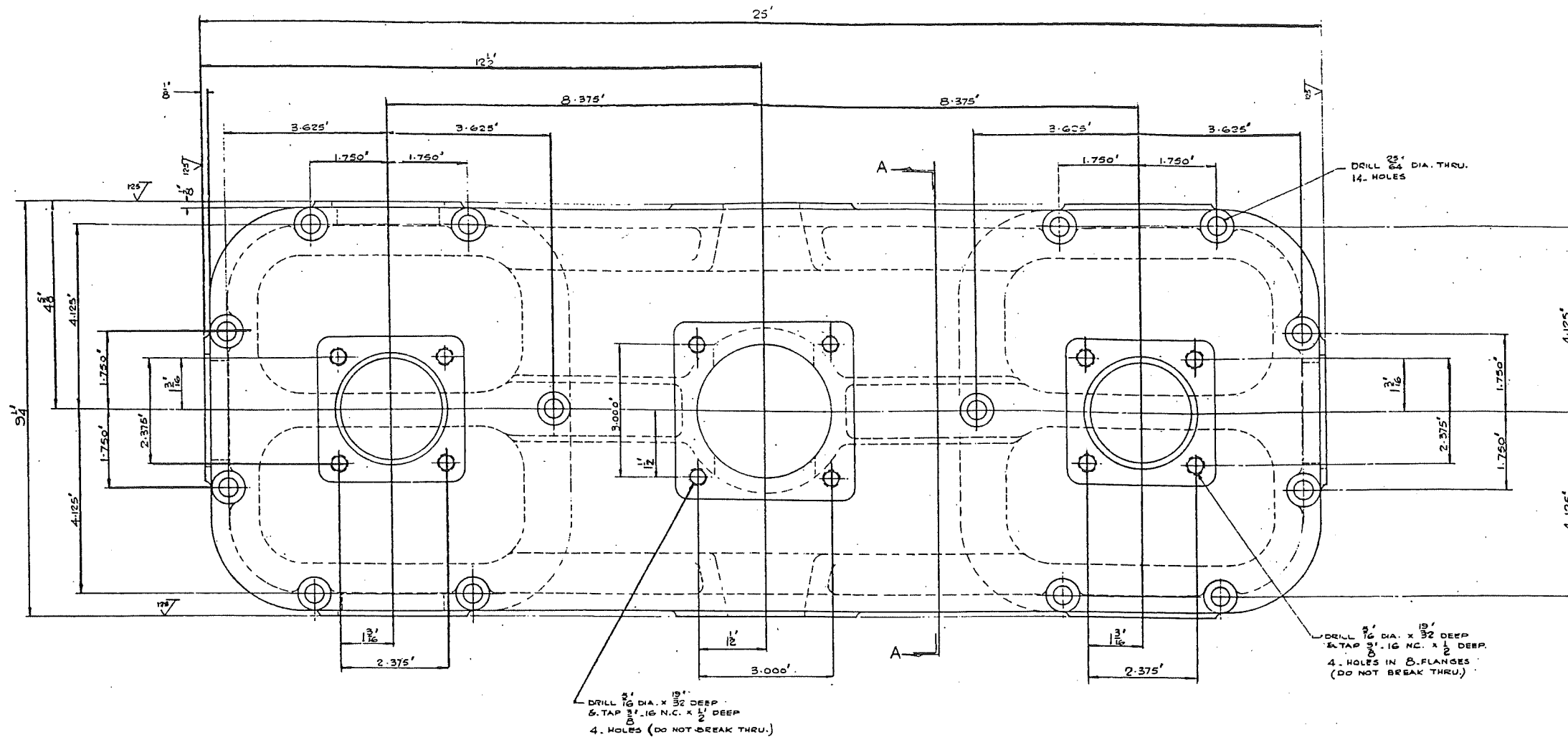
CRANKCASE



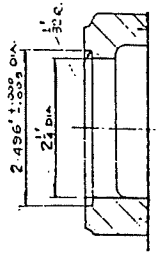
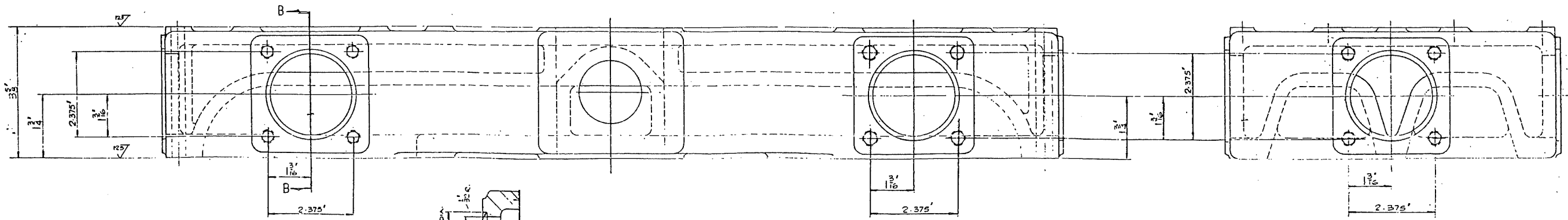
- NOTES:
1. FACE B & DIA C TO BE EXACTLY AT 90°
 2. FACES B & D TO BE PARALLEL WITHIN .0001" T.I.R.
 3. ALL MACHINED SURFACES $\frac{32}$
 4. REMOVE ALL BURRS & UNNECESSARY SHARP EDGES
 5. THIS DRAWING FOR MACHINING PURPOSES ONLY

MATERIAL MEHANITE

DRAWN		DESCRIPTION		BY		DATE	
CHECKED		BOURKE ENGINES INC.		MODEL NO.			
APPROVED		CYLINDER		DRAWING NO. E 5003		REV.	
SCALE FULL SIZE							



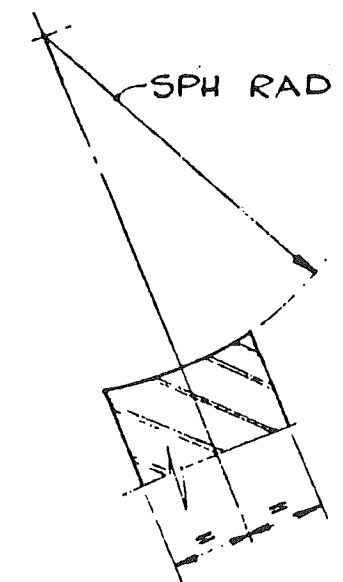
SECTION A-A



PART SECTION AA
MACHINE B-FLANGED TUB

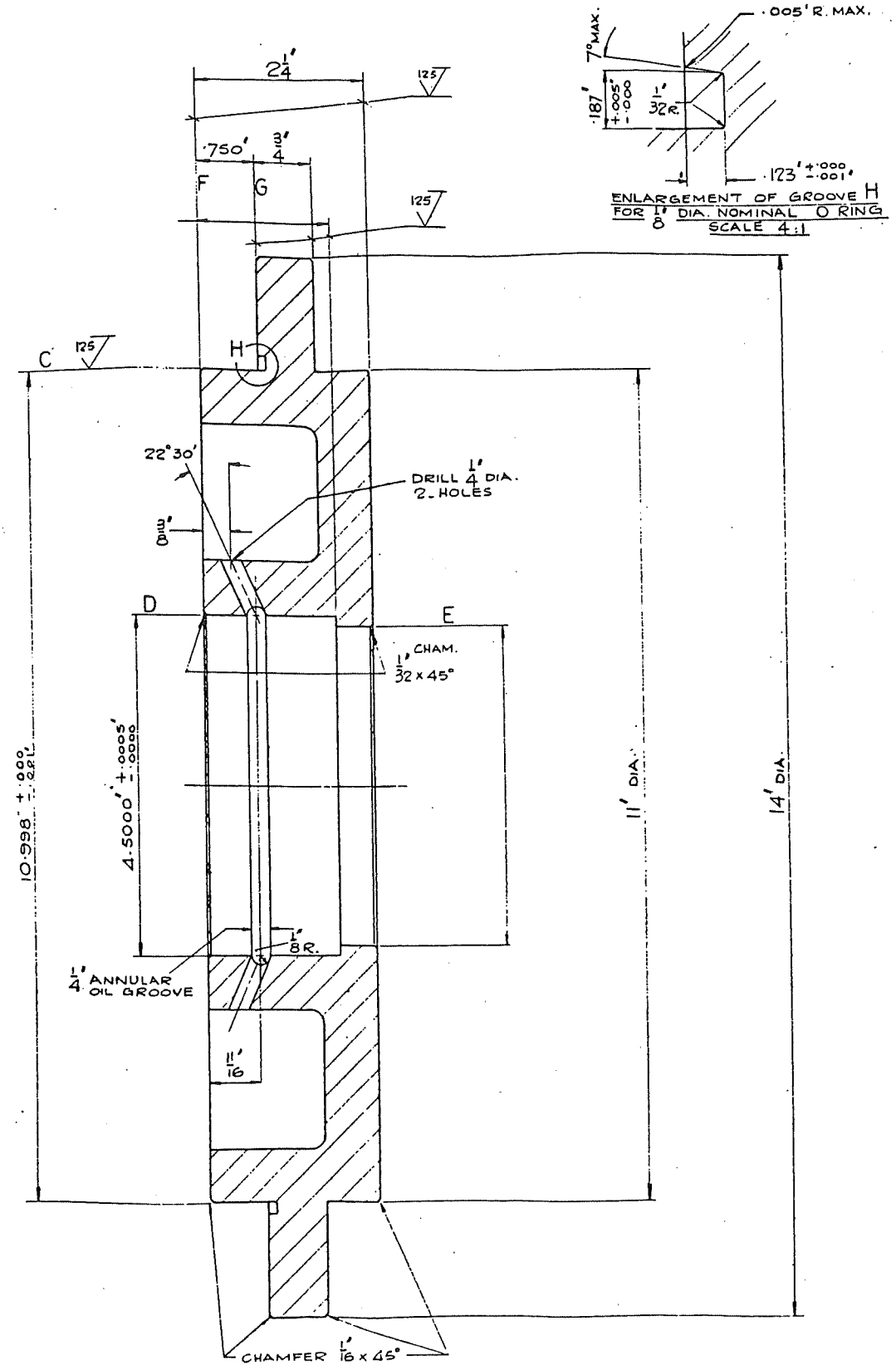
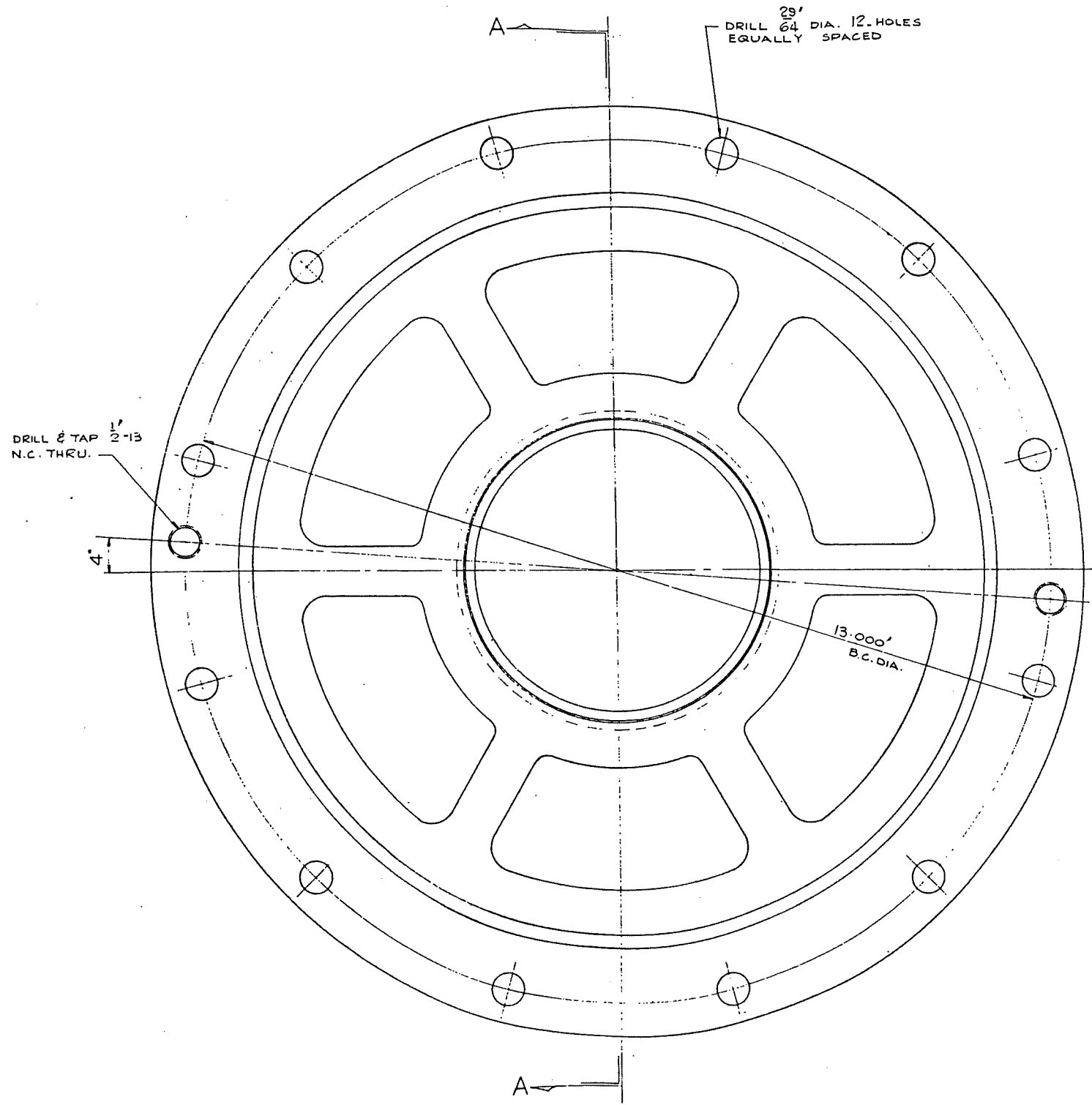
NOTES
 ALL MACHINED SURFACES $\sqrt{}$
 THIS DRAWING FOR MACHINING
 PURPOSES ONLY

REV.	BY	DATE	DESCRIPTION	15	DATE
			BOURKE ENGINES INC.		
			INTAKE MANIFOLD		
			SCALE FULL SIZE DRAWING NO. E 4008		



PART SECTION A-A

VISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
ASSEM.		MODEL NO.	
COUNTERWEIGHT CLAMP			
DRAWING No. B. 2007			REVN



SECTION A-A

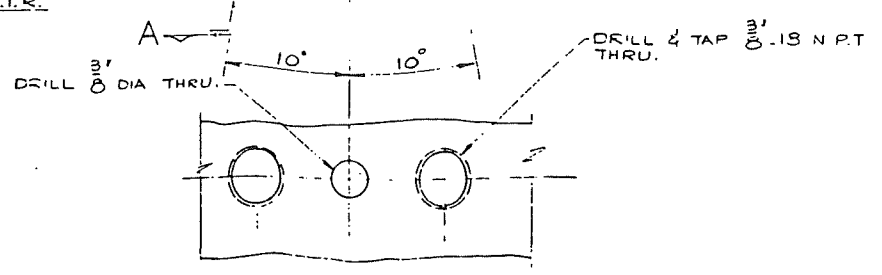
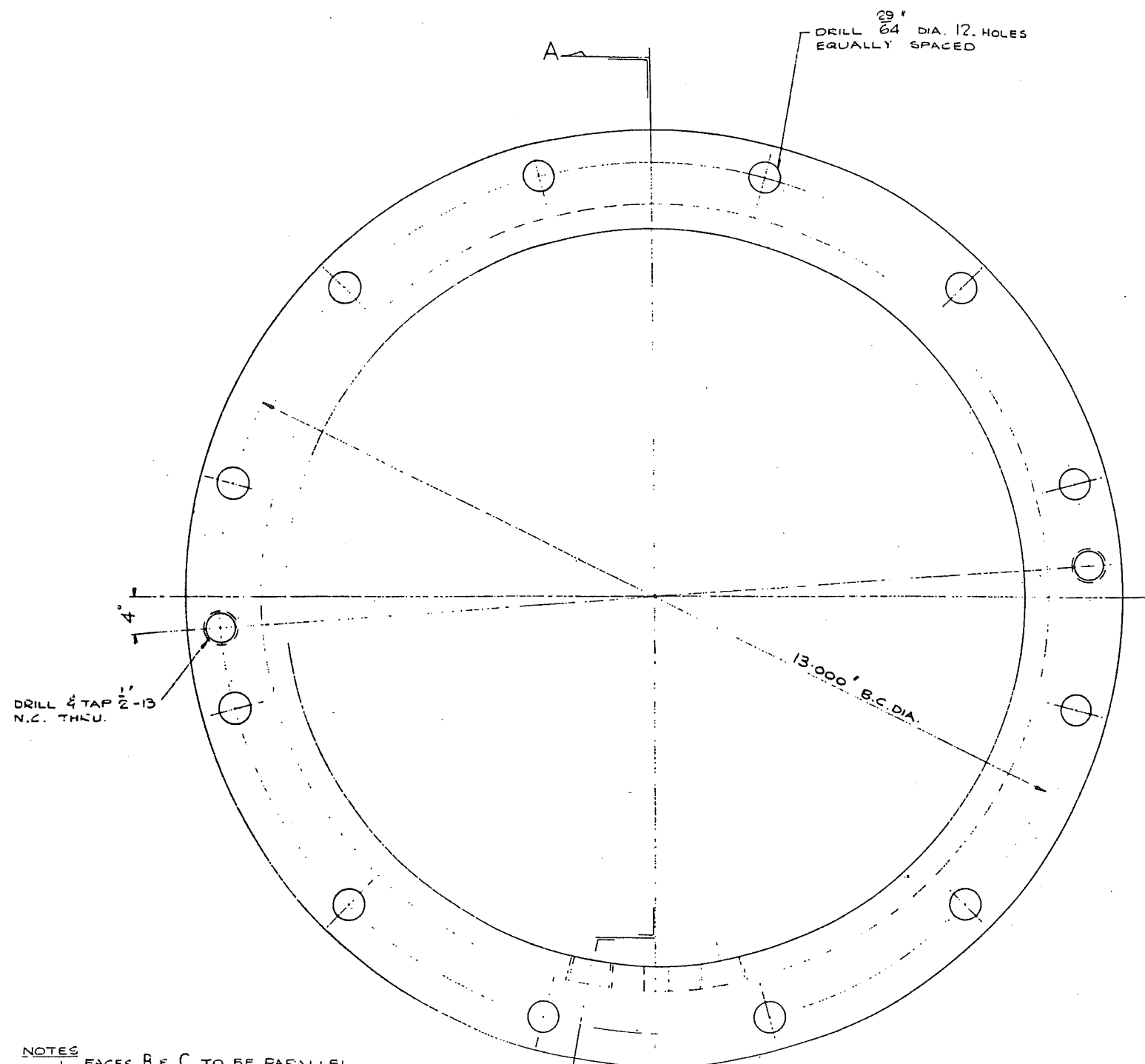
- NOTES:
- DIAMETERS C, D & E TO BE CONCENTRIC WITHIN .0002' T.I.R.
 - FACES F & G TO BE SQUARE TO DIAS C, D & E & PARALLEL WITHIN .0002' T.I.R.

