LEGEND AND ABBREVIATIONS

(NOTE: THIS IS A MASTER SYMBOL LIST AND NOT ALL SYMBOLS INDICATED HAVE BEEN USED ON PLANS)

LIGHTING FIXTURES

Symbol	Description
	FLUORESCENT CEILING FIXTURE
	FLUORESCENT: OPEN STRIP
	CEILING SURFACE OR RECESSED DOWNLIGHT
	WALL MOUNTED FIXTURE OR SCONCE
	WALL WASHER
	TRACK MOUNTED FIXTURES (TRACK LENGTHS AS INDICATED WITH FITTINGS AND CONNECTORS AS REQUIRED)
	BOLLARD LUMINAIRE
	POLE OR POST MOUNTED CUTOFF LUMINAIRE
	EMERGENCY LIGHTING UNIT: MOUNT AT LOWER OF +96" AFF OR 12" BELOW CEILING
	COMBINATION EMERGENCY LIGHTING UNIT & EXIT LIGHT
, ETC.	EXIT LIGHT: FACES AND ARROWS AS INDICATED ON PLANS
	LOW LEVEL EXIT LIGHT: MOUNT AT BETWEEN +6" & +8" A.F.F. TO BOTTOM OF FIXTURE; & 4" MAX. FROM EDGE OF FIXTURE TO LATCH SIDE OF DOOR OR EXIT WAY OPENING.

RECEPTACLES

Symbol	Description
	SINGLE: 20A, 125V, NEMA 5–20R, +15" AFF TO BOTTOM UON
	DUPLEX: 20A, 125V, NEMA 5–20R, +15" AFF TO BOTTOM UON
	SINGLE: 30A, 250V, NEMA 6–30R, +15" AFF TO BOTTOM UON
	DOUBLE DUPLEX: 20A, 125V, NEMA 5–20R, +15" AFF TO BOTTOM UON
	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5–20R, +15" AFF TO BOTTOM UON (TOP HALF SWITCHED)
GFCI	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5–20R GFCI, +15" AFF TO BOTTOM UON
	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5–20R IG, +15" AFF TO BOTTOM UON (ORANGE DEVICE AND FACEPLATE)
	SPECIAL RECEPTACLE – AS INDICATED ON PLANS, +15" AFF TO BOTTOM UON
	CLOCK HANGER: MOUNTED AT +80" AFF UON

SIGNAL OUTLETS

Symbol	Description
	TELEPHONE OUTLET: 1–LINK, CAT6; +15" AFF TO BOTTOM UON
	TEL/DATA OUTLET: 3–LINKS, CAT6; +15" AFF TO BOTTOM UON
	DATA OUTLET: 2–LINKS, CAT6; +15" AFF TO BOTTOM UON
TV	TELEVISION OUTLET: +15" AFF TO BOTTOM UON
	CAMERA OUTLET
M	MICROPHONE OUTLET
V	VOLUME CONTROL OUTLET
S	SPEAKER: CEILING MOUNTED UON
CR	CARD READER: +48" AFF UON
DS	DOOR SECURITY: SYSTEM POWERED AND CONTROLLED, UON
WAP	WIRELESS ACCESS POINT

SWITCHES

Symbol	Description
$	SINGLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$2	DOUBLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$3	THREE WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$4	FOUR WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$T	TIMER SWITCH: 20A, 120V OR 277V, +48" AFF TO TOP UON
$P	'P' = PILOT LIGHT SWITCH (LIGHTED WHEN "ON"), +48" AFF TO TOP UON
$K	'K' = KEY OPERATED SWITCH, +48" AFF TO TOP UON
$M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD: 20A, 120V OR 277V
$MC	MOMENTARY CONTACT: 20A, 120V OR 277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON
$D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW–VOLTAGE)
LV	LOW VOLTAGE SWITCH–WALL MOUNTED AT +48" TO TOP UON
OS PW PW2	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF–AUTO SELECTOR – WALL MOUNTED AT +48" TO TOP UON
OS	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF–AUTO SELECTOR – CEILING MOUNTED
PC	PHOTOCELL ELECTRIC SWITCH: 1600VA UON

MISCELLANEOUS

Symbol	Description
T	THERMOSTAT: MOUNT AT +48' TO TOP UON (PER MECHANICAL PLANS)
F	EXHAUST FAN: FRACTIONAL HORSEPOWER
1	MOTOR: NUMBER = HORSEPOWER
EPO	EMERGENCY POWER OFF PUSH BUTTON
	GROUND ROD
	GROUND WELL

EQUIPMENT

Symbol	Description
	SWITCHBOARD
	PANELBOARD – SURFACE MOUNTED
	PANELBOARD – FLUSH MOUNTED
T	TRANSFORMER
R	RELAY
C	CONTACTOR
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/DISCONNECT
N	NON–FUSIBLE DISCONNECT SWITCH
F	FUSIBLE DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION BOX – SIZE AS REQUIRED BY NEC
	PLUG MOLD SURFACE RACEWAY AND DEVICES
TP	TELEPOWER POLE
P	POWER POLE

CIRCUITING

Symbol	Description
	IN WALL OR ABOVE CEILING
	IN FLOOR OR BELOW GRADE
— P —	CIRCUITING TYPE: T = TELEPHONE, C = CONTROL, S = SECONDARY, TV = TELEVISION, P = PRIMARY, OH = OVERHEAD SERVICE, FO = FIBER OPTIC
	STUB OUT: MARK AND CAP
	CIRCUITING UP
	CIRCUITING DOWN
	TICS = No. OF #12 WIRES IF MORE THAN TWO; // = NUMBER OF PHASE WIRES; / = GROUND WIRE; / = NEUTRAL WIRE; / = ISOLATED GROUND WIRE
A–1,3,5	HOMERUN = 1/2" C. UON, 4–#12, 1–#12G TO PANEL 'A', CIRCUIT No.s 1,3 AND 5

FIRE ALARM

Symbol	Description
FACP	FIRE ALARM CONTROL PANEL: SURFACE MOUNTED UON
FATC	FIRE ALARM TERMINAL CABINET: SURFACE MOUNTED UON
FARA	FIRE ALARM REMOTE ANNUNCIATOR: FLUSH MOUNTED UON
F	MANUAL PULL STATION: AT +48" TO TOP UON
FS	FIRE SPRINKLER WATER FLOW SWITCH
TS	FIRE SPRINKLER TAMPER SWITCH
SD	SMOKE DETECTOR: CEILING MOUNTED
HD	HEAT DETECTOR: CEILING MOUNTED
DD	DUCT SMOKE DETECTOR
	HORN: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	HORN AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
B	BUILDING MOUNTED ALARM BELL PER LOCAL CODE
DH	MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED, UON
FP	FIREFIGHTERS TELEPHONE OUTLET: MOUNTED AT +48" TO TOP UON
FSD	FIRE SMOKE DAMPER

DESIGNATIONS

Symbol	Description
F1; F1/3; F1/TYP	LIGHTING FIXTURE: F1 = TYPE, 3 = QTY., TYP = TYPICAL TYPES: A = INCANDESCENT, F = FLUORESCENT, H = HIGH INTENSITY DISCHARGE, X = EMERGENCY
1	SHEET NOTE
AC 1	MECHANICAL EQUIPMENT
XXX X1 X2 X3	FEEDER CIRCUITRY TAG: X1 = CONDUIT, X2 = FEEDER, X3 = GROUND
X/XX	DETAIL CALLOUT ON PLANS: X= DETAIL NUMBER, XX= SHEET NUMBER

SINGLE LINE AND SCHEMATICS

Symbol	Description
_AF _AT _P _AIC	CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP, P = POLE, AIC = AMPERES INTERRUPTING CAPACITY
_/3 --- FU	FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES, ___ = FUSE SIZE
_AF _AT _P _AIC	DRAWOUT CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP, P = POLE, AIC = AMPERES INTERRUPTING CAPACITY
_/3 --- FU	DRAWOUT FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES, ___ = FUSE SIZE
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
C	CONTACTOR COIL
R	RELAY COIL
	TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS)
	TRANSFORMER
PANEL	PANEL – SEE PANEL SCHEDULE FOR DETAILS
PANEL	PANEL WITH MAIN BREAKER – SEE PANEL SCHEDULE FOR DETAILS
1	MOTOR STARTER: NUMBER=NEMA STARTER SIZE
	MOTOR OVERLOADS
	CURRENT TRANSFORMERS
M	UTILITY COMPANY METER WITH CURRENT TRANSFORMERS
X	INDICATOR LIGHT: A=AMBER, G=GREEN, R=RED
GFR	GROUND FAULT RELAY
ST	SHUNT TRIP UNIT
A	AMMETER
V	VOLTMETER
PF	POWER FACTOR METER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH

METHODS

Symbol	Description
	SHADING INDICATES: FIXTURE ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
a,b a	LETTERS INDICATE FIXTURE CONTROLLED BY SWITCHES 'a' & 'b'.
$$	DEVICES MOUNTED IN A MULTIGANG BOX UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
	DEVICES MOUNTED IN OR ABOVE BACKSPLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
J	FLUSH FLOOR MOUNTED WIRING DEVICES
J	FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI–COMPARTMENT BOX
	RECEPTACLE MOUNTED IN CASEWORK
J	RECEPTACLE OR JUNCTION BOX MOUNTED IN CEILING
F	FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

ACCESS COMPLIANCE

Symbol	Description
AR	ILLUMINATED "AREA OF REFUGE" SIGN; MODEL # ADA–IS–UL BY "HOUSING DEVICES, INC."
2–WAY	ADA 100 MODULAR, HANDS FREE CALL SYSTEM AREA STATION. MODEL # HDI–ADA–AS BY "HOUSING DEVICES, INC."

ABBREVIATIONS

A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT: WITH PULLCORD IF OTHERWISE EMPTY
CB, C/B	CIRCUIT BREAKER
CLG	CEILING
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
FU	FUSE: DUAL–ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G,GND	GROUND
HOA	HAND–OFF–AUTOMATIC
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
INCAND	INCANDESCENT
Kcmil	THOUSAND CIRCULAR MILS (1in. = 1000MILS)
KW	KILOWATT
KVA	KILOVOLT AMPS
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MPOE	MINIMUM POINT OF ENTRY FOR TEL/DATA SERVICES
(N)	NEW
NACB	NON–ADJUSTABLE CIRCUIT BREAKER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N,NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
PNL	PANEL
PVC	POLYVINL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RGS	RIGID GALVANIZED STEEL
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
TYP	TYPICAL
UG	UNDER GROUND
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS
WP	WEATHER PROOF (NEMA 3R)
(X)	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–
–	–

DRAWING SCHEDULE

SHEET	DESCRIPTION	ISSUED FOR 100% DD DATE: 03/12/08	ISSUED FOR 50% CD DATE: 04/17/08	DSA SUBMITTAL DATE: 06/13/08	(1) 100% CONSTRUCTION DOCUMENT DATE: 08/01/08	(2) (3) DSA BACKCHECK DATE: 10/09/08	(4) COORDINATION–BULLETIN 4 DATE: 06/24/09	(5) OWNER CHANGES DATE: 09/01/09	(6) RFP–5–17 DATE:09/01/09 SPINNING RM LTG REV DATE:11/17/09	(7) IDF/MDF CAHNGES DATE: 12/01/09	(8) OCCUPANCY SENSORS REVISION PER WATTSTOPPER DATE: 01/12/10	(9) AREA OF REFUGE REVISIONS DATE: 01–25–10	(.) DRAWING OF RECORD DATE: 02–18–10
E0.01	LEGEND & ABBREVIATIONS, DRAWING SCHEDULE & EQUIPMENT NAMING LEGEND	○	○	○	○	○	○				○	○	●
E0.02	TITLE 24 COMPLIANCE FORMS			○	○	○	○						●
E0.02A	TITLE 24 COMPLIANCE FORMS CONTINUATION						○						●
E0.03	LIGHTING FIXTURE SCHEDULE	○	○	○	○	○	○		○			○	●
E0.04	FEEDER SCHEDULE			○	○	○							●
E0.05A	PANEL SCHEDULES			○	○	○	○	○	○	○			●
E0.05B	PANEL SCHEDULES			○	○	○	○			○			●
E0.05C	PANEL SCHEDULES AND LCP SCHEDULES			○	○	○	○						●
E2.01	LIGHTING PLAN – LEVEL 1 – WEST	○	○	○	○	○	○	○	○		○		●
E2.02	LIGHTING PLAN – LEVEL 1 – EAST	○	○	○	○	○	○		○		○		●
E2.03	LIGHTING PLAN – LEVEL 2 – WEST	○	○	○	○	○	○		○		○		●
E2.04	LIGHTING PLAN – LEVEL 2 – EAST	○	○	○	○	○	○				○	○	●
E2.05	LIGHTING PLAN – LEVEL 3 – WEST	○	○	○	○	○	○				○	○	●
E2.06	LIGHTING PLAN – LEVEL 3 – EAST	○	○	○	○	○	○				○	○	●
E2.07	LIGHTING PLAN – ROOF – WEST	○	○	○	○	○					○		●
E3.01	POWER PLAN – LEVEL 1 – WEST	○	○	○	○	○	○	○	○				●
E3.02	POWER PLAN – LEVEL 1 – EAST	○	○	○	○	○	○	○	○				●
E3.03	POWER PLAN – LEVEL 2 – WEST	○	○	○	○	○	○	○					●
E3.04	POWER PLAN – LEVEL 2 – EAST	○	○	○	○	○	○	○					●
E3.05	POWER PLAN – LEVEL 3 – WEST	○	○	○	○	○	○						●
E3.06	POWER PLAN – LEVEL 3 – EAST	○	○	○	○	○	○						●
E3.07	POWER PLAN – ROOF – WEST	○	○	○	○	○							●
E3.08	POWER PLAN – ROOF – EAST	○	○	○	○	○							
E4.01	SIGNAL PLAN – LEVEL 1 – WEST	○	○	○	○	○				○			●
E4.02	SIGNAL PLAN – LEVEL 1 – EAST	○	○	○	○	○	○		○	○			●
E4.03	SIGNAL PLAN – LEVEL 2 – WEST	○	○	○	○	○	○	○		○			●
E4.04	SIGNAL PLAN – LEVEL 2 – EAST	○	○	○	○	○	○		○	○		○	●
E4.05	SIGNAL PLAN – LEVEL 3 – WEST	○	○	○	○	○			○	○		○	●
E4.06	SIGNAL PLAN – LEVEL 3 – EAST	○	○	○	○	○			○	○		○	●
E5.01	SINGLE LINE DIAGRAM	○	○	○	○	○	○						●
E6.01	ELECTRICAL EQUIPMENTS DETAILS			○	○	○	○						●
E6.02	MISCELLANEOUS ELECTRICAL DETAILS			○	○	○	○						●
E6.03	MISCELLANEOUS ELECTRICAL DETAILS			○	○	○	○						●
E7.01	ENLARGE ELECTRICAL ROOM PLANS			○	○	○	○			○			●
FA0.00	DRAWING INDEX/ MISC. NOTES/ EQUIPMENT LIST		○	○	○	○							
FA0.01	MISCELLANEOUS FIRE ALARM DETAILS		○	○	○	○							
FA1.00	MIX FIRE ALARM CONTROL PANEL		○	○	○	○							
FA1.01	REMOTE ANNUNCIATOR PANEL DETAILS		○	○	○	○							
FA1.02	NAC EXTENDER PANEL WIRING DETAILS		○	○	○	○							
FA1.03	NAC EXTENDER PANEL BATTERY & VOLTAGE DROP CALCULATIONS		○	○	○	○							
FA1.04	TYPICAL WIRING DETAIL OF FIELD DEVICES		○	○	○	○							
FA2.00	FIRE ALARM RISER DIAGRAM			○	○	○							
FA3.00	FIRE ALARM PLAN – FIRST FLOOR AREA 1		○	○	○	○							
FA3.01	FIRE ALARM PLAN – FIRST FLOOR AREA 2		○	○	○	○							
FA3.02	FIRE ALARM PLAN – SECOND FLOOR AREA 1		○	○	○	○							
FA3.03	FIRE ALARM PLAN – SECOND FLOOR AREA 2		○	○	○	○							
FA3.04	FIRE ALARM PLAN – THIRD FLOOR AREA 1		○	○	○	○							
FA3.05	FIRE ALARM PLAN – THIRD FLOOR AREA 2		○	○	○	○							
FA3.06	FIRE ALARM PLAN – ROOF AREA 1		○	○	○	○							
FA3.07	FIRE ALARM PLAN – ROOF AREA 2			○	○	○							
SEC–0.00	COVER SHEET, GENERAL NOTES, SYMBOLS AND DRAWING INDEX		○	○	○	○	○						
SEC–1.01	SECURITY SYSTEM RISER DIAGRAM			○	○	○							
SEC–2.01	SECURITY SYSTEM CCTV POINT–TO–POINT DIAGRAM		○	○	○	○							
SEC–2.02	SECURITY SYSTEM ACAMS 2ND FLOOR MDF POINT–TO–POINT WIRING DIAGRAM		○	○	○	○	○						
SEC–2.03	SECURITY SYSTEM ACAMS 2ND FLOOR ACU POINT–TO–POINT WIRING DIAGRAM		○	○	○	○	○						
SEC–2.04	SECURITY SYSTEM ACAMS POWER SUPPLIES POINT–TO–POINT WIRING DIAGRAM						○						
SEC–3.01	SECURITY SYSTEM FIRST FLOOR DEVICE LAYOUT PLAN			○	○	○	○						
SEC–3.02	S3ECURITY SYSTEM SECOND FLOOR DEVICE LAYOUT PLAN						○						
SEC–3.03	SECURITY SYSTEM THIRD FLOOR DEVICE LAYOUT PLAN						○						
SEC–4.01	SECURITY SYSTEM MDF EQUIPMENT LAYOUT PLAN & ELEVATION			○	○	○	○						
SEC–5.01	SECURITY SYSTEM MISCELLANEOUS DETAIL SHEET 1						○						
SEC–5.02	SECURITY SYSTEM MISCELLANEOUS DETAIL SHEET 2						○						
SEC–6.01	SECURITY SYSTEM DOOR DETAILS SHEET 1						○						
SEC–6.02	SECURITY SYSTEM DOOR DETAILS SHEET 2						○						
SEC–6.03	SECURITY SYSTEM DOOR DETAILS SHEET 3						○						
SEC–7.01	SECURITY SYSTEM POINT SCHEDULES						○						

EQUIPMENT NAMING LEGEND

U 2 ATS/BUS/H/L/LCP/MCC/MSB/T/UPS 2 N 1/CF/CS/M 1 – 1,3,5

- 1,3,5: CIRCUIT NUMBER(S)
- 1: PANEL SECTION 1,2,3, OR 4.
- 1 / CF / CS / M:
  - 1 FIRST OF THIS TYPE IN THIS ELECTRICAL RISER.
  - CF COSMETOLOGY FRESHMEN AREA
  - CS COSMETOLOGY SENIOR AREA
  - M MDF ROOM
- N: RISER CLOSET(COMPASS DIRECTION: E,W,N,S)
- 2: FLOOR LEVEL
- ATS / BUS / H / L / LCP / MCC / MSB / T / UPS:
  - ATS AUTOMATIC TRANSFER SWITCH
  - BUS BUSWAY
  - H PANELBOARD 277/480V
  - L PANELBOARD 120/208V
  - LCP LIGHTING CONTROL PANEL
  - MCC MOTOR CONTROL CENTER
  - MSB MAIN SWITCHBOARD
  - T TRANSFORMER
  - UPS UNINTERRUPTABLE POWER SUPPLY
- 2: FLOOR LEVEL
- U: UPS POWER

McCARTHY
LPA
KH

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STATE OF CALIFORNIA

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2 3	DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP–5–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

Legend & Abbreviations
Drawing Schedule
Equipment Naming Legend

E0.01

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME COLLEGE OF SAN MATEO BLDG. 5N	DATE 07-15-09
PROJECT ADDRESS SAN MATEO, CA	Building Permit
PRINCIPAL DESIGNER-LIGHTING ROSENDIN ELECTRIC — TELEPHONE 408-286-2800	
DOCUMENTATION AUTHOR SUSAN FERMIL — TELEPHONE 408-321-2200	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS	05-27-08	BUILDING CONDITIONED FLOOR AREA	89,483 SQ. FT.	CLIMATE ZONE	3
BUILDING TYPE	☒ NONRESIDENTIAL	☐ HIGH RISE RESIDENTIAL		☐ HOTEL/MOTEL GUEST	
☒ CONDITIONED SPACES	☐ UNCONDITIONED SPACES	☐ INDOOR / OUTDOOR SIGNS			
PHASE OF CONSTRUCTION	☒ NEW	☐ ADDITION	☐ ALTERATION		

METHOD OF COMPLIANCE

☐ PERFORMANCE ☐ COMPLETE BUILDING ☒ AREA CATEGORY ☐ TAILORED ☐ COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
SUSAN FERMIL		

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements contained in applicable parts of Sections 110, 119,130–132, 146, 148, & 149 of Title 24, Part 6.

☐ The plans & specifications meet the requirements of Part 6 (Sections 10-103a). ☐ The installation certificates meet the requirements of Part 6 (10-103a 3).

