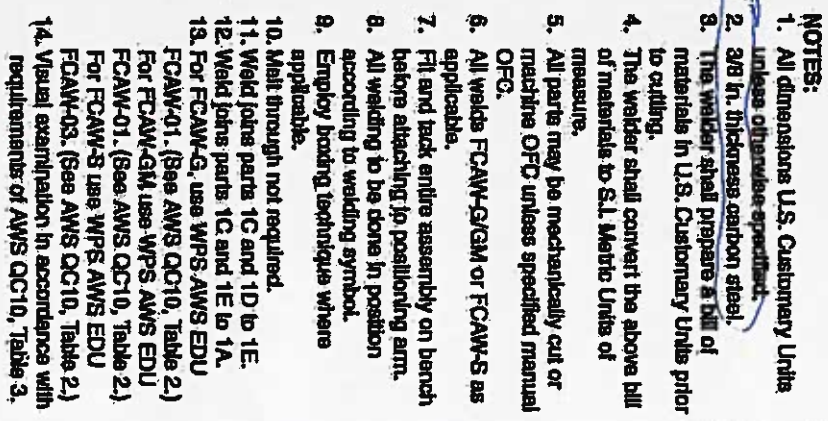


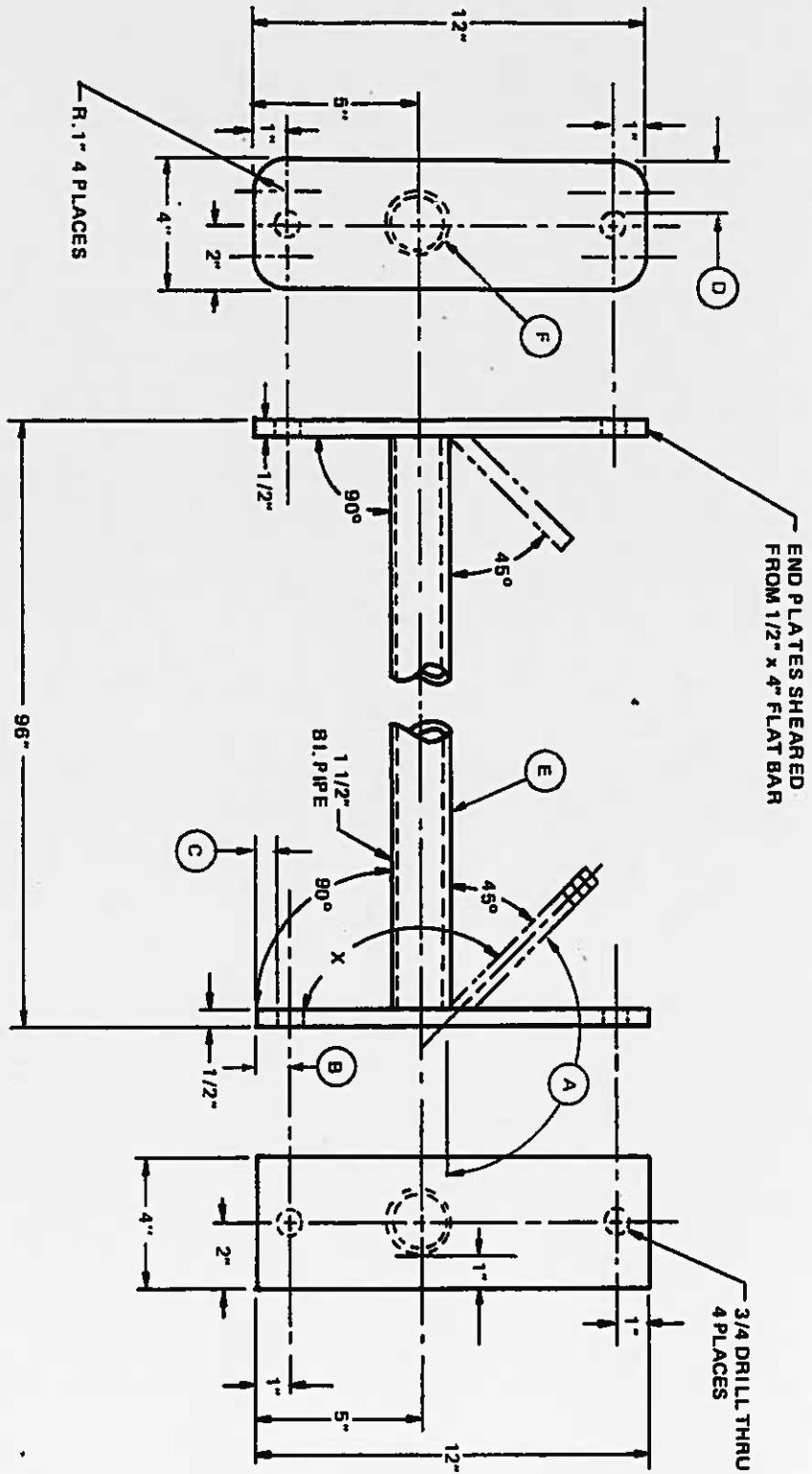
III


$$\text{Hint } \frac{1}{F} - \left( \frac{1}{2} + \frac{3}{8} + \frac{3}{8} \right) = 6 - \frac{1}{4} = 4 \frac{3}{4}$$

$$\begin{aligned} 1. F &= 6 - (1/2 + 3/8 + 3/8) = 6 - 1/4 = 4 \frac{3}{4} \\ H &= 6 - 1/2 = 5 \frac{1}{2} \\ W &= 6 - 1/2 = 5 \frac{1}{2} \end{aligned}$$



Sue Silverstein - Blueprint Reading for Welders



QTY.-4	TITLE- SPACER BAR
SCALE-NONE	DRAWN BY: S. ASH
MATERIAL-HOT ROLLED LOW CARBON STEEL	
B-003-A	

Bearing Support Bracket			
Material list (QTY 2)			
	Size	QTY	material
A			
B			
C			
Spacer Bar			
Material list (QTY 4)			
	Size	QTY	Material
A			
B			
C			


ANSWER

TEXT  
Pg 36 & 48

Bearing Support Bracket			
Material List (QTY 2)			
	Size	QTY	material
A	1/4 x 12 x 4	4	CRS
B	3/4 x 5 1/2 x 4 <sup>2</sup> / <sub>Holes</sub>	2	CRS
C	3/4 x 5 1/2 x 4 <sup>2</sup> / <sub>Holes</sub>	2	CRS
Spacer Bar			
Material list (QTY 4)			
	Size	QTY	Material
A	1/2 x 12 x 4 <sup>2</sup> / <sub>KNUTS</sub>	4	HRS LOW CARBON
B	1/2 x 12 x 4 <sup>2</sup> / <sub>SO</sub>	4	" "
C	1 1/2 x 9 x 5	4	BL P.D.C

