



**Oregon State  
University**

**Construction Contracts  
Administration, Procurement  
Contracts & Materials  
Management (PCMM)**  
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9/7/2018

Oregon State University  
Construction Contract Administration  
Food Innovation Center Lighting Replacement

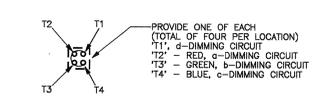
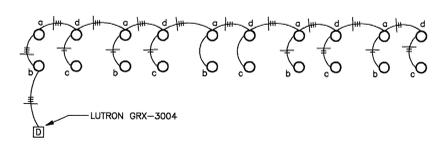
**ADDENDUM NO. 7**

THIS ADDENDUM IS BEING ISSUED for clarification and/or revisions of the drawings and specifications as noted. This document is hereby made a part of the Contract Documents to the extent as though it was originally included herein.

**The following changes shall be made:**

- Item 1 Added Food Innovation Center: Plan, First Floor Lighting drawing E2.3 dated March 12, 1997. FOR REFERENCE ONLY.
- Item 2 Added Food Innovation Center: Second Floor Lighting drawing E2.4 dated March 12, 1997. FOR REFERENCE ONLY.
- Item 3 Added Food Innovation Center: Riser Diagrams (Power/Data) and Details drawing E4.1 dated March 12, 1997. FOR REFERENCE ONLY.

**END OF ADDENDUM NO. 7**



NOTE: TYPICAL OF FIVE LOCATIONS

**2** SENSORY BOOTH TYPICAL  
E2.3 NTS

- DRAWING NOTES:**
- SWITCH TO CONTROL MULTIPLE LIGHT CIRCUITS. SEE DETAIL 2/E4.1 FOR CONTROL OF LIGHT CIRCUITS.
  - CONNECT VIA EXTERIOR LIGHTING CONTROLS. REFER TO DETAIL 3/E4.1.
  - PROVIDE OCCUPANCY SENSOR POWER PACK WITH AUXILIARY RELAY TO TELL THE ENERGY MANAGEMENT SYSTEM WHEN THE LIGHTS ARE OFF. RELAY COIL SHALL BE CONNECTED TO A SWITCH LEG BETWEEN THE OCCUPANCY SENSOR AND THE LIGHTS. ENERGY MANAGEMENT SYSTEM CONNECTION TO RELAY CONTACTS IS BY DIVISION 15 CONTRACTOR.
  - PROVIDE CONTROL CIRCUITS AS SHOWN IN DETAIL 2/E4.1. PROVIDE ONE CONTACT FOR EACH CIRCUIT ON HOME RUN OR SWITCH CONNECTED TO IT.
  - SECOND POLE FOR CONTROL OF HVAC FOR INDIVIDUAL ROOM. COORDINATE HVAC CONTROL WITH DIVISION 15.
  - PROVIDE LUTRON GRAFIK EYE #2500 GRX-2504 MULTI-SCENE PRESET DIMMER. CONTROL CIRCUITS g, h, i AND j ON SEPARATE CIRCUITS. PROVIDE ON/OFF NON DIMMED CONTROL OF CIRCUITS i AND j THROUGH ELECTRICAL CONTRACTOR PROVIDED RELAYS.
  - PROVIDE 2000W DIMMER FOR MAGNETIC LOW VOLTAGE LIGHT FIXTURES.

- GENERAL NOTES:**
- SEE DRAWING A6.1 FOR LIGHT FIXTURE LOCATIONS.

**1** PLAN FIRST FLOOR LIGHTING  
E2.3 1/8" = 1'-0"

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PROJECT NO: 99049.00

**FOOD INNOVATION CENTER**  
Oregon State University / Oregon Department of Agriculture  
Portland, Oregon



Drawing Title  
**PLAN,  
FIRST FLOOR  
LIGHTING**  
Revisions

Drawn by  
JGA  
Checked by  
JGA  
Date  
**MARCH 12, 1997**  
Project No  
9618  
Consultant Project No  
15041.00

Drawing No  
**E2.3**

Drawing Name: E2.3.DWG, H:\Food Innov., 96049\CAD\E2.3, 04-23-97 at 15:21



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**FOOD INNOVATION CENTER**  
Oregon State University / Oregon Department of Agriculture