MATERIAL MEEHANITE

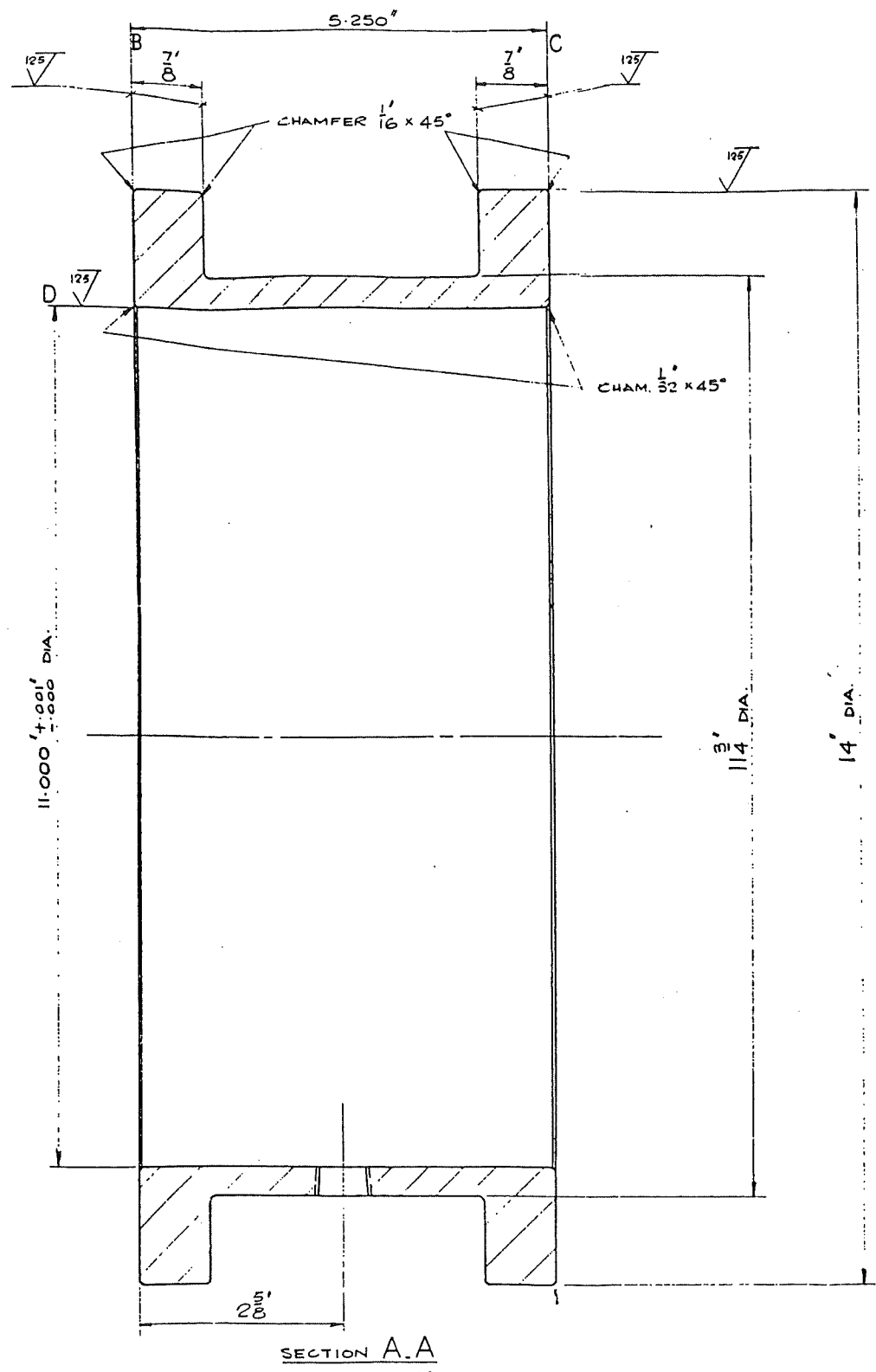
REVISION	DESCRIPTION	BY	DATE
	BOURKE ENGINES INC.		
	SUB ASSEMBLY		
	MODEL No.		
	END BELL		
	SCALE FULL SIZE		
	DRAWING No. 51500		

1

BY D. GEORGE 10-12-57
 CHECKED
 APPROVED

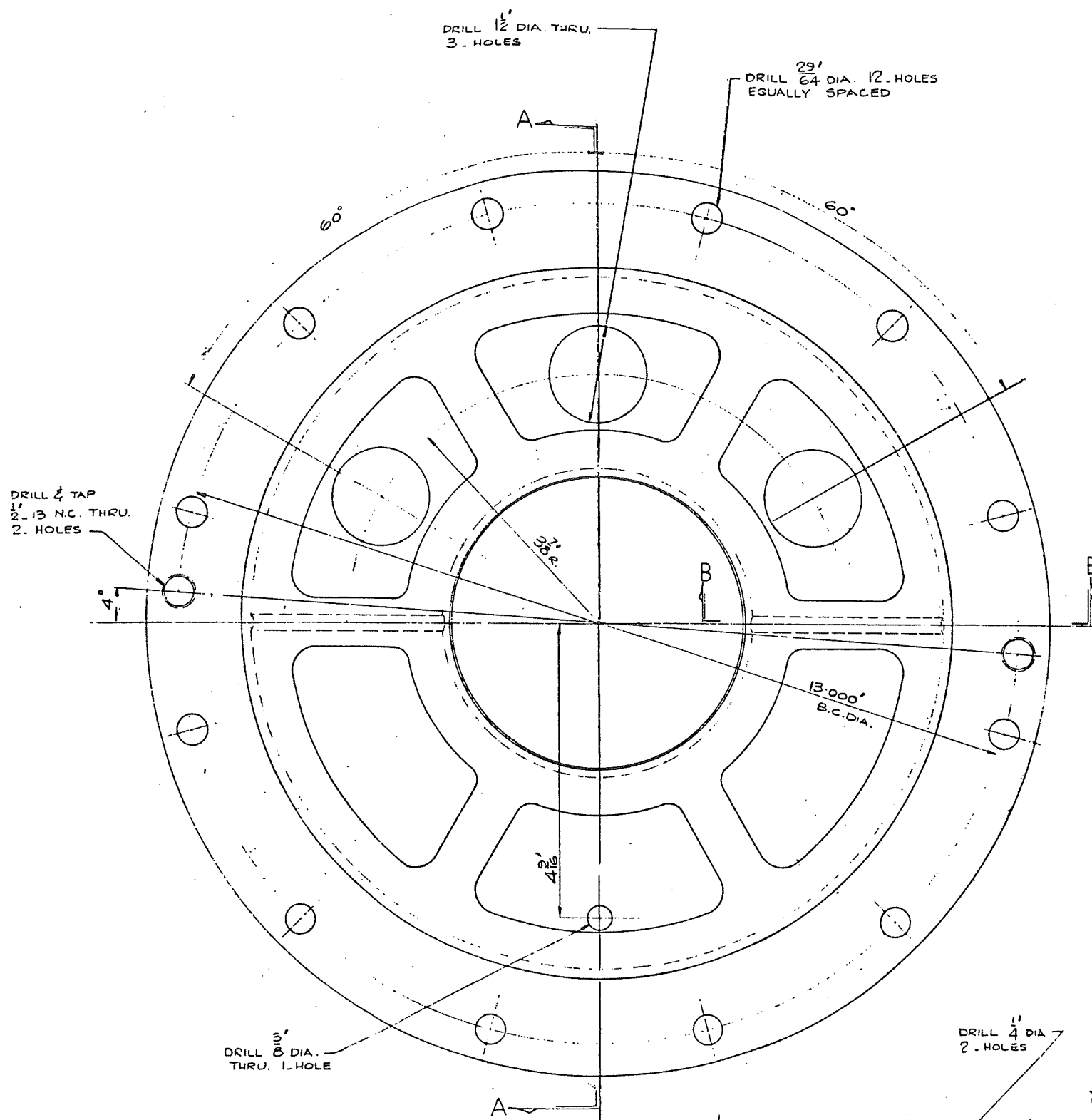


MATERIAL MEEHANITE

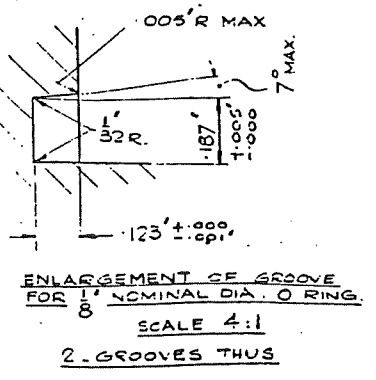
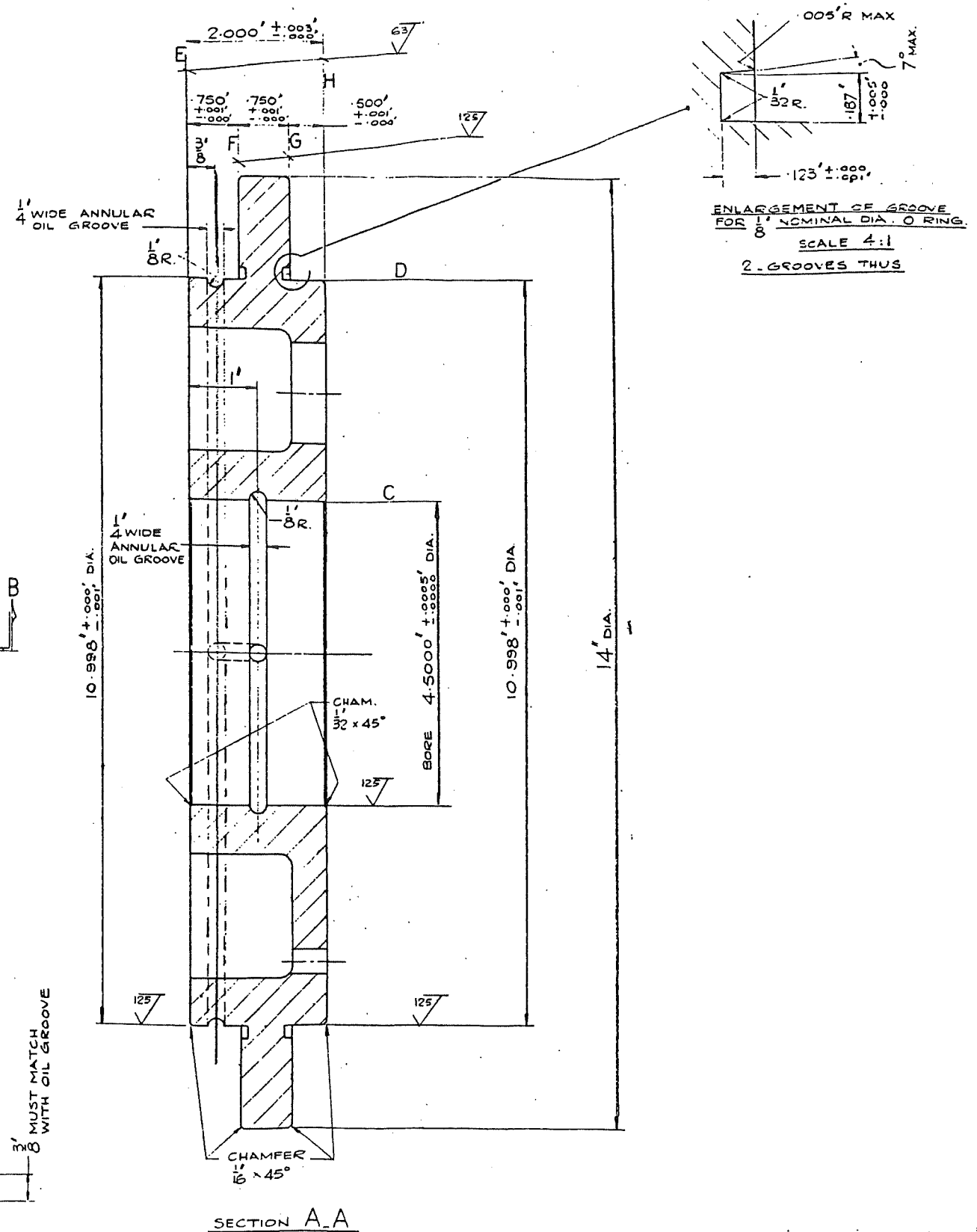


REVISION	DESCRIPTION	BY	DATE
2	POWER TAKE OFF SPOOL		
DRAWN D. GEORGE 10 14 57		DATE	
CHECKED		DATE	
APPROVD		DATE	
SCALE FULL SIZE		DRAWING No. D_4001	

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM.		MODEL NO.	
POWER TAKE OFF SPOOL			
SCALE FULL SIZE		DRAWING No. D_4001	
REV'N		DATE	

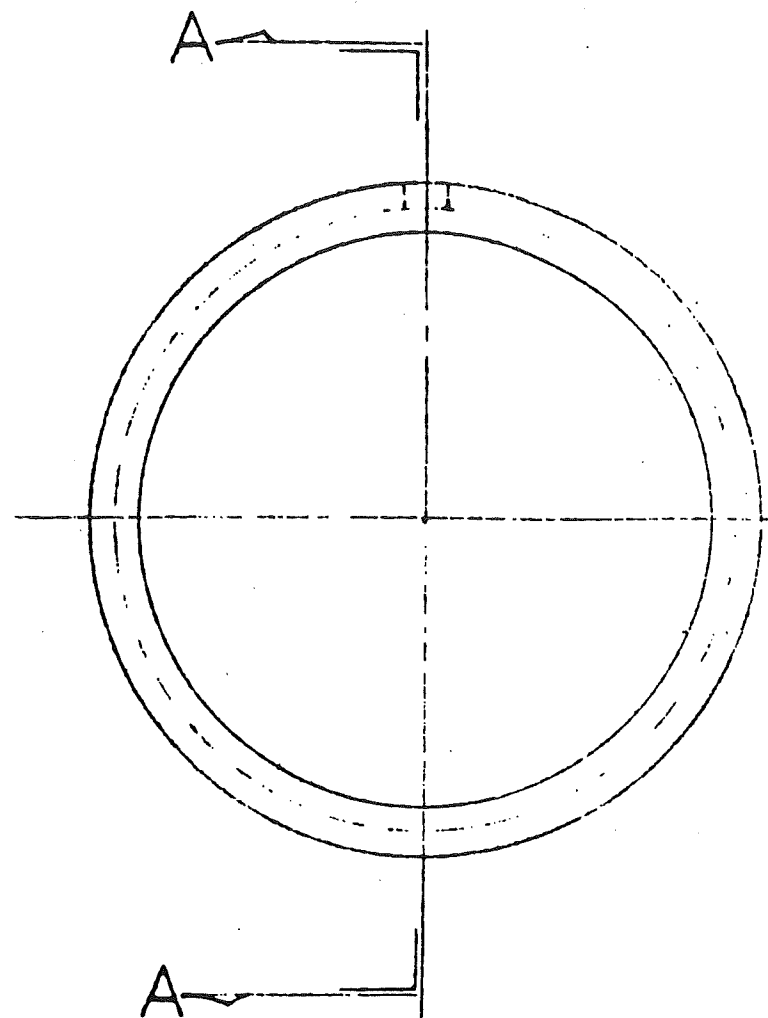


NOTES:
 1. DIAMETERS C & D TO BE CONCENTRIC WITHIN .0002" T.I.R.
 2. FACES E, F, G & H TO BE SQUARE TO DIAS. C & D & PARALLEL WITHIN .0002" T.I.R.

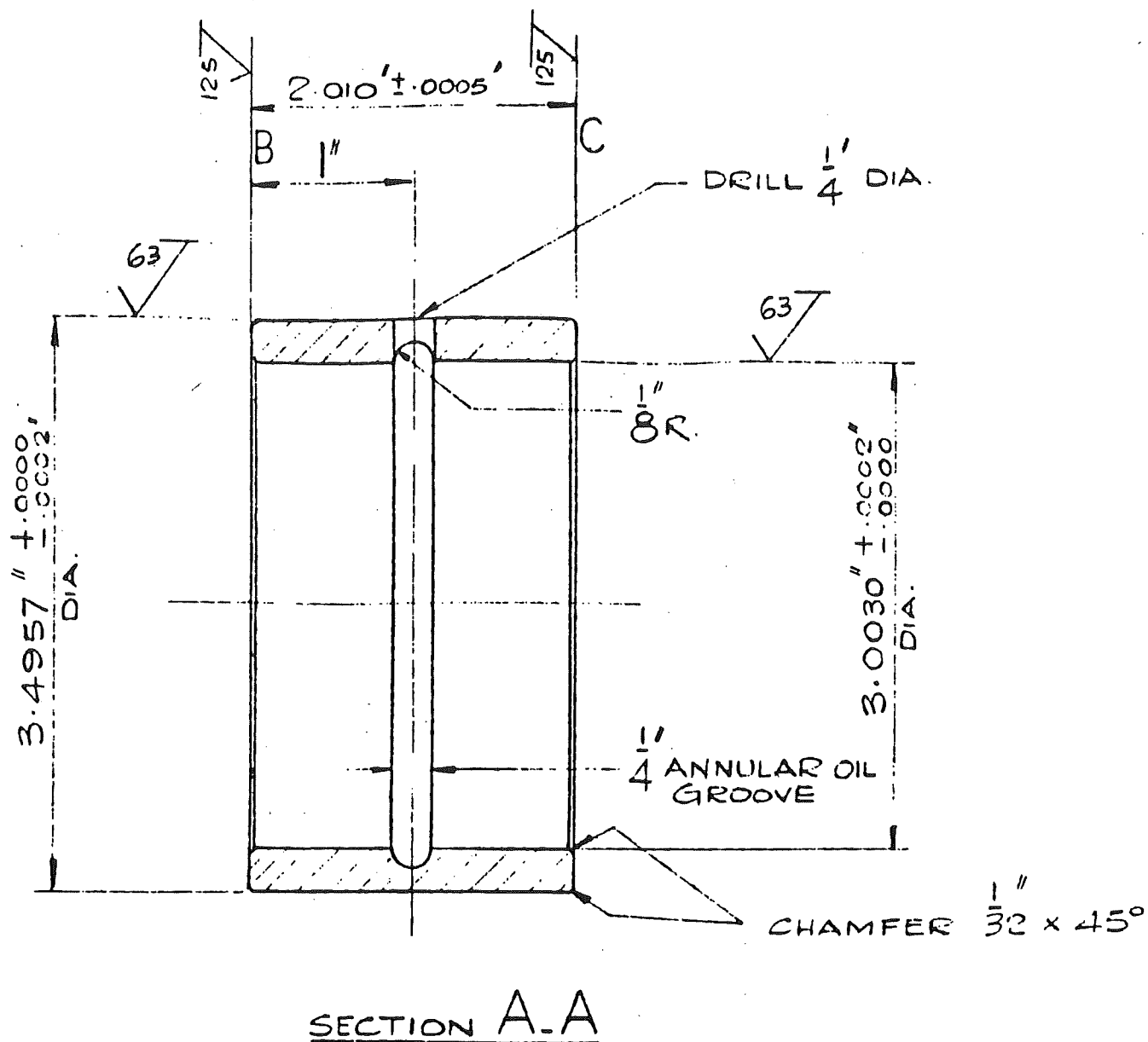


REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
	SUB. ASSEM.		MODEL No.
	MAIN BEARING BELL		
SCALE	FULL SIZE	DRAWING No.	D_4002
		REV.	

