



$$X = L \times E$$

E = EXPANSION FACTOR, IN/FT  
 E = .03 FOR STEAM (HPS)  
 E = .01 FOR CONDENSATE (PC)

CALCULATION OF THERMAL MOVEMENT FOR LOCATING SADDLES AND SPIDERS  
 SCALE: NONE

REV	DATE	Construction Standard Thermal Movement	
0	12/22/02		
1	1/13/03		
DRAWN BY: BB		Energy Management Campus Facilities UNIVERSITY OF MISSOURI-COLUMBIA	DRAWING NOT TO SCALE DATE: 12/22/02
CHECKED BY: TG			