Portland, Oregon



Drawing Title  
**PLAN,  
SECOND FLOOR  
LIGHTING**

Revisions

Drawn by  
JSA

Checked by  
JSA

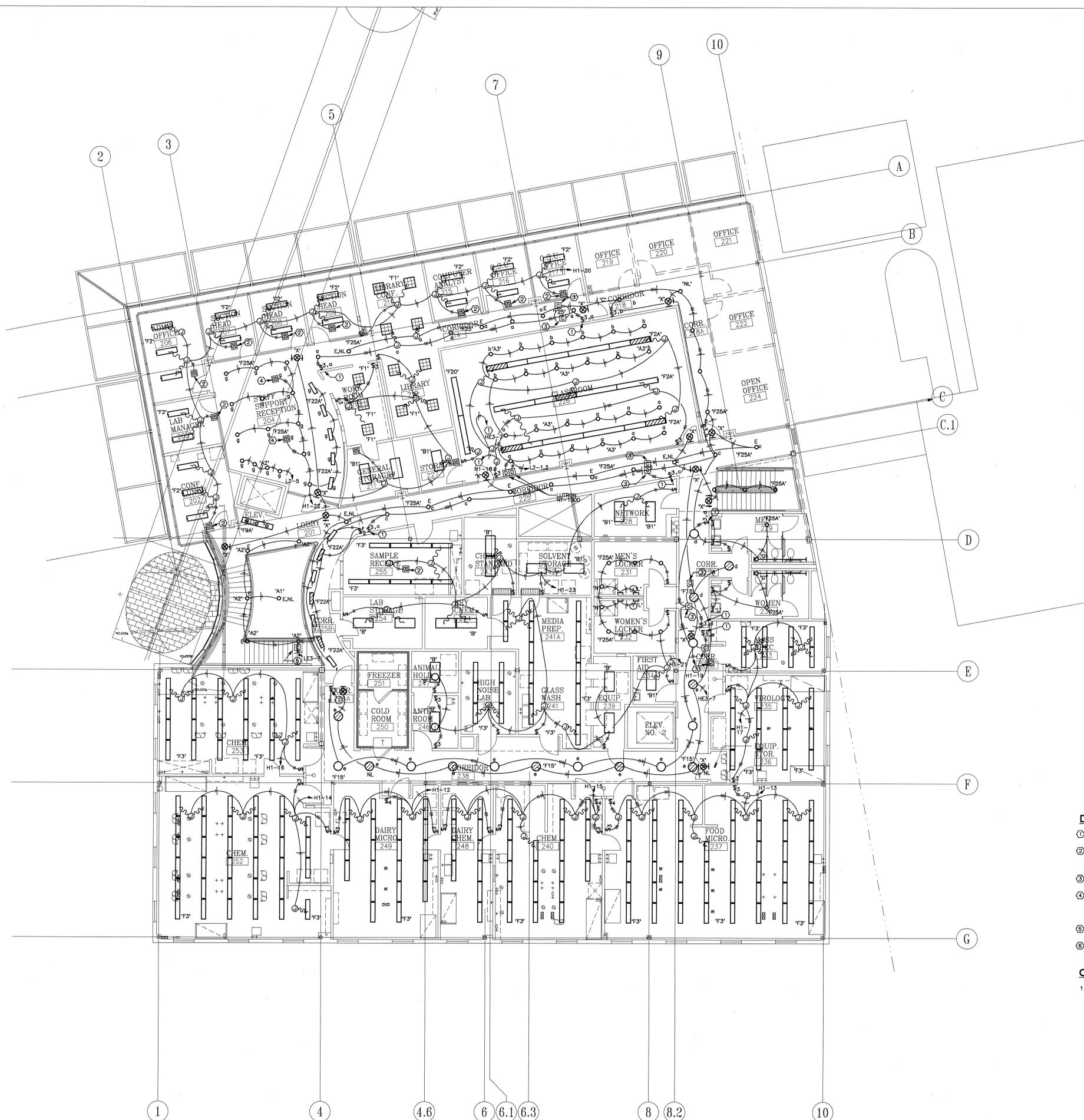
Date  
MARCH 12, 1997

Project No.  
9218

Consultant Project No.  
48044.00

Drawing No.

