

College of Industrial Technology
King Mongkut's University of Technology North Bangkok



Final Examination of Semester 1
Subject: 341131 Electrical Drawing I
Date: 2 October 2013

Year: 2013
Section: 5-6
Time: 10.00-12.00

Name:..... ID:..... Class:.....

Instructions

1. Cheating will result in failure of all classes registered for the current semester.
Students who are caught cheating will also be denied registering for the following semester.
 2. No documents are allowed to be taken out of the examination room.
 3. Textbook, calculator and dictionary are **NOT** allowed.
 4. Electronic communication devices are **NOT** allowed in the exam room.
 5. The examination has 5 pages (including this page), 1 problem and a total score of 30 points.
 6. Write all your answers on this exam sheet.
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1. One-line diagrams of first floor and second floor plans are shown in Figure 1 and Figure 2, respectively. Draw the control diagrams of all circuits for these floor plans. (30 points)

The first floor plan consists of:

- kWh meter
- Load center (LC)
- S1 and S2 control E1 and E2
- S3 controls E3 and E4
- S4 controls L1
- S5 controls L2 and L3
- S6 (on 1st floor) and S7 (on 2nd floor) control E5 and E6
- 3 plug sockets

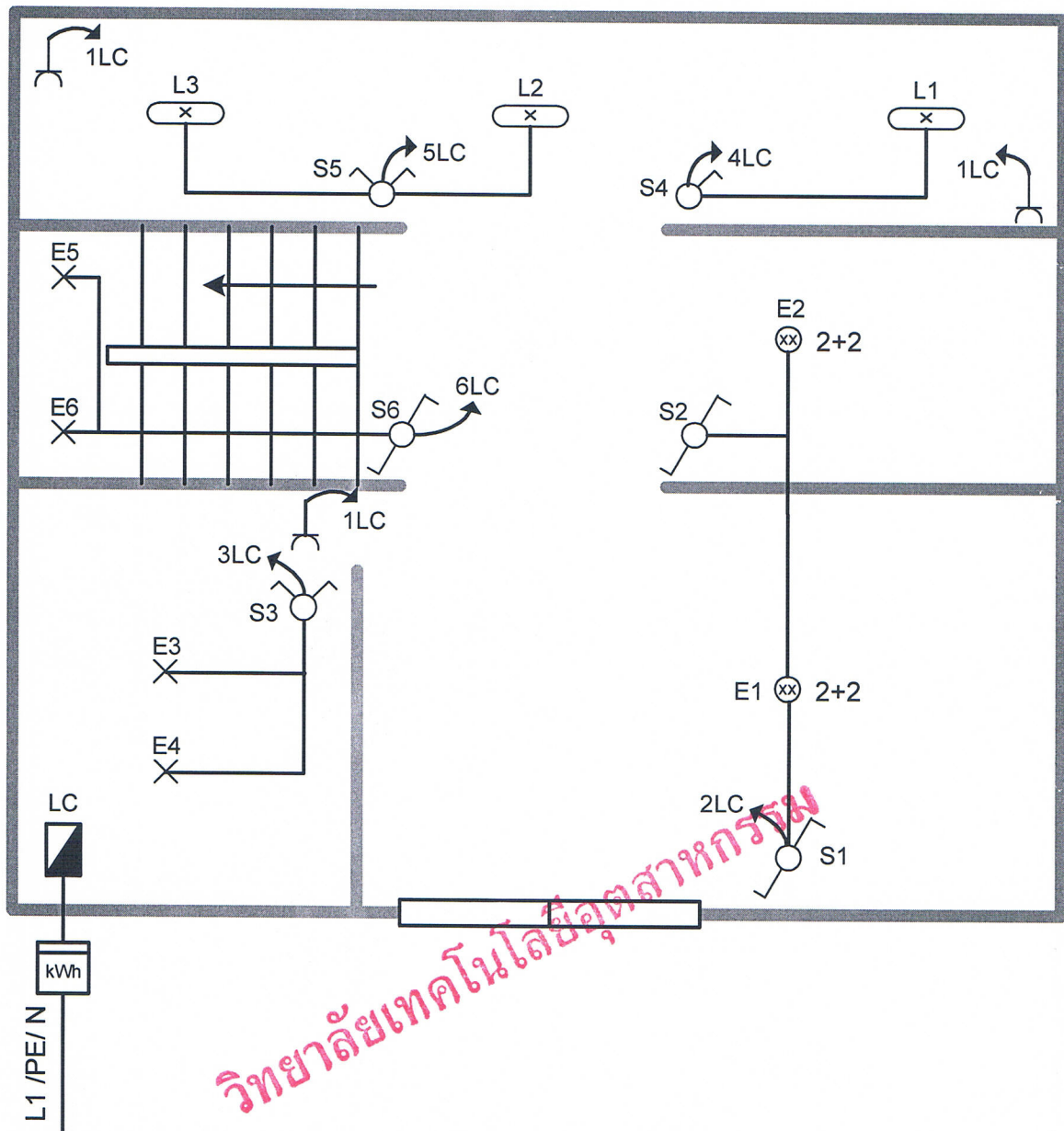


Figure 1: First Floor Plan

The second floor plan consists of:

- S8 controls E7 and E8
- S9 controls L4
- S10 controls L5
- S11 controls L6
- S12 and S13 control L7
- 4 plug sockets

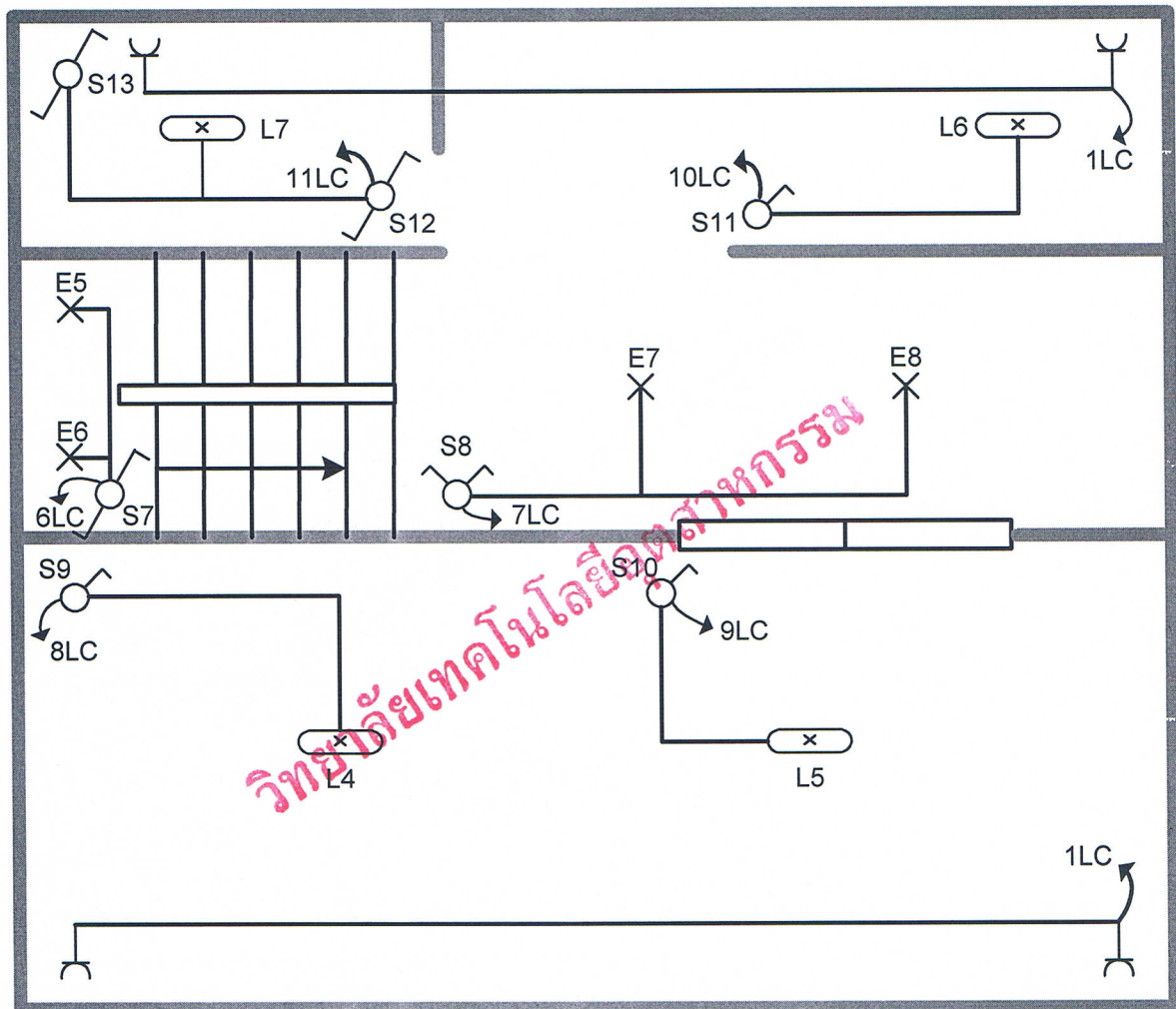


Figure 2: Second Floor Plan

Name..... ID.....

Control diagram of 1st floor plan

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Name..... ID.....

Control diagram of 2nd floor plan

วิทยาลัยเทคโนโลยีอุตสาหกรรม

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