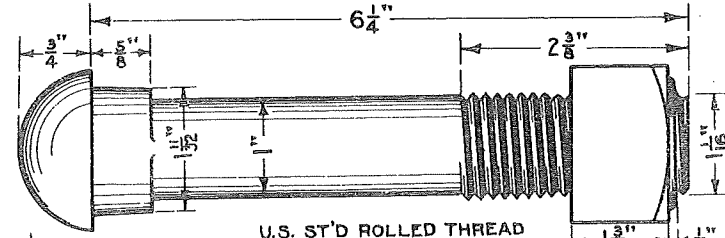
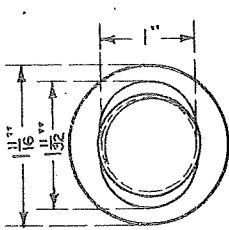
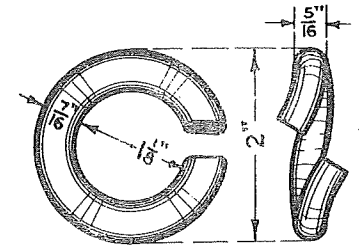
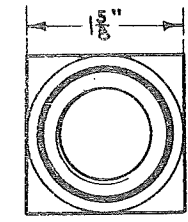


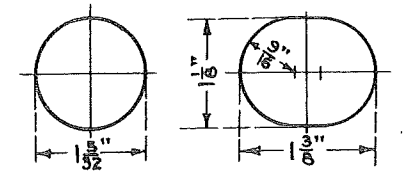
**RAIL DRILLING**  
SCALE: 1/2" = 1'-0"



U.S. ST'D ROLLED THREAD  
8 THREADS PER INCH  
OIL QUENCHED CARBON STEEL  
**TRACK BOLT & NUT**  
SCALE: 1/2" = 1"



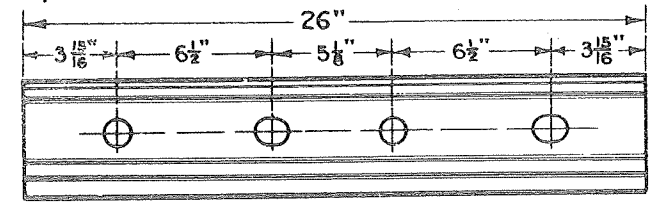
**IMP. HI POWER  
SPRING WASHER**



**BOLT HOLES**  
ALTERNATE ROUND AND OVAL

ELEMENTS OF ONE JOINT (2 BARS)

	Hor. Axis	10° Axis
I	30.1	32.2
M	T	12.4
	B	11.9
Area one bar	Av. 6.32 sq"	
Weight of Joint Bars,	93.09 lbs. per pair (Gross)	
Rail Joint Co. File No.	652-69, Mar. 15, 1935, Issue No. 2	
Average shipping weight per joint	approx. 91.3 lbs.	



**ELEVATION OF JOINT BAR**  
NO SPIKE SLOTS IN JOINT BARS  
SCALE: 1/8" = 1"

APPROVED:

*J. M. Williams*  
CHIEF ENGINEER.