**E2.4**



- DRAWING NOTES:**
- 1 SWITCH TO CONTROL MULTIPLE LIGHT CIRCUITS, SEE DETAIL 2/E4.1 FOR CONTROL OF LIGHT CIRCUITS.
  - 2 PROVIDE A CONTROL RELAY TO TELL THE ENERGY MANAGEMENT SYSTEM WHEN THE LIGHTS ARE OFF. RELAY COIL SHALL BE CONNECTED TO A SWITCH LEG BETWEEN THE OCCUPANCY SENSOR AND THE LIGHTS. ENERGY MANAGEMENT SYSTEM CONNECTION TO RELAY CONTACTS IS BY DIVISION 15 CONTRACTOR.
  - 3 PROVIDE CONTROL CIRCUITS AS SHOWN IN DETAIL 2/34.1. PROVIDE ONE CONTACT FOR EACH CIRCUIT ON HOME RUN OR SWITCH CONNECTED TO IT.
  - 4 PROVIDE A CONTROL RELAY TO TELL THE ENERGY MANAGEMENT SYSTEM WHEN THE LIGHTS ARE OFF. RELAY COIL SHALL BE CONNECTED TO A SWITCH LEG BETWEEN THE OCCUPANCY SENSOR AND THE LIGHTS. ENERGY MANAGEMENT SYSTEM CONNECTION TO RELAY CONTACTS IS BY DIVISION 15 CONTRACTOR. PROVIDE EXTRA CONTACT TO CONTROL 120V LIGHTING IN ROOM.
  - 5 PROVIDE CONTROL CIRCUITS AS SHOWN IN DETAIL 2/E4.1. PROVIDE ONE CONTACT FOR EACH CIRCUIT ON HOME RUN. SWITCH TO CONTROL CIRCUITS IS LOCATED ON LOWER FLOOR. SEE DRAWING E2.3, DRAWING NOTE #1, FOR SWITCH LOCATION. CONNECT VIA EXTERIOR LIGHTING CONTROLS. REFER TO DETAIL 3/E4.1.
  - 6

**GENERAL NOTES:**  
1 SEE DRAWING A6.1 FOR LIGHT FIXTURE LOCATIONS.

**PLAN, SECOND FLOOR LIGHTING**

Drawing Name: \Food InE24.DWG; C:\DWG; 04-23-97 at 15:23



SRG Partnership, PC

Architecture  
Planning  
Interiors

621 SW Madison St

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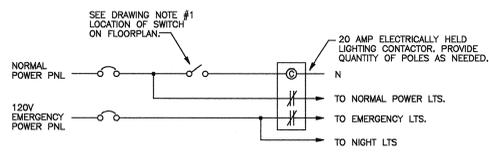
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T 503-222-1917

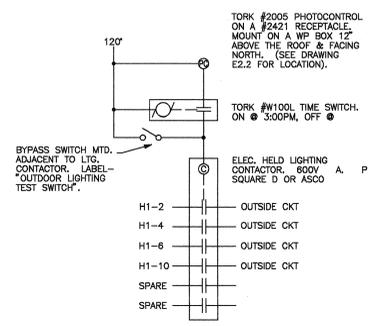
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PROJECT NO: 96048.00



LIGHTS ARE ON WHEN CONTACTOR IS DE-ENERGIZED.  
EMERGENCY LIGHTS ARE FORCED ON IF POWER FAILS.  
**2 LIGHTING CONTROLS**  
E4.1 NONE