5



MATERIAL



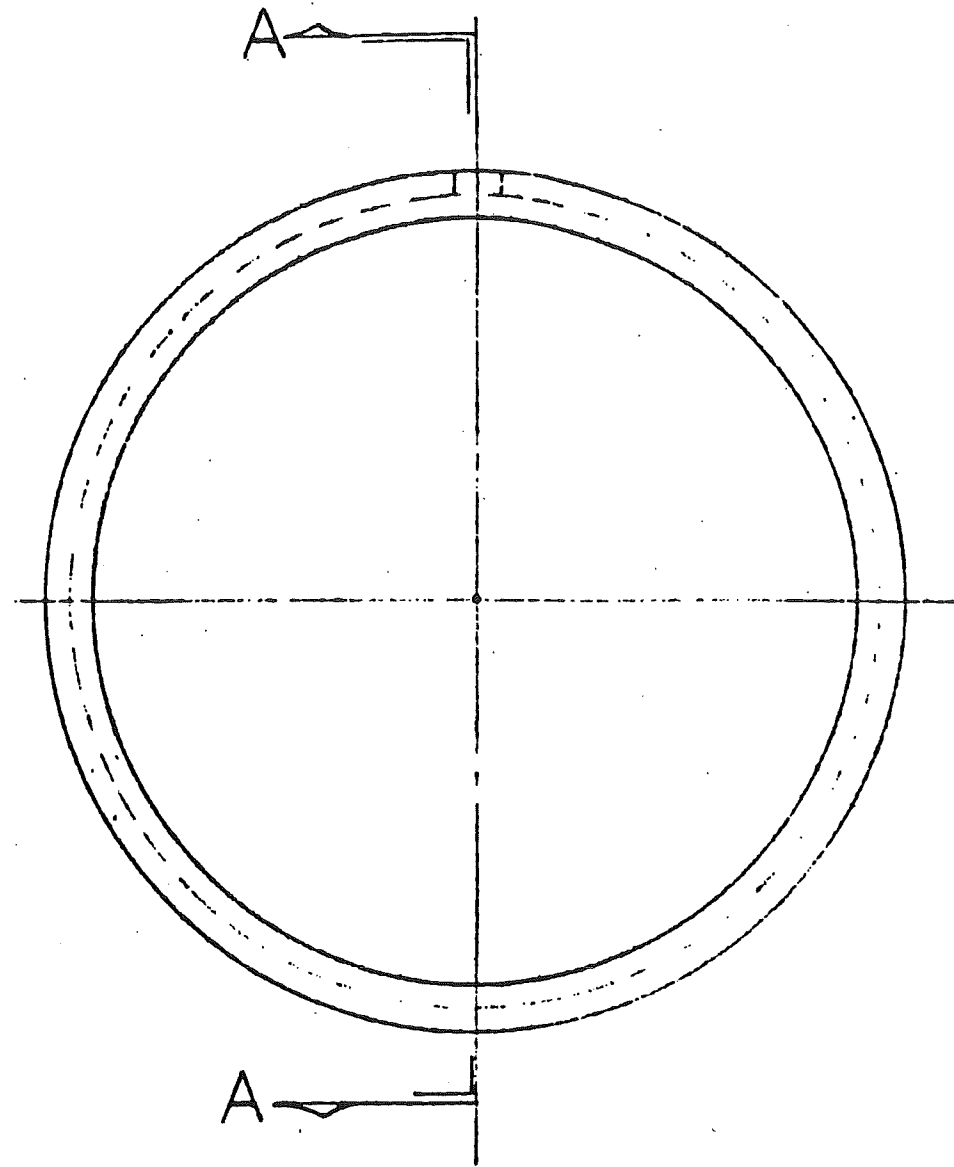
NOTES

1. DIAMETERS TO BE CONCENTRIC WITHIN $.0001''$ T.I.R.
2. FACES B & C TO BE SQUARE WITH DIAS. & PARALLEL WITHIN $.0002''$ T.I.R.

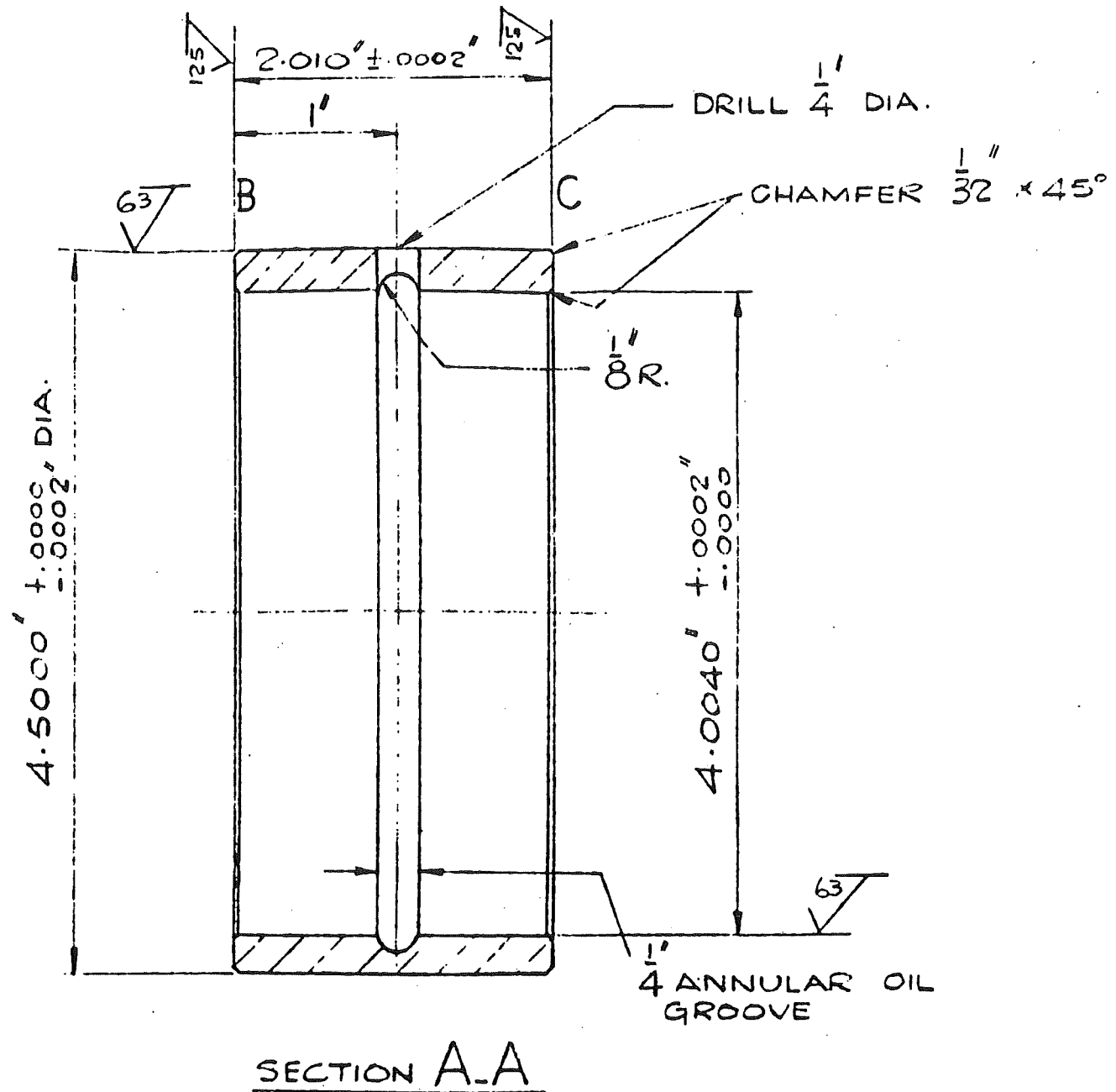
16

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM.		MODEL No.	
MAIN BEARING - INNER RING			
DRAWING No. B-2003			REV'N

	BY	DATE
DRAWN	D. GEORGE	9-18-57
CHECKED		
APPRVD.		
SCALE FULL SIZE		



MATERIAL



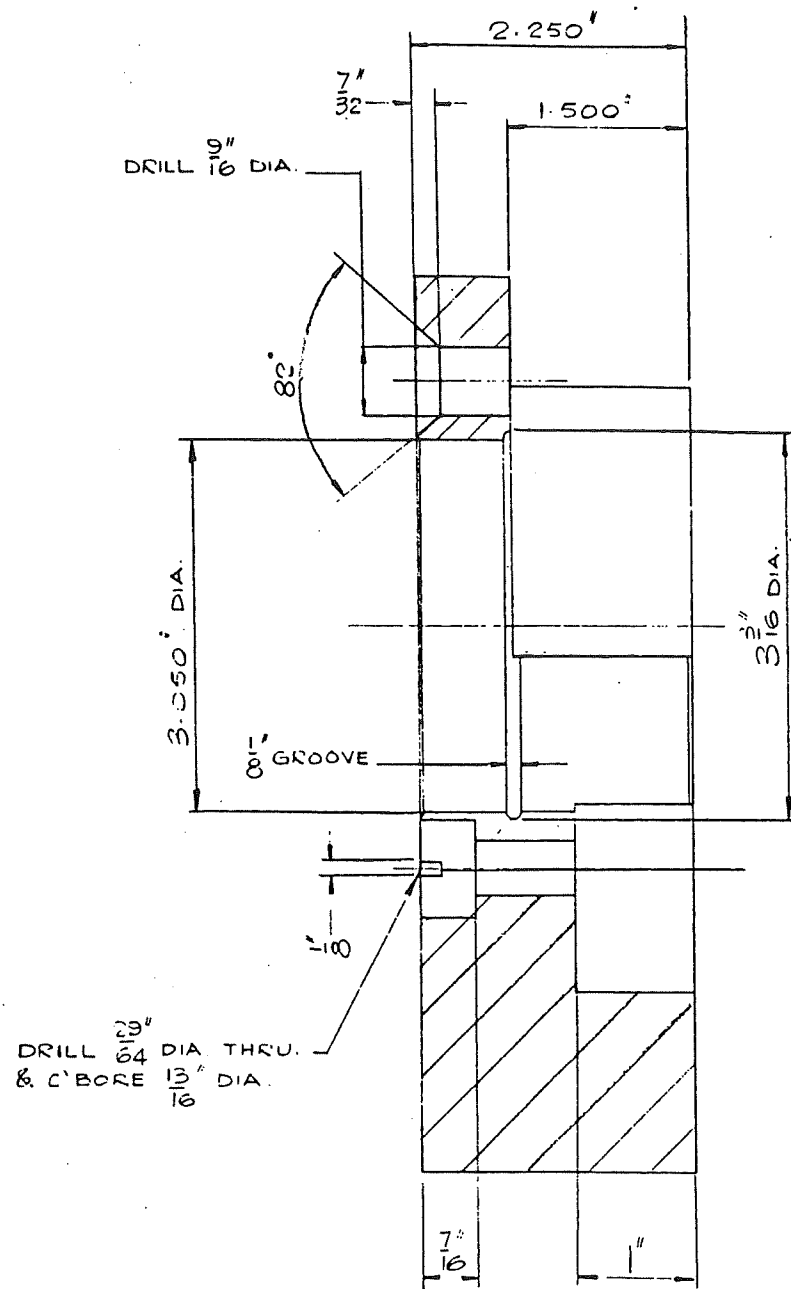
SECTION A-A

NOTES:

- 1. DIAMETERS TO BE CONCENTRIC WITHIN $.0001$ " T.I.R.
- FACES B & C TO BE SQUARE WITH DIAS. & PARALLEL WITHIN $.0002$ " T.I.R.

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
	SUB ASSEM.		MODEL No.
	MAIN BEARING - OUTER RING		
SCALE FULL SIZE		DRAWING No. B.2004	
			REV'N.

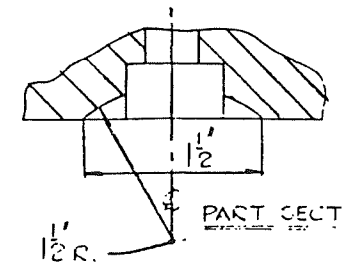
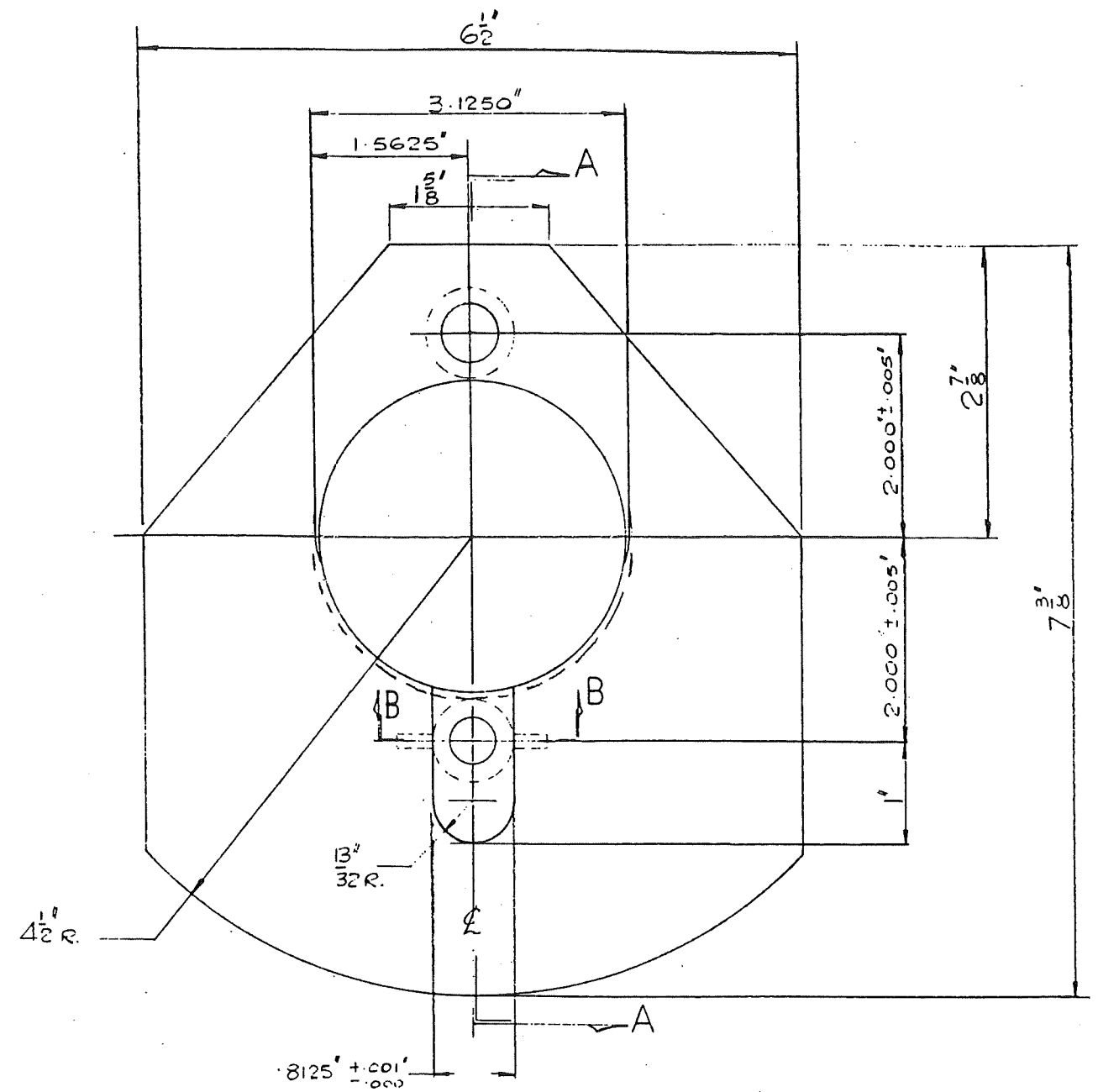
17



DRILL $\frac{9}{16}$ " DIA.
 DRILL $\frac{5}{16}$ " DIA. THRU.
 & C-BORE $\frac{13}{16}$ " DIA.

SECTION A-A

NOTES
 1. ALL MACHINED SURFACES $\sqrt{125}$



PART SECTION B-B

MATERIAL

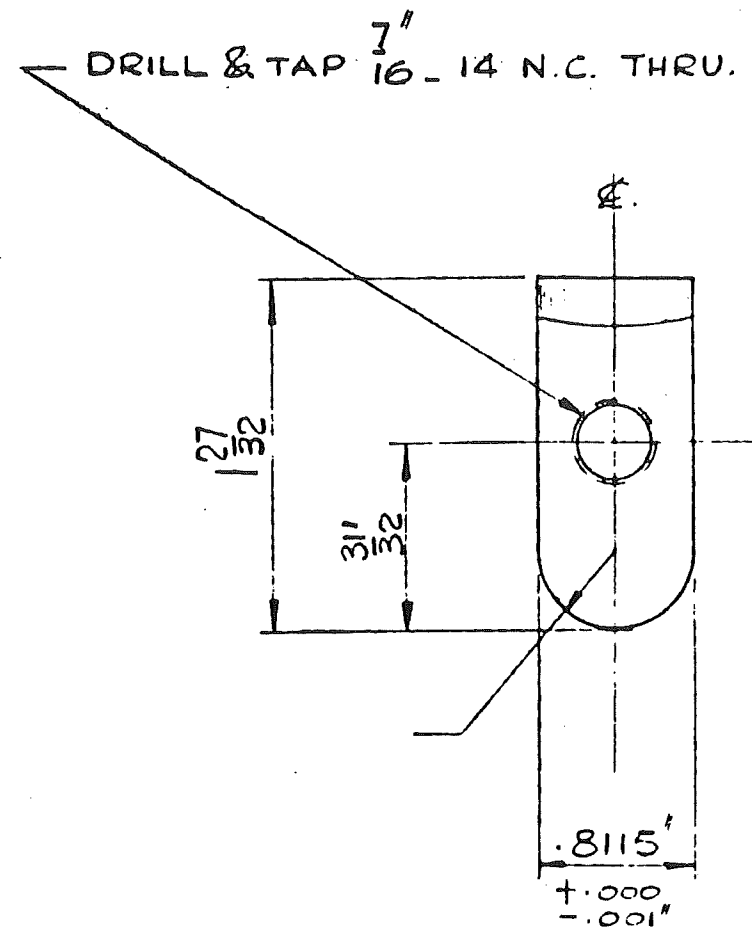
(21)

REVISION	DESCRIPTION	BY	DATE
	BOURKE ENGINES INC.		
	SUB ASSEMB.		MODEL NO
	COUNTERWEIGHT		
	DRAWING NO C_3001		REV.