☐ The operation & maintenance information meet the requirements of Part 6 (10-103c).
Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

☐ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER-NAME	SIGNATURE	DATE	LIC. #
ERNESTO HERNANDEZ			E015390

LIGHTING MANDATORY MEASURES

✔ ☐ Indicate location on plans of Note Block for Mandatory Measure

LIGHTING COMPLAINCE FORMS & WORKSHEETS (check box if worksheet is included)

☒ LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals
☐ LTG-1-C, Part 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
☒ LTG-1-C, Part 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
☒ LTG-2-C	Indoor Lighting Schedule
☒ LTG-3-C	Portable Lighting Worksheet
☒ LTG-4-C	Lighting Controls Credit Worksheet
☒ LTG-5-C	Indoor Lighting Power Allowance
☐ LTG-6-C	Tailored Method Worksheet
☐ LTG-7-C	Room Cavity Ratio Worksheet
☐ LTG-8-C	Common Lighting Systems Method Worksheet
☐ LTG-9-C	Line Voltage Track Lighting Worksheet
☐ OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N — DATE: 07-15-09

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	68,317.0
PORTABLE LIGHTING (From LTG-3-C)	+ 966.0
LIGHITNG CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	- 4,330.35
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= **64,952.65**
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	
LIGHITNG CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

✔

☐ **COMPLETE BUILDING METHOD (from LTG-5-C)**

☒ **AREA CATEGORY METHOD (from LTG-5-C)**

☐ **TAILORED METHOD (from LTG-5-C)**

ALLOWED LIGHTING POWER — ALLOWED WATTS: **92,810.0**

ALTERNATE COMPLIANCE

✔

☐ **PERFORMANCE METHOD**

☐ **COMMON LIGHTING SYSTEM (from LTG-8-C)**

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C) ______ Watts

MANDATORY LIGHTING MEASURES FOR INDOOR LIGHTING AND DAYLIT AREAS
MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimmimg, Photosensor, etc.)	SPACE CONTROLLED Lists the location of controlled lights	✔ If Control is for Daylighting	NOTE TO FIELD
1ST Flr Elec Rm	LCP1	CONTROL PANEL	Corrodors, Lobby, Exercise		
2nd Flr Elec Rm	LPC2	CONTROL PANEL	Corrodors, Lobby		
3rd Flr Elec Rm	LPC3	CONTROL PANEL	Corrodors, Lobby		
	OS	Occupancy Sensor	All Other Areas.		
1st Flr East	LV	L.V. SWITCH	140A 140D, 140F		

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N — DATE: 07-15-09

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Description	Test Performed By:
✔ ☒ LTG-2-A: Lighting Control Acceptance Document • Occupancy Sensor Acceptance • Manual Daylight Controls Acceptance • Automatic Time Switch Control Acceptance Equipment requiring acceptance testing: OCCUPANCY SENSORS;LCP1;LCP2;LCP3	
✔ ☐ LTG-3-A: Automatic Daylighting Controls Acceptance Document Equipment requiring acceptance testing ______	

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N — DATE: 07-15-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire		Lamps/Ballasts				Installed Watts			
A	B	C	D	E	F	G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✔ If CEC Default	Number of Luminaires	Installed Watts (H x I)
F1MS	SEE FIXTURE SCHEDULE	F32T8	3	32	1.5	70.5		42	2961
F1S	SEE FIXTURE SCHEDULE	F32T8	3	32	2	72		56	4032
F1G	SEE FIXTURE SCHEDULE	F32T8	3	32	2	72		11	792
F1AMS	SEE FIXTURE SCHEDULE	F32T8	3	32	1.5	70.5		134	9447
F1AS	SEE FIXTURE SCHEDULE	F32T8	3	32	2	72		14	1008
F2AS	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		3	141
F2MS	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		2	94
F2S	SEE FIXTURE SCHEDULE	F32T8	2	32	2	47		20	940
F2G	SEE FIXTURE SCHEDULE	F32T8	2	32	2	47		8	376
F3	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		19	893
F3A	SEE FIXTURE SCHEDULE	F17T8	3	17	2	37		1	37
F3B	SEE FIXTURE SCHEDULE	F32T8	3	32	2	72		6	432
F4G	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		18	846
F4GA	SEE FIXTURE SCHEDULE	F54 T5HO	2	32	1	117		6	702
F5	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		152	7144
F5A	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		72	3384
F5B	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		39	1833
F6	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		30	1410
F6A	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		1	47
F7-8'	SEE FIXTURE SCHEDULE	F32T8	4	32	2	94		74	6956
F7A	SEE FIXTURE SCHEDULE	F32T8	2	32	2	47		4	188
F8	SEE FIXTURE SCHEDULE	F54T5HO	2	54	1	117		16	1872

PAGE TOTAL	**45,535.0**
BUILDING TOTAL (sum of all pages)	+ 68,317.0
PORTABLE LIGHTING (From LTG-3-C)	+ 966.0
CONTROL CREDIT (from LTG-4-C)	- 4,330.35
ADJUSTED ACTUAL WATTS	= **64,952.65**

INDOOR LIGHTING SCHEDULE (Part 1 of 2 continuation 1) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N — DATE: 07-15-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire		Lamps/Ballasts				Installed Watts			
A	B	C	D	E	F	G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✔ If CEC Default	Number of Luminaires	Installed Watts (H x I)
F10, F10F	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		127	5,715
F10A	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		2	90
F10B	SEE FIXTURE SCHEDULE	F32T8	1	26	1	28		8	224
F10D	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		2	90
F12	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		72	3,240
F13	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		5	225
F13A	SEE FIXTURE SCHEDULE	F32T8	1	42	1	45		6	270
F14	SEE FIXTURE SCHEDULE	F32T8	1	26	1	28		4	112
F14A	SEE FIXTURE SCHEDULE	F32T8	2	42	1	90		26	2,340
F16(4')	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		34	1,598
F16(8')	SEE FIXTURE SCHEDULE	F32T8	4	32	1	94		1	94
F18	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		12	564
F19 (4')	SEE FIXTURE SCHEDULE	F32T8	1	32	1	23.5		8	188
F19	SEE FIXTURE SCHEDULE	F32T8	1	32	1	23.5		16	376
F19A, F19(8')	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		13	611
F19B, F19B (8')	SEE FIXTURE SCHEDULE	F32T8	4	32	1	94		2	188
F20, F20SL, F20DL	SEE FIXTURE SCHEDULE	F32T8	2	32	1	47		11	517
F22	SEE FIXTURE SCHEDULE	26 CFL	1	26	1	28		14	392
F23	SEE FIXTURE SCHEDULE	26 CFL	2	26	1	56		9	504
F24-8'	SEE FIXTURE SCHEDULE	F32T8	4	32	1	94		1	94
F26	SEE FIXTURE SCHEDULE	26 CFL	1	26	1	28		3	84
F28-4'	SEE FIXTURE SCHEDULE	F28T5	2	28	1	64		15	960

PAGE TOTAL	**18,476.0**
BUILDING TOTAL (sum of all pages)	+ 68,317.0
PORTABLE LIGHTING (From LTG-3-C)	+ 966.0
CONTROL CREDIT (from LTG-4-C)	- 4,330.35
ADJUSTED ACTUAL WATTS	= **64,952.65**

INDOOR LIGHTING SCHEDULE (Part 1 of 2 continuation 2) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N — DATE: 07-15-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire		Lamps/Ballasts				Installed Watts			
A	B	C	D	E	F	G	H	I	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✔ If CEC Default	Number of Luminaires	Installed Watts (H x I)
F28-8'	SEE FIXTURE SCHEDULE	F28T5	4	28	1	128		3	384
F30	SEE FIXTURE SCHEDULE	F21T5	1	21	1	25		2	50
A	SEE FIXTURE SCHEDULE	1F28T5	1	28	1	32		9	288
A1	SEE FIXTURE SCHEDULE	1F28T5	1	28	1	32		72	2,304
A2	SEE FIXTURE SCHEDULE	4F28T5	4	28	1	128		10	1,280

PAGE TOTAL	**4,306.0**
BUILDING TOTAL (sum of all pages)	+ 68,317.0
PORTABLE LIGHTING (From LTG-3-C)	+ 966.0
CONTROL CREDIT (from LTG-4-C)	- 4,330.35
ADJUSTED ACTUAL WATTS	= **64,952.65**

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. NO. 01-109870

REGISTERED PROFESSIONAL ENGINEER — WILLIAM P. MAZZETTI — ELECTRICAL — STATE OF CALIFORNIA

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College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
1	DSA Submittal	06/13/08
2	100% Coordination Documents	08/01/08
3	DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP–5–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

TITLE 24 COMPLIANCE

E0.02

PORTABLE LIGHTING WORKSHEET LTG-3-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N | DATE: 07-15-09

TABLE 1 – PORTABLE LIGHTING NOT SHOWN ON PLANS
FOR OFFICE AREA > 250 SQUARE FEET

A	B	C	D
ROOM # OR ZONE ID	DEFAULT	AREA (ft^2)	TOTAL WATTS (B X C)
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	TOTAL		

TABLE 2 – PORTABLE LIGHTING SHOWN ON PLANS
FOR OFFICE AREA > 250 SQUARE FEET

A	B	C	D	E	F	G
ROOM # OR ZONE ID	PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA	LUMINAIRE(S) WATTS PER TASK AREA	TASK AREA (ft^2)	NUMBER OF TASK AREAS	TOTAL AREA (ft^2) (D X E)	TOTAL WATTS (C X E)
1ST FLR-RM'S: 5-131, 5-131A, 5-131B, 5-132, 5-170C	FIXT. TYPE"F32: 36"-21WT5 FLUOR. , RAPID START	21W	12.5 sq.ft.	8	100 sq. ft.	168 w
2ND FLR-RM'S: 5-269, 5-271, 5-273, 5-275, 5-277	FIXT. TYPE"F32: 36"-21WT5 FLUOR. , RAPID START	21W	12.5 sq.ft.	8	100 sq. ft	168 w
3RD FLR-RM'S: 5-306 5-325, 5-327, 5-329, 5-331, 5-333, 5-335, 5-341, 5-343, 5-361, 5-361A, 5-363, 5-365, 5-367, 5-369, 5-341, 5-373	FIXT. TYPE"F32: 36"-21WT5 FLUOR. , RAPID START	21W	12.5 sq.ft.	30	375 sq. ft	630 w
				TOTAL	575 sq. ft.	966 w

TABLE 3 – PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED
FOR OFFICE AREAS > 250 SQUARE FEET

ROOM # OR ZONE ID	TOTAL AREA (ft^2)	Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types and mounting locations relative to work areas.
TOTAL AREA		

BUILDING SUMMARY

BUILDING SUMMARY	TOTAL AREA (ft^2)	TOTAL WATTS
BUILDING TOTAL (SUM OF TABLES 1, 2 ,3)	575 sq. ft.	966 w

Enter in LTG-2-C: Portable Lighting

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N | DATE: 07-15-09

A	B	C	D	E (DAYLIGHTING)	F (DAYLIGHTING)	G (DAYLIGHTING)	H	I	J
ROOM #, ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
RM. 5-131	OS	E2.01	223				216	.2	43.2
RM. 5-131A	OS	E2.01	148				144	.2	28.8
RM. 5-131B	OS	E2.01	91				94	.2	8.8
RM. 5-132	OS	E2.01	145				144	.2	28.8
RM. 5-155	OS	E2.01	224				216	.2	43.2
RM. 5-160F	OS	E2.02	2,473				1,974	.1	197.4
RM. 5-160G	OS	E2.02	5,577				1,410	.1	141.1
RM. 5-170	OS	E2.02	2,042				1,165	.1	116.5
RM. 5-170C	OS	E2.02	277				188	.1	18.8
RM. 5-202	OS	E2.03	1,678				1,848	.1	184.8
RM. 5-240	OS	E2.03	356				188	.1	18.8
RM. 5-253	OS	E2.03	1,028				969	.1	96.9
RM. 5-259	OS	E2.03	817				564	.1	56.4
RM. 5-220	OS,DIM	E2.03	1,374				1,128	.25	282.0
RM. 5-255	OS,DIM	E2.03	1,151				795	.25	198.75
RM. 5-257	OS,DIM	E2.03	1,611				282	.25	70.5
RM. 5-290	OS	E2.03	1,154				1,170	.1	117.0
RM. 5-270,280	OS	E2.04	6,832				6,987	.1	698.7
RM. 5-269	OS	E2.04	137				94	.2	18.8
RM. 5-271	OS	E2.04	113				94	.2	18.8
RM. 5-273	OS	E2.04	113				94	.2	18.8
RM. 5-275	OS	E2.04	179				94	.2	18.8
RM. 5-277	OS	E2.04	179				94	.2	18.8
RM. 5-312	OS	E2.05	2,118				1,698	.1	169.8
RM. 5-314	OS	E2.05	1,018				849	.1	84.9

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 2,699.15
BUILDING TOTAL → 4,330.35

Enter in LTG-2-C: Lighting Control Credit

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C
(CONTINUATION – 1)

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N | DATE: 07-15-09

A	B	C	D	E (DAYLIGHTING)	F (DAYLIGHTING)	G (DAYLIGHTING)	H	I	J
ROOM #, ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
RM. 5-308	OS	E2.05	138				94	.1	9.4
RM. 5-306	OS	E2.05	138				940	.1	9.4
RM. 5-304	OS	E2.05	206				270	.1	27.0
RM. 5-302	OS	E2.05	445				188	.1	18.1
RM. 5-343	OS	E2.05	125				144	.1	14.4
RM. 5-341	OS	E2.05	287				141	.1	14.4
RM. 5-339	OS	E2.05	584				564	.1	56.4
RM. 5-337	OS	E2.05	390				282	.1	28.2
RM. 5-335	OS	E2.05	173				144	.1	14.4
RM. 5-333	OS	E2.05	173				144	.1	14.4
RM. 5-331	OS	E2.05	173				144	.1	14.4
RM. 5-329	OS	E2.05	140				144	.1	14.4
RM. 5-325	OS	E2.05	164				144	.1	14.4
RM. 5-305	OS	E2.05	300				288	.2	57.6
RM. 5-305G	OS	E2.05					144	.2	28.8
RM. 5-330	OS	E2.05	1,440				1,134	.2	226.8
RM. 5-340	OS	E2.05	120				94	.2	18.8
RM. 5-352	OS	E2.05	1,067				1,027	.2	205.4
RM. 5-361	OS	E2.06	148				144	.2	28.8
RM. 5-361A	OS	E2.06	142				144	.2	28.8
RM. 5-363	OS	E2.06	167				144	.2	28.8
RM. 5-365	OS	E2.06	167				144	.2	28.8
RM. 5-367	OS	E2.06	167				144	.2	28.8
RM. 5-369	OS	E2.06	167				144	.2	28.8
RM. 5-360,370,380	OS	E2.06	2,242				1,596	.2	319.2
RM. 5-360A	OS	E2.06	96				144	.2	28.8

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 1,307.5
BUILDING TOTAL → 4,330.35

Enter in LTG-2-C: Lighting Control Credit

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C
(CONTINUATION – 2)

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N | DATE: 07-15-09

A	B	C	D	E (DAYLIGHTING)	F (DAYLIGHTING)	G (DAYLIGHTING)	H	I	J
ROOM #, ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
RM. 5-380B	OS	E2.06	96				144	.2	28.8
RM. 5-371	OS	E2.06	167				144	.2	28.8
RM. 5-354	OS	E2.06	11,259				1,401	.1	140.1
RM. 5-390	OS	E2.06	1,131				1,260	.1	126.0

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 323.7
BUILDING TOTAL → 4,330.35

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 5N | DATE: 07-15-09

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD– CONDITIONED SPACES

BUILDING CATEGORY (From § 146 Table 146-B)	WATTS PER (ft^2)	COMPLETE BLDG. AREA	ALLOWED WATTS

AREA CATEGORY METHOD – CONDITIONED SPACES

A	B	C	D
AREA CATEGORY (From § 146 Table 146-C)	WATTS PER (ft^2)	AREA (ft^2)	ALLOWED WATTS
CLASSROOMS, LECTURE, TRAINING, VOCATIONAL ROOMS	1.2	36,785	44,142
CONFERENCE AND MEETING ROOMS	1.4	1,094	1,532
CORRIDORS. RESTROOMS, STAIRS, SUPPORT AREAS	.6	19,761	11,856
DINING	1.1	998	1,098
ELECTRICAL AND MECHANICAL ROOMS	.7	1,132	792
RETAIL	1.7	85	145
FOOD PREPARATION	1.6	262	419
LAUNDRY	.9	107	96
LOBBIES	1.1	11,726	12,899
LOCKER ROOMS AND DRESSING ROOMS	.8	2,521	2,017
LOUNGE AND WAITING AREAS	1.1	1,457	1,603
DENTAL CLINICAL CARE AND NURSING MOCK-UP	1.2	6,504	7,805
OFFICES	1.2	7,005	8,406
	TOTALS	89,483 AREA	92,810 WATTS

TAILORED METHOD– CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES

A	B	C	D
Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	WATTS PER (ft^2)	AREA (ft^2)	ALLOWED WATTS
	TOTALS	AREA	WATTS

TAILORED METHOD– UNCONDITIONED SPACES

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C)

LIGHTING MANDATORY MEASURES

1. "BUILDING LIGHTING SHUTOFF"
THE PROJECT USES OCCUPANCY USES LIGHTING CONTROL PANELS FOR CONTROL OF CORRIDORS, LOBBIES, AND EXERCISE AREAS. THE PROJECT USES OCCUPANCY SENSORS TO CONTROL ALL OTHER AREAS.

2. "OVERRIDE FOR BUILDING LIGHTING SHUTOFF"
AREAS CONTROLLED BY LIGHTING CONTROL PANELS SHALL HAVE SWITCHES THAT WILL OVERIDE THE BUILDING LIGHTING AUTOMATIC SHUT OFF.

3. "AUTOMATIC CONTROL DEVICES CERTIFIED"
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

4. "FLUORESCENT BALLAST AND LUMINARIES CERTIFIED"
ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.

5. "TANDEM WIRING FOR TWO–LAMP BALLAST'S"
ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH (2)–LAMP BALLAST WHERE REQUIRED BY STANDARDS #132".

6. INDIVIDUAL ROOM AREA CONTROLS"
EACH ROOM AND AREA IN THIS PROJECT IS EQUIPPED WITH OCCUPANCY SENSOR DEVICES AND OR WALL SWITCHE CONTROLS FOR EACH AREA WITH FLOOR–TO–CEILING WALLS

7. "UNIFORM REDUCTION FOR INDIVIDUAL ROOM"
ROOMS OVER 100 SQ.FT. WITH LIGHTING LOADS OVER .8 WATTS PER SQ.FT. AND HAS ONE MORE LUMINAIRE SHALL HAVE BI–LEVEL SWITCHING. CORRIDORS ARE EXEMPT OF THIS REQUIREMENT.

8. "DAYLIT AREA CONTROL"
ROOMS GREATER THAN 250 SQ. FT. WITH WINDOWS HAVE SEPARATE SWITCHING OF HALF THE LAMPS WITHIN 15 FEET FROM THE WINDOWS.

9. "CONTROL OF EXTERIOR LIGHTS"
EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL AND/OR TIMECLOCK.

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APPL. NO. 01-109870

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College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2, 3	DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP–5–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

