The calculation of the Triangle Fig. 1. gives the distance C.A. - from the Obs. pier north to the South end of main base line, 797.13 feet.

From A. Fig. 1. (which point is also marked "A" in Fig. 2.) I measure north to B. Fig. 2. 849.94 feet. using the line AB Fig. 2 as my base for principal triangulation to City Hall (C. of Fig. 2.)

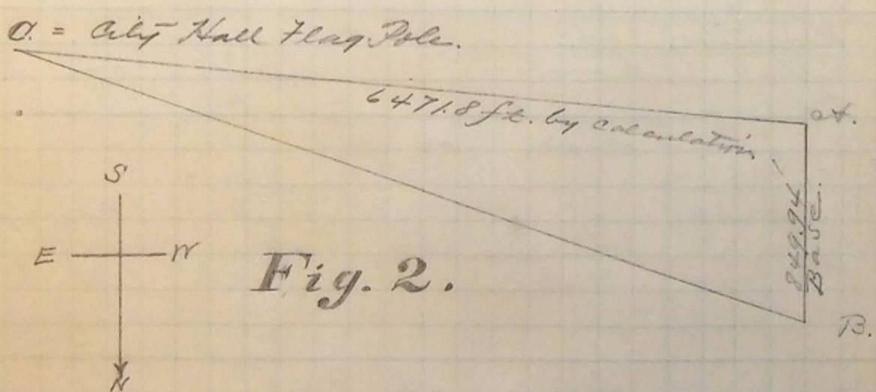

Fig. 2.

The calculation of Triangle Fig. 2. gives AC. = 6471.8 feet.
(log of AC = 3.811023)

Latitude of A.C. Fig. 2. = 733.1 feet
Departure of A.C. " " = 6430.1 "

Therefore the City Hall Spire is 6430.1 feet east of the Obs. Pier and 797.1 - 733.1 feet = 64.0 feet north of Same.

6430.1 feet at Ogden = 1' 24."15 of Longitude
64.0 " = 00' 00."632 of Latitude

	Vernier "A"				Vernier "B"				
	Quadrant				Quadrant				
	1	2	3	4	1	2	3	4	
	= Angle A. =								
96°	30 3/4'	30'	30 1/2'	30'	30 1/2'	30'	30 3/4'	29 1/2'	
	= Angle B. =								
76°	10 3/4'	10'	10 1/4'	09 3/4'	10'	10'	10 3/4'	09 3/4'	

The mean of the above gives for the angles: —

A = 96° 30.'25
B. = 76° 10.16
C = 7° 19.59
180° 00.00