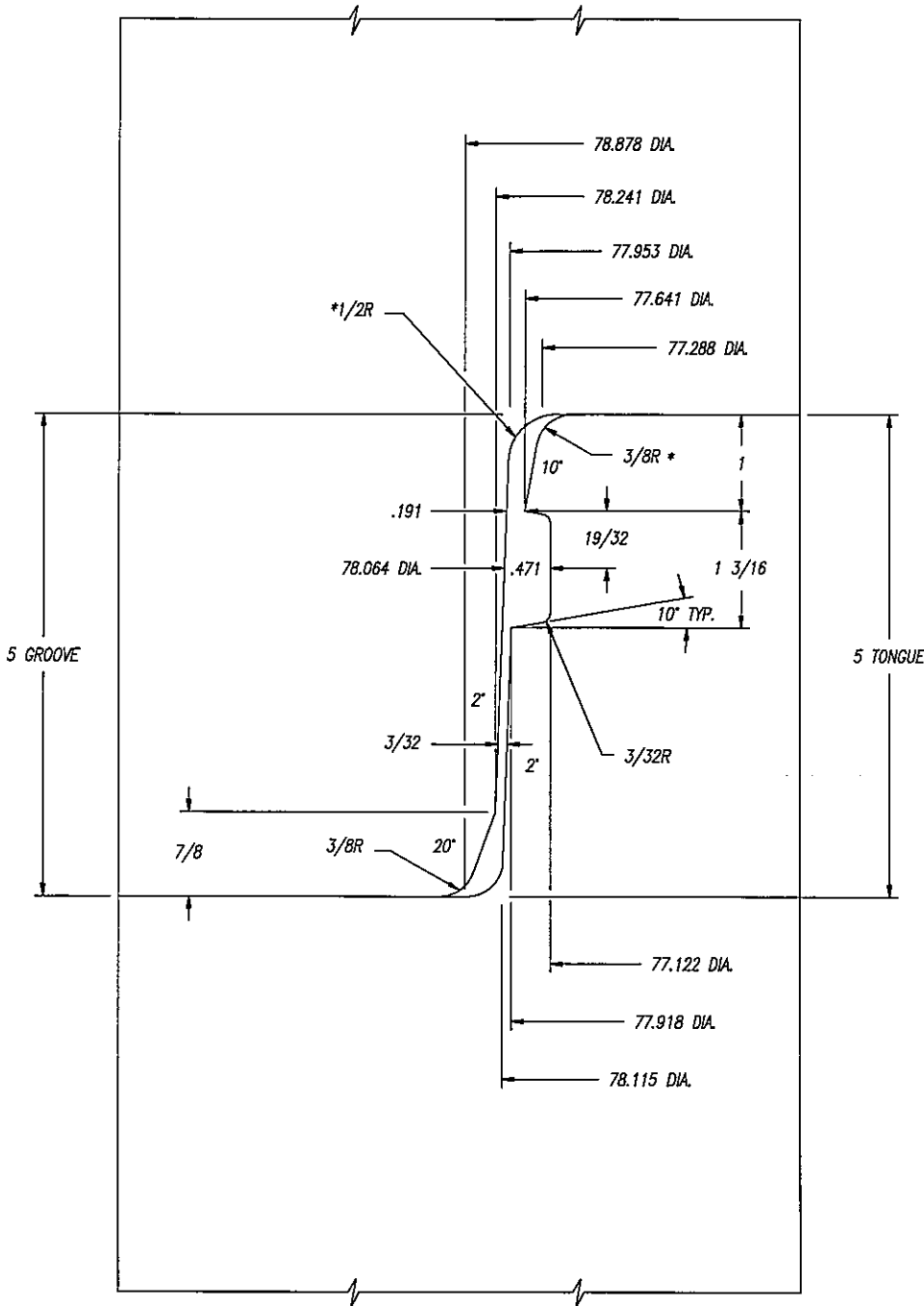


ALL DIMENSIONS IN INCHES				UM					
ITEM	QTY.	DWG. OR PART	DESCRIPTION	UM					
H			UNSPECIFIED TOLERANCES		QUINN MACHINE & FOUNDRY BOONE, IOWA				
G			DECIMAL ±						
F			FRACTIONAL ±		48×5×4 PIPE JOINT				
E			CASTING ±						
D			DRAWN SPB	SCALE FULL	PATT. NO. —				
C			CHECKED —	DATE 10-25-89					
B			REF.		AMERICAN CONC.				
A									
REF.		WAS	DATE						

501661

\* ONLY APPLIES WHEN USING A CLOSED TONGUE FORMER.  
 WHEN USING OPEN HEADER, 1/2R. BECOMES 1/4R. &  
 3/8R. BECOMES 0.