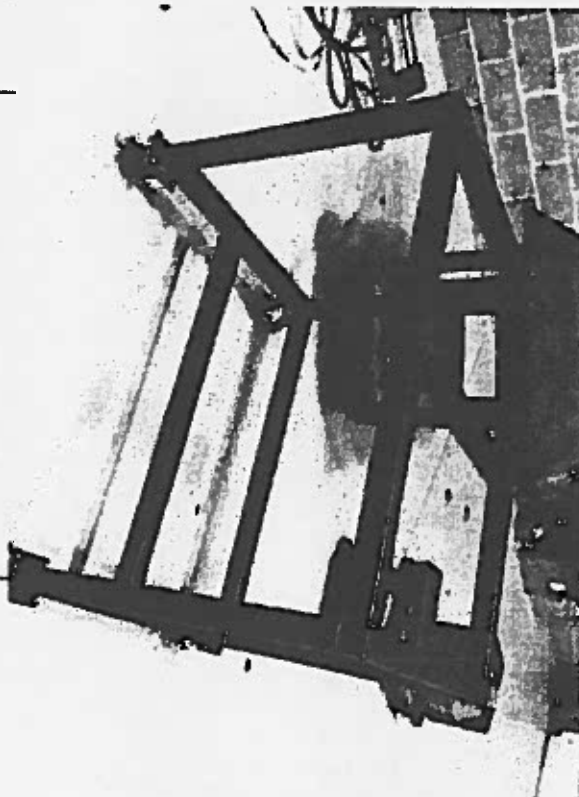


Sue Silverstein - Blueprint Reading for Welders

		NAME OF PLATE		PART OR PROBLEM NO.	
TOLERANCE		SCALE		COURSE	
				CHK'D DATE	
SHEET NO.		DRAWN BY		APPRO DATE	

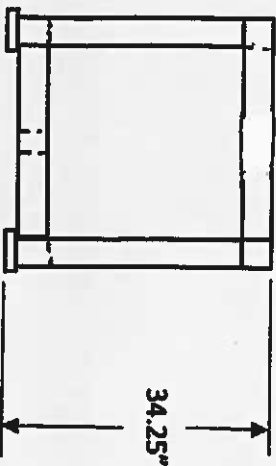
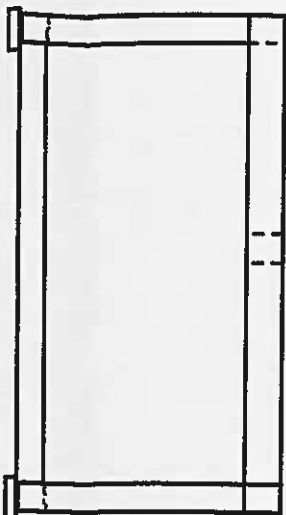
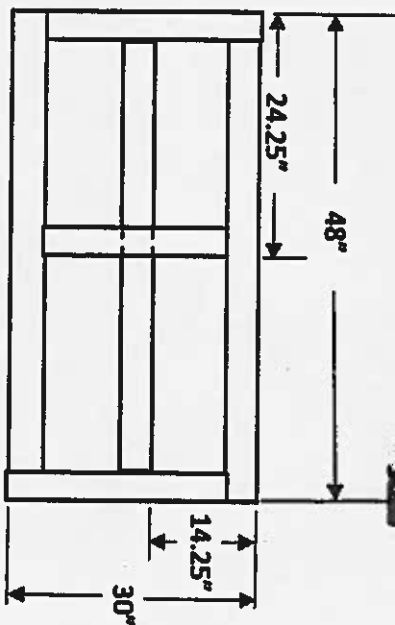






Create a material list for this project

The frame is constructed from 1.5" x 1.5" x .125" wall square tubing. The length is 48", the width or depth is 30", and the height is 34" without the casters or bottom pad. The tubing in the middle of the top is on center. The tubing across the bottom is centered in the 30" width or depth. The bottom pads for the casters are 2 1/2" x 2 1/2" x 1/4".



