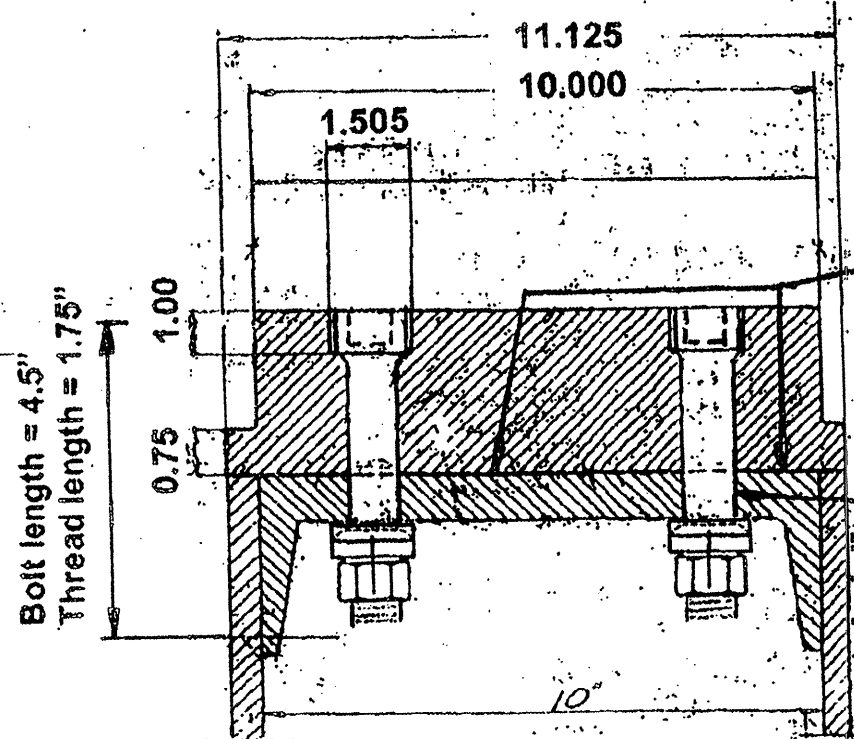
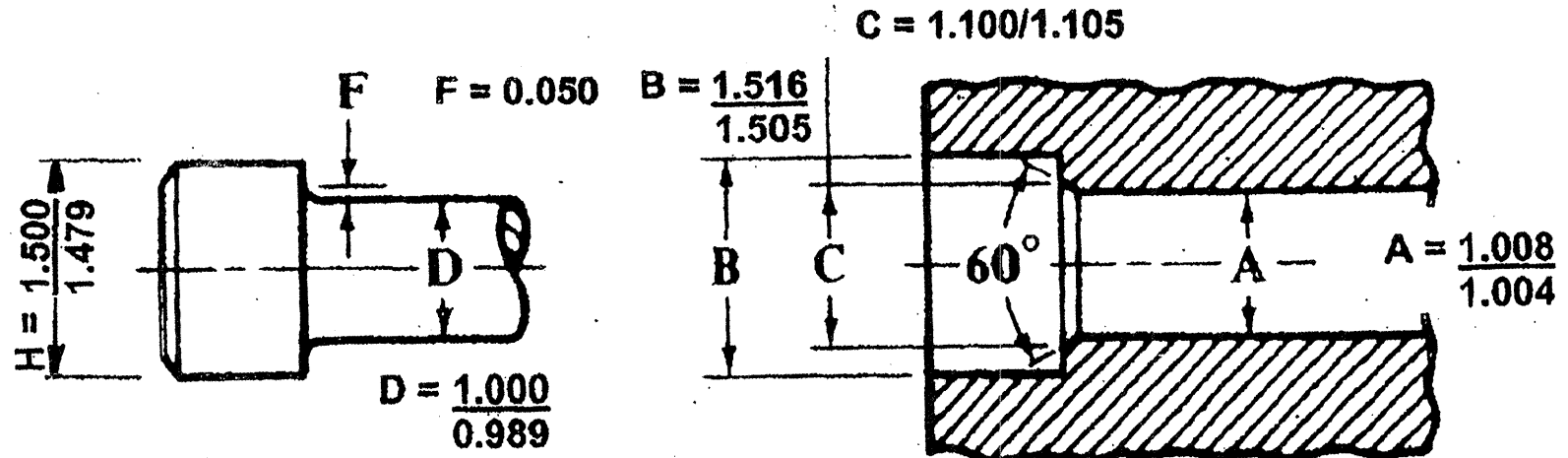


RACK & PINION MESH

Max. Rack Stress
11400 # per rack

Material: ASTM A574 alloy
steel socket head cap screws,
1"-8 UNC, Class 3A threads



SECTION THROUGH RACK

Apply one of the following epoxy compounds in a 0.005" thick layer before bolting:
 (a) Devcon SC 2002 NS, a single Component structural epoxy, which requires heat curing at 200°F-275°F.
 (b) 3M Scotch-Weld Epoxy 2216 B/A, a flexible two-part 75°F curing epoxy.
 Any requests for substitutes shall be accompanied by actual shear strength testing between equivalent steel surfaces, 2,200 psi min after curing.

Ream existing rack support holes to 1 1/16" max to fit if necessary; 1.004 Ø preferred

RACK BOLT DETAILS

NOTE: This dimension shall be determined by field measurements of existing rack-to-rack support height; +0.000/-0.007 tolerance

All dimensions in inches except as noted

FILE NAME : c:\projects\struct\099-8166.dgn	USER NAME : tynahomv	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 30 (EB) (JEFFERSON STREET) OVER DES PLAINES RIVER RACK AND TOOTH DIMENSIONS S.N. 099-0166	F.A.P. RTE. 607	SECTION 128 RB-1-3	COUNTY WILL	TOTAL SHEETS 11	SHEET NO. 6	CONTRACT NO. 60E92
PLOT SCALE : 2.8624" = 1" IN.				SCALE: NONE		SHEET NO. OF SHEETS STA.		TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	