77.836 DIA. @ BASE OF SNAP RING SEAT.  
 SNAP RING SIZE = 1.188 x .357

INTERNATIONAL PATENT OFFICE

**QUINN MACHINE & FOUNDRY CO.**  
 A MEMBER OF THE BESSER FAMILY OF COMPANY  
 BROOKS, IOWA, U.S.A.

THIS DRAWING IS THE PROPERTY OF INTERNATIONAL PATENT OFFICE. IT IS CONFIDENTIAL AND NOT TO BE REPRODUCED WITHOUT OUR EXPRESSED PERMISSION AND MUST BE RETURNED UPON REQUEST.

**QUINN 7R**  
 72 x 7 x 5  
 "O" RING (7R) PIPE JOINT

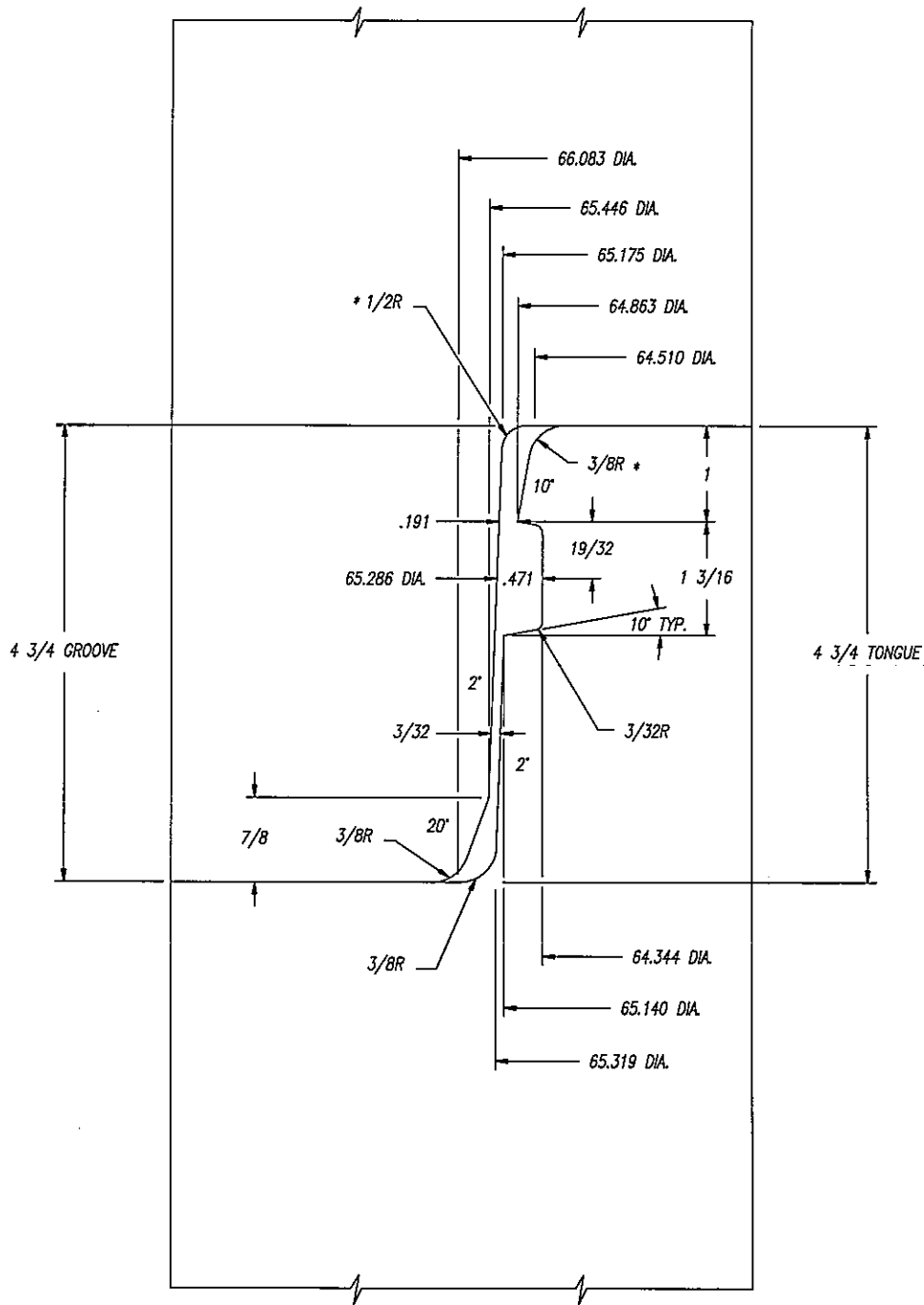
DATE: 3/8/72  
 CHECKED: [Signature]  
 SCALE: 1/4" = 1"