TITLE 24 COMPLIANCE

E0.02A

LIGHTING FIXTURE SCHEDULE - BLDG 5N

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:	
F1MS	2' X 4' X 6" HIGH RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE WITH MASTER/SLAVE PAIRED WIRING, ROUND PERFORATED WHITE STEEL LAMPS SHIELD, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START .71 BF BALLASTS.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ECO3-ER82/MS(OSI 1EA QTP4X32T8/UNV PSX-SC & 1EA QTP2X32T8/UNV PSX-TC)-PALC-EQ	277	3-F32T8/835 3500 K FLUOR.	70.5		
F1S	SIMILAR TO TYPE 'F1MS', BUT SINGLE FIXTURE.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ECO3-ER82(OSI 1EA QTP2X32T8/UNV PSX-TC & 1EA QTP1X32T8/UNV PSX-TC)-PALC-EQ	277	3-F32T8/835 3500 K FLUOR.	72		
F1G	SIMILAR TO TYPE 'F1S', BUT IN GYPSUM BOARD CEILING.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ECO3-ER82(OSI 1EA QTP2X32T8/UNV PSX-TC & 1EA QTP1X32T8/UNV PSX-TC)-PALC DF-24-W GYP BRD FLANGE KITS	277	3-F32T8/835 3500 K FLUOR.	72		
F1AMS	SIMILAR TO TYPE 'F1MS', BUT WITH 5000 DEGREE KELVIN LAMPS.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/850/XPS/ECO3-ER82/MS(OSI 1EA QTP4X32T8/UNV PSX-SC & 1EA QTP2X32T8/UNV PSX-TC)-PALC-EQ	277	3-F32T8/850 5000 K FLUOR.	70.5		
F1AS	SIMILAR TO TYPE 'F1S', BUT WITH 5000 DEGREE KELVIN LAMPS.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/850/XPS/ECO3-ER82(OSI 1EA QTP2X32T8/UNV PSX-TC & 1EA QTP1X32T8/UNV PSX-TC)-PALC-EQ		3-F32T8/850 5000 K FLUOR.	72		
F2AMS	2' X 4' X 6" HIGH RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE WITH MASTER/SLAVE PAIRED WIRING, 2-CIRCUIT, ROUND PERFORATED WHITE STEEL SHIELD, UNIVERSAL VOLTAGE SINGLE ELECTRONIC PROGRAM RAPID START .71 BF BALLAST.	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/850/XPS/ECO3- * ER82/MS(OSI 2EA QTP2X32T8/UNV PSX-TC)-PALC-EQ	277	2-F32T8/850 5000 K FLUOR.	47		4
F2AS	SIMILAR TO TYPE 'F2MS', BUT SINGLE FIXTURE	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/850/XPS/ECO3- * ER82(OSI 2EA QTP1X32T8/UNV PSX-TC)-PALC-EQ	277	2-F32T8/850 5000 K FLUOR.	47		
F2MS	2' X 4' X 6" HIGH RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE WITH MASTER/SLAVE PAIRED WIRING, 2-CIRCUIT, ROUND PERFORATED WHITE STEEL SHIELD, UNIVERSAL VOLTAGE SINGLE ELECTRONIC PROGRAM RAPID START .71 BF BALLAST.	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/835/XPS/ECO3-ER82/MS(OSI 2EA QTP2X32T8/UNV PSX-TC)-PALC-EQ	277	2-F32T8/835 3500 K FLUOR.	47		
F2S	SIMILAR TO TYPE 'F2MS', BUT SINGLE FIXTURE	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/835/XPS/ECO3-ER82(OSI 2EA QTP1X32T8/UNV PSX-TC)-PALC-EQ	277	2-F32T8/835 3500 K FLUOR.	47		
F2G	SIMILAR TO TYPE 'F1G', BUT 2-LAMP FIXTURE.	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/835/XPS/ECO3-ER82(OSI 2EA QTP1X32T8/UNV PSX-TC)-PALC DF-24-W GYP BRD FLANGE KITS	277	2-F32T8/835 3500 K FLUOR. FLUOR.	47		
F3	2' X 4' X 51/2" HIGH RECESSED IN T-BAR CEILING, FLUORESCENT FIXTURE WITH PATTERN '12' ACRYLIC LENS, SINGLE 10% THD ELECTRONIC PROGRAM RAPID START .71 BF BALLAST.	NULITE 2G-24-232-DL-UNV-EB10(SINGLE LEVEL)(OSR SYL 1EA QTP2X32T8/UNV PSX-TC)-EQ	277	2-F32T8/835 3500 K FLUOR.	47		
F3A	2' X 2' X 51/2" HIGH RECESSED IN T-BAR CEILING, FLUORESCENT FIXTURE WITH PATTERN '12' ACRYLIC LENS, SINGLE 10% THD ELECTRONIC PROGRAM RAPID START .71 BF BALLAST.	NULITE 2G-22-317-DL-UNV-EB10(DUAL LEVEL)(OSR SYL 1EA QTP2X32T8/UNV PSX-TC & 1EA QTP1X32T8/UNV PSX TC)-EQ *	277	3-F17T8/835 3500 K FLUOR.	37		4
F3B	SIMILAR TO TYPE 'F3', BUT WITH DIFFERENT NUMBER OF LAMPS.	NULITE 2G-24-332-DL-UNV-EB10(DUAL LEVEL)(OSR SYL * 1EA QTP2X32T8/UNV PSX-TC & 1EA QTP1X32T8/UNV PSX TC)-EQ	277	3-F32T8/835 3500 K FLUOR.	72		
F4	NOT USED						
F4G	1' X 4' X 6" HIGH RECESSED IN GYPSUM BOARD CEILING DIRECT/INDIRECT FLUORESCENT FIXTURE WITH ROUND PERFORATED WHITE STEEL LAMPS SHIELD, UNIVERSAL VOLTAGE SINGLE ELECTRONIC PROGRAM RAPID START .71 BF BALLAST.	COOPER METALUX OVATION RDI-232-RP-UNV-LSF032/835/XPS/ECO3-ER81(OSI 1EA QTP2X32T8/UNV PSX-TC)-PALC DF-14-W GYP BRD FLANGE KITS	277	2-F32T8/835 3500 K FLUOR.	47		
F4GA	SIMILAR TO TYPE 'F4G', BUT WITH DIFFERENT LAMPS.	COOPER METALUX OVATION RDI-254T5-RP-UNV-LSFP54/835/HO/ECO-ERT1(OSI 1EA QTP2X54HO/UNV PSN)-U DF-14-W GYP BRD FLANGE KITS	277	2-F54T5HO/835 3500 K FLUOR.	117		
F4Gb	SIMILAR TO TYPE 'F4', BUT WITH (1) BALLAST.	COOPER METALUX OVATION RDI-254T5-RP-UNV-LSFP54/835/HO/ECO-ERT1(OSI 1EA QTP2X54HO/UNV PSN)-U DF-14-W GYP BRD FLANGE KITS	277	2-F54T5HO/835 3500 K FLUOR.	117		
F5	AIRCRAFT CABLE SUSPENDED 90% DIRECT/10% INDIRECT FLUORESCENT FIXTURE WITH WHITE REFLECTOR UPLIGHT/ PERFORATED BAFFLE OPTICS DOWN, 2-CKT. WIRING, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START .71 BF BALLASTS. RUN LENGTHS AS SHOWN ON PLAN.	CORELITE IRIDIUM IQ-WB-2T8-2C-UNV-PSX-AC48-T_-_'-ES-DL2	277	2-F32T8/835 3500 K IN CROSS SECTION PER 4' LENGTH	47		
F5A	AIRCRAFT CABLE SUSPENDED 90% DIRECT/10% INDIRECT, 8' LONG FLUORESCENT FIXTURE WITH WHITE REFLECTOR UPLIGHT/ CROSS BLADE LOUVER OPTICS DOWN, 1-CKT. WIRING, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START .71 BF BALLASTS. RUN LENGTH AS SHOWN ON PLAN.	CORELITE IRIDIUM IB-WB-1T8-1C-UNV-PSX-AC48-JB-8'-ES-DL2	277	2-F32T8/835 3500 K (1 LAMP IN CROSS SECTION PER 4' LENGTH)	47		
F5B	SIMILAR TO TYPE 'F5', BUT WITH SINGLE CKT. WIRING AND WITH LUTRON ECO-10 DIMMING BALLAST.	CORELITE IRIDIUM IQ-WB-2T8-2D-277-AC48-T_-_'-ES-DL2	277	2-F32T8/835 3500 K IN CROSS SECTION PER 4' LENGTH	47		
F6	SIMILAR TO TYPE 'F5', BUT WITH 5000 DEGREE KELVIN LAMPS, AND LUTRON ECO-10 DIMMING BALLASTS. (2 CIRCUITS) DIMMING.	CORELITE IRIDIUM IQ-WB-2T8-2D-277-AC48-T_-_'-ES-DL2	277	2-F32T8/850 5000 K IN CROSS SECTION PER 4' LENGTH	47		
F6A	SIMILAR TO TYPE 'F5', BUT 4' LONG AND 5000K LAMPS.	CORELITE IRIDIUM IQ-WB-2T8-1C-UNV-PSX-AC48-T_-4'-ES-DL2 ROW 23		2-F32T8/850 5000 K IN CROSS SECTION PER 4' LENGTH	47		4
F7(4')	4' LONG X 11" WIDE SUSPENDED MOUNT FLUORESCENT HIGH-BAY FIXTURE WITH MEDIUM DISTRIBUTION OPTICS POLISHED ALUMINUM REFLECTOR, THIN WHITE BAFFLE SHIELDING, UNIVERSAL VOLTAGE PSX ELECTRONIC PROGRAM RAPID START .71 BF BALLASTS.	COOPER METALUX OVATION I8-R-232-G-TBW-UNV-LSF032/835/XPS/ECO3-ER82(2EA OSR SYL QTP1X32T8/UNV-PSX-TC)-TILW-PI3/GRY/WG-UPL-HB-TCB-KIT-NO-PLATE-U-(2)GRIPPLE-TOGGLE-10-C6(3W)-TAP-PAL		2-F32T8/835 3500 K FLUOR.	47		
F7(8')	SIMILAR TO TYPE 'F7-4', BUT 8' LONG.	COOPER METALUX F-BAY 8T-I8-R-232-G-TBW-UNV-LSF032/835/XPS/ECO3-ER82(2EA OSR SYL QTP2X32T8/UNV-PSX-TC)-TILW-PI3/GRY/WG-UPL-HB-TCB-KIT-NO-PLATE-U-(2)GRIPPLE-TOGGLE-10-C6(5W)-TAP-PAL	277	4-F32T8/835 3500 K FLUOR.	94		
F7(A)	4' LONG FIXTURE SIMILAR TO 'F7-4'.	COOPER METALUX F-BAY I8-R-232-G-TBW-UNV-XPS L8835/ ER81-UPL-CCA-PAL	277	2-F32T8/835 3500 K FLUOR. PER 4' LENGTH	47		
F8	AIRCRAFT CABLE SUSPENDED WALL WASH LINEAR FLUORESCENT FIXTURE WITH SPECULAR ALUMINUM ASYMMETRIC REFLECTOR, AND UNIVERSAL VOLTAGE ELECTRONIC 2-LAMP BALLASTS WITH LESS THAN 10% THD.	GAMMALUX G-BEAM SERIES GB33WW-1ASY54T5HO-UNV-ERS-XX'-C-OP-WH	277	1-F54T5HO/835 3500 K IN CROSS SECTION PER 4' LENGTH	117 PER 8' LENGTH		
F9	NOT USED						
F10	6" DIAMETER X 61/2" HIGH RECESSED DOWNLIGHT WITH HORIZONTAL COMPACT FLUORESCENT LAMP, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, AND SELF-FLANGED WHITE REFLECTOR.	COOPER PORTFOLIO C6142E-6151W-WF-HB26 (OSR SYL QTP2X26CF/UNV BS OR TS OR QTP1/2XCF/UNV BM OR PM OR TM)	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		
F10A	7 1/2" DIAMETER X 8 1/2" HIGH RECESSED DOWNLIGHT WITH HORIZONTAL COMPACT FLUORESCENT LAMPS, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, WHITE REFLECTOR, AND 12 1/2" OUTSIDE DIAMETER TRIM RING.	SPECTRUM LIGHTING SGIC8H-142PLT-EX(ADVANCE ICF-2S26-M1-BS) BH-27-ICMB-NO LIGHT LEAK-GS-AR8615-WH * GR8WH GOOF RING	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		4
F10B	SIMILAR TO TYPE 'F10A', BUT WITH DIFFERENT LAMPS.	SPECTRUM LIGHTING SGIC8H-126PLT-EX(ADVANCE ICF-2S26-M1-BS) BH-27-ICMB-NO LIGHT LEAK-GS-AR8615-WH- * DERATE LABEL @26WATT GR8WH GOOF RING	277	1-26W CFL/835 TRIPLE TUBE 3500 K	28		
F10D	RECESSED FIXTURE SIMILAR TO TYPE 'F10', BUT WITH DIMMING BALLAST.	COOPER PORTFOLIO C6142-2D42(LUTRON FDB-T442-277-1-S)-6151W-WF-HB-26	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		4
F10F	6" LENSED DOWNLIGHT, COMPACT FLUORESCENT	COOPER PORTFOLIO C6142E-6181W3-WF-HB26(OSR SYL QTP2X26CF/UNV BS OR TS OR QTP1/2XCF/UNV BM OR PM OR TM)*	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		6
F10SR	6" LENSED DOWNLIGHT, COMPACT FLUORESCENT, SIMILAR AS "F10" BUT WITH BLUE LENS	COOPER PORTFOLIO C6142E-6180W3-WF-HB26(OSR SYL QTP2X26CF/UNV BS OR TS OR QTP1/2XCF/UNV BM OR PM OR TM)* WITH BLUE LENS	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45	LOCATION: Spinning Room (5-253)	4
F11	NOT USED						
F12	7 3/8" DIAMETER X 8" HIGH RECESSED DOWNLIGHT WITH HORIZONTAL COMPACT FLUORESCENT LAMP, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, AND SELF-FLANGED WHITE REFLECTOR.	COOPER PORTFOLIO C7142E-7151W-WF-HB26 (OSR SYL QTP2X26CF/UNV BS OR TS OR QTP1/2XCF/UNV BM OR PM OR TM)	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		
F13	7 3/8" DIAMETER X 8" HIGH RECESSED WALLWASHER WITH HORIZONTAL COMPACT FLUORESCENT LAMP, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, AND SELF-FLANGED WHITE REFLECTOR.	COOPER PORTFOLIO C7142/E(LUTRON FDB-T43-277-1-S)-7111W-WF-HB26	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45	LOBBY, 1ST FLOOR	
F13A	7 3/8" DIAMETER X 8" HIGH RECESSED WALLWASHER WITH HORIZONTAL COMPACT FLUORESCENT LAMP, UNIVERSAL VOLTAGE ELECTRONIC DIMMING BALLAST, AND SELF-FLANGED WHITE REFLECTOR.	COOPER PORTFOLIO C7142/2D42(LUTRON FDB-T43-277-1-S)-7111W-WF-HB26	277	1-42W CFL/835 TRIPLE TUBE 3500 K	45		
F14	9 1/2" DIAMETER X 7" HIGH RECESSED LENS DOWNLIGHT WITH HORIZONTAL COMPACT FLUORESCENT LAMP, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, SELF-FLANGED WHITE REFLECTOR, PRISMATIC LENS, AND 'WET' LOCATION LABEL.	COOPER PORTFOLIO CL9242EDR26-9281W-1-WF-HB26(ADVANCE ICF2S4290CM2LD)	277	1-26W CFL/835 TRIPLE TUBE 3500 K	28		

LIGHTING FIXTURE SCHEDULE - BLDG 5N

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:	
F14A	7 1/2" DIAMETER X 8 1/2" HIGH RECESSED LENS DOWNLIGHT WITH HORIZONTAL COMPACT FLUORESCENT LAMPS, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, WHITE SPLAY/WHITE FLANGE, PRISMATIC ACRYLIC LENS, 'WET' LOCATION LABEL, AND 12 1/2" OUTSIDE DIAMETER TRIM RING.	SPECTRUM LIGHTING SGIC8H-242-EX-WL-ICMB-NO LIGHT LEAK-BH27 GS-AR8620WS-PA*(ADVANCE ICF-2S42-M2BS) GR8WH GOOF RING	277	2-42W CFL/835 TRIPLE TUBE 3500 K	90		4
F15	NOT USED						
F16(4')	9" WIDE X 4' LONG SURFACE CEILING WRAPAROUND FLUORESCENT FIXTURE WITH CLEAR PRISMATIC ACRYLIC LENS, AND 10%THD ELECTRONIC PSX PROGRAM RAPID START .71 BF BALLAST.	NULITE WAP-232-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV PSX-TC)SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F16(8')	SIMILAR TO F16(4'), BUT 8' LONG	NULITE (2)WAP-232-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV PSX-TC)SINGLE LEVEL*	277	4-F32T8/835 3500 K FLUOR.	94		
F17	NOT USED.						
F18	4' LONG CHAIN-HUNG INDUSTRIAL STRIP FLUORESCENT FIXTURE WITH 12" WIDE APERTURED WHITE REFLECTOR, UNVERSAL VOLTAGE SINGLE ELECTRONIC PROGRAM RAPID START .71 BF BALLAST, AND WIRE GUARD.	COOPER METALUX IA-232-UNV-ER81(OSR SYL 1EA QTP2X32T8/UNV PSX-TC) U-AYC-CHAIN/SET36"*-U-WG/IC-4FT-U SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F19	4' LONG FLUORESCENT 1 LAMP CHANNEL, ASYMMETRIC REFLECTOR, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, LABELED FOR 'DAMP' LOCATION.	NULITE ST132-UNV-PSX EB10-DL-ASY (OSR SYL QTP1X32T8/UNV PSX-TC)	277	1-F32T8/835 3500 K FLUOR.	23.5		
F19(4')	4' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH ONE-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION.	NULITE NS-132-UNV-EB10(OSR SYL 1EA QTP1X32T8/UNV * PSX-TC)-DL-ASY SINGLE LEVEL	277	1-F32T8/835 3500 K FLUOR.	23.5		
F19(8')	SIMILAR TO F19-4, BUT 8' LONG	NULITE NS-132-8-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV * PSX-TC)-DL-ASY SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F19A	4' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, NO REFLECTOR, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, LABELED FOR 'DAMP' LOCATION.	NULITE ST232-UNV-PSX EB10-DL-* (OSR SYL QTP2X32T8/UNV PSX-TC)	277	2-F32T8/835 3500 K FLUOR.	47		
F19A-2	SIMILAR TO F19A, BUT DIFFERENT LAMPS	NULITE ST217-UNV-EB10(OSR SYL QTP2X32T8/UNV PSX-TC)* DL SINGLE LEVEL	277	2-F17T8/835 3500 K FLUOR.	25		4
F19A-3	SIMILAR TO F19A, BUT DIFFERENT LAMPS	NULITE ST225-UNV-EB10(OSR SYL QTP2X32T8/UNV PSX-TC)* DL SINGLE LEVEL	277	2-F25T8/835 3500 K FLUOR.	36.5		
F19A(4')	SIMILAR TO F19A	NULITE ST232-UNV-EB10(OSR SYL QTP2X32T8/UNV PSX-TC)* DL SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F19A(8')	SIMILAR TO F19A, BUT 8' LONG	NULITE ST232-8-UNV-EB10(OSR SYL QTP4X32T8/UNV PSX-SC)* DL SINGLE LEVEL	277	4-F32T8/835 3500 K FLUOR.	94		
F19B	8' LONG STANDARD STRIP FLUORESCENT FIXTURE WITH ONE-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION.	NULITE NS-132-8-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV * PSX-TC)-DL SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F19B-8	SIMILAR TO F19B	NULITE NS-132-8-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV * PSX-TC)-DL SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F20	2' X 4' X 5 1/2" HIGH RECESSED FLANGE TROFFER WITH PRISMATIC ACRYLIC LENS, 'DAMP' LOCATION LABEL, UNIVERSAL VOLTAGE SINGLE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLAST, AND 1-CIRCUIT WIRING.	NULITE 2F-24-232-UNV-PSX EB10-DL-HY(OSR SYL 1EA QTP2X32T8/UNV PSX-TC) SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F20(DL)	SIMILAR TO F20, BUT TWO CIRCUIT WIRING	NULITE 2F-24-232-UNV-EB10(OSR SYL 2EA QTP1X32T8/UNV PSX-TC)-DL DUAL LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F20(SL)	SIMILAR TO F20	NULITE 2F-24-232-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV PSX-TC)-DL SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F21	2' X 4' X 5 1/2" HIGH RECESSED FLANGE TROFFER WITH PRISMATIC ACRYLIC LENS, UNIVERSAL VOLTAGE SINGLE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLAST, AND 1-CIRCUIT WIRING. SAME AS "F20".	NULITE 2F-24-232-UNV-PSX EB10-HY- (OSR SYL 1EA QTP2X32T8/UNV PSX-TC) SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		4
F22	6 1/2" DIAMETER X 7" HIGH RECESSED SHOWER LIGHT FIXTURE WITH DROP OPAL LENS AND WHITE TRIM RING, AND ELECTRONIC BALLAST.	COOPER H272ICAT-271PS (ADVANCE RCF-2S26-M1-LS-QS)	120	1-26W CFL/835 DOUBLE TWIN 3500 K	28		
F23	DIRECT/INDIRECT PENDANT LUMINAIRE	McFADDEN PENDANT	277	TBD			
F24(4')	4' LONG X 4 1/2" WIDE SURFACE CEILING MOUNT ROUND OPAL ACRYLIC LENS FLUORESCENT FIXTURE WITH UNIVERSAL VOLTAGE SINGLE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLAST, AND 1-CIRCUIT WIRING.	NULITE 16-232-UNV-EB10(OSR SYL 1EA QTP2X32T8/UNV PSX-TC) SINGLE LEVEL	277	2-F32T8/835 3500 K FLUOR.	47		
F24(8')	SIMILAR TO F24-4, BUT 8' LONG AND WALL MOUNTED	NULITE 16-232-8-UNV-EB10(OSR SYL 1EA QTP4X32T8/UNV PSX-SC) SINGLE LEVEL	277	4-F32T8/835 3500 K FLUOR.	94		
F25	DECORATIVE PENDANT FIXTURE.	EUREKA 4156B-JDJ-SC-WH-CF.D.26-277V-24"	277	1-26W CFL DOUBLE TWIN 3500 K	28		
F26	WALL MOUNTED NON-METALLIC VAPORPROOF FIXTURE WITH POLYCARBONATE HOUSING AND GUARD, AND HEAT-TREATED CLEAR GLASS GLOBE.	CANLET 6802-FWF-21-OG-11	120	1-26W CFL/835 TRIPLE TUBE 3500 K	28		
F27	SURFACE EXTERIOR RATED WALL MOUNT FIXTURE WITH COMPACT FLUORESCENT LAMP, AND ELECTRONIC BALLAST.	TRACE-LITE TL101-PL-42-120/277V (AC #CSD-UV42PS) (BRONZE FINISH)	277	1-42W CFL/835	45	LOCATION: ROOF	4
F28-4	WALL MOUNTED FLUORESCENT FIXTURE WITH WHITE REFLECTOR UPLIGHT/ OPEN BAFFLE OPTICS DOWN, SINGLE CKT. WIRING, UNIV. VOLT. ELECTRONIC BALLASTS. RUN LENGTHS AS SHOWN ON PLAN	CORELITE STELLAR SW-WB-2N5(28W)-1C-UNV-_'-SU-WA	277	2-F28T5 3500 K IN CROSS SECTION PER 4' LENGTH	64		4
F28-8	WALL MOUNTED FLUORESCENT FIXTURE WITH WHITE REFLECTOR UPLIGHT/ OPEN BAFFLE OPTICS DOWN, SINGLE CKT. WIRING, UNIV. VOLT. ELECTRONIC BALLASTS. RUN LENGTHS AS SHOWN ON PLAN	CORELITE STELLAR SW-WB-2N5(28W)-1C-UNV-_'-SU-WA	277	2-F28T5 3500 K IN CROSS SECTION PER 8' LENGTH	65		
F29	3' LONG SURFACE WALL MOUNT VANITY LIGHT FIXTURE WITH MATTE WHITE ACRYLIC DIFFUSER, 4100 DEGREES KELVIN LAMP, AND ELECTRONIC RAPID START BALLAST.	OXYGEN SKYLINE 2-584-2-FINISH TBD BY ARCH-120V* POLISHED CHROME & SATIN NICKEL AVAILABLE 120V ONLY	277	1-F25T5/850 5000 K FLUOR.	25		9
F30	UNDERCABINET LIGHT FIXTURE, 35" LONG.	HEALTHCARE LIGHTING INC. HUC-234-UNV(1EA OSR SYL QTP2X28T5/UNV PSN)-1T5EL-SX 3' UNDERCABINET LIGHT	120	1-F21T5/835 3500 K FLUOR.	25		
F31	"AREA OF REFUGE" RECESSED WALL SIGNAGE FIXTURE WITH STAINLESS STEEL FACELATE, TRANSLUCENT ACRYLIC LENS.	HOUSING DEVICES, INC. ADA-IS-UL	TBD			LOCATION: OUTSIDE OF 2ND & 3RD FLOORS STAIR ENTRY	
F32	36", 21W-T5 FLUORESCENT LAMP,41 DEGREE KELVIN, UNDERCABINET TASK LIGHT, WITH RAPID START ELEC. BALLAST, WITH FUSED CORD, MINIATURE,ROCKER SWITCH AND PRISMATIC ACRYLIC LENS	CUSTOM LIGHTS T-5 TASK LIGHTING FOR OFFICE FURNITURE SYSTEM	120	1-F21T5/ 42 DEG KELVIN 36" LENGTH	21	LOCATION: TASK AREAS UNDERCABINET OFFICES, ETC.	
A	LINEAR LIGHTING WITH ACRYLIC COVER, STANDARD FINISH IN HIGH REFLECTIVITY WHITE POWDER COAT, & ELECTRONIC BALLAST. FOR FIXTURE LENGTHS SEE LIGHTING PLANS. UL & C-UL LISTED FOR DRY & DAMP LOCATIONS.	BIRCHWOOD LIGHTING WP-T5-S-AC-UNV-STD-128-HRW (OSR SYL 1EA QTP2X28T5/UNV PSN)	277	1-F28T5/835 3500 K IN CROSS SECTION PER 4' LENGTH	32	LOCATION: EXTERIOR AT WOOD SLAT CEILING.	
A1	LINEAR LIGHTING, RECESSED, STANDARD FINISH IN HIGH REFLECTIVITY WHITE POWDER COAT, AND ELECTRONIC BALLAST. FOR FIXTURE LENGTHS SEE LIGHTING PLANS. UL & C-UL LISTED FOR DRY & DAMP LOCATIONS.	COOPER LIGHTING SM1-28T5-UNV-EBT1 (1EA OSI QTP2X28T5/UNV PSN)-U	277	1-F28T5/835 3500 K IN CROSS SECTION PER 4' LENGTH	32	LOCATION: LOBBIES,CORRIDORS, STAIRS	
A2	8' LONG LINEAR LIGHTING, RECESSED, FROSTED LENS, REGRESSED RAPID START BALLAST FOR FIXTURE LENGTHS SEE LIGHTING PLANS.	AXIS B6R-F-RG-8-T5-2-MO-W-UNV-ERS(OSR SYL 2EA QTP2X28T5/UNV PSN)-1?-DF *		4-F28T5/835 3500 K IN CROSS SECTION PER 4' LENGTH	128	LOCATION: Level 1-West Elevator Lobby	
X-SF	EXIT SIGN - SINGLE FACE. SURFACE CEILING MOUNT EDGE-LIT FIXTURE WITH 6" LEGEND ON CLEAR ACRYLIC PANEL, FIELD SELECTABLE CHEVRONS, UNIVERSAL VOLTAGE INPUT, GREEN LETTERS, AND WHITE HOUSING.	CHLORIDE CA6GCW1IC	277	LED			
X-DF	EXIT SIGN - DOUBLE FACE. SURFACE CEILING MOUNT EDGE-LIT FIXTURE WITH 6" LEGEND ON MIRROR ACRYLIC PANEL, FIELD SELECTABLE CHEVRONS, UNIV. VOLTAGE INPUT, GREEN LETTERS, AND WHITE HOUSING.	CHLORIDE CA6GMW2IC	277	LED			

NOTES:

1. DUAL-LEVEL SWITCHED FIXTURES SHALL BE PROVIDED WITH 2-BALLASTS. COORDINATE EXACT QUANTITIES WITH LIGHTING PLANS.
2. ALL RECESSED FIXTURES MOUNTED IN T-BAR CEILING TO BE PROVIDED WITH SAFETY EARTHQUAKE CLIPS.

