



Final Examination of Semester 1

Year: 2014

Subject: 341131 Electrical Drawing I

Section: 5-6

Date: 12 December 2014

Time: 08.00-10.00

Name...... Field of Study......

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. No any electronic communication devices are allowed in the exam room.
- 5. The examination has 6 pages (including this page), 1 problem and a total score of 30 points.
- 6. Write all your answers on this exam sheet.

 1. One-line diagrams of first floor and second floor plans are shown in Figure 1 and Figure 2, respectively. Draw the control dragrams of all circuits for these floor plans. (30 points)
- The first floor plan is as follows.
 - kWh meter and Load center (LC) are installed.
 - S1 and S2 control L1 and L2.
 - S3 controls L3 and L4.
 - S4 controls L5 and L6.
 - S5 controls E1.
 - S6 controls E2.
 - S7 controls L7.
 - S8 (on $1^{\rm st}$ floor) and S9 (on $2^{\rm nd}$ floor) control L8.
 - 4 plug sockets are installed.

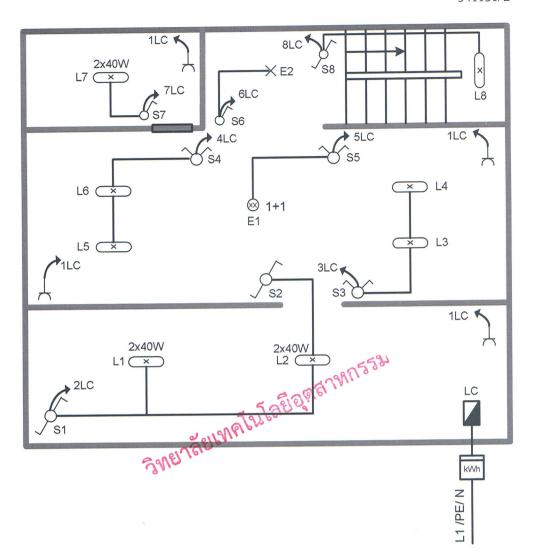


Figure 1: First Floor Plan

The second floor plan is as follows.

- S10 controls E3 and E4
- S11 and S12 control E5 and E8
- S13 controls E6 and E7
- S14 controls L9
- S15 controls L10
- S16 controls L11
- 5 plug sockets are installed.

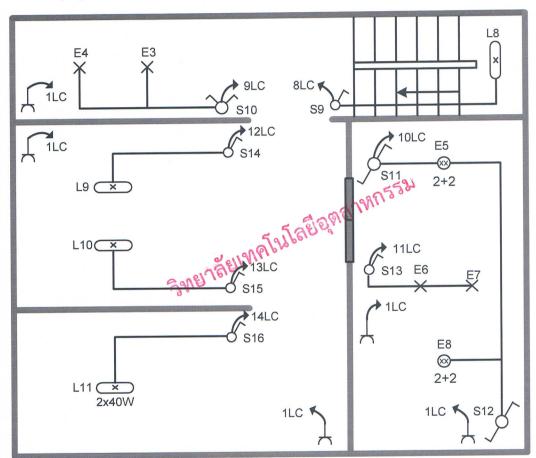


Figure 2: Second Floor Plan

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| Control diagram of 1 st floor plan (for 1LC-4LC) | |
| Control diagrams | |
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| Control diagram of 1 st floor plan (for 5LC-8LC) | | |
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| Control diagram of 2 nd floor plan | |
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Asst. Prof. Dr. Rattanakron Phadungthin Malinda Hongthong