REV.	DESCRIPTION	DATE
H		
G		
F		
E		
D	REDRAWN	9/31/02
C	REDRAWN	8/20/87
B	DELETED R-4	5/16/77
A	MIS 4-600-505	7/17/72
REF.	REVISION	APP. BY DATE

TOLEARNCE UNLESS OTHERWISE SPECIFIED

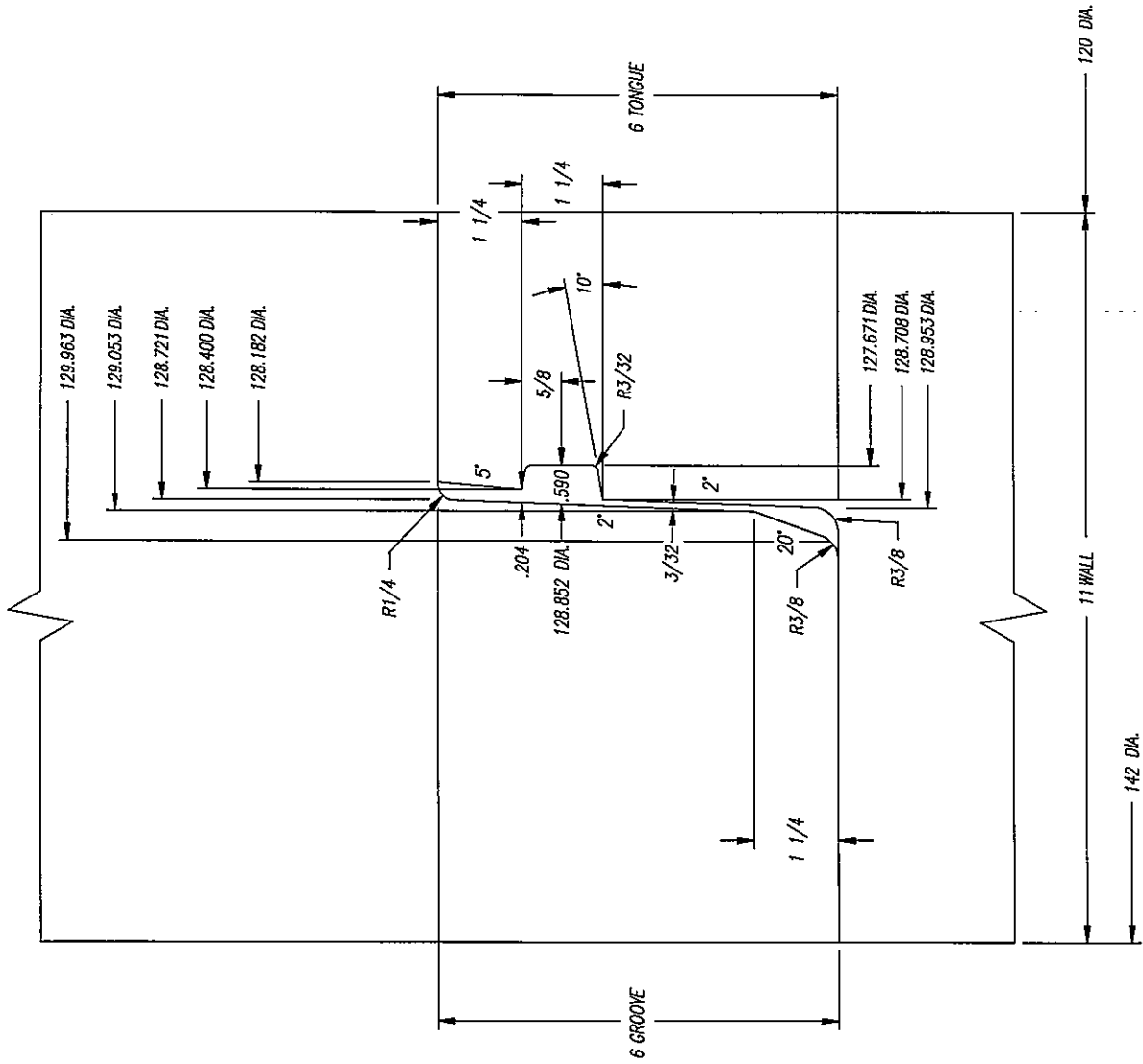
DECIMAL	±
FRACTIONAL	±
CASTING	±
PATTERN NO.	
REF.	ASTM S61