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2, 3	DSA Submittal	10/15/08
4	Coordination - Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner Change	09/07/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

LIGHTING FIXTURE SCHEDULE

E0.03

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E0.03_Lighting Fixture Schedule.dwg - Dec 13, 2010 Monday - 1:21pm - 05 300085_E0.03_Lighting Fixture Schedule - wecheverria

COPPER FEEDER SCHEDULE – 1 PHASE, 2 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
152	15A, 1PH2W	2–#12	#12	1/2"
202	20A, 1PH2W	2–#12	#12	1/2"
302	30A, 1PH2W	2–#10	#10	1/2"
402	40A, 1PH2W	2–#8	#10	1/2"
502	50A, 1PH2W	2–#8	#10	1/2"
602	60A, 1PH2W	2–#6	#10	3/4"
702	70A, 1PH2W	2–#4	#8	1"
802	80A, 1PH2W	2–#4	#8	1"
1002	100A, 1PH2W	2–#2	#8	1"

COPPER FEEDER SCHEDULE – 1 PHASE, 3 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
152	15A, 1PH2W	1–#12H,1–#12N	#12	1/2"
202	20A, 1PH2W	1–#12H,1–#12N	#12	1/2"
302	30A, 1PH2W	1–#10H,1–#10N	#10	1/2"
402	40A, 1PH2W	1–#8H,1–#8N	#10	1/2"
502	50A, 1PH2W	1–#8H,1–#8N	#10	1/2"
602	60A, 1PH2W	1–#6H,1–#6N	#10	3/4"
702	70A, 1PH2W	1–#4H,1–#4N	#8	1"
802	80A, 1PH2W	1–#4H,1–#4N	#8	1"
1002	100A, 1PH2W	1–#2H,1–#12N	#8	1"

COPPER FEEDER SCHEDULE – 3 PHASE, 3 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
153	15A, 3PH3W	3–#12	#12	1/2"
203	20A, 3PH3W	3–#12	#12	1/2"
303	30A, 3PH3W	3–#10	#10	1/2"
403	40A, 3PH3W	3–#8	#10	3/4"
503	50A, 3PH3W	3–#8	#10	3/4"
603	60A, 3PH3W	3–#6	#10	1"
703	70A, 3PH3W	3–#4	#8	1"
803	80A, 3PH3W	3–#4	#8	1"
1003	100A, 3PH3W	3–#2	#8	1 1/4"
1253	125A, 3PH3W	3–#1	#6	1 1/2"
1503	150A, 3PH3W	3–#1/0	#6	1 1/2"
1753	175A, 3PH3W	3–#2/0	#6	2"
2003	200A, 3PH3W	3–#3/0	#6	2"
2253	225A, 3PH3W	3–#4/0	#4	2 1/2"
2503	250A, 3PH3W	3–#250K	#4	2 1/2"
3003	300A, 3PH3W	3–#350K	#4	2 1/2"
3503	350A, 3PH3W	3–#400K	#2	3"
4003	400A, 3PH3W	3–#500K	#2	3"
5003	500A, 3PH3W	6–#250K	2–#2	(2) 2 1/2"
6003	600A, 3PH3W	6–#350K	2–#1	(2) 3"
7503	750A, 3PH3W	6–#500K	2–#1/0	(2) 3"
8003	800A, 3PH3W	6–#500K	2–#1/0	(2) 3"
10003	1000A, 3PH3W	9–#400K	3–#2/0	(3) 3"
12003	1200A, 3PH3W	9–#600K	3–#3/0	(3) 4"
16003	1600A, 3PH3W	12–#600K	4–#4/0	(4) 4"
20003	2000A, 3PH3W	15–#600K	5–#250K	(5) 4"

COPPER FEEDER SCHEDULE – 3 PHASE, 4 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
154	15A, 3PH4W	4–#12	#12	1/2"
204	20A, 3PH4W	4–#12	#12	1/2"
304	30A, 3PH4W	4–#10	#10	1/2"
404	40A, 3PH4W	4–#8	#10	3/4"
504	50A, 3PH4W	4–#8	#10	1"
604	60A, 3PH4W	4–#6	#10	1"
704	70A, 3PH4W	4–#4	#8	1 1 /4"
804	80A, 3PH4W	4–#4	#8	1 1 /4"
1004	100A, 3PH4W	4–#2	#8	1 1/4"
1254	125A, 3PH4W	4–#1	#6	1 1/2"
1504	150A, 3PH4W	4–#1/0	#6	1 1/2"
1754	175A, 3PH4W	4–#2/0	#6	2"
2004	200A, 3PH4W	4–#3/0	#6	2"
2254	225A, 3PH4W	4–#4/0	#4	2 1/2"
2504	250A, 3PH4W	4–#250K	#4	2 1/2"
3004	300A, 3PH4W	4–#350K	#4	3"
3504	350A, 3PH4W	4–#400K	#2	3"
4004	400A, 3PH4W	4–#500K	#2	3"
5004	500A, 3PH4W	8–#250K	2–#2	(2) 2 1/2"
6004	600A, 3PH4W	8–#350K	2–#1	(2) 3"
8004	800A, 3PH4W	8–#500K	2–#1/0	(2) 3"
10004	1000A, 3PH4W	12–#400K	3–#2/0	(3) 3"
12004	1200A, 3PH4W	12–#600K	3–#3/0	(3) 4"
14004	1400A, 3PH4W	16–#600K	4–#4/0	(4) 4"
16004	1600A, 3PH4W	16–#600K	4–#4/0	(4) 4"
20004	2000A, 3PH4W	20–#600K	5–#250K	(5) 4"

COPPER FEEDER SCHEDULE – 3 PHASE, 4 WIRE W/ 200% NEUTRAL				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
204K	20A, 3PH4W, 200%N	3–#12, 1–#10	#12	1/2"
304K	30A, 3PH4W, 200%N	3–#8, 1–#6	#10	3/4"
404K	40A, 3PH4W, 200%N	3–#8, 1–#4	#10	1"
504K	50A, 3PH4W, 200%N	3–#6, 1–#2	#10	1"
604K	60A, 3PH4W, 200%N	3–#4, 1–#2	#10	1 1/4"
704K	70A, 3PH4W, 200%N	3–#2, #1	#8	1 1/4"
804K	80A, 3PH4W, 200%N	3–#2, 1–#1/0	#8	1 1/4"
1004K	100A, 3PH4W, 200%N	3–#1, 1–#3/0	#8	1 1/2"
1254K	125A, 3PH4W, 200%N	3–#1/0, 1–#250K	#6	2"
1504K	150A, 3PH4W, 200%N	3–#3/0, 1–#350K	#6	2 1/2"
1754K	175A, 3PH4W, 200%N	3–#4/0, 1–#400K	#6	2 1/2"
2004K	200A, 3PH4W, 200%N	3–#250K, 1–#500K	#6	3"
2254K	225A, 3PH4W, 200%N	3–#300K, 2–#4/0	#4	3"
2504K	250A, 3PH4W, 200%N	3–#350K, 2–#250K	#4	3"
3004K	300A, 3PH4W, 200%N	3–#500K, 2–#350K	#4	4"
3504K	350A, 3PH4W, 200%N	6–#4/0, 2–#500K	2–#2	(2) 2 1/2"
4004K	400A, 3PH4W, 200%N	6–#250K, 2–#500K	2–#2	(2) 3"
5004K	500A, 3PH4W, 200%N	6–#400K, 4–#250K	2–#2	(2) 3"
6004K	600A, 3PH4W, 200%N	6–#500K, 4–#350K	2–#1	(2) 4"
8004K	800A, 3PH4W, 200%N	9–#400K,6–#350K	3–#1/0	(3) 3"
10004K	1000A, 3PH4W, 200%N	12–#400K, 8–#250K	4–#2/0	(4) 3"
12004K	1200A, 3PH4W, 200%N	12–#500K, 8–#350K	4–#3/0	(4) 4"

Notes:

1. Conductors and conduit sizes shown in schedule are based on copper conductors with THHN/THWN insulation.

2. Feeders consisting of multiple sets of conductors and conduits are to be provided with indicated size ground conductor in each conduit.

3. Feeders with designation K are for use when the majority of the load consists of nonlinear loads such as electric–discharge lighting, electronic computer/data processing, or similar equipment where harmonic currents are present in the neutral conductor.

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/19/10

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Number	Description	Date
1	100% DD	03/12/08
	100% CD	04/17/08
	50% CD	06/13/08
	DSA Submittal	08/01/08
1	100% Coordination Documents	10/15/08
2	DSA Submittal	06/24/09
3	Coordination – Bulletin 4	09/01/09
4	Owner Changes	09/01/09
5	RFP–5–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Number	Description	Date
1	100% MEP CHANGES	12/01/09
2	DOORWAY SIDELIGHT REVISION PER WHITESPACE	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/19/10

Job. No. R9-3000851
Date 06.13.2008
Scale AS SHOWN

POWER FEEDER SCHEDULE

E0.04

PANEL "1DPEA" — LOCATION: LEVEL 1 WEST - ELEC TFMR RM 5106

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
		35633	400	1	63149			2	400	27516		
	PNL."2LECS11-2LEC12"	35633	--	3		63149		4	--	27516		PNL."3LE11-3LE12"
		35633	3P	5			63149	6	3P	27516		
		26040	400	7	26040			8				
	PNL."2LECS21-2LEC22"	26040	--	9		26040		10				
		26040	3P	11			26040	12				
				13	0			14				
				15		0		16				
				17			0	18				
				19	0			20				
				21		0		22				
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					89189	89189	89189					
					742	742	742					

SIZE:	1400	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	1400A/3P M.C.B.	CONNECTED KVA PANEL		267.6	
AIC RATING:	65KAIC	CONNECTED AMPS PANEL		742.7	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		267.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	1120	LOAD (AMPS) PANEL		743.6	

PANEL SEC. 1 "1LE11" — LOCATION: LEVEL 1 EAST - ELEC. RM. 5160B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Adapt.P.E.(5170)	1500	20/1P	1	2500			2	20/1P	1000	R	REC-LVD TV (5160F)
R	REC-Adapt.P.E.(5170)	1500	20/1P	3		2500		4	20/1P	1000	R	REC-LVD TV (5160F)
R	REC-Adapt.P.E.(5170)	1500	20/1P	5			2500	6	20/1P	1000	R	REC.General (5160F,5514)
R	REC-Adapt.P.E.(5170)	1500	20/1P	7	2000			8	20/1P	500		JB-BMS Control Pnl(5160B)
R	REC-Adapt.P.E.(5170)	1500	20/1P	9		2000		10	20/1P	500		JB-Von Duprin
R	REC-Adapt.P.E.(5170)	1500	20/1P	11			2400	12	20/1P	900	R	REC.General (5160H,5115)
R	REC-Adapt.P.E.(5170)	1500	20/1P	13	1850			14	20/1P	350	M	EF-2
R	REC-Adapt.P.E.(5170)	1500	20/1P	15		2500		16	20/1P	1000	R	PROJ. SCREEN
R	REC-Adapt.P.E.(5170)	1500	20/1P	17			1500	18	20/1P			SPARE
R	REC-Adapt.P.E.(5170)	1500	20/1P	19	1500			20	20/1P			SPARE
R	REC-Adapt.P.E.(5170)	1500	20/1P	21		3300		22	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-Adapt.P.E.(5170)	1500	20/1P	23			3300	24	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-Adapt.P.E.(5170)	1500	20/1P	25	3300			26	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-Adapt.P.E.(5170)	1500	20/1P	27		3300		28	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-GFCI-Wet Area(5-170B)	720	20/1P	29			2520	30	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC.General-(5170,5160)	900	20/1P	31	2700			32	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-Adapt.Assess.(5170C)	900	20/1P	33		2700		34	20/1P	1800		Racewy-StrengthTr(5160F)Future
	JB-VON DUPRIN	900	20/1P	35			2700	36	20/1P	1800		Racewy-StrengthTr(5160F)Future
R	REC-GFCI-EXTER. WALL	720	20/1P	37	720			38				SPACE
	SPACE		20/1P	39		0		40				SPACE
	SPACE			41			0	42				SPACE
					14570	16300	14920					
					121	136	124					

SIZE:	400	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	Sub-Feed Lugs
PHASE:	3	ENCLOSURE:		NEMA 1	Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		45.8	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		127.1	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		19.6	
NEUTRAL:	!00%	OTHER KVA LOAD PANEL SEC. 1		16.7	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		100.7	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		252.9	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 1 "1LW11" — LOCATION: LEVEL 1 WEST - ELECT. RM. 5101

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Fac.Change(5150,5150A)	1260	20/1P	1	2520			2	20/1P	1260	R	REC-Lobby(5111,5120,5112D)
R	REC-Groomi'g Devic(5150C,A)	1000	20/1P	3		1900		4	20/1P	900	R	REC-Elec CLOSET(5101)
R	REC-Suit Dryer(5150C)	1000	20/1P	5			1900	6	20/1P	900	R	REC-Facilities(5104,5108)
R	REC-Groomi'g Device(5150C)	700	20/1P	7	1600			8	20/1P	900	R	REC/LT-Elev Pit 5(E11)
R	REC-208V-Storage(5160D)	1500	30	9		2400		10	20/1P	900	R	REC/LT-Elev Pit 5(E12)
R		1500	2P	11			2400	12	20/1P	900	R	REC-Elev Control Rm(5103)
	SPARE		20/1P	13	720			14	20/1P	720	R	REC-ELEC RM(5106)
	SPARE		20/1P	15		900		16	20/1P	900		JB-BMS (5105)
R	REC-Suit Dryer(5140B)	1000	20/1P	17			1900	18	20/1P	900	R	REC-Mech rm(5105)
R	REC-Groomi'g Device(5140B)	1000	20/1P	19	2500			20	20/1P	1500		JB-FSD
L	LTG-Men's140/Women's150		20/1P	21		720		22	20/1P	720	R	REC-Corridor(51105109,5140)
	SPARE		20/1P	23			720	24	20/1P	720	R	REC-Wellness Asses(5155)
R	REC-Groomi'g Device(5140A)	1000	20/1P	25	1720			26	20/1P	720	R	REC-LockRm(5153,5114B,5151)
R	REC-Men's Lock.(5140)	1000	20/1P	27		2000		28	20/1P	1000	R	REC-(5133)
R	REC-Off (5132)	720	20/1P	29			1720	30	20/1P	1000	R	REC-Vend. Mach.(5114B)
R	REC-Fac.Change(5140A,5150)	720	20/1P	31	1720			32	20/1P	1000	R	REC-Vend. Mach.(5114B)
R	REC-Lobby (5111511A)	900	20/1P	33		1900		34	20/1P	1000	R	REC-Vend. Mach.(5114B)
R	REC-EXTERIOR(5180)	720	20/1P	35			1440	36	20/1P	720	R	REC-Corridor(5114A,5152)
	SPARE		20/1P	37	200			38	20/1P	200		FACP - ELEC RM 5-101
	SPARE		20/1P	39		0		40	20/1P			SPARE
	WALL CLOCKS-(all floors)	1800	20/1P	41			1800	42	20/1P			SPARE
					10980	9820	11880					
					91	82	99					

SIZE:	225	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	Sub-Feed Lugs
PHASE:	3	ENCLOSURE:		NEMA 1	Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		32.7	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		90.7	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		19.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		4.4	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL SEC. 1		65.4	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		160.9	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL "1DPEB" — LOCATION: LEVEL 1 WEST - ELEC TFMR RM 5106

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
		33333	400A	1	76333			2	600A	43000		
	PNL."1LE11-1LE12"	33333	--	3		76333		4	--	43000		PNLS."2LECF1/2LECF2/
		33333	3P	5			76333	6	3P	43000		2LECF3"
		15000	400A	7	15000			8				
	PNL."2LE1"	15000	--	9		15000		10				
		15000	3P	11			15000	12				
				13	0			14				
				15		0		16				
				17			0	18				
				19	0			20				
				21		0		22				
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					91333	91333	91333					
					760	760	760					

SIZE:	1400	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	1400A/3P M.C.B.	CONNECTED KVA PANEL		274.0	
AIC RATING:	65KAIC	CONNECTED AMPS PANEL		760.5	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		274.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	1120	LOAD (AMPS) PANEL		761.4	

PANEL SEC. 2 "1LE12" — LOCATION: LEVEL 1 EAST - ELEC. RM. 5160B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Raceway-Cardio. (5160G)	600	20/1P	43	2400			44	20/1P	1800		Raceway-Cardio (5160G)Future
	Raceway-Cardio. (5160G)	600	20/1P	45		2400		46	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	600	20/1P	47			2400	48	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1200	20/1P	49	3000			50	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	51		3600		52	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	53			3600	54	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	55	3600			56	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	57		3600		58	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	59			3600	60	20/1P	1800		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	61	3152			62	20	1352		Raceway-Cardio (5160G)
	Raceway-Cardio. (5160G)	1800	20/1P	63		3152		64	2P	1352		
	Raceway-Cardio. (5160G)	1800	20/1P	65			3152	66	20	1352		Raceway-Cardio (5160G)
	SPARE		20/1P	67	1352			68	2P	1352		
	SPARE		20/1P	69		1800		70	20/1P	1800		Raceway-Cardio (5160G)Future
	SPARE		20/1P	71			1800	72	20/1P	1800		Raceway-Cardio (5160G)Future
R	REC-LCD TV (5160G)	1000	20/1P	73	1900			74	20/1P	900	R	REC. G.-Cardio(5160G)
R	REC-LCD TV (5160G)	1000	20/1P	75		3496		76	30	2496	R	REC-(208V,1Ph)-Ext.Wall
R	REC General (5160G)	900	20/1P	77			3396	78	2P	2496		
	SPACE			79	0			80				SPACE
	SPACE			81		0		82				SPACE
	SPACE			83			0	84				SPACE
					15404	18048	17948					
					128	150	149					

SIZE:	400	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	Sub-Feed Lugs
PHASE:	3	ENCLOSURE:		NEMA 1	Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		51.4	
AIC RATING:	22 KAIC	CONNECTED AMPS:		142.7	
BUS:	CU	RECEPTACLE KVA LOAD		6.3	
NEUTRAL:	!00%	OTHER KVA LOAD		48.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	219	LOAD (AMPS) PANEL SEC.2		152.3	

PANEL SEC. 2 "1LW12" — LOCATION: LEVEL 1 WEST - ELECT. RM. 5101

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Vend.Mach.(5111A)	1000	20/1P	43	1720			44	20/1P	720	R	REC-OFF Div Asst(5131B)
R	REC-Vend.Mach.(5111A)	1000	20/1P	45		1720		46	20/1P	720	R	REC-OFF Div Dean(5131A)
	JB-Von Duprin	500	20/1P	47			1220	48	20/1P	720	R	REC-Waiting (5131)
	JB-Von Duprin	500	20/1P	49	1400			50	20/1P	900	R	REC-Wellness (5109A)
R	REC-Elev. Control Rm (5142)	900	20/1P	51		1900		52	20/1P	1000	R	REC-WellnessRect(5109A)
	SPARE		20/1P	53			1000	54	20/1P	1000	R	REC-WellnessRect(5109A)
R	REC-Elev Pit (5E13)	720	20/1P	55	720			56				SPACE
R	REC-Exterior	900	20/1P	57		900		58				SPACE
	EF-2; HP	350	20/1P	59			350	60				SPACE
	SPACE			61	600			62	20/1P	600	R	REC-Data Rack(IDF-5104)
	SPACE			63		1664		64	20	1664	R	REC-Data Rack(IDF-5104)
	SPACE			65			1664	66	2P	1664	R	
	SPACE			67	600			68	20/1P	600	R	REC-Data Rack (IDF-5104)
	SPACE			69		1664		70	20	1664	R	REC-Data Rack (IDF-5104)
	SPACE			71			1664	72	2P	1664	R	
R	UPS-IDF(5-104)	960	20	73	2400			74	30	1440	R	REC-UPS (IDF-5104)
R		960	2	75		2400		76	2P	1440	R	
	SPACE			77			720	78	20/1P	720	R	REC-IDF RM (5-104)
	SPACE			79	0			80				SPACE
	SPACE			81		0		82				SPACE
	SPACE			83			0	84				SPACE
					7440	10248	6618					
					62	85	55					