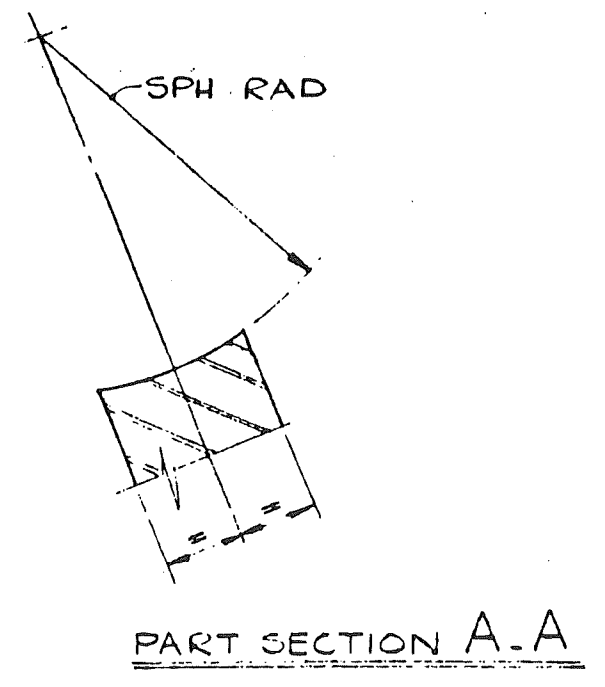
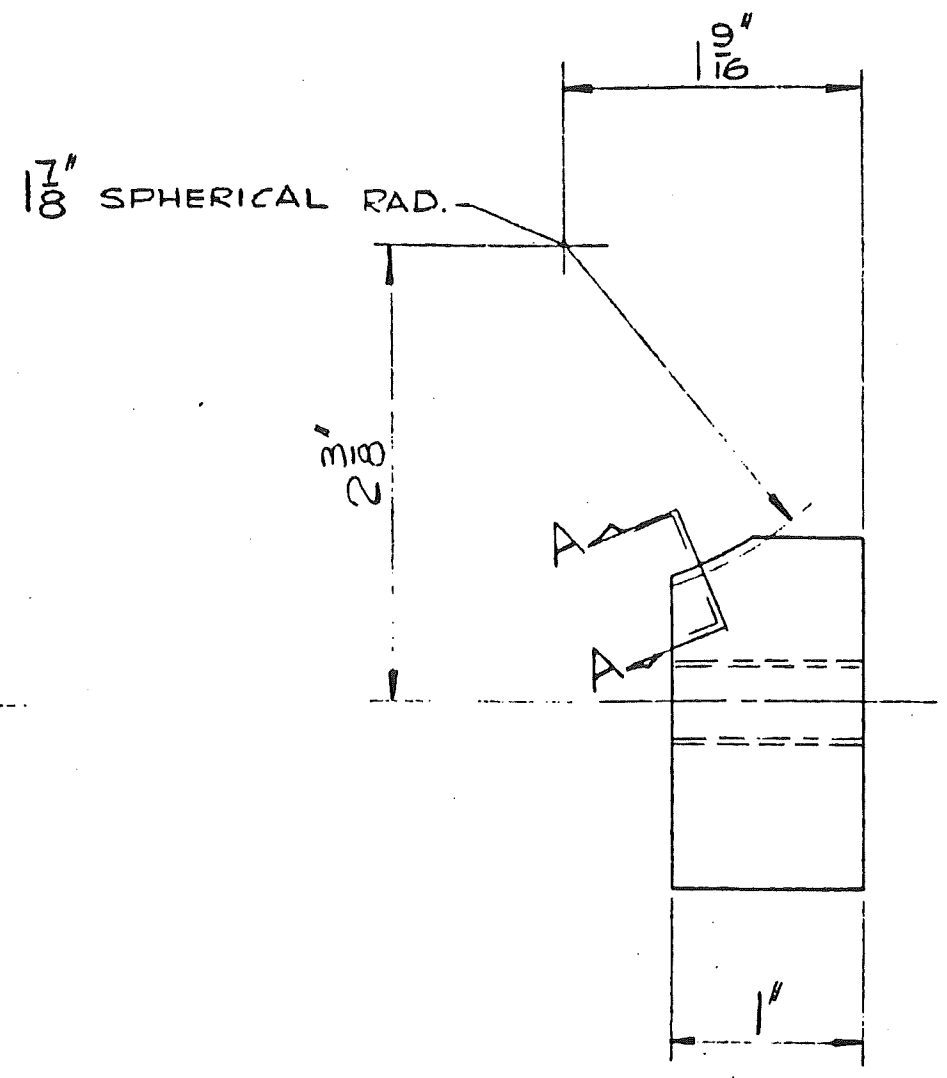
DRAWN	BY	DATE
CHECKED		
APPROV.		

DRAWN D. GEORGE 12-26-57

SCALE FULL SIZE



MATERIAL

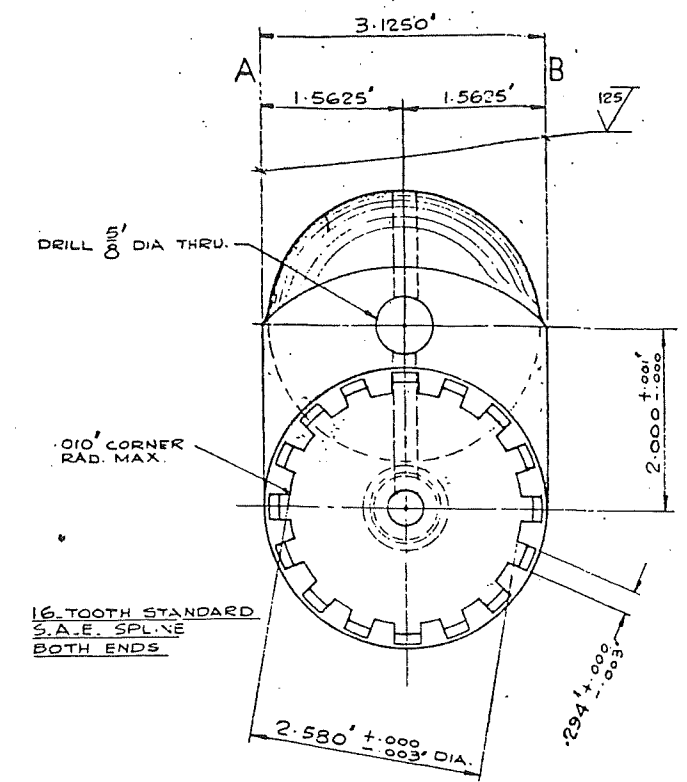
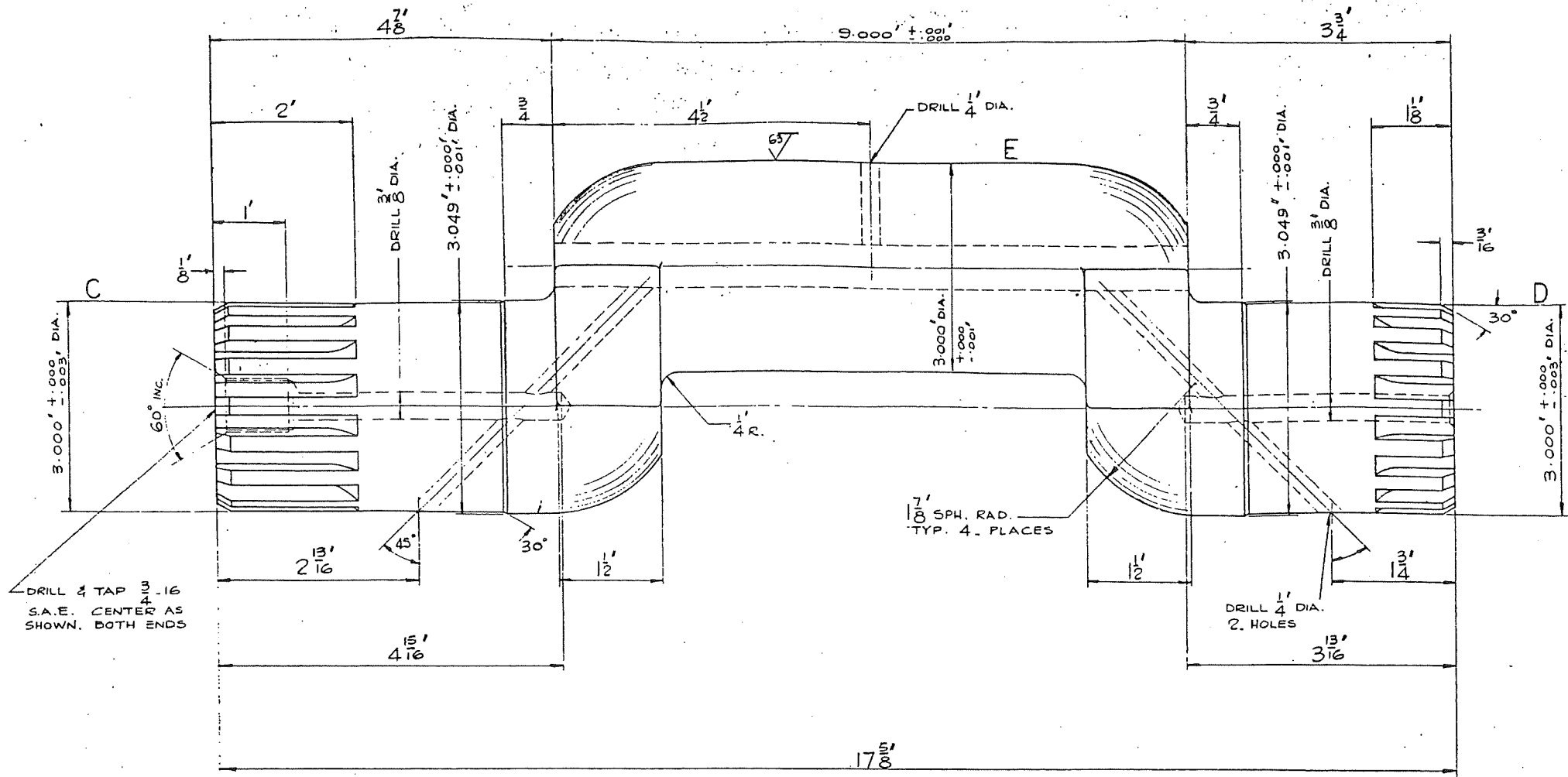


24

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
	SUB ASSEM.		MODEL NO.
	COUNTERWEIGHT CLAMP		
	DRAWING No. B_2007		REVW

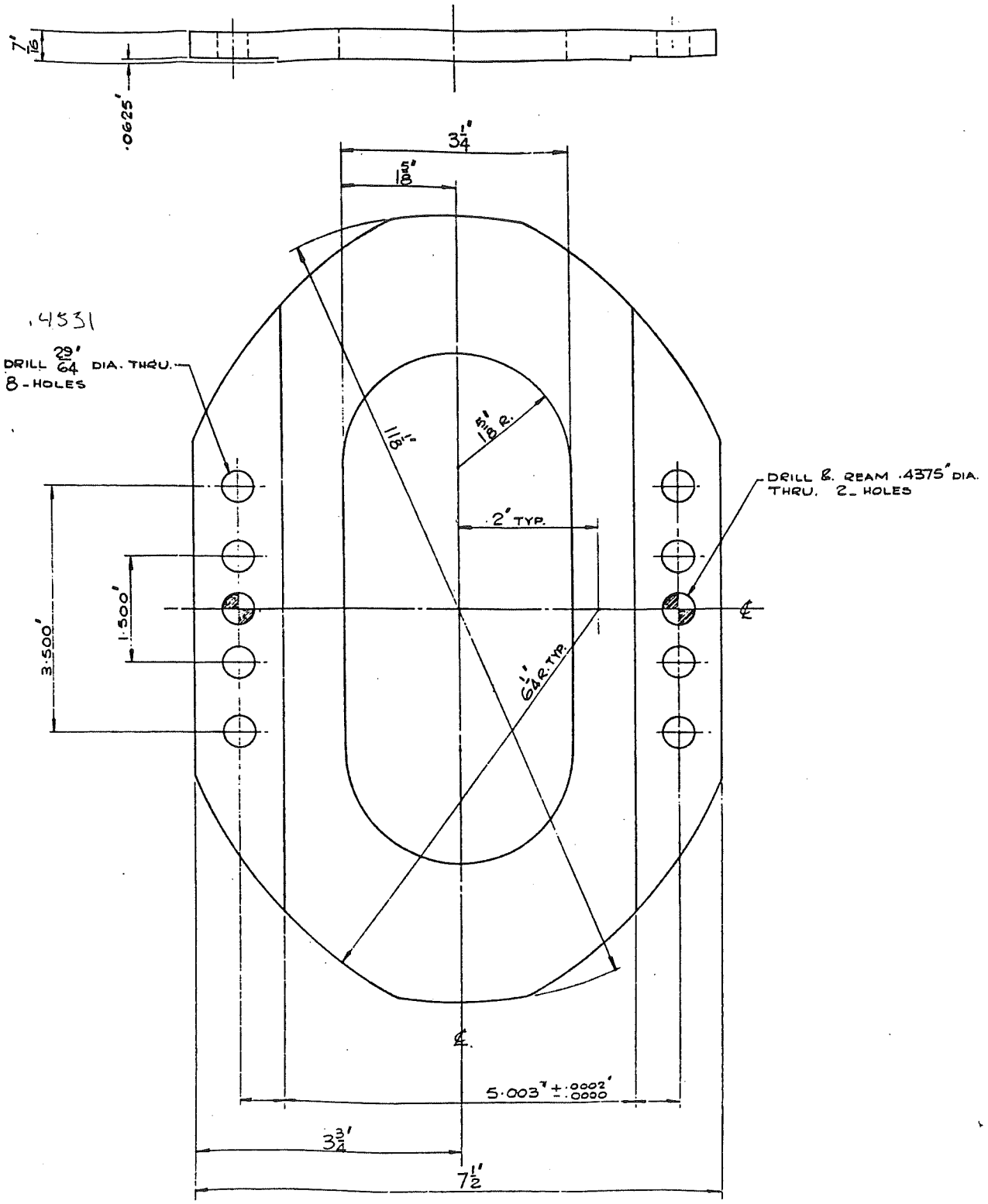
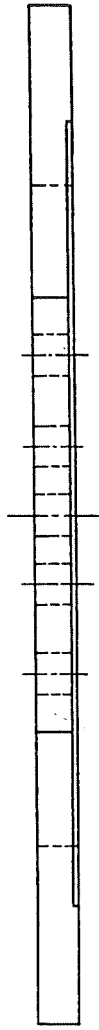
	BY	DATE
DRAWN	D. GEORGE	12 30 57
CHECKED		
APPRVD		

SCALE FULL SIZE



REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEMBLY		PART NO.	
CRANKSHAFT			
SCALE FULL SIZE	DRAWING NO. D-4005		PLATE NO.