**Material list for table**

**Name:**

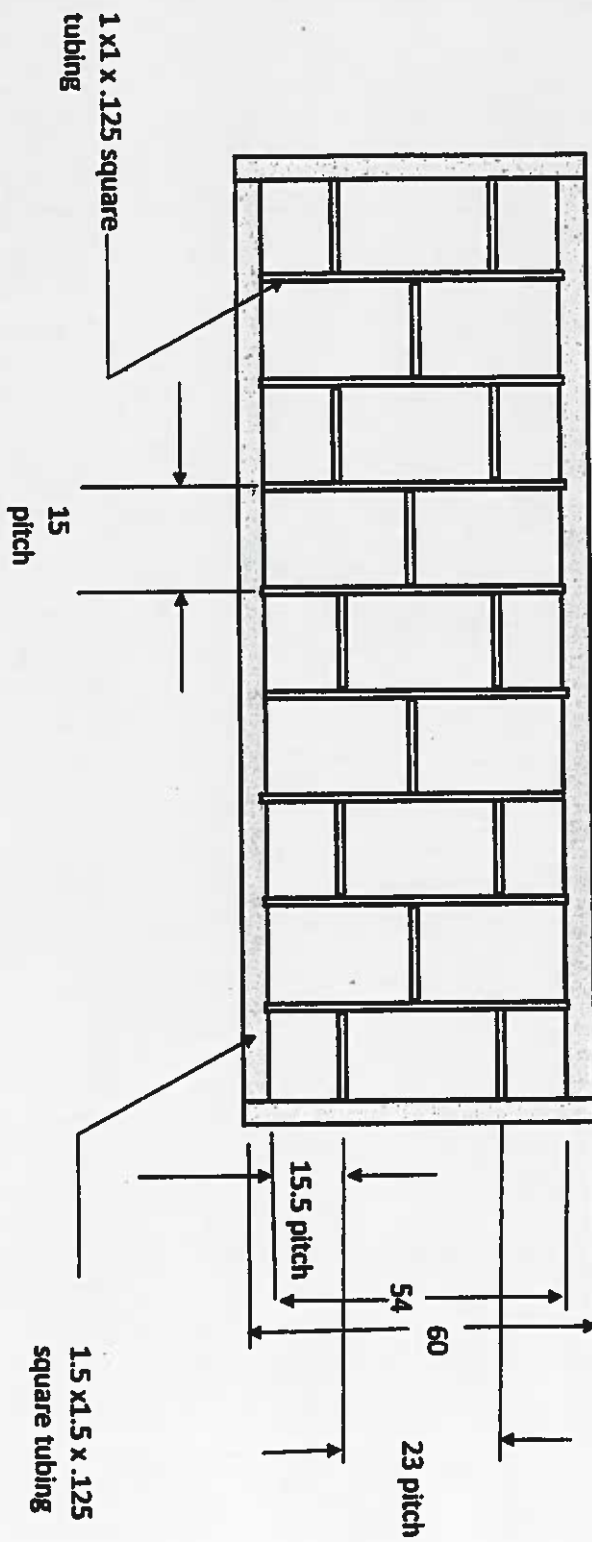
Part	Size	Quantity	material
A			
B			
C			
D			
E			
F			
G			
H			

# Material list for table

Name:

