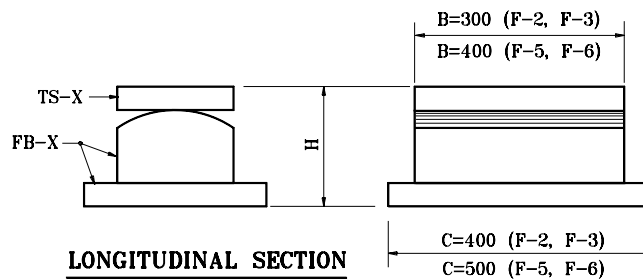
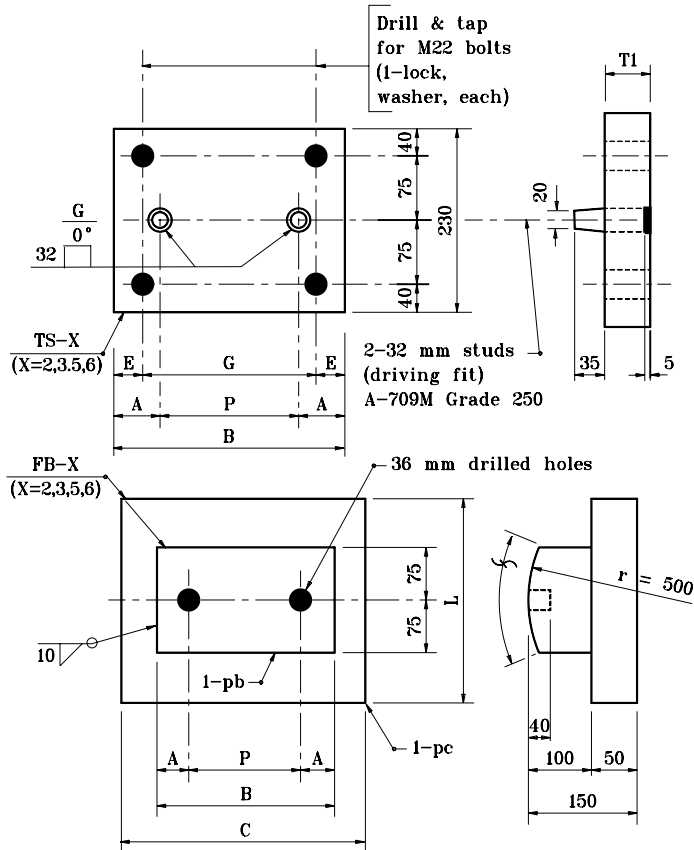


**FIXED SHOE ASSEMBLY**



**LONGITUDINAL SECTION**

Shoe Type	Maximum Reaction	Shoe Assembly		H
		TS-X	FB-X	
F-2	787 kN	TS-2	FB-2	200
F-3	1090 kN	TS-3	FB-3	
F-5	1000 kN	TS-5	FB-5	
F-6	1375 kN	TS-6	FB-6	

TS-X	E	A	T1	G	P	Section	Material
TS-1 *	55	55	45	190	190	℄ 230 x 45	A-709M Grade 250
TS-2	55	65	50	190	170	℄ 230 x 50	A-709M Grade 345W
TS-3	55	70	50	190	160	℄ 230 x 50	A-709M Grade 690
TS-4 *	75	75	45	250	250	℄ 230 x 45	A-709M Grade 250
TS-5	75	85	50	250	230	℄ 230 x 50	A-709M Grade 345W
TS-6	75	95	50	250	220	℄ 230 x 50	A-709M Grade 690

\*Top shoe used with Expansion Steel Shoe only.

**TOP SHOE**

FB-X	C	L	B	A	P	Sections	
						pb	pc
FB-2	400	300	300	60	180	℄ 150 x 100	℄ 300 x 50
FB-3	400	400	300	70	160	℄ 150 x 100	℄ 400 x 50
FB-5	500	300	400	80	240	℄ 150 x 100	℄ 300 x 50
FB-6	500	400	400	90	220	℄ 150 x 100	℄ 400 x 50

**FIXED BASE**

**NOTES :**

- Curved surfaces of shoes to be machined after weldments have been completed. At the contractor's option the following substitutions of materials will be allowed at no increase in unit price of material:
  - A-709M Grade 345W steel may be used in lieu of A-709M Grade 250 steel.
  - A-709M Grade 690 steel may be used in lieu of A-709M Grade 345W or A-709M Grade 250 steels.
- Section "pb" to be finished from 100 mm thickness while Section "pc" is to be straightened.
- Maximum horizontal thrust per Fixed Shoe = 22 kN.

All dimensions are in mm unless otherwise specified.

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>FIXED STEEL SHOE DETAILS</b>	
JANUARY 2001	
STANDARD DRAWING NO. <b>711-BSTS-01</b>	
	/s/ <i>Anthony L. Uremovich</i> 1-02-01 DESIGN STANDARDS ENGINEER DATE
	/s/ <i>Dorinda W. Winkler</i> 1-02-01 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	