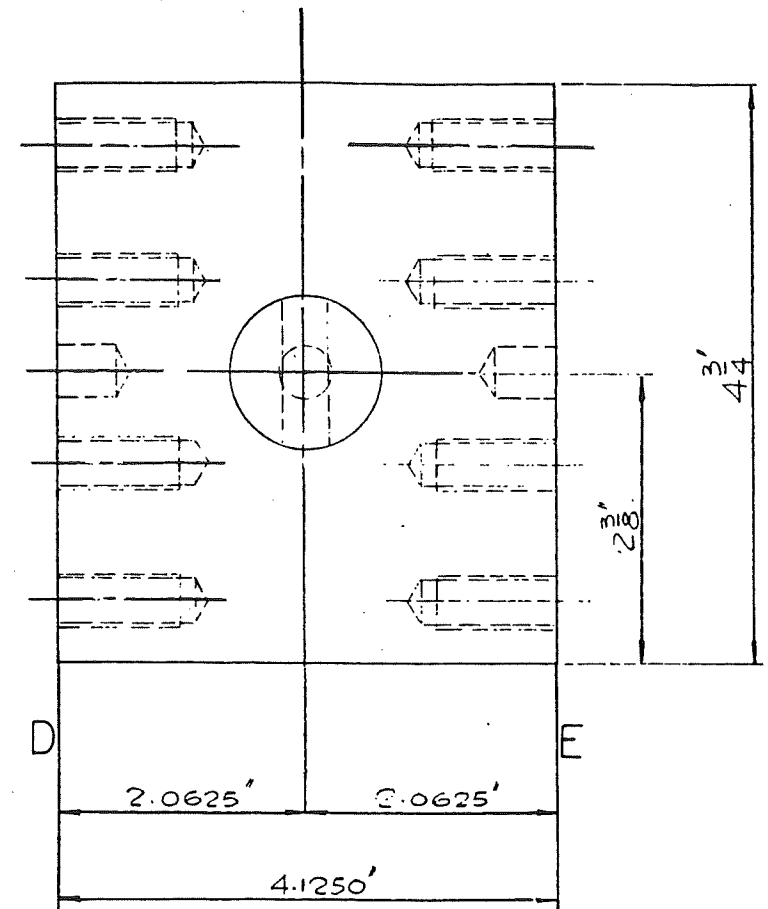
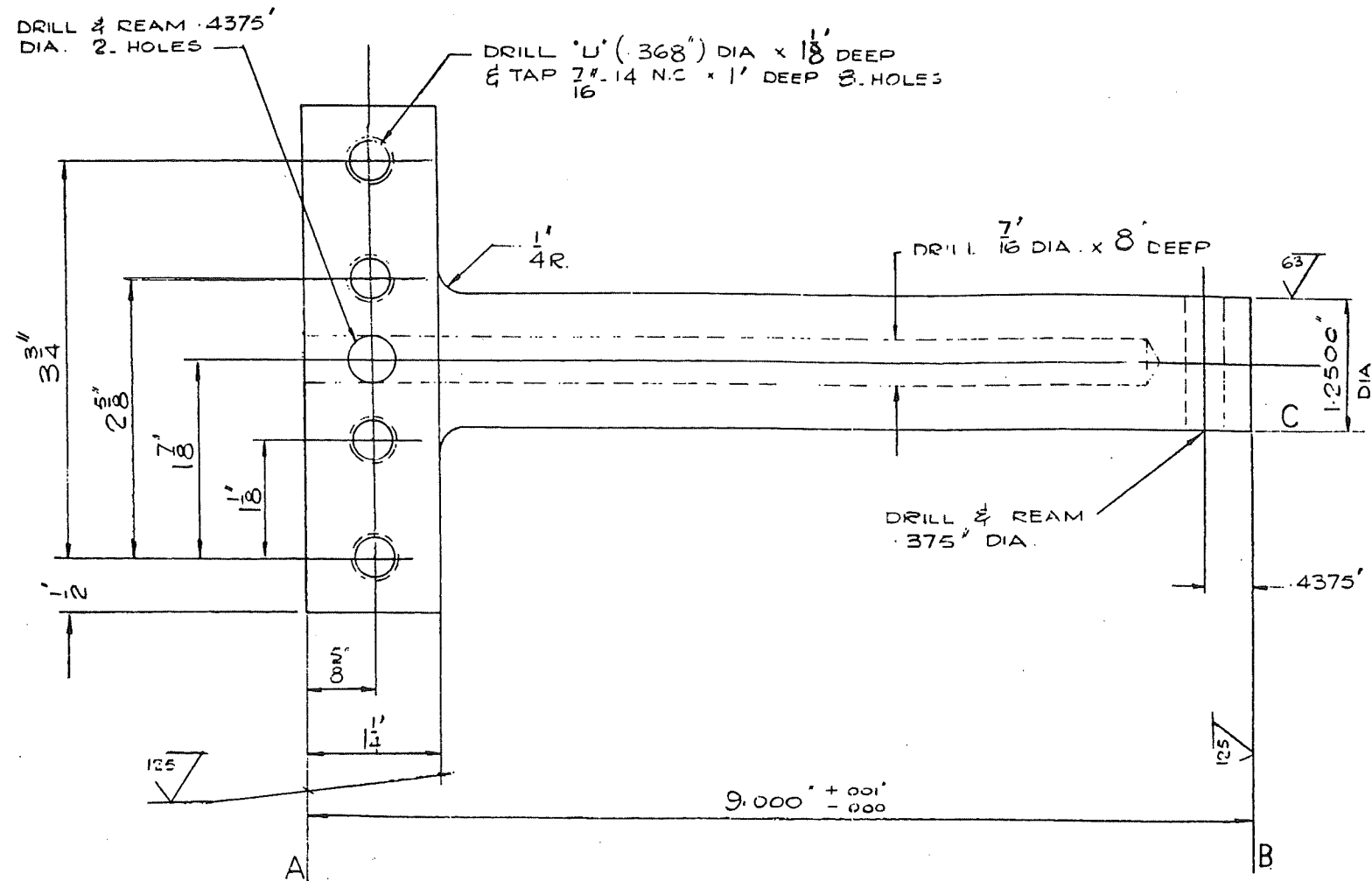
(29)



MATERIAL

REVISION		DESCRIPTION		BY	DATE	
BOURKE ENGINES INC. SUB. ASSY. MODEL NO.						
BY	DATE	YOKE DRAWING No. D-4006				
DRAWN	D. GEORGE					11.58
CHECKED						
APPRVD.						
SCALE FULL SIZE		DRAWING No. D-4006				

30



MATERIAL

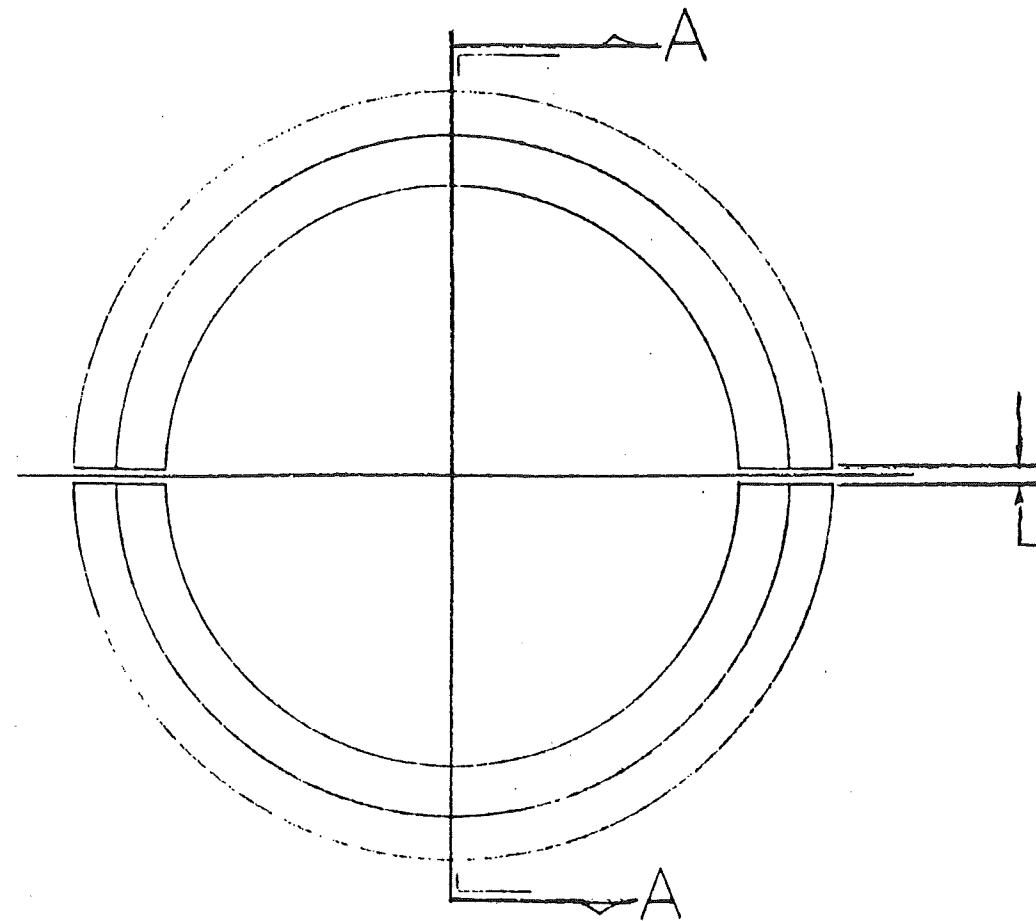
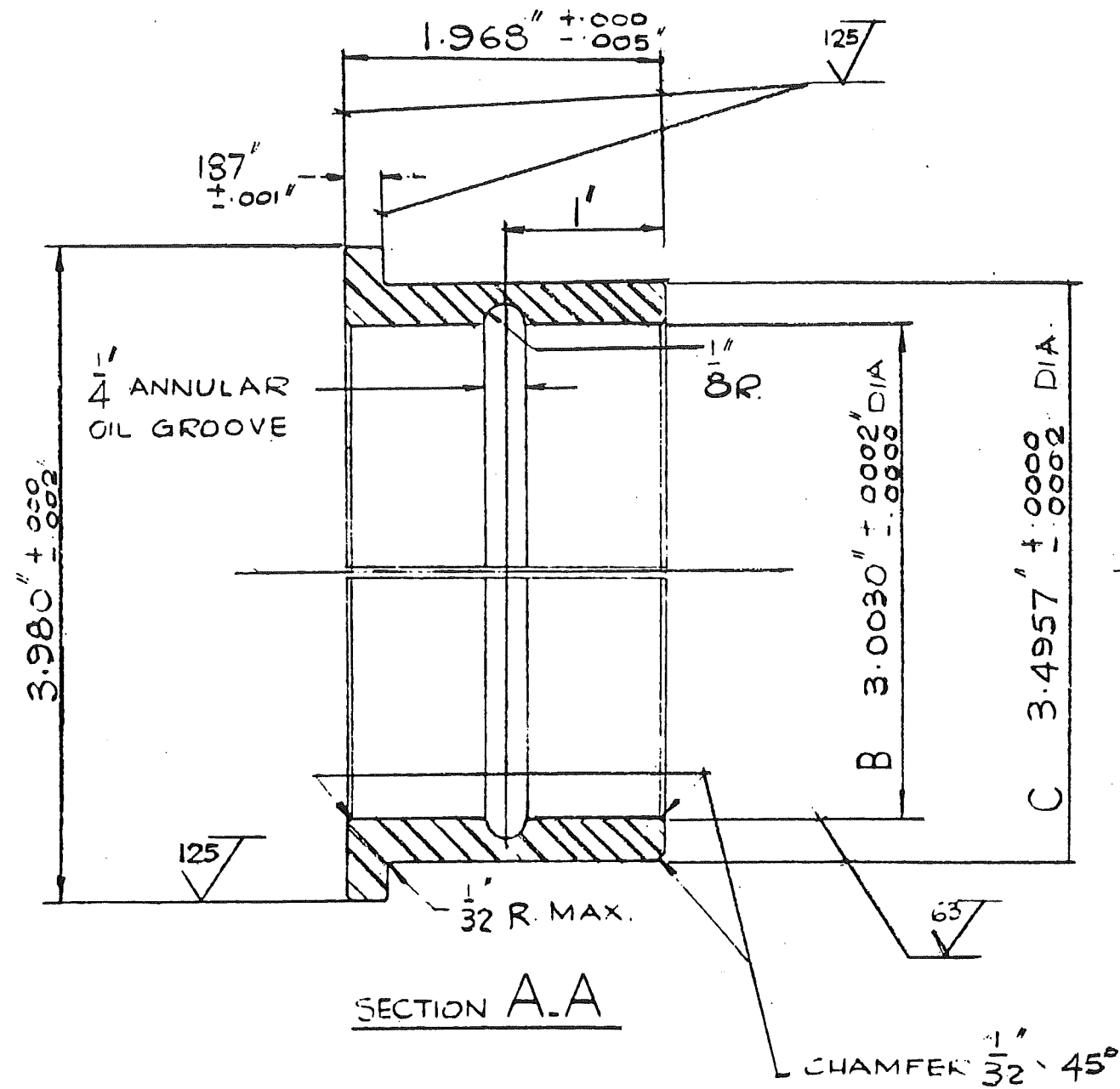
NOTES:

1. FACES A & B TO BE SQUARE WITHIN ± .0001" T.I.R.
2. FACE A & DIA. C TO BE EXACTLY AT 90°
3. BREAK ALL SHARP CORNERS
4. FACES D & E TO BE EXACTLY PARALLEL TO DIA C

31

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM.		MODEL No	
PISTON ROD			
DRAWING No. C_3002		REV. No.	

BY	DATE
D. GEORGE	9 22 57
CHECKED	
APPROVD.	

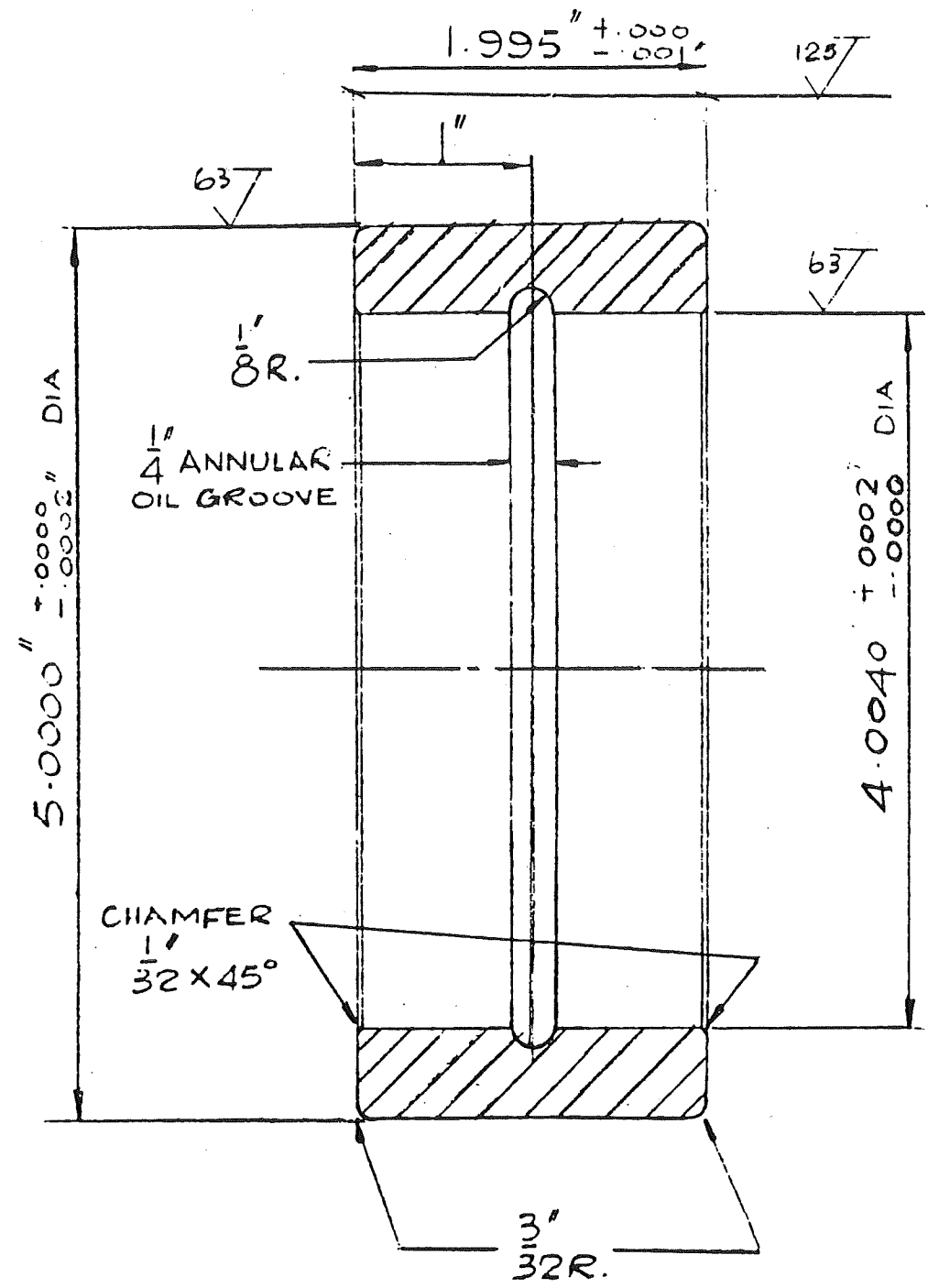


MATERIAL

NOTES:
 1. DIAMETERS B & C TO BE CONCENTRIC
 WITHIN .0001" T.I.R.

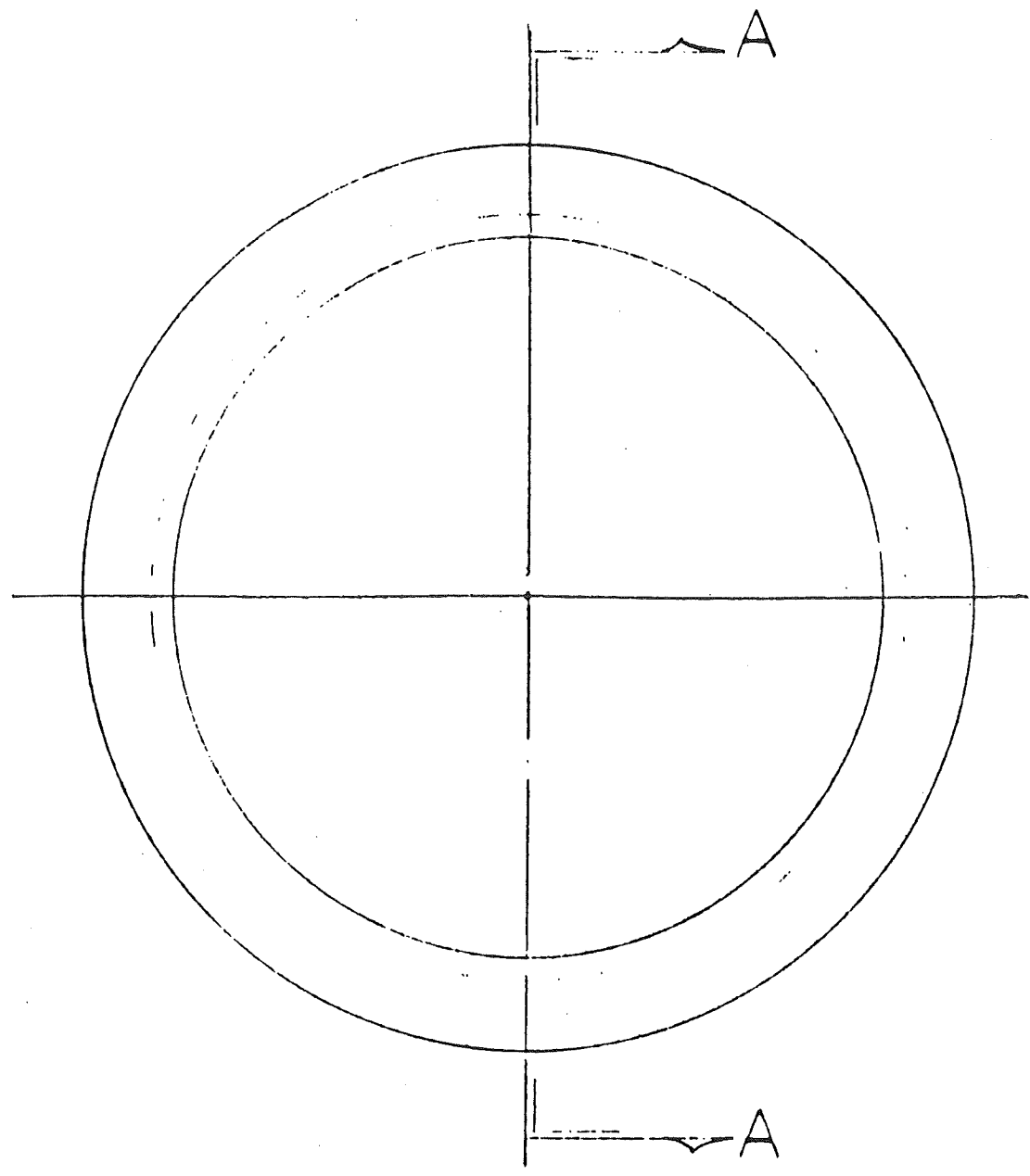
REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM.			MODEL NO.
DRAWN	D GEORGE	9-24-57	CRANKPIN BEARING - INNER RING
CHECKED			
APPR'VD.			
SCALE FULL SIZE			DRAWING No B_2008
			REV'N

32



SECTION A-A

NOTES:
 1. DIAMETERS TO BE CONCENTRIC
 WITHIN .0001" T.I.R.