ANSWERS

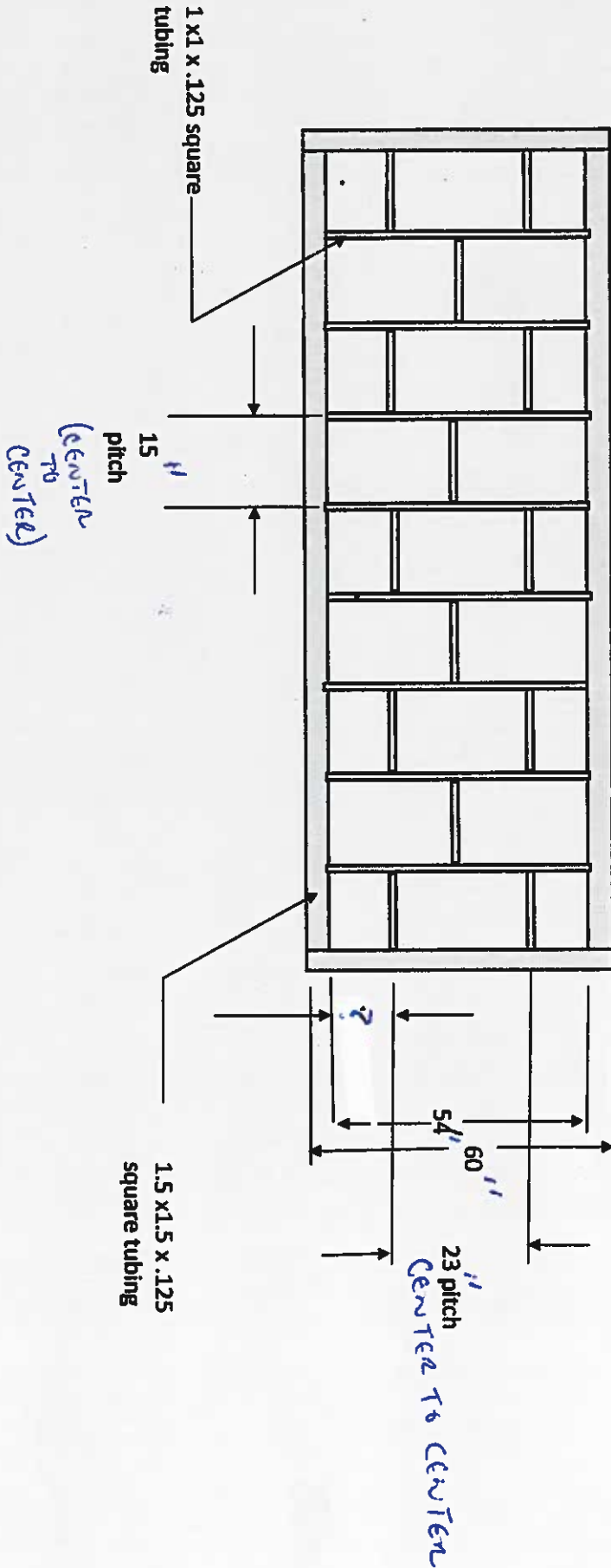
Part	Size	Quantity	material
A	46.5"	2	1.5x1.5x.125 SQT
B	<del>28.5"</del>	2	"
C	<del>38.5"</del>	1	"
D	45"	2	"
E	27"	3	"
F	2 1/2 x 2 1/2 x 1/4	4	Y4 STEEL
G			
H			



How many 20 foot lengths of 2x2 and 1x1 tubing are required? (Hint 20' = 240" & you must allow 1/16 (.0625) kerf per cut from saw. Always figure longest pieces to shortest) Draw out how you would cut the parts – extra length are drawn.

A series of 15 horizontal rectangular boxes, each with a double-line border, arranged vertically. These boxes are intended for drawing out the cut parts of the tubing as specified in the problem above.

Answers



HINT: How many 14" spaces in the length?

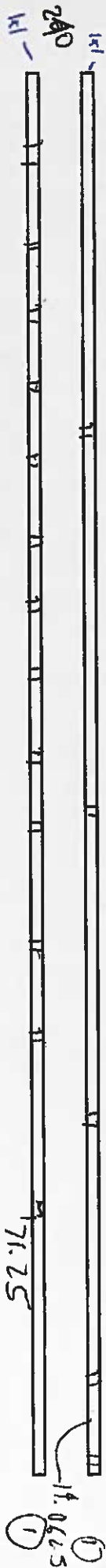
How many 1" PCS of tubing in the length?

How wide are the 2 end spaces if the middle space is 22" for the width?