SIZE:	225	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	Sub-Feed Lugs
PHASE:	3	ENCLOSURE:		NEMA 1	Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		24.3	
AIC RATING:	22 KAIC	CONNECTED AMPS:		67.5	
BUS:	CU	RECEPTACLE KVA LOAD		16.5	
NEUTRAL:	100%	OTHER KVA LOAD		17.9	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	115	LOAD (AMPS) PANEL SEC.2		95.4	

PANEL "1DPW" — LOCATION: LEVEL 1 WEST - ELEC TFMR RM 5106

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
		13667	225A	1	48367			2	400A	34700		
	PNL."1LW11-1LW12"	13667	--	3		48367		4	--	34700		PNL."3LW11-3LW12"
		13667	3P	5			48367	6	3P	34700		
		38000	400A	7	68833			8	400A	30833		
	PNL."2LW11-2LW12"	38000	--	9		68833		10	--	30833		PNL."3LW21-3LW22"
		38000	3P	11			68833	12	3P	30833		
				13	0			14				
				15		0		16				
				17			0	18				
				19	0			20				
				21		0		22				
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					117200	117200	117200					
					975	975	975					

SIZE:	1400	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	1400A/3P M.C.B.	CONNECTED KVA PANEL		351.6	
AIC RATING:	65KAIC	CONNECTED AMPS PANEL		975.9	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		351.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	1120	LOAD (AMPS) PANEL		977.1	

PANEL "1EHL1" — LOCATION: LEVEL 2 WEST - ELEC. RM. 5106

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG. EXT. WALL-POOL	1160	20A/1P	1	3644			2	20A/1P	2484	L	LTG. EM.-1st Flr West
	SPARE		20A/1P	3		1401		4	20A/1P	1401	L	LTG. EM.-1st Flr West/East
	SPARE		20A/1P	5			2905	6	20A/1P	2905	L	LTG. EM.-1st Flr East
	SPARE		20A/1P	7	1940			8	20A/1P	1940	L	LTG. EM.-2nd Flr West
	SPARE		20A/1P	9		1035		10	20A/1P	1035	L	LTG. EM.-2nd FlrWest/East
	SPARE		20A/1P	11			2026	12	20A/1P	2026	L	LTG. EM.-2nd Flr East
	SPARE		20A/1P	13	3029			14	20A/1P	3029	L	LTG. EM.-3rd Flr West/East
	SPARE		20A/1P	15		851		16	20A/1P	851	L	LTG. EM.-3rd Flr East
	SPARE		20A/1P	17			514	18	20A/1P	514		LTG EM.-2nd Flr West-Ext.
	SPACE			19	810			20	20A/1P	810	L	LTG EM.-1st Flr West-Ext.
	SPACE			21		0		22	20A/1P			SPARE
	SPACE			23			0	24	20A/1P			SPARE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					9423	3287	5445					
					34	12	20					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		18.2	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		21.8	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		18.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		21.9	

PANEL "2HL1" — LOCATION: LEVEL 2 WEST - ELEC. RM. 5210

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG-2nd Flr West	3374	20A/1P	1	3374			2	20/1P			SPARE
L	LTG-2nd Flr West	3343	20A/1P	3		3343		4	20/1P			SPARE
L	LTG-2nd Flr West	3249	20A/1P	5			3249	6	20/1P			SPARE
L	LTG-2nd Flr West	2398	20A/1P	7	2398			8				SPACE
L	LTG-2nd Flr East	3423	20A/1P	9		3423		10				SPACE
L	LTG-2nd Flr East	1456	20A/1P	11			1456	12				SPACE
L	LTG-2nd Flr East	3276	20A/1P	13	3276			14				SPACE
L	LTG-2nd Flr East	1729	20A/1P	15		1729		16				SPACE
L	LTG-2nd Flr East	2639	20A/1P	17			2639	18				SPACE
L	LTG-2nd Flr West	405	20A/1P	19	405			20				SPACE
L	LTG-2nd Flr West--Deck	720	20A/1P	21		720		22				SPACE
	SPACE			23			0	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					9453	9215	7344					
					34	33	26					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		26.0	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		31.3	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		26.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		31.3	

PANEL "1HP1" — LOCATION: LEVEL 1 WEST - ELEC TFMR RM 5106

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	UTILITY VISION PANEL	1500	20/1	1	1500			2				
				3		0		4				
				5			0	6				
				7	0			8				
				9		0		10				
				11			0	12				
				13	0			14				
				15		0		16				
				17			0	18				
				19	0			20				
				21		0		22				
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					1500	0	0					
					12	0	0					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	100A/3P M.C.B.	CONNECTED KVA PANEL		1.5	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		4.2	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		1.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		4.2	

PANEL "1HL1" — LOCATION: LEVEL 1 WEST - ELEC RM 5101

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG- 1st Flr West	2086	20A/1P	1	2086			2				SPACE
L	LTG- 1st Flr West	3078	20A/1P	3		3078		4				SPACE
L	LTG- 1st Flr West	1999	20A/1P	5			1999	6				SPACE
L	LTG- 1st Flr East	2670	20A/1P	7	2670			8				SPACE
L	LTG- 1st Flr East	2471	20A/1P	9		2471		10				SPACE
L	LTG- 1st Flr East	3504	20A/1P	11			3504	12				SPACE
L	LTG- 1st Flr East	2628	20A/1P	13	2628			14				SPACE
	SPARE		20A/1P	15		0		16				SPACE
	SPARE		20A/1P	17			0	18				SPACE
	SPARE		20A/1P	19	0			20				SPACE
	SPARE		20A/1P	21		0		22				SPACE
	FC-2 (IDF@ Maint.Rm.5-104)	1500	20A/1P	23			1500	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					7384	5549	7003					
					27	20	25					

SIZE:	150	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		19.9	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		24.0	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		19.9	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	120	LOAD (AMPS) PANEL		24.0	

PANEL "1HL" — LOCATION: LEVEL 1 WEST - ELEC. RM. 5101

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
M		7166	60A	1	14332			2	60A	7166	M	
M	CHWP-1; 20 HP	7166	--	3		14332		4	--	7166	M	CHWP-2; 20HP
M		7166	3P	5			14332	6	3P	7166	M	
M	SPARE	800	15A	7	1600			8	15A	800	M	SPARE
M		800	--	9		1600		10	--	800	M	
M	IN AHU-1	800	3P	11			1600	12	3P	800	M	IN AHU-2
M		2033	20A/1P	13	4066			14	20A	2033	M	
M	HWP-1; 5 HP	2033	--	15		4066		16	--	2033	M	HWP-2; 5 HP
M		2033	3P	17			4066	18	3P	2033	M	
M		900	15A	19	1700			20	15A	800	M	
M	CHWP-3 ; 2 HP	900	--	21		1700		22	--	800	M	EF-1; 1.5 HP
M		900	3P	23			1700	24	3P	800	M	
M		800	15A	25	1233			26	15A	433	M	
M	FC-1; 1.5 HP	800	--	27		1233		28	--	433	M	EF-3; 0.75 HP
M		800	3P	29			1233	30	3P	433	M	
	SPARE		20A/1P	31	0			32				SPACE
	SPARE		20A/1P	33		0		34				SPACE
	SPARE		20A/1P	35			0	36				SPACE
	SPACE			37	7384			38	100A	7384		
	SPACE			39		5549		40	--	5549		PANEL "1HL1"
	SPACE			41			5503	42	3P	5503		
					30315	28480	28434					
					109	103	102					

SIZE:	150	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		87.2	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		104.9	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		87.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	120	LOAD (AMPS) PANEL		105.0	

McCARTHY

LPA

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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. NO. 01-109870

ROSENDIN ELECTRIC

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
3	DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

1DPEA	1LE11/	1LW11/
1DPEB	1LE12	1LW12
1DPW	1EHL1	2HL1
1HP1	1HL1	1HL

PANEL SCHEDULE

E0.05A

PANEL "2LE1" — LOCATION: LEVEL 2 EAST – ELEC. RM. 5281

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Class Rm (5290)	1800	20/1P	1	3699			2	20/1P	1899	R	REC.D.-Printr/Copier(5267)
	REC-Class Rm (5290)	1800	20/1P	3		3600		4	20/1P	1800	R	REC.D.-Printr/Copier(5267)
	REC-Class Rm (5290)	1800	20/1P	5			3600	6	20/1P	1800	R	REC.D.-Printr/Copier(5267)
	REC-Class Rm (5290)	1800	20/1P	7	2160			8	20/1P	360	R	REC.-Mail Rm (5267)
	REC-Class Rm (5290)	1800	20/1P	9		3300		10	30	1500		REC.-Copier(5269)
	REC-Class Rm (5290)	1800	20/1P	11			3300	12	2P	1500		
	REC-Class Rm (5290)	1800	20/1P	13	2520			14	20/1P	720	R	REC.Gen.-Work Rm (5269)
R	REC-Projector (5290)	1000	20/1P	15		1720		16	20/1P	720	R	REC.- Off. (5271)
R	REC-ClassRm (5290)	720	20/1P	17			1440	18	20/1P	720	R	REC.- Off. (5273)
R	REC.Gen.-Corrid(5281,5279)	1260	20/1P	19	2460			20	20/1P	1200		JB-FSD
R	REC.Gen.-Corridor (5207B)	720	20/1P	21		720		22	20/1P			SPARE
	JB-BMS (5281)	500	20/1P	23			860	24	20/1P	360		REC-(5265)
R	REC-Off. (5277)	720	20/1P	25	720			26	20/1P			SPARE
R	REC-Off. (5275)	720	20/1P	27		1220		28	20/1P	500		JB-FSD
	JB-VON DUPRIN (MDF5265)	720	20/1P	29			720	30	20/1P			SPARE
	REC-CLASSRM (5290)	1000	20/1P	31	1000			32	20/1P			SPARE
	SPARE		20/1P	33		0		34	20/1P			SPARE
	FACP – ELEC. RM.	200	20/1P	35			200	36	20/1P			SPARE
	SPARE		20/1P	37	7440			38	100A	7440		
	SPARE		20/1P	39		6840		40	--	6840		PANEL '2LEM'
	SPARE		20/1P	41			5280	42	3P	5280		
					19999	17400	15400					
					166	145	128					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		52.8	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		146.6	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		11.6	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		39.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL		142.3	

PANEL SEC. 1 "2LW11" — LOCATION: LEVEL 2 WEST – ELEC. RM. 5210

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-CLASS RM(5202)	1800	20/1P	1	2800			2	20/1P	1000	R	REC-Wall Fan-Spini'g(5253)
	REC-CLASS RM(5202)	1800	20/1P	3		2800		4	20/1P	1000		REC-Spinning (5253)
	REC-CLASS RM(5202)	1800	20/1P	5			2800	6	20/1P	1000		REC-Spinning (5253)
	REC-CLASS RM(5202)	1800	20/1P	7	2800			8	20/1P	1000	R	REC-ProjectorSpinni'g(5253)
	REC-CLASS RM(5202)	1800	20/1P	9		2700		10	20/1P	900	R	REC-PAS-Cosmet'olgy5251
	REC-CLASS RM(5202)	1800	20/1P	11			2800	12	20/1P	1000	R	REC-Register-Cosme.(5251)
R	REC-Projector (5202)	1000	20/1P	13	2000			14	20/1P	1000	R	REC-Cosme.Receptn(5251)
R	REC.General-ClassRm(5202)	900	20/1P	15		2160		16	20/1P	1260	R	REC.General-Lobby(5204)
	REC-Towel Warmer (5220)	1000	20/1P	17			1900	18	20/1P	900	R	REC.Cosmet. Lobby(5210)
	REC-Towel Warmer (5220)	1000	20/1P	19	2000			20	20/1P	1000	R	REC-LCD TV (5210)
	REC.Ded.-Esthetics(5220)	1800	20/1P	21		2700		22	20/1P	900	R	REC-Corridor(5205A)
	REC.Ded.-Esthetics(5220)	1800	20/1P	23			2300	24	20/1P	500		JB-FSD
	REC.Ded.-Esthetics(5220)	1800	20/1P	25	2880			26	20/1P	1080	R	REC-Women's (5250)
	REC.Ded.-Esthetics(5220)	1800	20/1P	27		1800		28	20/1P			SPARE
	REC.Ded.-Esthetics(5220)	1800	20/1P	29			2800	30	20/1P	1000		REC-Hand dryer (5250)
	REC.Ded.-Esthetics(5220)	1800	20/1P	31	3060			32	20/1P	1260	R	REC-Men's (5261)
	REC.-LCD TV (5220)	1000	20/1P	33		1000		34	20/1P			SPARE
	REC.Ded.-Projector (5220)	1000	20/1P	35			2000	36	20/1P	1000		REC-Hand dryer (5261)
	REC-CLASS RM(5202)	1800	20/1P	37	1800			38	20/1P			SPARE
	REC-CLASS RM(5202)	1800	20/1P	39		1800		40	20/1P			SPARE
	REC-CLASS RM(5202)	1800	20/1P	41			1800	42	20/1P			SPARE
					17340	14960	16400					
					144	124	136					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		48.7	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		135.2	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		11.6	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		35.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		129.5	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		212.2	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "2LW12" — LOCATION: LEVEL 2 WEST – ELEC. RM. 5210

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC.Ded.-Esthet.(5220)	1800	20/1P	43	2520			44	20/1P	720	R	REC-PILATES (5259)
	REC.Ded.-Esthet.(5220)	1800	20/1P	45		2800		46	20/1P	1000	R	REC-Projector (5259)
	REC.Ded.-Esthet.(5220)	1800	20/1P	47			2300	48	20/1P	500	R	REC-PILATES (5259)
R	REC-Esthet.(5220)	720	20/1P	49	1620			50	20/1P	900	R	REC-YOGA Rm (5257)
R	REC-ELEC RM (5210)	1260	20/1P	51		2260		52	20/1P	1000	R	REC-Projector (5257)
R	REC-OFF (5230)	1080	20/1P	53			2080	54	20/1P	1000	R	REC-Projector (5255)
R	REC-OFF (5230)	1080	20/1P	55	2340			56	20/1P	1260	R	REC-Group exercise (5255)
	JB-BMS (5210)	500	20/1P	57		1000		58	20/1P	500		JB-FSD
R	REC-General(5203)	900	20/1P	59			1400	60	20/1P	500		JB-BMS Control Pnl.5210)
	JB-VON DUPRIN	500	20/1P	61	500			62	20/1P			SPARE
R	REC.Register (5201)	1000	20/1P	63		2200		64	20/1P	1200		EF-4 (0.5 HP)
R	REC.Display (5201)	1000	20/1P	65			1822	66	20/1P	822		EF-7
R	REC.Coffee Machine 5201)	1200	20/1P	67	1200			68	20/1P			SPARE
R	REC.Coffee Machine (5201)	1200	20/1P	69		1200		70	20/1P			SPARE
R	REC-Refrigerator(5201)	1000	20/1P	71			1000	72	20/1P			SPARE
	JB-FSD (5220)	1260	20/1P	73	1260			74	20/1P			SPARE
	FACP – ELEC. RM. 5210	200	20/1P	75		200		76	20/1P			SPARE
R	REC-EXTERIOR	180	20/1P	77			180	78	20/1P			SPARE
	SPARE		20/1P	79	0			80				SPACE
	SPARE		20/1P	81		0		82				SPACE
	SPARE		20/1P	83			0	84				SPACE
					9440	9660	8782					
					79	80	73					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		27.9	
AIC RATING:	22 KAIC	CONNECTED AMPS:		77.4	
BUS:	CU	RECEPTACLE KVA LOAD		13.5	
NEUTRAL:	100%	OTHER KVA LOAD		16.3	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	190	LOAD (AMPS) PANEL SEC.2		82.7	

PANEL "2LEM" — LOCATION: LEVEL 2 EAST – TDA RM (MDF – 5265)

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Data Rack-MDF(5265)	540	20/1	1	1080			2	20/1	540	R	REC-Data Rack-MDF(5265)
R	REC-Data Rack-MDF(5265)	1664	20	3		3328		4	20	1664	R	REC-Data Rack-MDF(5265)
R		1664	2	5			3328	6	2	1664	R	
R	REC-Data Rack-MDF(5265)	540	20/1	7	1080			8	20/1	540	R	REC-Data Rack-MDF(5265)
R	REC-Data Rack-MDF(5265)	1664	20	9		3328		10	20	1664	R	REC-Data Rack-MDF(5265)
R		1664	2	11			3328	12	2	1664	R	
R	REC-Data Rack-MDF(5265)	540	20/1	13	1080			14	20/1	540	R	REC-Data Rack-MDF(5265)
R	REC-Data Rack-MDF(5265)	1664	20	15		3328		16	20	1664	R	REC-Data Rack-MDF(5265)
R		1664	2	17			3328	18	2	1664	R	
	SPARE		20/1	19	540			20	20/1	540	R	REC-Data Rack-MDF(5265)
	SPARE		20/1	21		1664		22	20	1664	R	REC-Data Rack-MDF(5265)
	SPARE		20/1	23			1664	24	2	1664	R	
R	L5-30R-UPS	1440	30	25	1800			26	20/1	360	R	REC-MDF (5265)
		1440	2	27		2340		28	20/1	900	R	REC-MDF (5265)
R	L5-20R-UPS	960	20	29			960	30				
		960	2	31	960			32				
R	Security Pnl 1-MDF(5-265)	800	20/1	33		800		34				
R	Security Pnl 1-MDF(5-265)	800	20/1	35			800	36				
				37	0			38				
				39		0		40				
				41			0	42				
					6540	14788	13408					
					54	123	112					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		34.7	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		96.4	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		21.2	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		2.4	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		65.5	

PANEL SEC. 1 "2LECS11" — LOCATION: LVL. 2 EAST SENIOR COSMETOLOGY LAB 5260P

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Sen.Lab. Sta.(5260P)	1800	20/1P	1	3600			2	20/1P	1800		REC-Sen.Lab. Sta.(5260M)
	REC-Sen.Lab. Sta.(5260P)	1800	20/1P	3		3600		4	20/1P	1800		REC-Sen.Lab. Sta.(5260M)
	REC-Sen.Lab. Sta.(5260P)	1800	20/1P	5			3600	6	20/1P	1800		REC-Sen.Lab. Sta.(5260M)
	REC-Sen.Lab. Sta.(5260P)	1800	20/1P	7	3600			8	20/1P	1800		REC-Sen.Lab. Sta.(5260M)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	9		3600		10	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	11			3600	12	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	13	3600			14	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	15		3600		16	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	17			3600	18	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	19	3600			20	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	21		3600		22	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260N)	1800	20/1P	23			3600	24	20/1P	1800		REC-Sen.Lab. Sta.(5260L)
	REC-Sen.Lab. Sta.(5260M)	1800	20/1P	25	7800			26	100	6000		DRYER
	REC-Sen.Lab. Sta.(5260M)	1800	20/1P	27		7800		28		6000		
	REC-Sen.Lab. Sta.(5260M)	1800	20/1P	29			7800	30	3P	6000		
	REC-Sen.Lab. Sta.(5260M)	1800	20/1P	31	1800			32	20/1P			SPARE
	SPARE		20/1P	33		0		34				SPACE
	SPARE		20/1P	35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					24000	22200	22200					
					200	185	185					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		68.4	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		189.9	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		68.4	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		190.1	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		297.1	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "2LECS12" — LOCATION: LVL. 2 EAST SENIOR COSMETOLOGY LAB 5260P

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Senior Lab Sta.(5260L)	1800	20/1P	43	3600			44	20/1P	1800		REC-Senior Lab Sta(5260J)
	REC-Senior Lab Sta.(5260L)	1800	20/1P	45		3600		46	20/1P	1800		REC-Senior Lab Sta.(5260J)
	REC-Senior Lab Sta.(5260L)	1800	20/1P	47			3600	48	20/1P	1800		REC-Senior Lab Sta.(5260J)
	REC-Senior Lab Sta.(5260L)	1800	20/1P	49	3600			50	20/1P	1800		REC-Senior Lab Sta.(5260J)
	REC-Senior Lab Sta(5260K)	1800	20/1P	51		3600		52	20/1P	1800		REC-Senior Lab Sta(5260H)
	REC-Senior Lab Sta(5260K)	1800	20/1P	53			3600	54	20/1P	1800		REC-Senior Lab Sta(5260H)
	REC-Senior Lab Sta(5260K)	1800	20/1P	55	3600			56	20/1P	1800		REC-Senior Lab Sta(5260H)
	REC-Senior Lab Sta(5260K)	1800	20/1P	57		3600		58	20/1P	1800		REC-Senior Lab Sta(5260H)
	REC-Senior Lab Sta(5260J)	1800	20/1P	59			3600	60	20/1P	1800		REC-Senior Lab Sta.(5260)
	REC-Senior Lab Sta(5260J)	1800	20/1P	61	2160			62	20/1P	360		REC-Senior Lab(5260)
	REC-Senior Lab Sta(5260J)	1800	20/1P	63		2160		64	20/1P	360		REC-Senior Lab (5260)
	REC-Senior Lab Sta(5260J)	1800	20/1P	65			1800	66	20/1P			SPARE
	SPACE			67	0			68				SPACE
	SPACE			69		0		70				SPACE
	SPACE			71			0	72				SPACE
	SPACE			73	0			74				SPACE
	SPACE			75		0		76				SPACE
	SPACE			77			0	78				SPACE
	SPACE			79	0			80				SPACE
	SPACE			81		0		82				SPACE
	SPACE			83			0	84				SPACE
					12960	12960	12600					
					108	108	105					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		38.5	
AIC RATING:	22 KAIC	CONNECTED AMPS:		106.9	
BUS:	CU	RECEPTACLE KVA LOAD		0.0	
NEUTRAL:	100%	OTHER KVA LOAD		38.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	130	LOAD (AMPS) PANEL SEC.2		107.0	