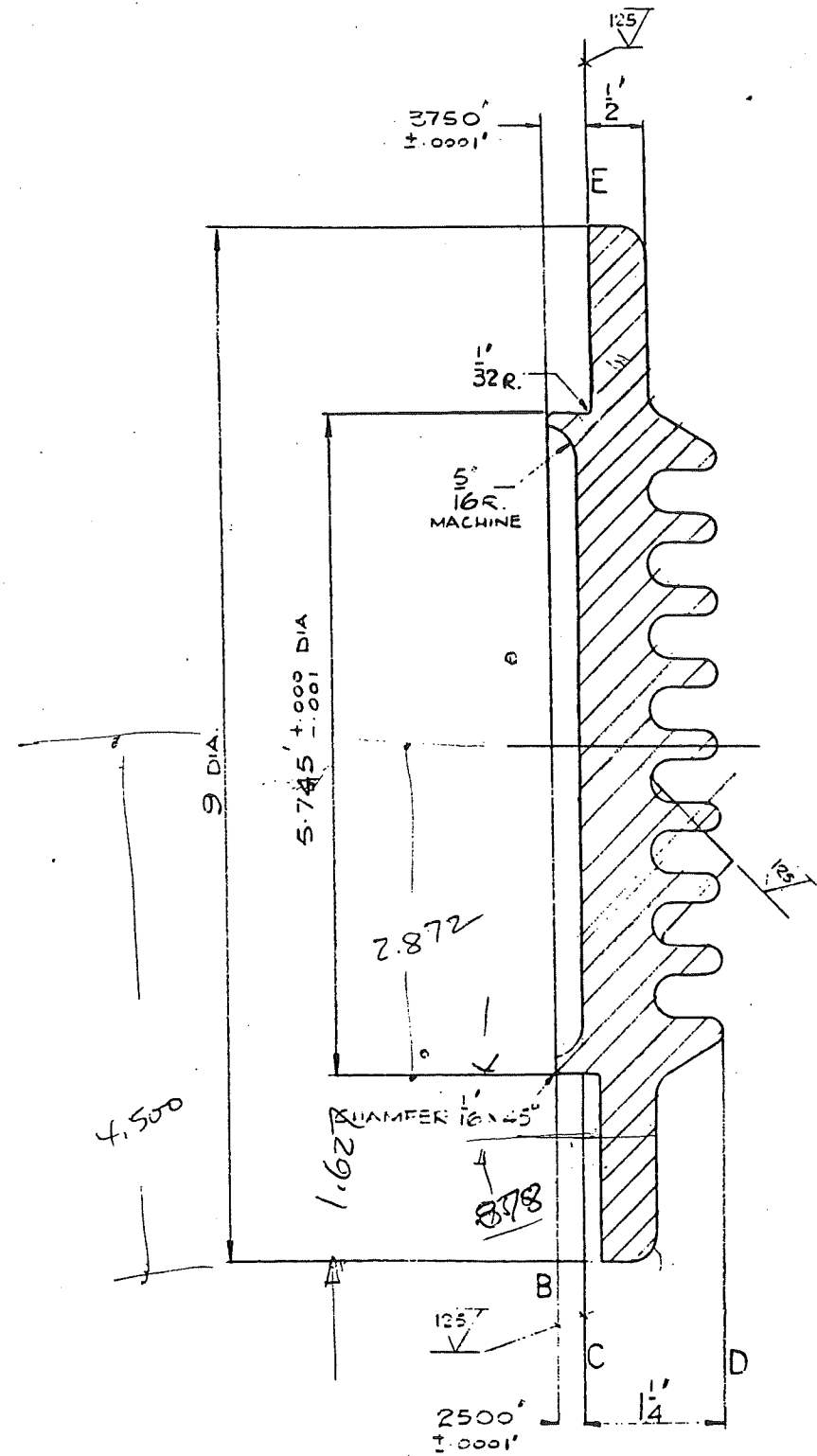


MATERIAL

34

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM		MODEL No	
CRANKPIN BEARING - OUTER RING			
DRAWING No B_2010		REVN.	

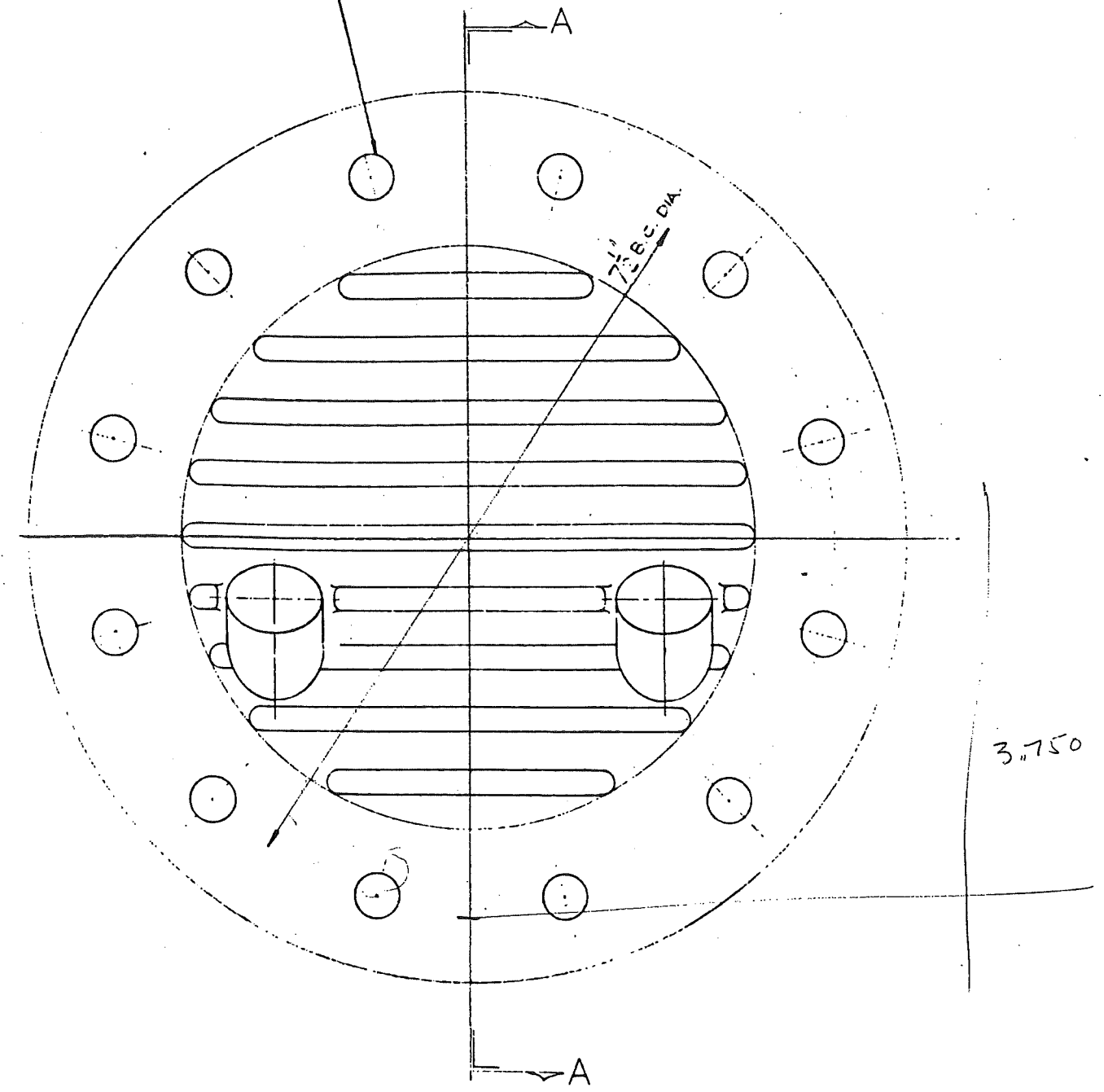
	BY	DATE
DRAWN	D GEORGE	9-24-57
CHECKED		
APPRVD.		
SCALE FULL SIZE		



SECTION A-A

NOTES:
 1. FACES B, C, D & E TO BE
 PARALLEL WITHIN .001 T.I.R.

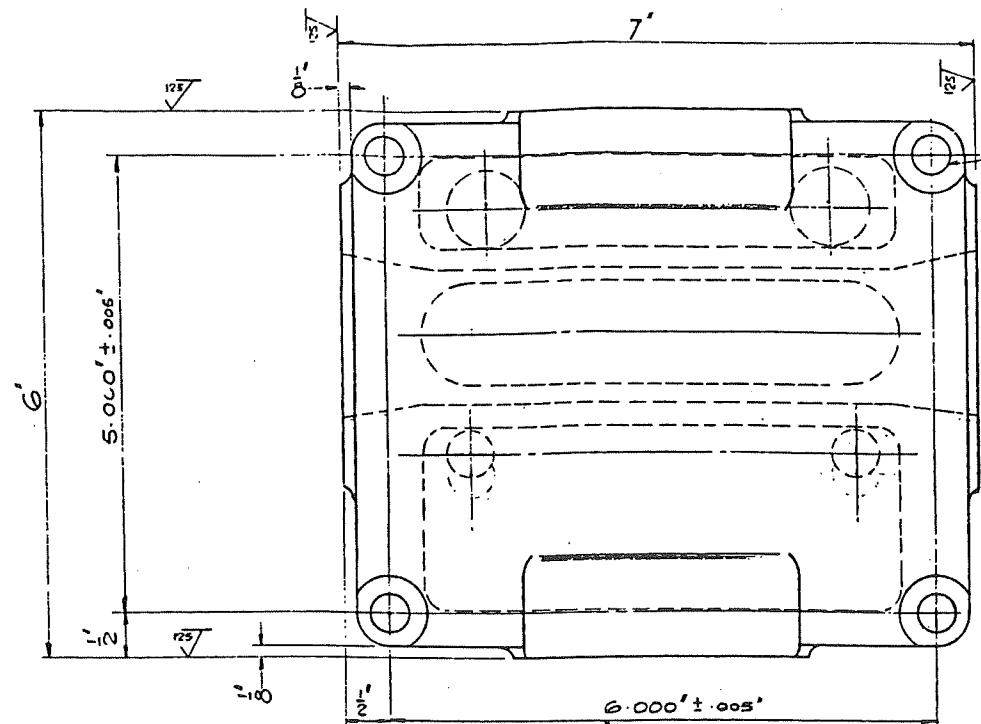
DRILL $\frac{29}{64}$ " DIA. 12 HOLES
 EQUALLY SPACED



MATERIAL MEEHANITE

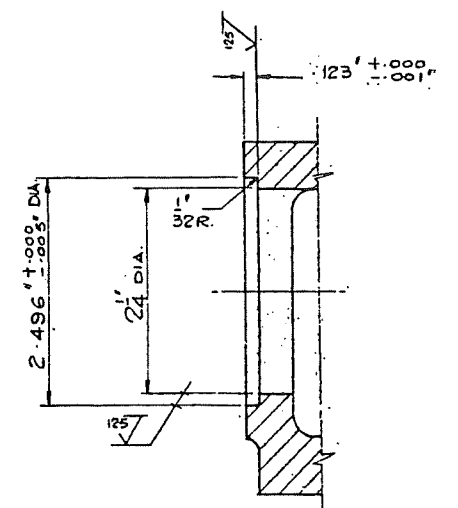
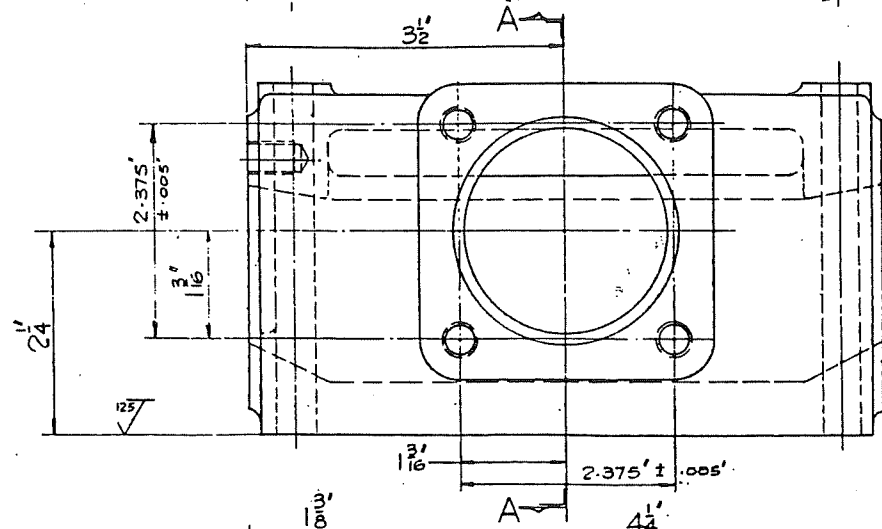
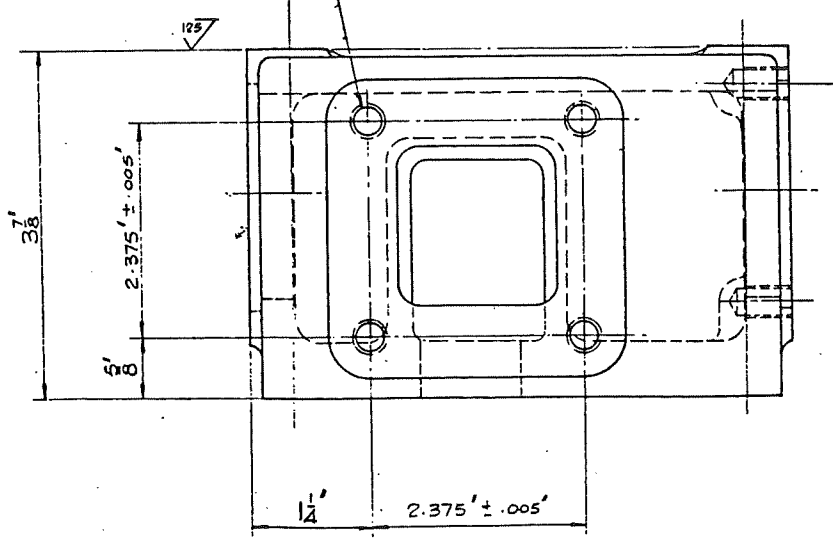
36

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
		BY	DATE
		DATE	DATE
CYLINDER HEAD		SUB. ASSEM.	MODEL NO.
SCALE FULL SIZE		DRAWING No. C_3003	
			REV. No.

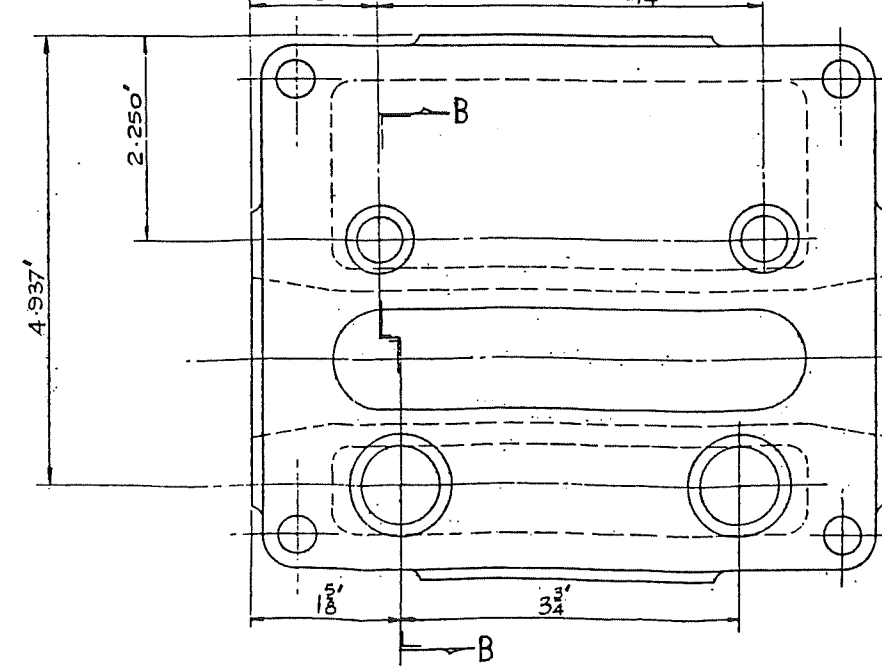


DRILL $\frac{25}{64}$ " DIA. THRU $\frac{1}{8}$ " SPOTFACE $\frac{7}{8}$ " DIA. 4 HOLES

DRILL $\frac{5}{16}$ " DIA. X $\frac{19}{32}$ " DEEP & TAP $\frac{3}{16}$ " N.C. X $\frac{1}{2}$ " DEEP 16 HOLES. (DO NOT BREAK THRU.)