\* ONLY APPLIES WHEN USING A CLOSED TONGUE FORMER.  
 WHEN USING OPEN HEADER, 1/2R. BECOMES 1/4R. &  
 3/8R. BECOMES 0.



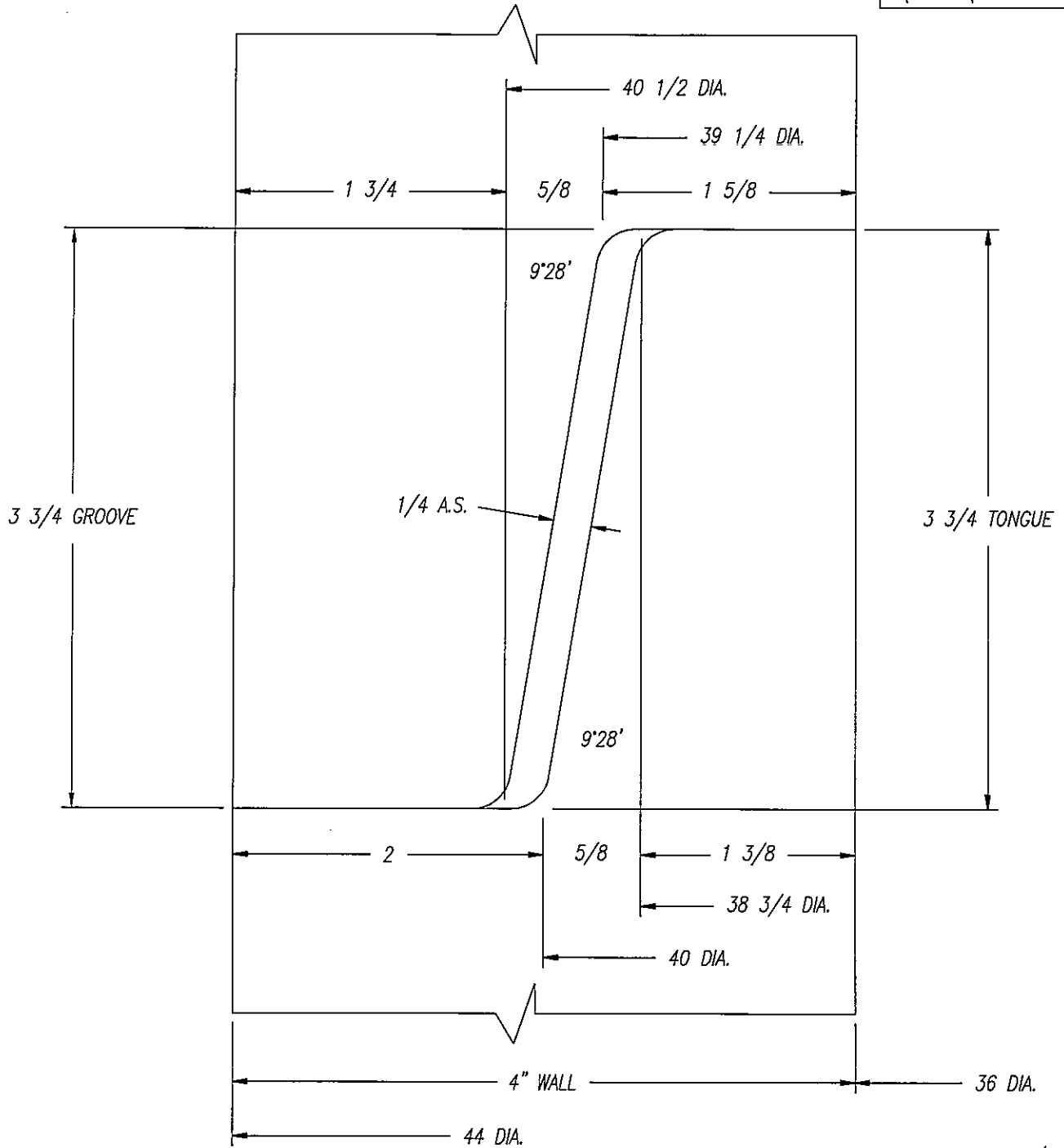
65.058 DIA. @ BASE OF SNAP RING SEAT.  
 SNAP RING SIZE = 1.188 x .357