PANEL SEC. 1 "2LECS21" — LOCATION: LVL. 2 EAST SENIOR COSMETOLOGY LAB 5260P

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Senior Lab Sta(5260C)	1700	20/1P	1	2700			2	20/1P	1000		REC-Senior Lab Sta(5260D)
	REC-Senior Lab Sta(5260C)	1700	20/1P	3		3400		4	20/1P	1700		REC-Senior Lab Sta(5260D)
	REC-Senior Lab Sta(5260C)	1700	20/1P	5			3400	6	20/1P	1700		REC-Senior Lab Sta(5260D)
	REC-Senior Lab Sta(5260C)	1700	20/1P	7	3400			8	20/1P	1700		REC-Senior Lab Sta(5260D)
	REC-Senior Lab Sta(5260C)	1700	20/1P	9		3400		10	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260C)	1700	20/1P	11			3400	12	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260C)	1700	20/1P	13	3400			14	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260C)	1700	20/1P	15		3400		16	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260D)	1700	20/1P	17			2700	18	20/1P	1000		REC- Sen. Lab (5205B)
	REC-Senior Lab Sta(5260D)	1700	20/1P	19	2700			20	20/1P	1000		REC- Sen. Lab (5205A)
	REC-Senior Lab Sta(5260D)	1700	20/1P	21		2700		22	20/1P	1000		JB-MHD (5260P)
	REC-Senior Lab Sta(5260D)	1700	20/1P	23			3400	24	20/1P	1700		REC-S.LabTeachSta(5260P)
	SPARE		20/1P	25	1000			26	20/1P	1000		REC-DVD/VHSPlayer(5260)
	SPARE		20/1P	27		1000		28	20/1P	1000		REC-LCD TV (5260)
	SPARE		20/1P	29			1000	30	20/1P	1000		REC-LCD TV(5260)
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					13200	13900	13900					
					110	116	116					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		41.0	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		113.8	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		41.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		113.9	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		216.8	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "2LECS22" — LOCATION: LVL. 2 EAST SENIOR COSMETOLOGY LAB 5260P

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Senior Lab Sta(5260F)	1700	20/1P	43	3400			44	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260F)	1700	20/1P	45		3400		46	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260F)	1700	20/1P	47			3400	48	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260F)	1700	20/1P	49	3400			50	20/1P	1700		REC-Senior Lab Sta(5260E)
	REC-Senior Lab Sta(5260G)	1700	20/1P	51		3400		52	20/1P	1700		REC-Senior Lab Sta(5260F)
	REC-Senior Lab Sta(5260G)	1700	20/1P	53			3400	54	20/1P	1700		REC-Senior Lab Sta(5260F)
	REC-Senior Lab Sta(5260G)	1700	20/1P	55	3400			56	20/1P	1700		REC-Senior Lab Sta(5260F)
	REC-Senior Lab Sta(5260G)	1700	20/1P	57		3400		58	20/1P	1700		REC-Senior Lab Sta(5260F)
	REC-Senior Lab Sta(5260G)	1700	20/1P	59			2700	60	20/1P	1000		REC-LCD TV (5260)
	REC-Senior Lab Sta(5260G)	1700	20/1P	61	2700			62	20/1P	1000		REC-LCD TV (5260)
	REC-Senior Lab Sta(5260G)	1700	20/1P	63		2700		64	20/1P	1000		REC-LCD TV (5260)
	REC-Senior Lab Sta(5260G)	1700	20/1P	65			1700	66	20/1P			SPARE
	SPARE		20/1P	67	0			68	20/1P			SPARE
	SPARE		20/1P	69		0		70	20/1P			SPARE
	SPARE		20/1P	71			0	72	20/1P			SPARE
	SPACE		20/1P	73	0			74				SPACE
	SPACE		20/1P	75		0		76				SPACE
	SPACE		20/1P	77			0	78				SPACE
	SPACE			79	0			80				SPACE
	SPACE			81		0		82				SPACE
	SPACE			83			0	84				SPACE
					12900	12900	11200					
					107	107	93					

SIZE:	400	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		37.0	
AIC RATING:	22 KAIC	CONNECTED AMPS:		102.7	
BUS:	CU	RECEPTACLE KVA LOAD		0.0	
NEUTRAL:	100%	OTHER KVA LOAD		37.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	206	LOAD (AMPS) PANEL SEC.2		102.8	

PANEL "2LECF1" — LOCATION: LEVEL 2 EAST – EYEWASH AREA 5280B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Hairdryer (5270D)	1800	20/1P	1	1800			2	20/1P			SPARE
	REC-Hairdryer (5270D)	1800	20/1P	3		2700		4	20/1P	900		JB-MHD (5280B)
	REC-Hairdryer (5270D)	1800	20/1P	5			2700	6	20/1P	900		JB-MHD (5270D)
	REC-Hairdryer (5270D)	1800	20/1P	7	2300			8	20/1P	500		REC-Timecard Mach.(5280)
	REC-Hairdryer (5270D)	1800	20/1P	9		3800		10	20A	2000		REC-Laundry Dryer(5280A)
	REC-Hairdryer (5270D)	1800	20/1P	11			3800	12	2P	2000		
	REC-Hairdryer (5270C)	1800	20/1P	13	3600			14	20/1P	1800		REC-LaundryWashr(5280A)
	REC-Hairdryer (5270C)	1800	20/1P	15		3600		16	20/1P	1800		REC-LaundryWashr(5280A)
	REC-Hairdryer (5270C)	1800	20/1P	17			2700	18	20/1P	900		REC-General(5280A)
	REC-Hairdryer (5270C)	1800	20/1P	19	2880			20	20/1P	1080		REC-Dispensary(5270A,5260A)
	REC-Hairdryer (5270C)	1800	20/1P	21		1800		22	20/1P			SPARE
	REC-Hairdryer (5270C)	1800	20/1P	23			2700	24	20/1P	900		JB-MHD (5270D)
	REC-Hairdryer (5270C)	1800	20/1P	25	2300			26	20/1P	500		REC-TimecardMach(5260A)
	REC-Hairdryer (5270C)	1800	20/1P	27		1800		28	20/1P			
	REC-Hairdryer (5270C)	1800	20/1P	29			3500	30	20/1P	1700		Rec-FreshmanLabSt(5280H)
	REC-Hairdryer (5270C)	1800	20/1P	31	3500			32	20/1P	1700		Rec-FreshmanLabSt(5280H)
	REC-Hairdryer (5270C)	1800	20/1P	33		3500		34	20/1P	1700		Rec-FreshmanLabSt(5280H)
	REC-Hairdryer (5270C)	1800	20/1P	35			3500	36	20/1P	1700		Rec-FreshmanLabSt(5280H)
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					16380	17200	18900					
					136	143	157					

SIZE:	225	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	225A/3P M.C.B.	CONNECTED KVA PANEL		52.5	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		145.7	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		52.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		145.8	

PANEL "2LECF2" — LOCATION: LEVEL 2 EAST – EYEWASH AREA 5280B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Rec-FreshmanLabSta5280C	1700	20/1P	1	3400			2	20/1P	1700		Rec-FreshmanLabSta5280C
	Rec-FreshmanLabSta5280C	1700	20/1P	3		3400		4	20/1P	1700		Rec-FreshmanLabSta5280C
	Rec-FreshmanLabSta5280C	1700	20/1P	5			3400	6	20/1P	1700		Rec-FreshmanLabSta5280C
	Rec-FreshmanLabSta5280C	1700	20/1P	7	3400			8	20/1P	1700		Rec-FreshmanLabSta5280C
	Rec-FreshmanLabSta5280C	1700	20/1P	9		3400		10	20/1P	1700		Rec-General (5280E)
	Rec-FreshmanLabSta5280C	1700	20/1P	11			3400	12	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280C	1700	20/1P	13	3400			14	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280C	1700	20/1P	15		3400		16	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280D	1700	20/1P	17			3400	18	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280D	1700	20/1P	19	3400			20	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280D	1700	20/1P	21		3400		22	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-FreshmanLabSta5280D	1700	20/1P	23			3400	24	20/1P	1700		Rec-FreshmanLabSta5280E
	Rec-LCD TV (5280E)	900	20/1P	25	1620			26	20/1P	720		Rec-General (5280)
	Rec-LCD TV (5280E)	900	20/1P	27		900		28	20/1P			SPARE
	Rec-LCD TV (5280E)	900	20/1P	29			900	30	20/1P			SPARE
	SPARE		20/1P	31	0			32				SPACE
	SPARE		20/1P	33		0		34				SPACE
	SPARE		20/1P	35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					15220	14500	14500					
					127	121	121					

SIZE:	225	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	225A/3P M.C.B.	CONNECTED KVA PANEL		44.2	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		122.7	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		44.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		122.9	

PANEL "2LECF3" — LOCATION: LEVEL 2 EAST – EYEWASH AREA 5280B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Rec-FreshmanLabSta5280H	1700	20/1P	1	3400			2	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	3		3400		4	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	5			3400	6	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	7	3400			8	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	9		3400		10	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	11			3400	12	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	13	3400			14	20/1P	1700		Rec-FreshmanLabSt.5280G
	Rec-FreshmanLabSta5280H	1700	20/1P	15		3400		16	20/1P	1700		Rec-FreshmanLabSt.5280G
	SPACE			17			0	18	20/1P			SPARE
	SPACE			19	0			20	20/1P			SPARE
	SPACE			21		0		22	20/1P			SPARE
	SPACE			23			0	24	20/1P			SPARE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					10200	10200	6800					
					85	85	57					

SIZE:	100	GROUND:	STANDARD		NOTES: Sub-Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	100A/3P M.C.B.	CONNECTED KVA PANEL		27.2	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		75.5	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		27.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		75.6	

PANEL "3HL1" — LOCATION: LEVEL 3 WEST – ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG-3RD FL. WEST	3426	20A/1P	1	3426			2				
L	LTG-3RD FL. WEST	2816	20A/1P	3		2816		4				
L	LTG-3RD FL. WEST	2156	20A/1P	5			2156	6				
L	LTG-3RD FL. WEST	2875	20A/1P	7	2875			8				
L	LTG-3RD FL. WEST	3165	20A/1P	9		3165		10				
L	LTG-3RD FL. WEST	3084	20A/1P	11			3084	12				
L	LTG-3RD FL. EAST	2709	20A/1P	13	2709			14				
L	LTG-3RD FL. EAST	3461	20A/1P	15		3461		16				
L	LTG-3RD FL. EAST	2815	20A/1P	17			2815	18				
L	LTG-3RD FL. WEST	405	20A/1P	19	405			20				
	SPARE		20A/1P	21		0		22				
L	LTG-ROOF WEST	450	20A/1P	23			450	24				
	SPARE		20A/1P	25	0			26				
	SPARE		20A/1P	27		0		28				
	SPARE		20A/1P	29			0	30				
	SPARE		20A/1P	31	0			32				
	SPARE		20A/1P	33		0		34				
	SPARE		20A/1P	35			0	36				
	SPACE			37	19200			38	100A	19200		
	SPACE			39		19200		40	--	19200		PANEL "3HL2"
	SPACE			41			19200	42	3P	19200		
					28615	28642	27705					
					103	103	100					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	480 /277V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL		85.0	
AIC RATING:	22KAIC	CONNECTED AMPS PANEL		102.2	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		85.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		102.3	

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DIVISION OF THE STATE ARCHITECT
APPL. NO. 01-109870

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2 3	DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

2LE1	2LECS11/ 2LECS12	2LECF1
2LW11/		2LECF2
2LW12	2LECS21/ 2LECS22	2LECF3
2LEM		3HL1

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

PANEL SCHEDULE

E0.05B

PANEL SEC. 1 "3LW11" — LOCATION: LEVEL 3 WEST - ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-HYGIENE (5312E)	1800	20/1P	1	3600			2	20/1P	1800		REC-HYGIENE (5312R)
	REC-HYGIENE (5312E)	1200	20/1P	3		2400		4	20/1P	1200		REC-HYGIENE (5312R)
	REC-HYGIENE (5312D)	1200	20/1P	5			2400	6	20/1P	1200		REC-HYGIENE (5312S)
	REC-HYGIENE (5312D)	1800	20/1P	7	3000			8	20/1P	1200		REC-HYGIENE (5312S)
	REC-HYGIENE (5312C)	1200	20/1P	9		2400		10	20/1P	1200		REC-HYGIENE (5312T)
	REC-HYGIENE (5312C)	1200	20/1P	11			3000	12	20/1P	1800		REC-HYGIENE (5312T)
	REC-HYGIENE (5312B)	1200	20/1P	13	3000			14	20/1P	1800		REC-HYGIENE (5312U)
	REC-HYGIENE (5312B)	1800	20/1P	15		3000		16	20/1P	1200		REC-Assisting TR. (5314U)
	REC-HYGIENE (5312A)	1200	20/1P	17			3000	18	20/1P	1800		REC-Assisting TR. (5314V)
	REC-HYGIENE (5312A)	1200	20/1P	19	2400			20	20/1P	1200		REC-Assisting TR. (5314V)
	REC-HYGIENE (5312K)	1800	20/1P	21		3000		22	20/1P	1200		REC-Assisting TR. (5314A)
	REC-HYGIENE (5312K)	1200	20/1P	23			3000	24	20/1P	1800		REC-Assisting TR. (5314A)
	REC-HYGIENE (5312J)	1200	20/1P	25	2400			26	20/1P	1200		REC-Assisting TR. (5314B)
	REC-HYGIENE (5312J)	1800	20/1P	27		3000		28	20/1P	1200		REC-Assisting TR. (5314B)
	REC-HYGIENE (5312H)	1200	20/1P	29			3000	30	20/1P	1800		REC-Assisting TR. (5314C)
	REC-HYGIENE (5312H)	1800	20/1P	31	3000			32	20/1P	1200		REC-Assisting TR. (5314C)
	REC-HYGIENE (5312G)	1200	20/1P	33		3000		34	20/1P	1800		REC-Assisting TR. (5314D)
	REC-HYGIENE (5312G)	1200	20/1P	35			2400	36	20/1P	1200		REC-Assisting TR. (5314D)
	REC-HYGIENE (5312)	1200	20/1P	37	2400			38	20/1P	1200		REC-Assisting TR. (5314E)
	REC-HYGIENE (5312F)	1200	20/1P	39		2400		40	20/1P	1200		REC-Assisting TR. (5314E)
	REC-HYGIENE (5312Q)	1200	20/1P	41			2400	42	20/1P	1200		REC-Assisting TR. (5314F)
					19800	19200	19200					
					165	160	160					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		58.2	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		161.5	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		58.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		161.7	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		316.0	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "3LW12" — LOCATION: LEVEL 3 WEST - ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-HYGIENE (5312Q)	1800	20/1P	43	3600			44	20/1P	1800		REC-Assisting Tr.(5314F)
	REC-HYGIENE (5312P)	1800	20/1P	45		3600		46	20/1P	1800		REC-Assisting Tr.(5314G)
	REC-HYGIENE (5312P)	1200	20/1P	47			3000	48	20/1P	1800		REC-Assisting Tr.(5314G)
	REC-HYGIENE (5312N)	1200	20/1P	49	3000			50	20/1P	1800		REC-Assisting Tr.(5314H)
	REC-HYGIENE (5312N)	1800	20/1P	51		3600		52	20/1P	1800		REC-Assisting Tr.(5314H)
	REC-HYGIENE (5312M)	1200	20/1P	53			3000	54	20/1P	1800		REC-Assisting Tr.(5314J)
	REC-HYGIENE (5312M)	1260	20/1P	55	3060			56	20/1P	1800		REC-Assisting Tr.(5314J)
	REC-HYGIENE (5312L)	1440	20/1P	57		3240		58	20/1P	1800		REC-Assisting Tr.(5314K)
	REC-HYGIENE (5312L)	500	20/1P	59			1580	60	20/1P	1080		REC-Assisting Tr.(5314K)
	REC-CORRIDOR	1000	20/1P	61	2080			62	20/1P	1080		REC-Radilogy (5305)
	REC-Sterilizer (5316)	1000	20/1P	63		2800		64	20/1P	1800		REC-RadilogyPanoric(5305G)
R	REC-Sterilizer (C252) GFI	1000	20	65			2800	66	20/1P	1800		REC-Radilogy (5305)
R		1000	2P	67	2800			68	20/1P	1800		REC-Radilogy Chair(5305F)
R	REC-Sterilizer (C252) GFI	1080	20	69		2080		70	20/1P	1000		REC-Radilogy Chair(5305E)
R		1080	2P	71			2080	72	20/1P	1000		REC-Radilogy Chair(5305D)
R	REC-VendingMachine(5323)	1000	20/1P	73	1900			74	20/1P	900		REC-Radilogy Chair(5305C)
R	REC-VendingMachine(5323)	1000	20/1P	75		2000		76	20/1P	1000		REC-Radilogy Chair(5305B)
	JB-VON DUPRIN	1000	20/1P	77			1900	78	20/1P	900		REC-Radilogy Chair(5305A)
	JB-FSD	540	20/1P	79	1980			80	20/1P	1440	R	REC-Corridor (5313B)
R	REC-LOUNGE(5323)	1440	20/1P	81		2440		82	20/1P	1000		REC-Processing(5305H)
R	REC-LOUNGE(5323)	540	20/1P	83			1540	84	20/1P	1000		REC-ScanX(5305H)
					18420	19760	15900					
					153	164	132					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		54.1	
AIC RATING:	22 KAIC	CONNECTED AMPS:		150.1	
BUS:	CU	RECEPTACLE KVA LOAD		9.6	
NEUTRAL:	100%	OTHER KVA LOAD		45.9	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	158	LOAD (AMPS) PANEL SEC.2		154.3	

PANEL SEC. 1 "3LW21" — LOCATION: LEVEL 3 WEST - ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Dental Lab (5330)	720	20/1P	1	1440			2	30/1P	720	R	REC-Off (5325)
	REC-Dental Lab (5330)	720	20/1P	3		1720		4	20/1P	1000	R	REC-Vend. Mach. (5318B)
	REC-Dental Lab (5330)	720	20/1P	5			1720	6	20/1P	1000	R	REC-Vend. Mach. (5318B)
	REC-Dental Lab (5330)	720	20/1P	7	1720			8	20/1P	1000	R	REC-Vend. Mach. (5318B)
	REC-Dental Lab (5330)	720	20/1P	9		1440		10	20/1P	720	R	REC-Off. (5327)
	REC-Dental Lab (5330)	720	20/1P	11			1440	12	20/1P	720	R	REC-Off. (5329)
	REC-Dental Lab (5330)	720	20/1P	13	1440			14	20/1P	720	R	REC-Off. (5331)
	REC-Dental Lab (5330)	720	20/1P	15		1440		16	20/1P	720	R	REC-Off. (5333)
	REC-Dental Lab (5330)	720	20/1P	17			1440	18	20/1P	720	R	REC-Off. (5335)
	REC-Dental Lab (5330)	720	20/1P	19	1260			20	20/1P	540	R	REC.General/Corr. (5318A)
	REC-Cutter (5330)	900	20/1P	21		1620		22	20/1P	720	R	REC-Meeting Rm (5337)
	REC-Cutter (5330)	900	20/1P	23			1620	24	20/1P	720	R	REC-Meeting Rm (5337)
R	REC-Projector (5330)	1000	20/1P	25	2000			26	20/1P	1000	R	REC-Projector (5337)
R	REC.Gen.-Dental Lab (5330)	1080	20/1P	27		1800		28	20/1P	720	R	REC-Meeting Rm (5339)
	REC-Cutter (5330)	900	20/1P	29			1620	30	20/1P	720	R	REC-Meeting Rm (5339)
	REC-DENTAL LAB (5330)	720	20/1P	31	1720			32	20/1P	1000	R	REC-Projector (5339)
	REC-DENTAL LAB (5330)	720	20/1P	33		1440		34	20/1P	720	R	REC-Meeting Rm (5339)
	REC-DENTAL LAB (5330)	720	20/1P	35			1440	36	20/1P	720	R	REC-Off. (5341)
	REC-DENTAL LAB (5330)	720	20/1P	37	1920			38	20/1P	1200	M	EF-5 (0.5HP)
	REC-DENTAL LAB (5330)	720	20/1P	39		2520		40	30	1800		STERILIZER
	REC-DENTAL LAB (5330)	720	20/1P	41			2520	42	2P	1800		
					11500	11980	11800					
					96	100	98					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		35.3	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		97.9	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		13.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		19.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		89.3	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		293.2	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "3LW22" — LOCATION: LEVEL 3 WEST - ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	REC-Dental Lab (5330)	720	20/1P	43	1440			44	20/1P	720	R	REC-Off. (5341)
	REC-Dental Lab (5330)	720	20/1P	45		1440		46	20/1P	720	R	REC-Workstation (5318D)
	REC-Dental Lab (5330)	720	20/1P	47			1440	48	20/1P	720	R	REC-Restroom (5351,5342)
	REC-Dental Lab (5330)	720	20/1P	49	720			50	20/1P			SPARE
	REC-Lathe (5330)	720	20/1P	51		1720		52	20/1P	1000		JB-Hand Dryer (5354)
R	REC-General/lobby (5330)	720	20/1P	53			1440	54	20/1P	720	R	REC-Meeting Rm (5340)
R	REC-Consultation	720	20/1P	55	1440			56	20/1P	720	R	REC-Faculty (5334)
	REC-FACP Elec Rm.(5321)	720	20/1P	57		1440		58	20/1P	720	R	REC-Faculty (5334)
	REC-BMS (5321)	720	20/1P	59			1440	60	20/1P	720	R	REC-Faculty (5334)
R	REC-ELEC RM (5330)	720	20/1P	61	1260			62	20/1P	540	R	REC-Faculty Kitchen (5334)
R	REC-Cons.Rm (5308,5306)	1500	20/1P	63		3000		64	20/1P	1500	R	REC-Microwave-Kit.(5334)
R	REC-Dental Front Off(5304)	1800	20/1P	65			3300	66	20/1P	1500	R	REC-Insta Hot (3534)
R	REC-Women's(5350)	1440	20/1P	67	2940			68	20/1P	1500	R	REC-Garbage Disp. (5334)
R	JB-Hand Dryer (5350)	1000	20/1P	69		2800		70	20/1P	1800	R	REC-Coffee Maker (5334)
R	REC-MICROWAVE LOUNGE	1500	20/1P	71			3300	72	20/1P	1800	L	Tracklight-ASST TR.(5314)
	JB-FSD 3rd Fl West	500	20/1P	73	2300			74	20/1P	1800	L	Tracklight-ASST TR.(5314)
R	REC-ROOF	1080	20/1P	75		2880		76	20/1P	1800	L	Tracklight-ASST TR.(5314)
M	EF-6; 1/8 HP-ROOF	350	20/1P	77			2150	78	20/1P	1800	L	Tracklight-ASST TR.(5314)
L	TRACKLIGHT-ASST TR.(5314)	1800	20/1P	79	11000			80	100A	9200		
L	TRACKLIGHT-ASST TR.(5314)	1800	20/1P	81		11000		82	--	9200		PANEL "3LW31"
	STERILIZER		20/1P	83			9200	84	3P	9200		
					21100	24280	22270					
					175	202	185					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		67.7	
AIC RATING:	22 KAIC	CONNECTED AMPS:		187.8	
BUS:	CU	RECEPTACLE KVA LOAD		16.2	
NEUTRAL:	100%	OTHER KVA LOAD		57.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	231	LOAD (AMPS) PANEL SEC.2		203.8	