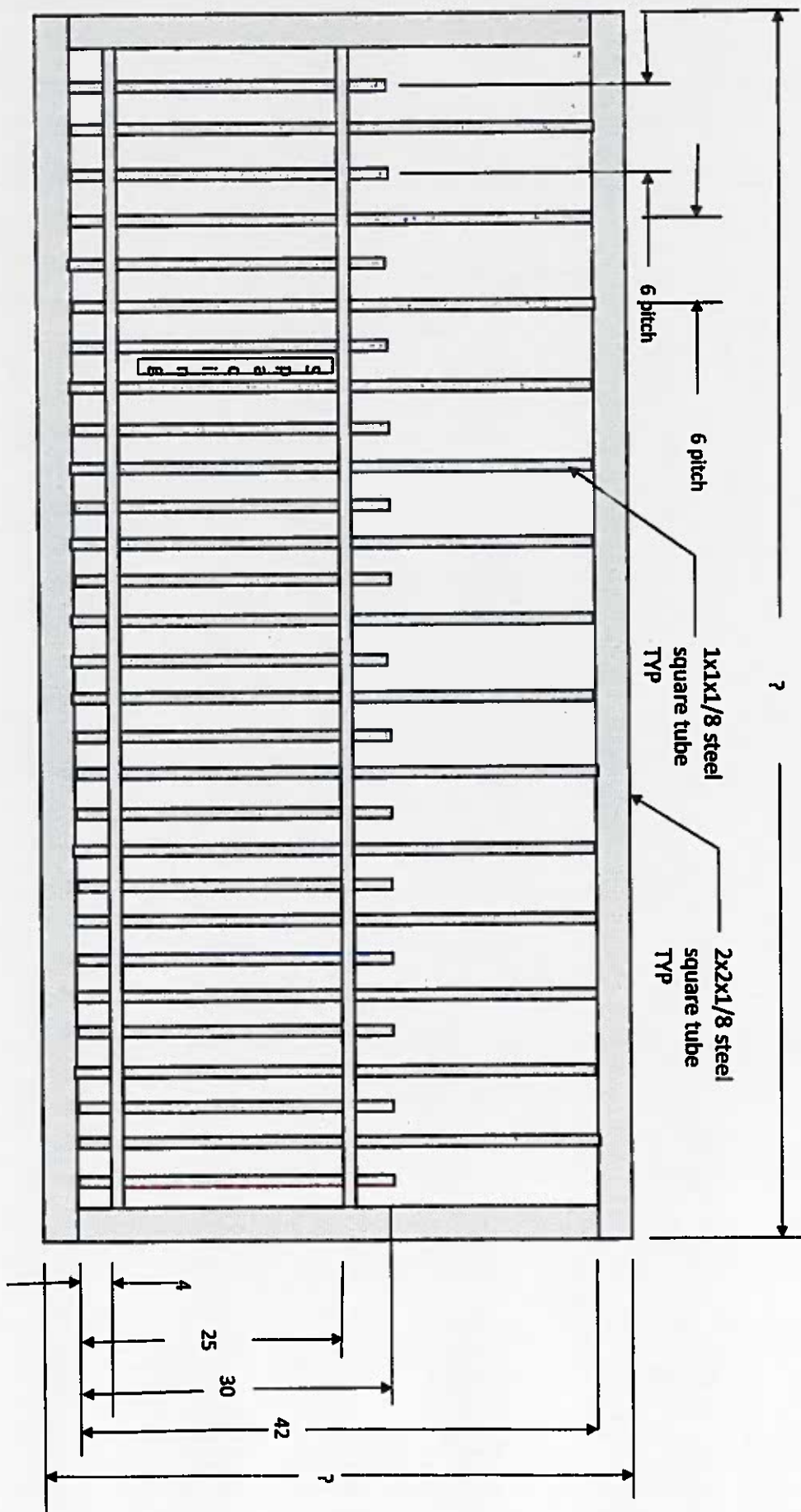


# ANSWERS

How many 20 foot lengths of 2x2 and 1x1 tubing are required? (Hint 20' = 240" & you must allow 1/16 (.0625) kerf per cut from saw. Always figure longest pieces to shortest) Draw out how you would cut the parts - extra length are drawn.







ANSWER

What is the actual spacing between the 1" tubing for layout purposes? 2"  
 How many spacing are there? 80

Create a material list for the gate.

Part	Material	length	QTY
Horizontal Frame	2x2x 1/8	93	2
Vertical Frame	2x2x 1/8	42	2
Long vertical posts	1x1x 1/8	42	14
Short vertical posts	1x1x 1/8	30	15
Horizontal braces	1x1x 1/8	89	2

What is the overall height and length of the steel gate? 
$$154 + 14 + 60 + 4 = 93 \times 46$$