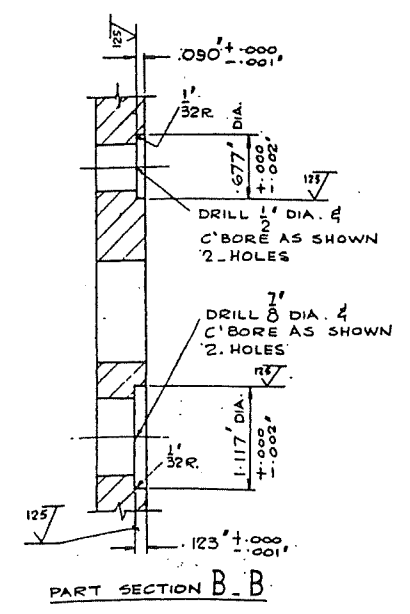


PART SECTION A-A
MACHINE 2 OPPOSITE FLANGES THUS



MATERIAL MEEHANITE

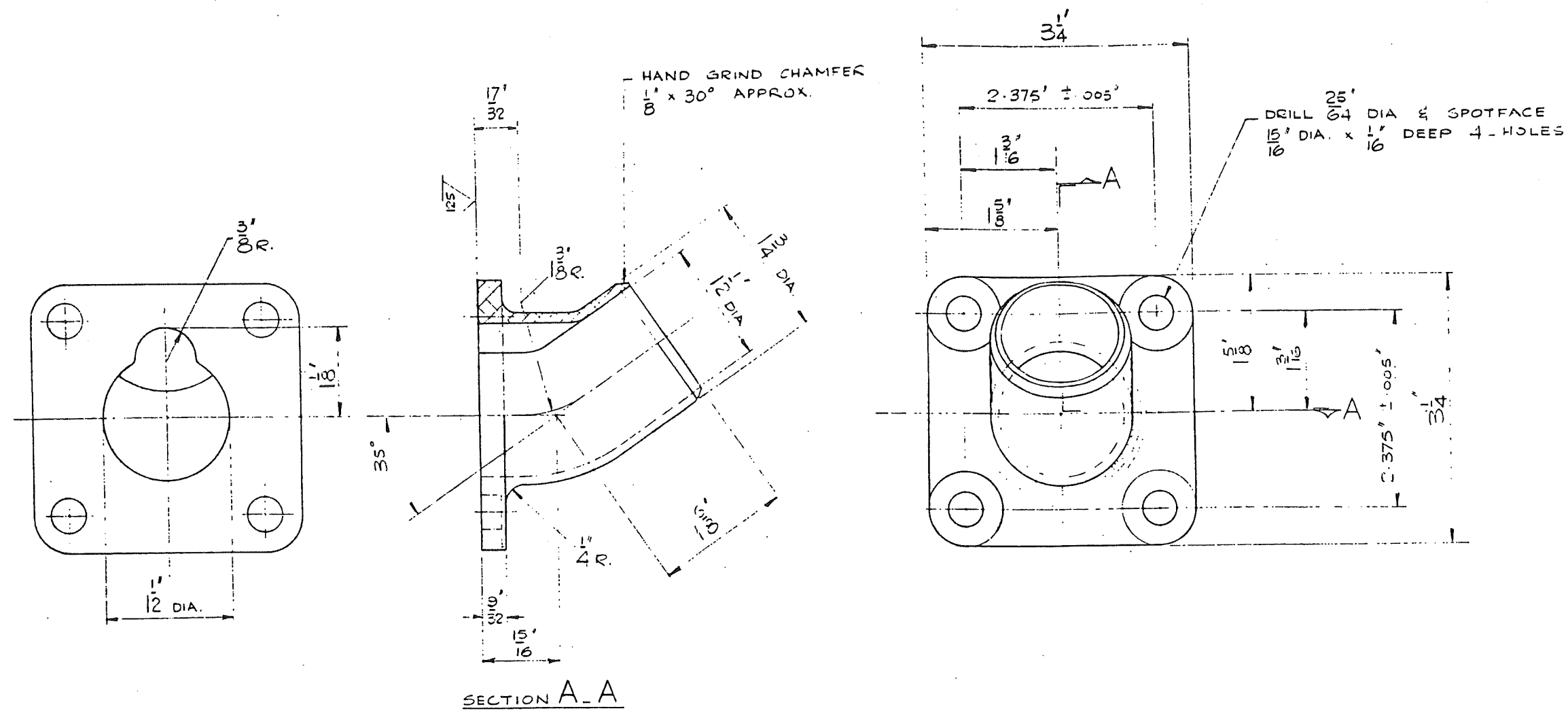
- NOTES.
1. THIS DRAWING FOR MACHINING PURPOSES ONLY.
2. ALL FRACTIONAL DIMENSIONS $\pm .010$



PART SECTION B-B

38

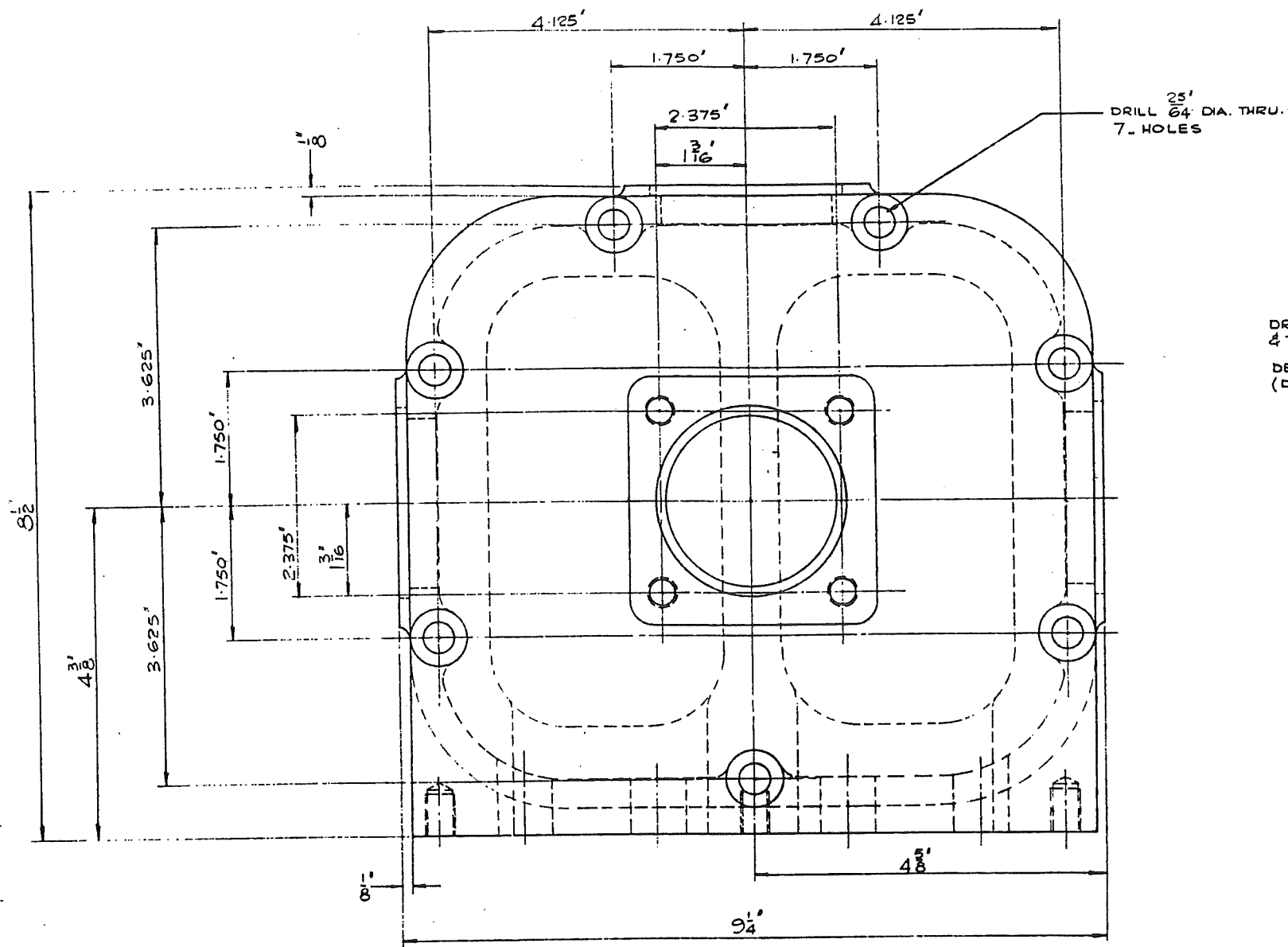
REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
		BY	DATE
		D. GEORGE	10-18-57
EXHAUST MANIFOLD			
SCALE	FULL SIZE	DRAWING No.	D 4007
		REV. No.	



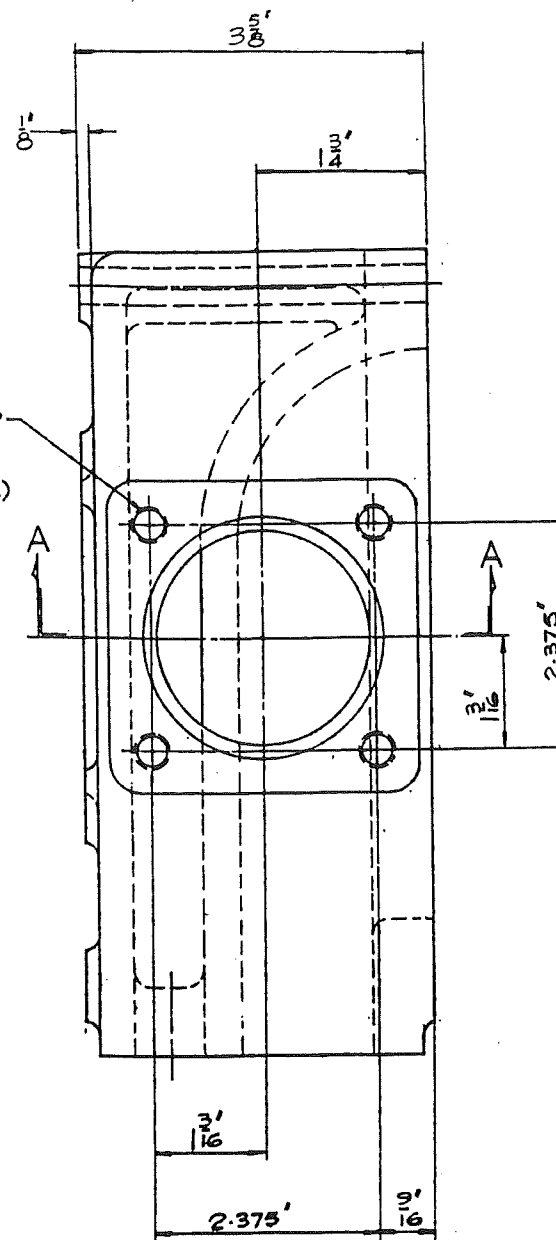
MATERIAL ALUMINUM

39

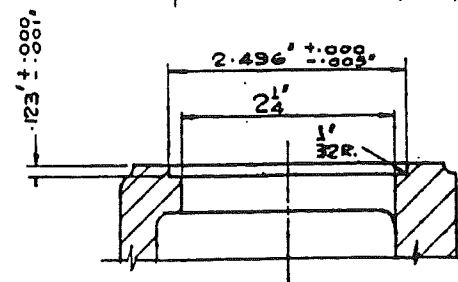
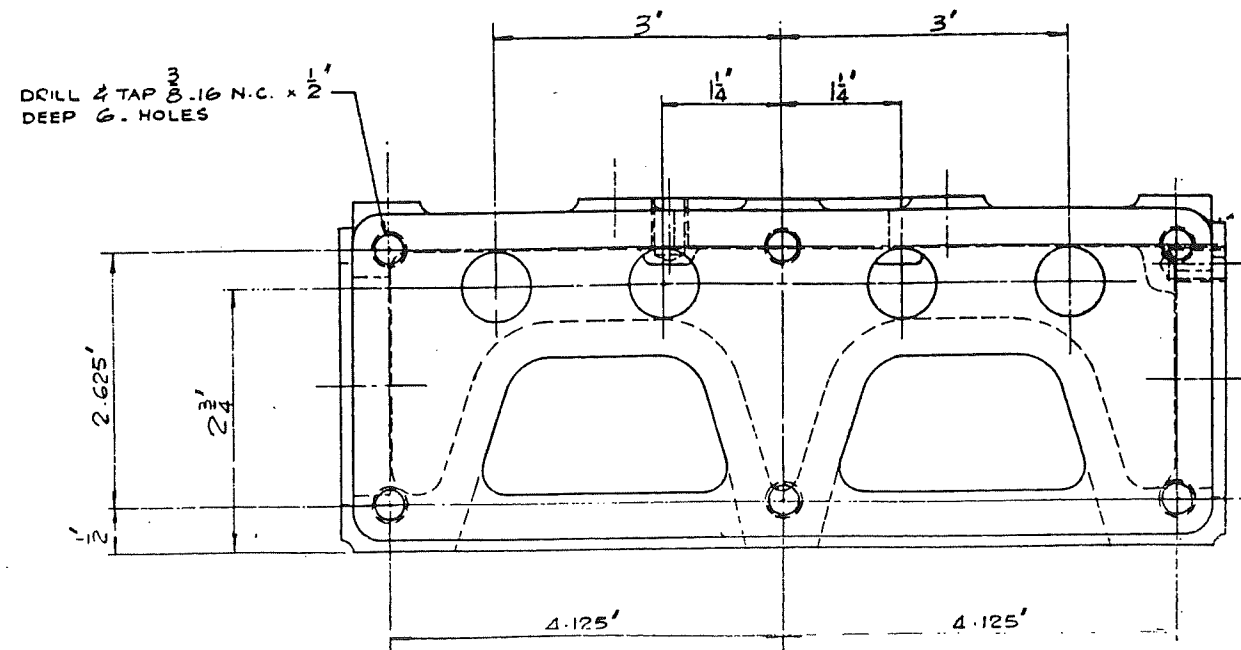
REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
	SUE ASSEM		MODEL No.
DRAWN	D GEORGE	10-20-57	
CHECKED			
APPRVD.			
SCALE FULL SIZE			REVN.
DRAWING No. C_3004			



DRILL $\frac{5}{16}$ DIA. X $\frac{19}{32}$ DEEP
 & TAP $\frac{3}{16}$ N.C. X $\frac{1}{2}$
 DEEP 12. HOLES
 (DO NOT BREAK THRU.)



NOTES:
 1 ALL MACHINED SURFACES ✓
 2 THIS DRAWING FOR MACHINING PURPOSES ONLY

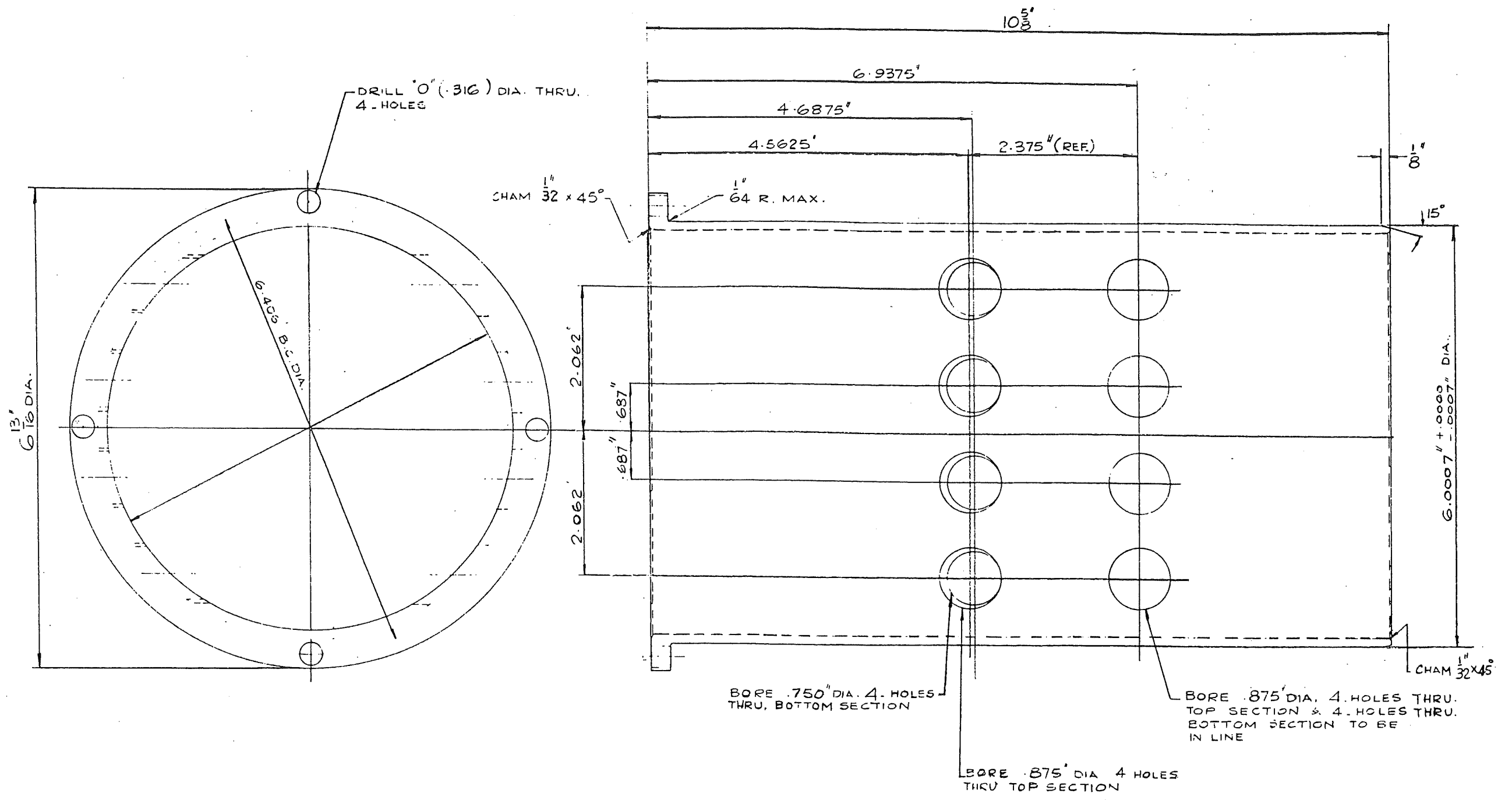


PART SECTION A-A
 MACHINE 3. FLANGES THUS

MATERIAL MEEHANITE

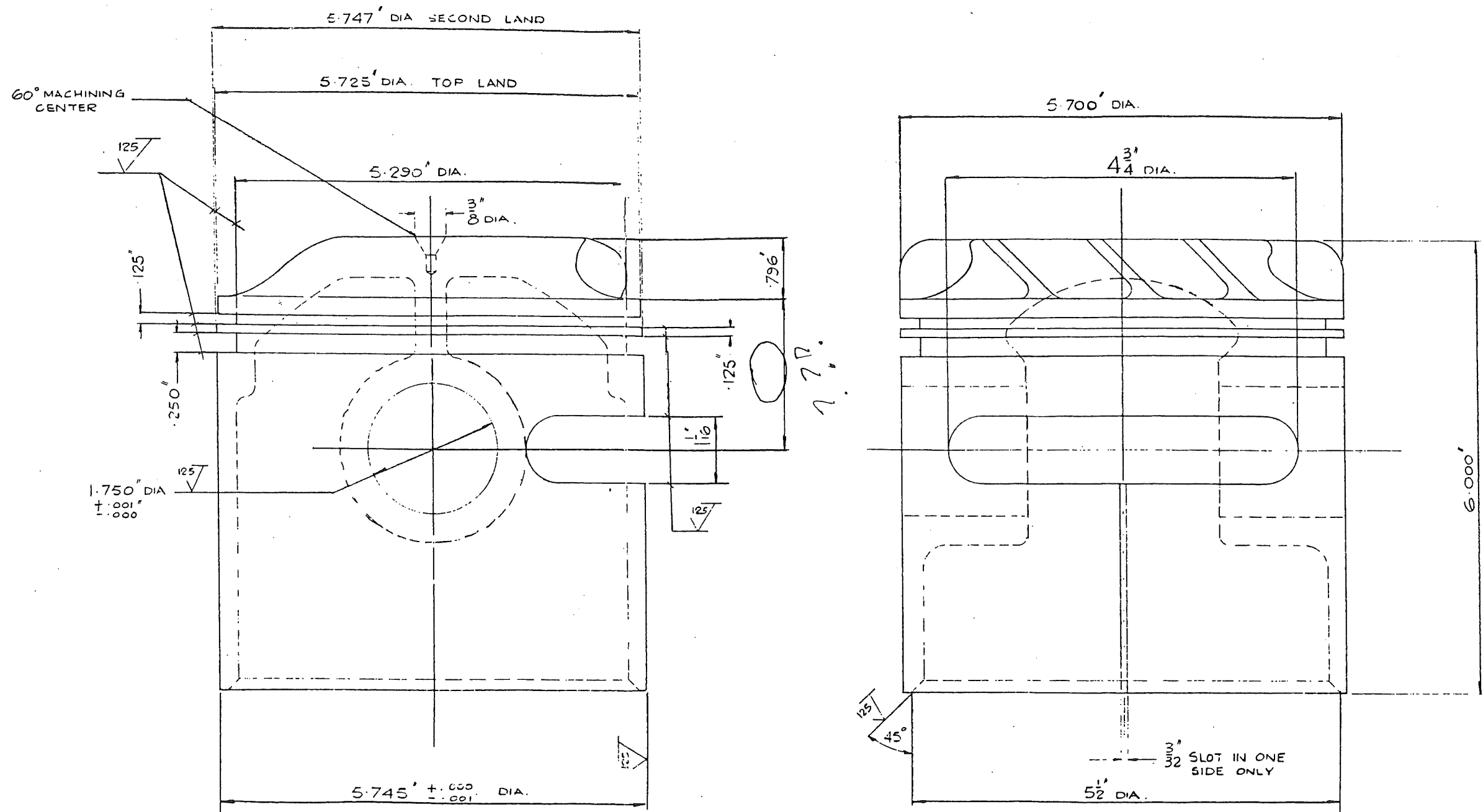
40

REVISION	DESCRIPTION	BY	DATE
	BOURKE ENGINES INC.		
	SUB ASSEM.		MODEL No.
	INTAKE MANIFOLD		
	SCALE FULL SIZE		DRAWING No. D-4008



REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
BY	DATE	CHK. ASSEMB	MODEL No.
DRAWN	D. GEORGE	1-1-55	
CHECKED:			
APPROV:			
SCALE	FULL SIZE	DRAWING No B_2011	REV.