		<b>QUINN MACHINE &amp; FOUNDRY CORP.</b> A MEMBER OF THE BESSER FAMILY OF COMPANIES BOONE, IOWA, U.S.A.	
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<b>QUINN 7R</b> 60 x 6 x 4 3/4 "O" RING (7R) PIPE JOINT		DRAFTER: D.R. 7/14/72 CHECKED: [ ] SCALE: 1/4" = 1"	
H. [ ] G. [ ] F. [ ] E. [ ] D. [ ] C. [ ] B. [ ] A. [ ] REF. [ ]	DATE 5/31/02 8/20/07 5/16/77 7/17/72	APP. BY [ ] [ ] [ ] [ ]	DATE [ ] [ ] [ ] [ ]
TOLERANCE UNLESS OTHERWISE SPECIFIED FINISH ± FRACTURE ± CASTING ± PATTERN NO. ± REF. ±			
ASTM 361			[ ]



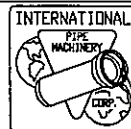
128.621 DIA. @ BASE  
OF SNAP RING SEAT.  
.475 x 1.250 TYPE VI  
SNAP RING SIZE (36023)

INTERNATIONAL MACHINERY		INTERNATIONAL MACHINERY	
QUINN MACHINE & FOUNDRY CO. BOONE, IOWA U.S.A.		QUINN MACHINE & FOUNDRY CO. BOONE, IOWA U.S.A.	
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		120 x 11 x 6 (7R) O'RING PIPE JOINT	
DRAWN	CHK	12/2/82	
CHECKED			
SCALE: 1/2" = 1"		4-600-874	
H			
G			
F			
E			
D			
C			
B			
A	REDRAWN FROM	2/3/82	DATE
REF.	REVISION		DATE
TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL ±.025			
FRACTIONAL ±			
CASTING ±			
PATTERN NO. 7R			



ALL RADII = 1/4

H			
G			
F			
E			
D			
C	REDRAWN/UPDATED	MDG	10/01/01
B	REDRAWN		8/21/87
A	WAS 44-612		7/19/72
REF.	REVISION	APP. BY	DATE
TOLERANCE UNLESS OTHERWISE SPECIFIED			
DECIMAL	±		
FRACTIONAL	±		
CASTING	±		
PATTERN NO.			
REF.			



**QUINN**  
**MACHINE & FOUNDRY CORP.**  
 A MEMBER OF THE BESSER FAMILY OF COMPANIES  
 BOONE, IOWA U.S.A.

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**MINN. 3000A**

36 x 4 x 3 3/4  
 (3M) PIPE JOINT

DRAFTER	D.R.	7/19/72
CHECKED		
SCALE:	FULL	

4-600-661 A

REV.  
 C