PANEL SEC. 1 "3LE11" — LOCATION: LEVEL 3 EAST - ELEC. RM. 5377

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Classroom (5390)	1700	20/1P	1	2600			2	20/1P	900	R	REC-Corrid.(5320B-A,5377,5375)
R	REC-Classroom (5390)	1700	20/1P	3		2200		4	20/1P	500		JB-BMS
R	REC-Classroom (5390)	1700	20/1P	5			2700	6	20/1P	1000	R	REC-OFF (5373)
R	REC-Classroom (5390)	1700	20/1P	7	2700			8	20/1P	1000	R	REC-OFF (5371)
R	REC-Classroom (5390)	1700	20/1P	9		2600		10	20/1P	900	R	REC-OFF (5369)
R	REC-Classroom (5390)	1700	20/1P	11			2600	12	20/1P	900	R	REC-OFF (5367)
	SPARE		20/1P	13	900			14	20/1P	900	R	REC-OFF(5365,5320C,5370)
R	REC-Projector (5390)	1000	20/1P	15		1900		16	20/1P	900	R	REC-OFF (5363)
	REC-Classroom (5390)	720	20/1P	17			1260	18	20/1P	540	R	REC-DIR OFF (5361)
	JB-FSD	500	20/1P	19	1040			20	20/1P	540	R	REC-DIR OFF (5361A)
	JB-Von Duprin	500	20/1P	21		1300		22	20/1P	800		JB-FSD
	SPARE		20/1P	23			900	24	20/1P	900	R	REC- RM (5345,5319C)
	SPARE		20/1P	25	0			26	20/1P			SPARE
	SPARE		20/1P	27		0		28	20/1P			SPARE
	SPARE		20/1P	29			0	30	20/1P			SPARE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	12740			38	150	12740		
	SPACE			39		11960		40	--	11960		PANEL "3LEN"
	SPACE			41			10820	42	3P	10820		
					19980	19960	18280					
					166	166	152					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA PANEL SEC. 1		58.2	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL SEC. 1		161.6	
BUS:	CU	RECEPTACLE KVA LOAD PANEL SEC. 1		14.8	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		38.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		148.3	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		215.3	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 "3LE12" — LOCATION: LEVEL 3 EAST - ELEC. RM. 5377

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Classroom (5352)	1800	20/1P	43	2520			44	20/1P	720		JB-Classroom (5354)
R	REC-Classroom (5352)	1800	20/1P	45		2520		46	20/1P	720		JB-Classroom (5354)
R	REC-Classroom (5352)	1800	20/1P	47			2520	48	20/1P	720		JB-Classroom (5354)
R	REC-Classroom (5352)	1800	20/1P	49	2520			50	20/1P	720		JB-Classroom (5354)
R	REC-Classroom (5352)	1800	20/1P	51		2520		52	20/1P	720		JB-Classroom (5354)
R	REC-Projector (5354)	1800	20/1P	53			2520	54	20/1P	720		JB-Classroom (5354)
	SPARE		20/1P	55	1080			56	20/1P	1080		JB-Classroom (5354)
	REC-Classroom (5352)	1800	20/1P	57		1800		58	20/1P			SPARE
	REC-Classroom (5352)	1800	20/1P	59			3600	60	20/1P	1800		REC-Classroom (5354)
	REC-Classroom (5352)	1800	20/1P	61	1800			62	20/1P			SPARE
	SPARE		20/1P	63		0		64	20/1P			SPARE
	REC/LTG-ROOF	1080	20/1P	65			1080	66	20/1P			SPARE
	SPARE		20/1P	67	0			68	20/1P			SPARE
	SPARE		20/1P	69		0		70	20/1P			SPARE
	SPARE		20/1P	71			0	72	20/1P			SPARE
	SPACE		20/1P	73	0			74				SPACE
	SPACE		20/1P	75		0		76				SPACE
	SPACE		20/1P	77			0	78				SPACE
	SPACE		20/1P	79	0			80				SPACE
	SPACE			81		0		82				SPACE
	SPACE			83			0	84				SPACE
					7920	6840	9720					
					66	57	81					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	FEED THRU	CONNECTED KVA:		24.5	
AIC RATING:	22 KAIC	CONNECTED AMPS:		67.9	
BUS:	CU	RECEPTACLE KVA LOAD		10.4	
NEUTRAL:	100%	OTHER KVA LOAD		13.7	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	172	LOAD (AMPS) PANEL SEC.2		66.9	

PANEL "3LW31" — LOCATION: LEVEL 3 WEST ELEC. RM. 5321

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
M	Air Compressor	4600	100A	1	4600			2	20/1P			SPARE
M	3rd Flr West - 5301	4600	2P	3		4600		4	20/1P			SPARE
M	Air Compressor	4600	100A	5			4600	6	20/1P			SPARE
M	3rd Flr West - 5301	4600	2P	7	4600			8	20/1P			SPARE
M	Vacuum Pump	4600	100A	9		4600		10	20/1P			SPARE
M	3rd Flr West - 5301	4600	2P	11			4600	12	20/1P			SPARE
	STERILIZER		20	13	0			14				SPACE
			2P	15		0		16				SPACE
	SPACE			17			0	18				SPACE
	SPACE			19	0			20				SPACE
	SPACE			21		0		22				SPACE
	SPACE			23			0	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					9200	9200	9200					
					77	77	77					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	100A/3P M.C.B.	CONNECTED KVA PANEL		27.6	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		76.6	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		27.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		76.7	

PANEL "3LEN" — LOCATION: LEVEL 3 EAST - STORAGE RM. 5360B

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC-Nursing-Suite (5360E)	1080	20/1P	1	2280			2	20/1P	1200	R	REC-Nursing SkillLab(5360)
R	REC-Nursing-Suite(5360E)	1080	20/1P	3		2280		4	20/1P	1200	R	REC-Nursing Skill Lab(5360)
R	REC-Simulated Lab (5360E)	1080	20/1P	5			2080	6	20/1P	1000		JB-Projector (5360)
R	REC-Nursing(5360C-D-E,5370E)	900	20/1P	7	900			8	20/1P			SPARE
	JB-VAC (5360)	1000	20/1P	9		2200		10	20/1P	1200	R	REC-Nursing Skill Lab(5360,5319B)
	JB-COMPRESSOR (5360B)	1000	20/1P	11			1500	12	20/1P	500		JB-Von Duprin(5360,5380)
R	REC-N.Control Rm(5360A)	720	20/1P	13	1920			14	20/1P	1200	R	REC-Nursing Skill Lab(5360)
R	REC-Headwall-Suite(5360C)	1080	20/1P	15		2160		16	20/1P	1080	R	REC-Supply Rm (5370A)
R	REC-Headwall-Suite(5360C)	1080	20/1P	17			2280	18	20/1P	1200	R	REC-Nursing Skill Lab(5380)
R	REC-Headwall-Suite (5370C)	1080	20/1P	19	2280			20	20/1P	1200	R	REC-Nursing Skill Lab(5380)
R	REC-Headwall-Suite (5370C)	1080	20/1P	21		2080		22	20/1P	1000		JB-Projector (5380)
R	REC-Headwall-Suite(5370D)	1080	20/1P	23			1080	24	20/1P			SPARE
R	REC-Headwall-Suite(5370D)	1080	20/1P	25	2280			26	20/1P	1200	R	REC-Nursing Skill Lab(5380)
R	REC-Headwall-Suite (5380E)	1080	20/1P	27		2160		28	20/1P	1080	R	REC-Headwall-Suite 5380C
R	REC-Headwall-Suite(5380E)	1080	20/1P	29			2160	30	20/1P	1080	R	REC-Headwall-Suite 5380C
R	REC-Headwall-Suite(5380E-D)	1080	20/1P	31	2080			32	20/1P	1000		JB-CAMERA (5380)
R	REC-Headwall-(5380D)	1080	20/1P	33		1080		34	20/1P			SPARE
R	REC-N.Control Rm((5360C))	720	20/1P	35			720	36	20/1P			SPARE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					11740	11960	9820					
					98	99	82					

SIZE:	150	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:			
LUGS:	150A/3P M.C.B.	CONNECTED KVA PANEL		33.5	
AIC RATING:	22 KAIC	CONNECTED AMPS PANEL		93.0	
BUS:	CU	RECEPTACLE KVA LOAD PANEL		19.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		5.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	120	LOAD (AMPS) PANEL		68.1	

LCP1

JOB NAME: COLLEGE OF SAN MATEO BLDG. 5N
LCP LOCATION: LEVEL 1 ELECTRICAL CLOSET 5-101
LCP NAME: LCP1
NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Control Area	Notes
R1	1HL1-5a		Normal	277V	Lobby 5-109; Corridor 5-110	
R2	1HL1-5b		Normal	277V	Lobby 5-109; Corridor 5-114A	
R3	1HL1-5c		Normal	277V	Wellness Reception 5-109A	
R4	1HL1-5d		Normal	277V	Lobby 5-109; Corridor 5-110	Interior Photosensor Interface
R5	1HL1-5f		Normal	277V	Lobby 5-111	
R6	1EHL1-20		Emergency	277V	Exterior Entry 5-108; South Exterior	Interior Photosensor Interface
R7	1HL1-7k		Normal	277V	Training 5-160	
R8	1HL1-9a		Normal	277V	Training 5-160H	
R9	1HL1-9b		Normal	277V	Training 5-160H	
R10	1HL1-9c		Normal	277V	Training 5-160H	Interior Photosensor Interface
R11	1HL1-11d		Normal	277V	Training 5-160G	
R12	1HL1-11e		Normal	277V	Training 5-160G	
R13	1HL1-11f		Normal	277V	Training 5-160G	Interior Photosensor Interface
R14	1HL1-13g		Normal	277V	Training 5-160F	
R15	1HL1-13h		Normal	277V	Training 5-160F	
R16	1HL1-13i		Normal	277V	Training 5-160F	Interior Photosensor Interface
R17	1EHL-1		Emerg.	277V	Exterior Wall at Pool Area	Exterior Photosensor Interface
R18	(Spare)					
R19	(Spare)					
R20	(Spare)					
R21	(Spare)					
R22	(Spare)					
R23	(Spare)					
R24	(Spare)					

LCP2

JOB NAME: COLLEGE OF SAN MATEO BLDG. 5N
LCP LOCATION: LEVEL 2 ELECTRICAL CLOSET 5-210
LCP NAME: LCP2
NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Control Area	Notes
R1	2HL1-7b		Normal	277V	Lobby 5-201	Interior Photosensor Interface
R2	2HL1-7c		Normal	277V	Lobby 5-201; Lobby 5-204	
R3	2HL1-7d		Normal	277V	Lobby 5-201; Lobby 5-204	
R4	2HL1-7e		Normal	277V	Exterior North Entry	Exterior Photosensor Interface
R5	2HL1-7g		Normal	277V	Corridor 5-206B	
R6	2HL1-9h		Normal	277V	Corridors 5-205A; 5-205B	
R7	2HL1-19		Normal	277V	Window Dnlts Yoga 5-257 & Pilates 5-259	
R8	2HL1-21		Normal	277V	Exterior West Downlights	Exterior Photosensor Interface
R9	1EHL1-14		Emergency	277V	Exterior North Entry	Exterior Photosensor Interface
R10	2HL1-9k		Normal	277V	Corridor 5-207B	Interior Photosensor Interface
R11	(Spare)					
R12	(Spare)					
R13	(Spare)					
R14	(Spare)					
R15	(Spare)					
R16	(Spare)					

LCP3

JOB NAME: COLLEGE OF SAN MATEO BLDG. 5N
LCP LOCATION: LEVEL 3 ELECTRICAL CLOSET 5-321
LCP NAME: LCP3
NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Control Area	Notes
R1	3HL1-9a		Normal	277V	Corridors 313A,313B,313C,318A,318C,319A	
R2	3HL1-9b		Normal	277V	Lobby 5-307	
R3	3HL1-9c		Normal	277V	Lobby 5-307	
R4	3HL1-31a		Normal	277V	Corridor 5-319B	
R5	3HL1-31b		Normal	277V	Corridor 5-320B	Interior Photosensor Interface
R6	3HL1-33		Normal	277V	Downlights @ North & South Windows	
R7	(Spare)					
R8	(Spare)					
R9	(Spare)					
R10	(Spare)					
R11	(Spare)					
R12	(Spare)					
R13	(Spare)					
R14	(Spare)					
R15	(Spare)					
R16	(Spare)					

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E0.05C_Panel Schedules.dwg - Dec 13, 2010 Monday - 1:21pm - 30x42-Plt - wecheverria

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College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2, 3	DSA Submittal	10/15/08
4	Coordination - Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

3LW11/ 3LW12	3LW21/ 3LW22	3LE11/ 3LE12
	3LW31	3LEN
LCP1	LCP2	LCP3

PANEL SCHEDULES & LCP SCHEDULES

E0.05C

GENERAL NOTES

A. ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.

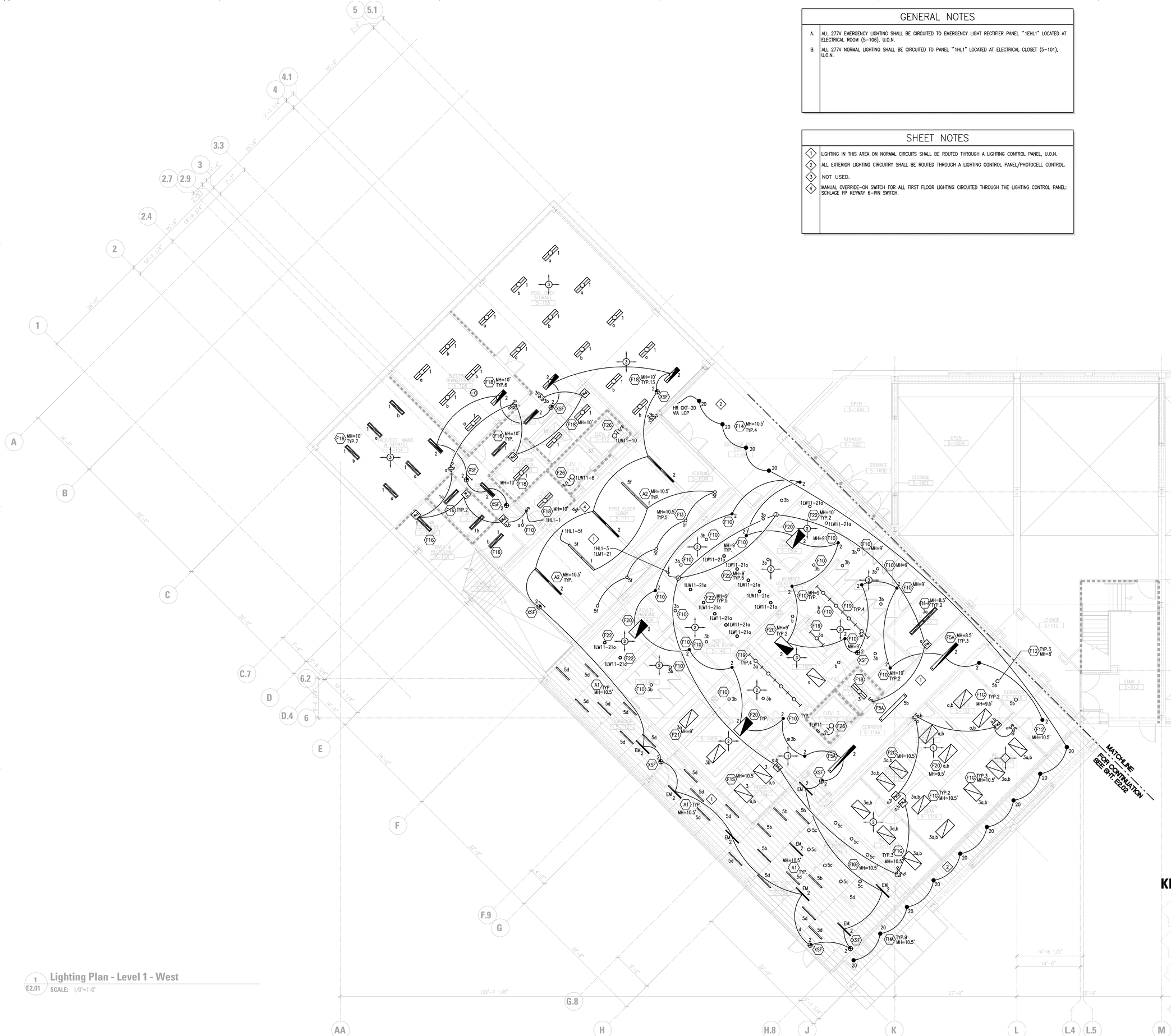
B. ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "1HL1" LOCATED AT ELECTRICAL CLOSET (5-101), U.O.N.

SHEET NOTES

1. LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
2. ALL EXTERIOR LIGHTING CIRCUITRY SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL/PHOTOCELL CONTROL.
3. NOT USED.
4. MANUAL OVERRIDE-ON SWITCH FOR ALL FIRST FLOOR LIGHTING CIRCUITED THROUGH THE LIGHTING CONTROL PANEL: SCHLAGE FP KEYWAY 6-PIN SWITCH.

LEGEND: OCCUPANCY SENSORS

- CI-200
- CI-200-1
- DT-200
- DT-300
- PW PW-100
- PW2 PW-200
- TS TS-400
- UT-300-1
- UT-300-2
- UT-300-3



1 E2.01 **Lighting Plan - Level 1 - West**
SCALE: 1/8"=1'-0"

KEY PLANS

PROJECT NORTH

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Arizona California Nevada New Mexico Oregon

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Mark/Rev	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	95% Submittal	06/13/08
1	100% Coordination Documents	09/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Mark/Rev	Description	Date
1	DF/ASF CHANGES	12/01/09
2	CONTRACT DOCUMENTS REVISION PER WHITEPAPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Job. No. 103-300085
Date 06.12.2008
Scale AS SHOWN

Lighting Plan
Level 1 - West

E2.01

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GENERAL NOTES

A. ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.

B. ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "1HL1" LOCATED AT ELECTRICAL CLOSET (5-701), U.O.N.

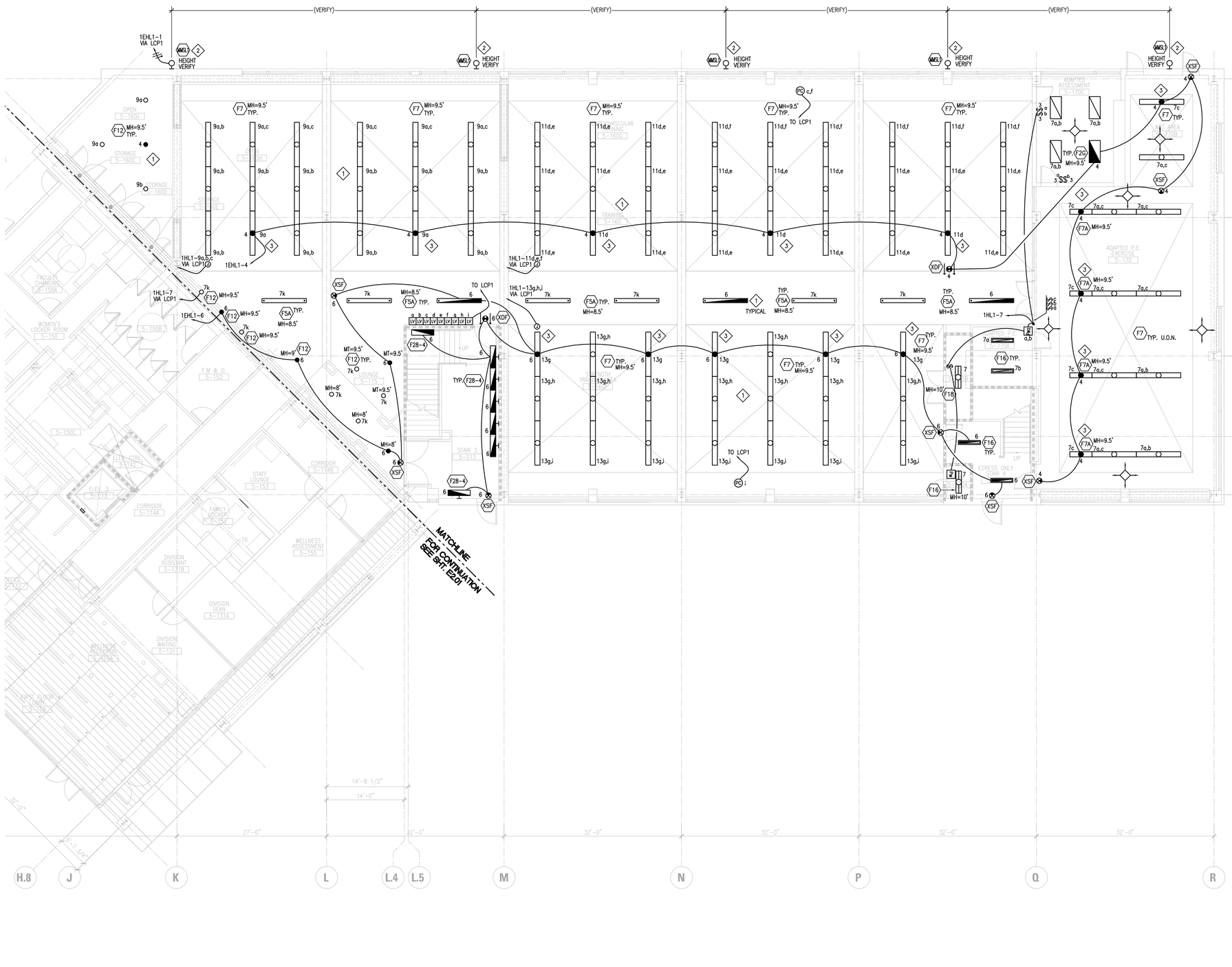
C. FOR WALL MOUNTED EXTERNAL LIGHTING AT POOL AREA (ALONG GRID LINE "9"), REFER TO SITE LIGHTING E2.05. LIGHTING FIXTURE TYPE "MMSL1" SHALL BE CIRCUITED TO PANEL "1EHL1-1 VIA LCP-1.