41



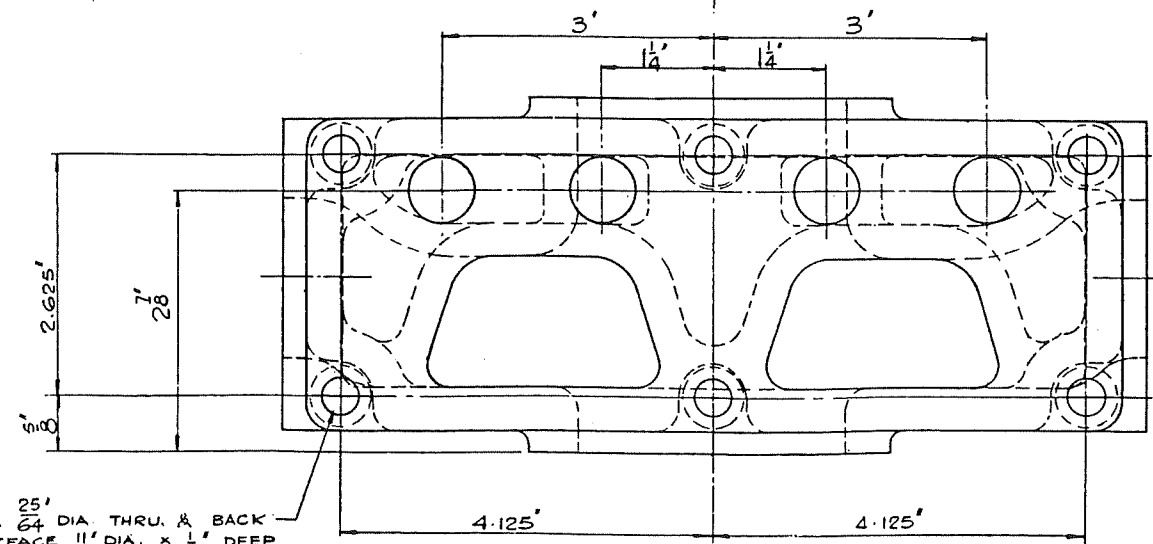
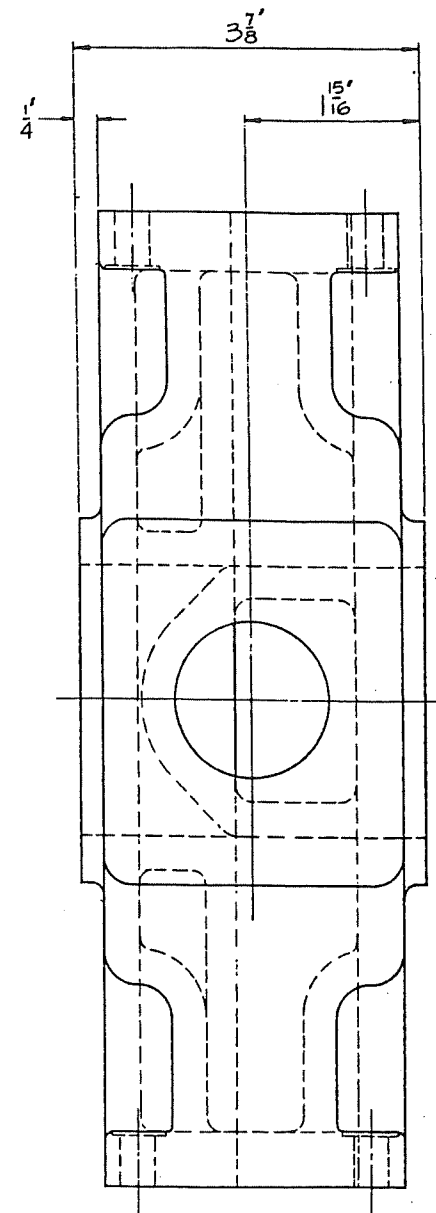
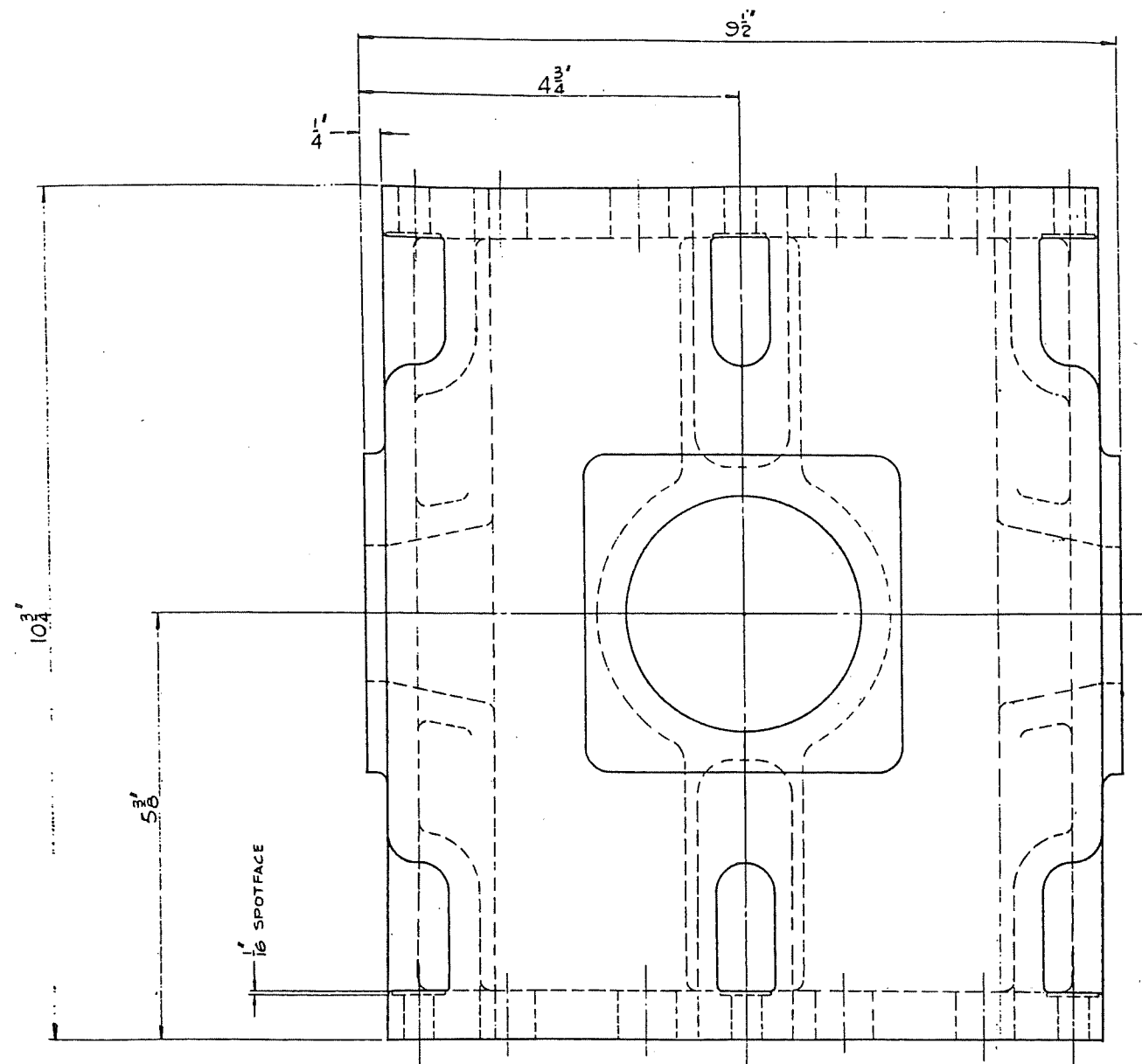
MATERIAL ALUMINUM

- NOTES:
- GROOVES TO BE SQUARE WITH LAND DIAS. WITHIN .0001" T.I.R.
 - DIAMETERS TO BE CONCENTRIC WITHIN .0001" T.I.R.
 - THIS DRAWING FOR MACHINING PURPOSES ONLY.

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REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
SUB ASSEM.		MODEL NO.	
PISTON			
DRAWING No. C.3005		REVN.	

DRAWN	D GEORGE	DATE	4-57
CHECKED			
APPRVD.			
SCALE	FULL SIZE		



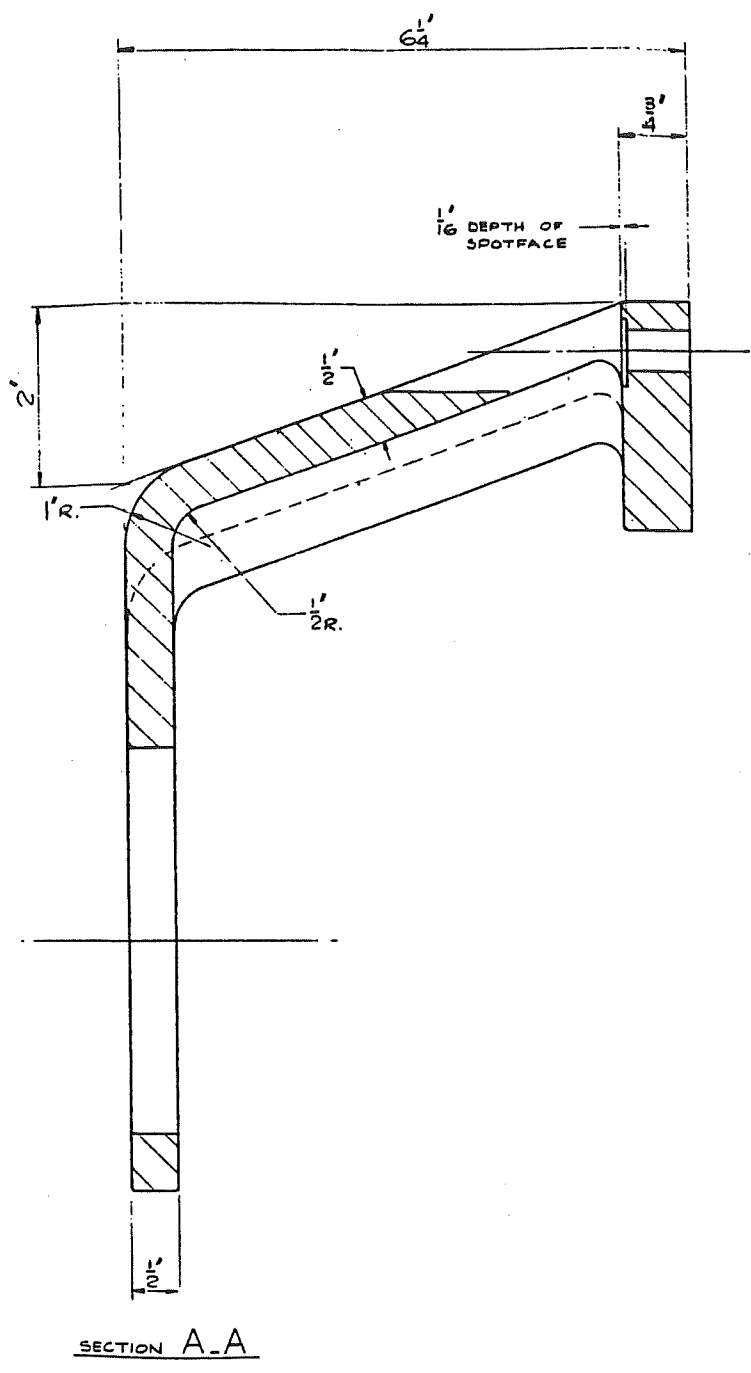
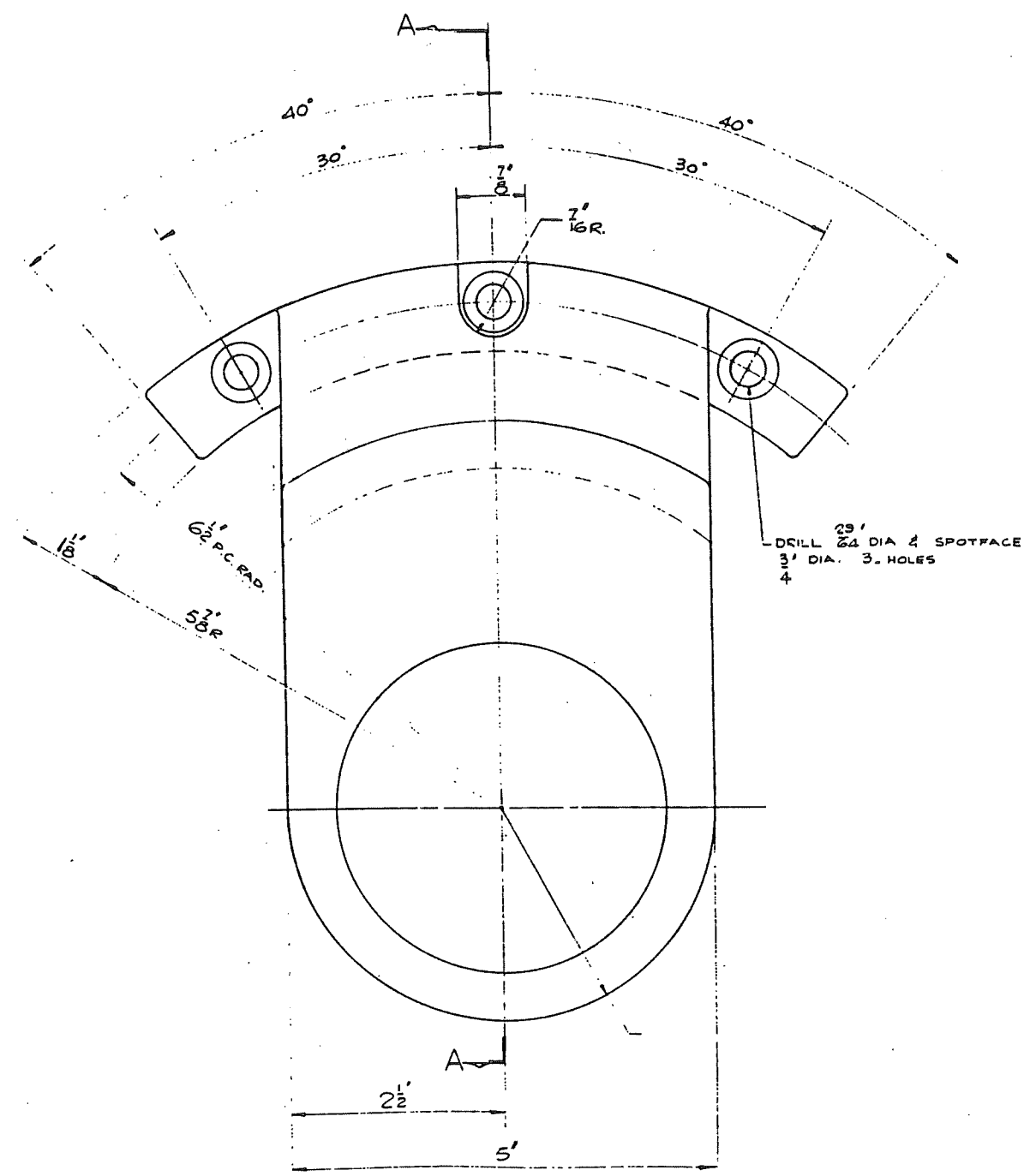
DRILL 25' DIA THRU. & BACK
64' DIA. x 1' DEEP
SPOTFACE 11' DIA. x 1/16' DEEP
6 HOLES EACH END

NOTES:
1. ALL MACHINED SURFACES $\sqrt{125}$
2. THIS DRAWING FOR MACHINING PURPOSES ONLY

MATERIAL

REVISION	DESCRIPTION	BY	DATE
BOURKE ENGINES INC.			
	SUB ASSEM.		MODEL NO.
	BY	DATE	
	DRAWN	D. GEORGE	12-28-57
	CHECKED		
	APPRVD.		
SCALE FULL SIZE		DRAWING NO. D_4009	
			REW

(45)



MATERIAL MEHANITE

REVISION		DESCRIPTION	BY	DATE
		BOURKE ENGINES INC.		
		SUB ASSEM.		MODEL No.
DRAWN	D. GEORGE	10-22-57		
CHECKED				
APPROVD.				
SCALE FULL SIZE		DRAWING No. D-4010		REV. No.

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