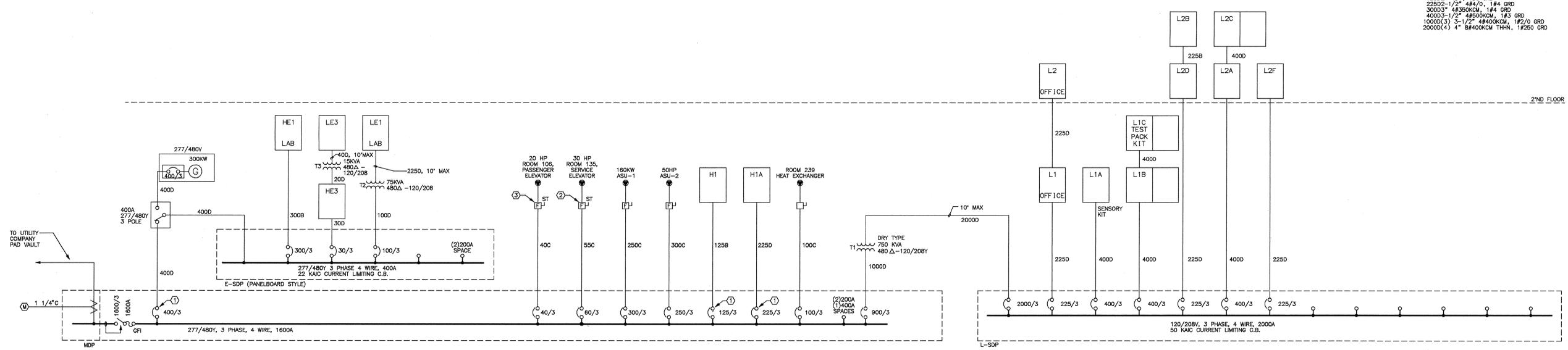


**3 EXTERIOR LIGHTING CONTROLS**  
E4.1 NONE

**FEEDER SCHEDULE**

FOR CONDUIT & WIRE SIZE

400'1"	3#6	1#10 GRD	
400'1"	4#8	1#10 GRD	
600'1"	1/2"	3#6, 1#10 GRD	
700'1"	1/2"	3#4, 1#8 GRD	
1000'1"	1/2"	2#2, 1#8 GRD	
1250'1"	1/2"	3#1, 1#8 GRD	
1250'2"	4#1	1#8 GRD	
2250'2"	1/2"	4#4/0, 1#4 GRD	
3000'3"	4#350KCM	1#4 GRD	
4000'3"	1/2"	4#200KCM, 1#3 GRD	
10000'3"	3"	1/2"	4#400KCM, 1#2/0 GRD
20000'4"	4"	8#400KCM THHN, 1#250 GRD	



**1 ONE-LINE DIAGRAM**  
E4.1 NONE

**DRAWING NOTES:**

- (1) PROVIDE 50 KAIC CURRENT LIMITING C.B.
- (2) PROVIDE BUSSMAN POWER MODULE SWITCH, 60 AMP FUSIBLE SHUNT TRIP SWITCH, WITH PRI & SEC FUSED CONTROL POWER TRANSFORMER, WITH ISOLATION RELAY (SPDT, 10A, 120V), WITH KEY TEST SWITCH. PROVIDE FUSING AND VOLTAGE AS REQUIRED, VERIFY BUSSMAN POWER MODULE SWITCH #PSB-TX-RX-K SERIES, OR ACCEPTED EQUIVALENT. CONNECT TO FIRE ALARM SYSTEM.
- (3) PROVIDE BUSSMAN POWER MODULE SWITCH, 40 AMP FUSIBLE SHUNT TRIP SWITCH, WITH PRI & SEC FUSED CONTROL POWER TRANSFORMER, WITH ISOLATION RELAY (SPDT, 10A, 120V), WITH KEY TEST SWITCH. PROVIDE FUSING AND VOLTAGE AS REQUIRED, VERIFY BUSSMAN POWER MODULE SWITCH #PSB-TX-RX-K SERIES, OR ACCEPTED EQUIVALENT. CONNECT TO FIRE ALARM SYSTEM.

**LOAD SUMMARY**

EQUIPMENT/RECEPTACLES (LAB)	487.2KW
ELEVATORS	55.5KW
MECHANICAL HYAC	515.5KW
RECEPTACLES (OFFICE)	50.5KW
LIGHTING	55.5KW
TOTAL	1164.7KW
480V, 3P	1378 A

LARGEST HVAC UNIT (W/COMPRESSORS): ASU-2: 199KW (50HP FAN & 120 TON UNIT)  
LARGEST LAB UNIT #185: 40KVA  
FUTURE WALK IN FREEZER/REFRIGERATOR LOAD APPROXIMATELY 80KW

**FOOD INNOVATION CENTER**  
Oregon State University / Oregon Department of Agriculture  
Portland, Oregon



Drawn Title  
**RISER DIAGRAMS**  
**(POWER/DATA)**  
**AND DETAILS**  
Revisions

Drawn by  
JSA  
Checked by  
JSA  
Date  
**MARCH 12, 1997**  
Project No  
**9518**  
Consultant Project No  
**96048.00**

Drawing No  
**E4.1**