Surveying Engineering Department
Ferris State University

SURE 110 – Fundamentals of Surveying **Lab #2**
Spring 2006/07

PURPOSE: The objective of this lab is to have the student apply taping principles to an actual situation

EQUIPMENT:

100 foot steel tape	Plumb Bob
Colored Chalk	Engineer's Rule
Clip Board	Field Book
Pencil/Straight Edge/Template	

PROCEDURE:

1. Measure the footprint of the Swan Building using the equipment listed above.

2. The ratio of precision shall be 1:1,500 or better. This is computed as follows:

$$E_{Close} = \sqrt{E_L^2 + E_D^2}$$

3. The sketch must accurately reflect the measurements made in the field. Show all work and computations.