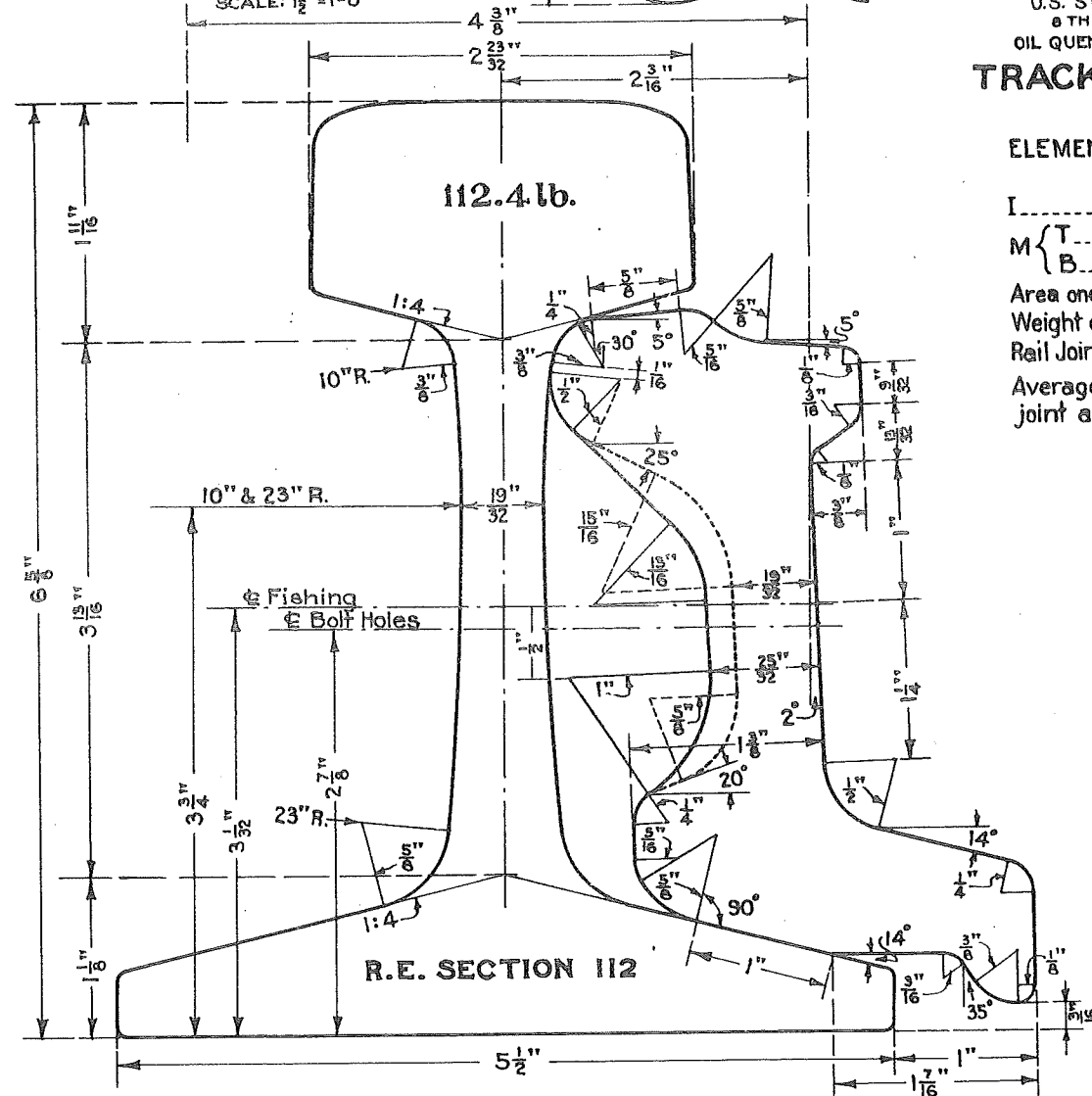
APPROVED:

*E. W. Mason*  
VICE PRESIDENT AND GENERAL MANAGER.

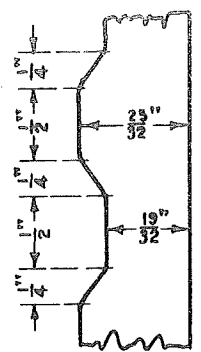
**THE WESTERN PACIFIC RAILROAD CO.**  
STANDARD  
HEADFREE 100% JOINT  
FOR  
112\* R.E. RAIL

SCALES AS SHOWN

ADOPTED MAR. 1935



**END ELEVATION OF RAIL AND JOINT BAR**  
SCALE: 3/4" = 1"



**LONGITUDINAL  
SEC. OF WEB**