SHEET NOTES

1. LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
2. ALL EXTERIOR LIGHTING CIRCUITRY SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL/PHOTOCELL CONTROL.
3. HALF OF LAMPS IN FIXTURE ARE CONNECTED TO AN EMERGENCY POWER CIRCUIT, AND HALF OF LAMPS IN FIXTURE ARE CONNECTED TO A NORMAL POWER CIRCUIT.
4. NOT USED.
5. EMERGENCY LIGHT FIXTURE FOR "AREA OF REFUGE".

LEGEND: OCCUPANCY SENSORS

- CI-200
- CI-200-1
- DT-200
- DT-300
- PW PW-100
- PW2 PW-200
- TS TS-400
- UT-300-1
- UT-300-2
- UT-300-3



KEY PLANS

PROJECT NORTH

1 / E2.02 Lighting Plan - Level 1 - East

SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.02_Lighting Plan Level 1-East.dwg – Dec 13, 2010 Monday – 1:22pm – 30x42-Plt – wecheverria

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APPL. NO. 01-109870

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ADAM P. MAZZERA
No. E-19112
ELECTRICAL
STATE OF CALIFORNIA

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Number	Description	Date
7	UF/MDF CHANGES	12/01/09
8	DOORMAT SMOKES REMOVE PER MATSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/19/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	09/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/19/10

Job. No. 859-300085
Date 06.13.2008
Scale AS SHOWN

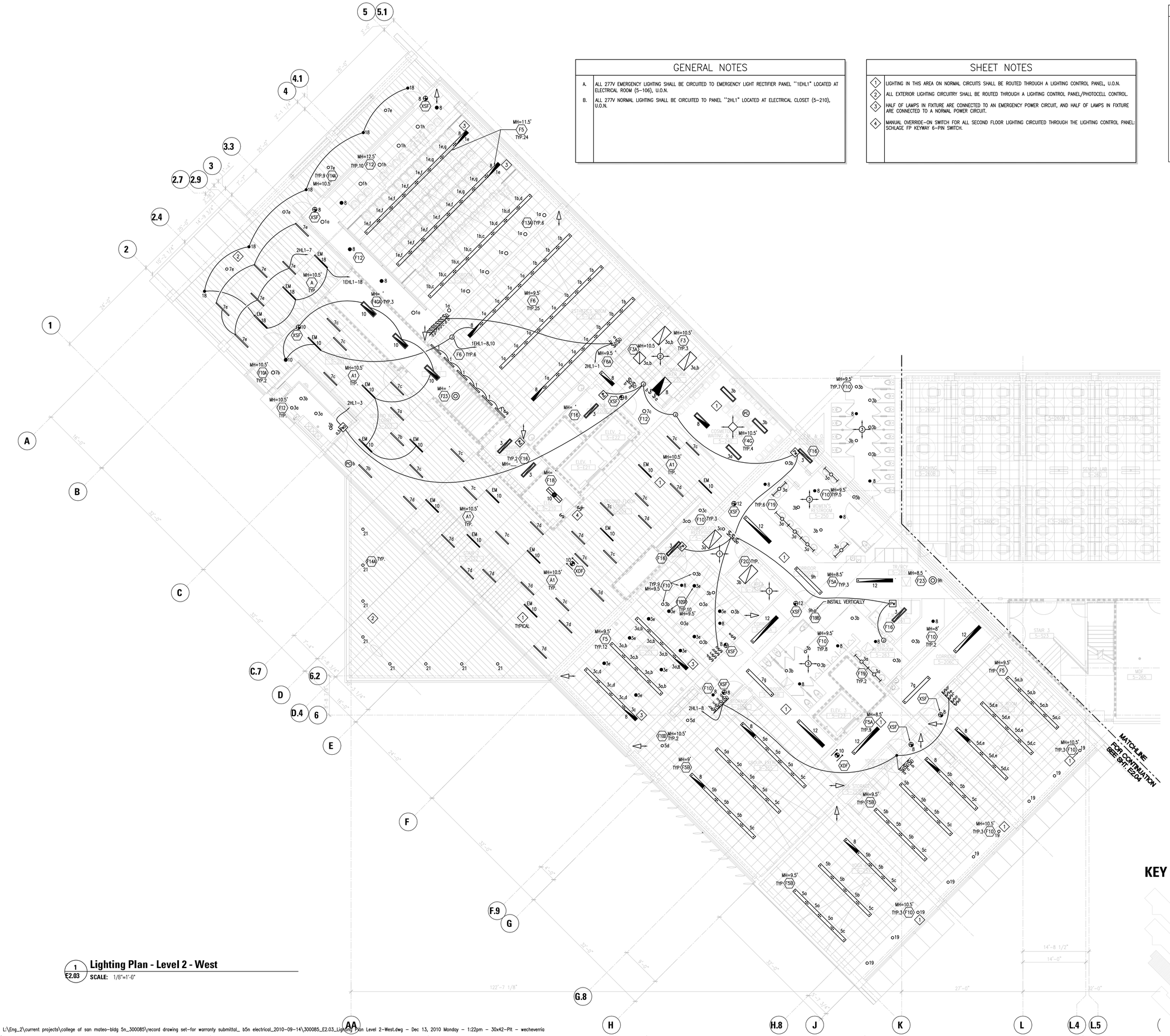
Lighting Plan
Level 1 - East

E2.02

College of San Mateo
Building 5N
Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District



GENERAL NOTES

A.	ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.
B.	ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "2HL1" LOCATED AT ELECTRICAL CLOSET (5-210), U.O.N.

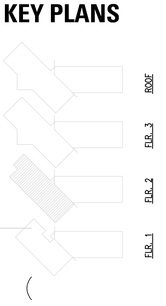
SHEET NOTES

1	LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
2	ALL EXTERIOR LIGHTING CIRCUITRY SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL/PHOTOCELL CONTROL.
3	HALF OF LAMPS IN FIXTURE ARE CONNECTED TO AN EMERGENCY POWER CIRCUIT, AND HALF OF LAMPS IN FIXTURE ARE CONNECTED TO A NORMAL POWER CIRCUIT.
4	MANUAL OVERRIDE-ON SWITCH FOR ALL SECOND FLOOR LIGHTING CIRCUITED THROUGH THE LIGHTING CONTROL PANEL: SCHLAGE FP KEYWAY 6-PIN SWITCH.

LEGEND: OCCUPANCY SENSORS

- CI-200
- CI-200-1
- DT-200
- DT-300
- PW-100
- PW-200
- TS-400
- UT-300-1
- UT-300-2
- UT-300-3

KEY PLANS



PROJECT NORTH

1 E2.03 **Lighting Plan - Level 2 - West**

SCALE: 1/8"=1'-0"

McCARTHY LPA KH

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APPL. NO. 01-109870

REGISTERED PROFESSIONAL ENGINEER
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EXP. 3/31/11
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Bulletin #4
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Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WHITSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	3 DSA Submittal	10/15/08
4	Coordination - Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

Lighting Plan
Level 2 - West

E2.03

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.03_Lighting Plan Level 2-West.dwg - Dec 13, 2010 Monday - 1:22pm - 30x42-Plt - wecheverria

LEGEND: OCCUPANCY SENSORS
CI-200
CI-200-1
DT-200
DT-300
PW-100
PW-200
TS-400
UT-300-1
UT-300-2
UT-300-3

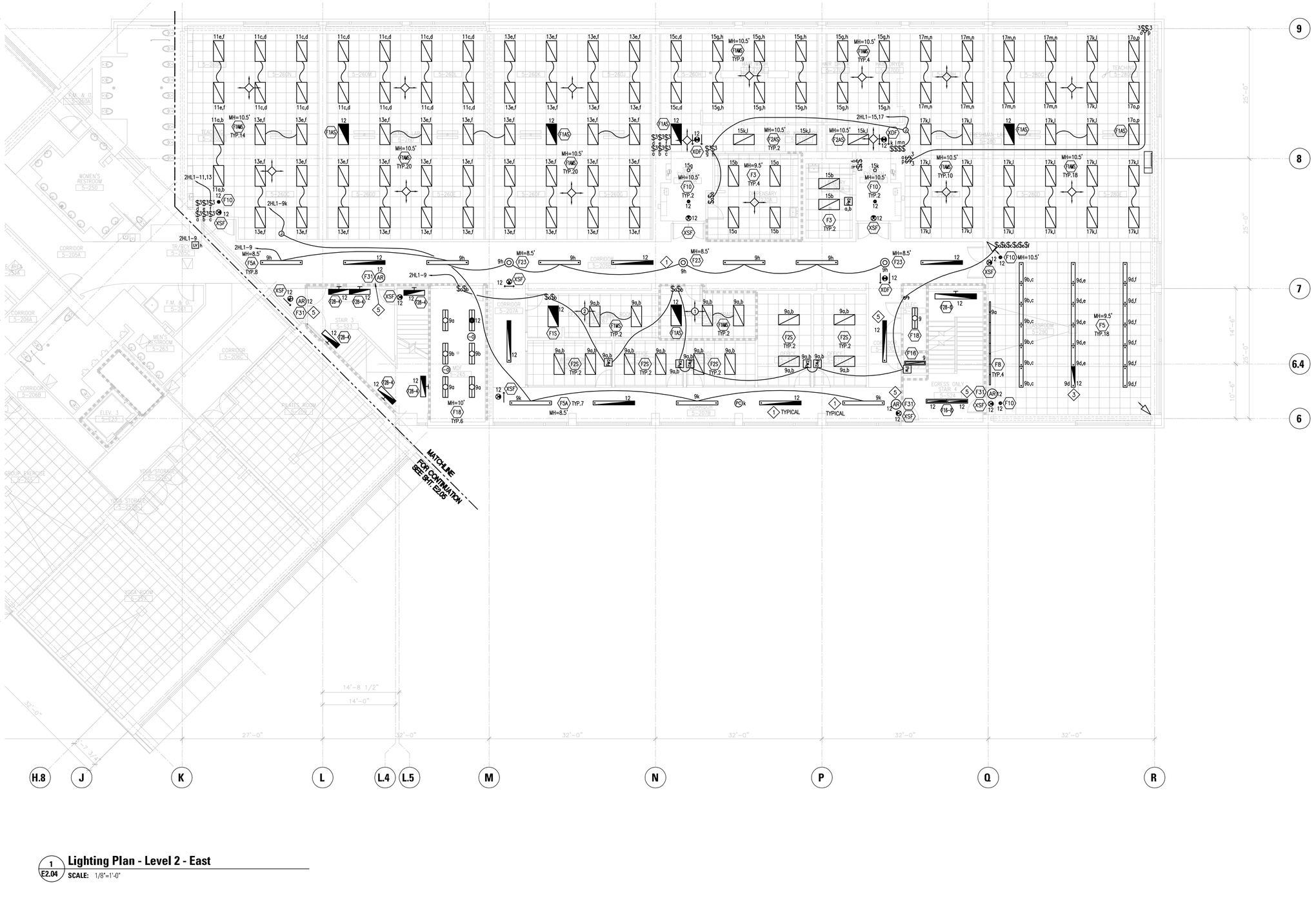
GENERAL NOTES

A. ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.

B. ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "2HL1" LOCATED AT ELECTRICAL CLOSET (5-210), U.O.N.

SHEET NOTES

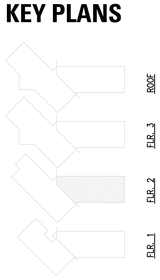
1. LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
3. HALF OF LAMPS IN FIXTURE ARE CONNECTED TO AN EMERGENCY POWER CIRCUIT, AND HALF OF LAMPS IN FIXTURE ARE CONNECTED TO A NORMAL POWER CIRCUIT.
5. EMERGENCY LIGHT FIXTURE FOR "AREA OF REFUGE".

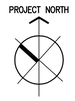


1 E2.04 **Lighting Plan - Level 2 - East**

SCALE: 1/8"=1'-0"

KEY PLANS





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Bulletin #4

San Mateo, CA

Developed for
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Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
1	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
4	Coordination - Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Lighting Plan
Level 2 - East

E2.04

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.04_Lighting Plan Level 2-East.dwg - Dec 13, 2010 Monday - 1:22pm - 30x42-Plt - wecheverria

GENERAL NOTES

A. ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.

B. ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "3HL1" LOCATED AT ELECTRICAL CLOSET (5-321), U.O.N.

SHEET NOTES

1. LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
2. NOT USED.
3. NOT USED.
4. MANUAL OVERRIDE-ON SWITCH FOR ALL THIRD FLOOR LIGHTING CIRCUITED THROUGH THE LIGHTING CONTROL PANEL: SCHLAGE FP KEY-WAY 6-PIN SWITCH.
5. EMERGENCY LIGHT "AREA OF REFUGE".

LEGEND: OCCUPANCY SENSORS

- CI-200
- CI-200-1
- DT-200
- DT-300
- PW PW-100
- PW2 PW-200
- TS TS-400
- UT-300-1
- UT-300-2
- UT-300-3

15A, 120V J-BOX FOR CHAIR LIGHTING, CEILING MOUNTED TRACK LIGHT (TYPICAL)

15A, 120V J-BOX FOR CHAIR LIGHTING, CEILING MOUNTED TRACK LIGHT (TYPICAL)

MATCHLINE FOR CONTINUATION SEE SHT. E2.06

TERRACE

STUDENT LOUNGE

FRONT OFFICE

DENTAL/NURSING ASSIST. LECTURE

CLASSROOM 5-308

CLASSROOM 5-309

ASSIST. DEAN 5-310

DEAN 5-311

STAFF 3 5-312

CONFERENCE 5-313

ELEV. 1 5-330

ELEV. 2 5-331

TO ROOF

INSTALL VERTICALLY

TO LIGHT ON ROOF

3HL1-1,3,5/7,9,11

3HL1-13,15,17

3HL1-5

3HL1-7

1EHL1-14

15A,120V 3LW22-72

15A,120V 3LW22-74

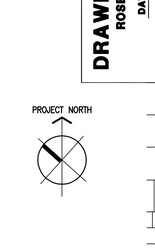
15A,120V 3LW22-76

15A,120V 3LW22-78

15A,120V 3LW22-81

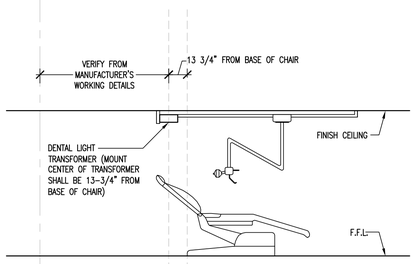
15A,120V 3LW22-83

KEY PLANS



PROJECT NORTH

2



2 E2.05 **Detail**
NOT TO SACLE

1 E2.05 **Lighting Plan - Level 3 - West**
SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.05_Lighting Plan Level 3-West.dwg – Dec 13, 2010 Monday – 1:22pm – 30x42-Plt – wecheverria

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Building 5N
Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Number	Description	Date
7	CP / NIDF CHANGES	12/01/09
6	EQUIPMENT SEISMIC RETROFIT PER WITNESSPER	01/12/10
5	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
3	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
1	Coordination - Bulletin 4	06/24/09
	Owner Changes	09/01/09
	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/18/10

Job. No. R13-300085
Date 06.13.2008
Scale AS SHOWN

Lighting Plan
Level 3 - West

E2.05

LEGEND: OCCUPANCY SENSORS
CI-200
CI-200-1
DT-200
DT-300
PW-100
PW-200
TS-400
UT-300-1
UT-300-2
UT-300-3

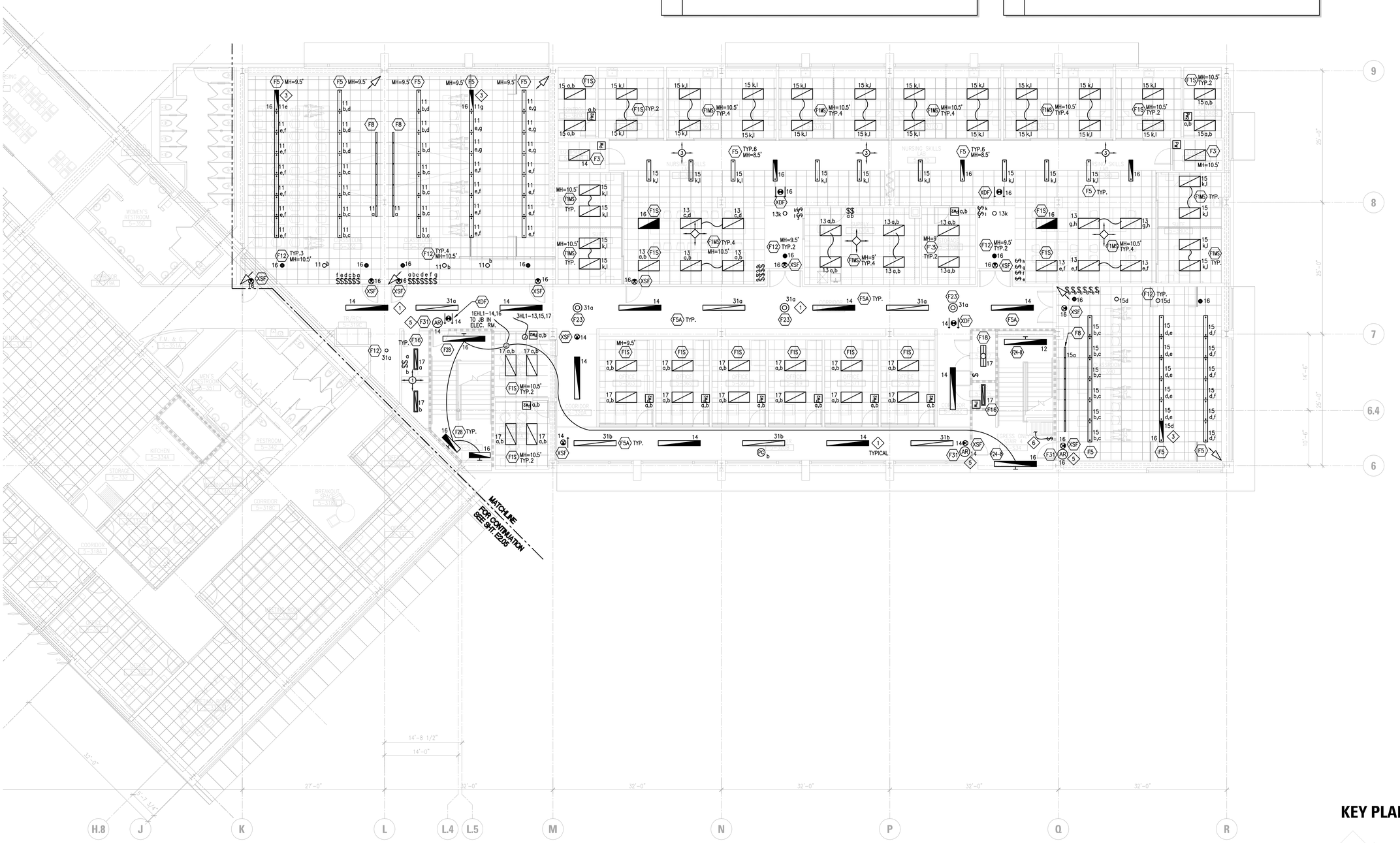
GENERAL NOTES

A. ALL 277V EMERGENCY LIGHTING SHALL BE CIRCUITED TO EMERGENCY LIGHT RECTIFIER PANEL "1EHL1" LOCATED AT ELECTRICAL ROOM (5-106), U.O.N.

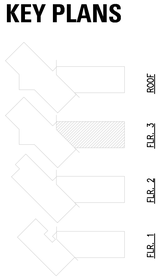
B. ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "3HL1" LOCATED AT ELECTRICAL CLOSET (5-321), U.O.N.

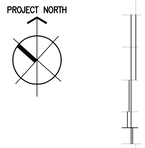
SHEET NOTES

1. LIGHTING IN THIS AREA ON NORMAL CIRCUITS SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL, U.O.N.
2. ALL EXTERIOR LIGHTING CIRCUITRY SHALL BE ROUTED THROUGH A LIGHTING CONTROL PANEL/PHOTOCELL CONTROL.
3. HALF OF LAMPS IN FIXTURE ARE CONNECTED TO AN EMERGENCY POWER CIRCUIT, AND HALF OF LAMPS IN FIXTURE ARE CONNECTED TO A NORMAL POWER CIRCUIT.
5. EMERGENCY LIGHT FIXTURE FOR "AREA OF REFUGE".
6. SWITCH FOR PILOT LIGHT AT BASE OF LADDER/ACCESS TO THE ROOF.



KEY PLANS





1 E2.06 **Lighting Plan - Level 3 - East**

SCALE: 1/8"=1'-0"

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

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San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WHITSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

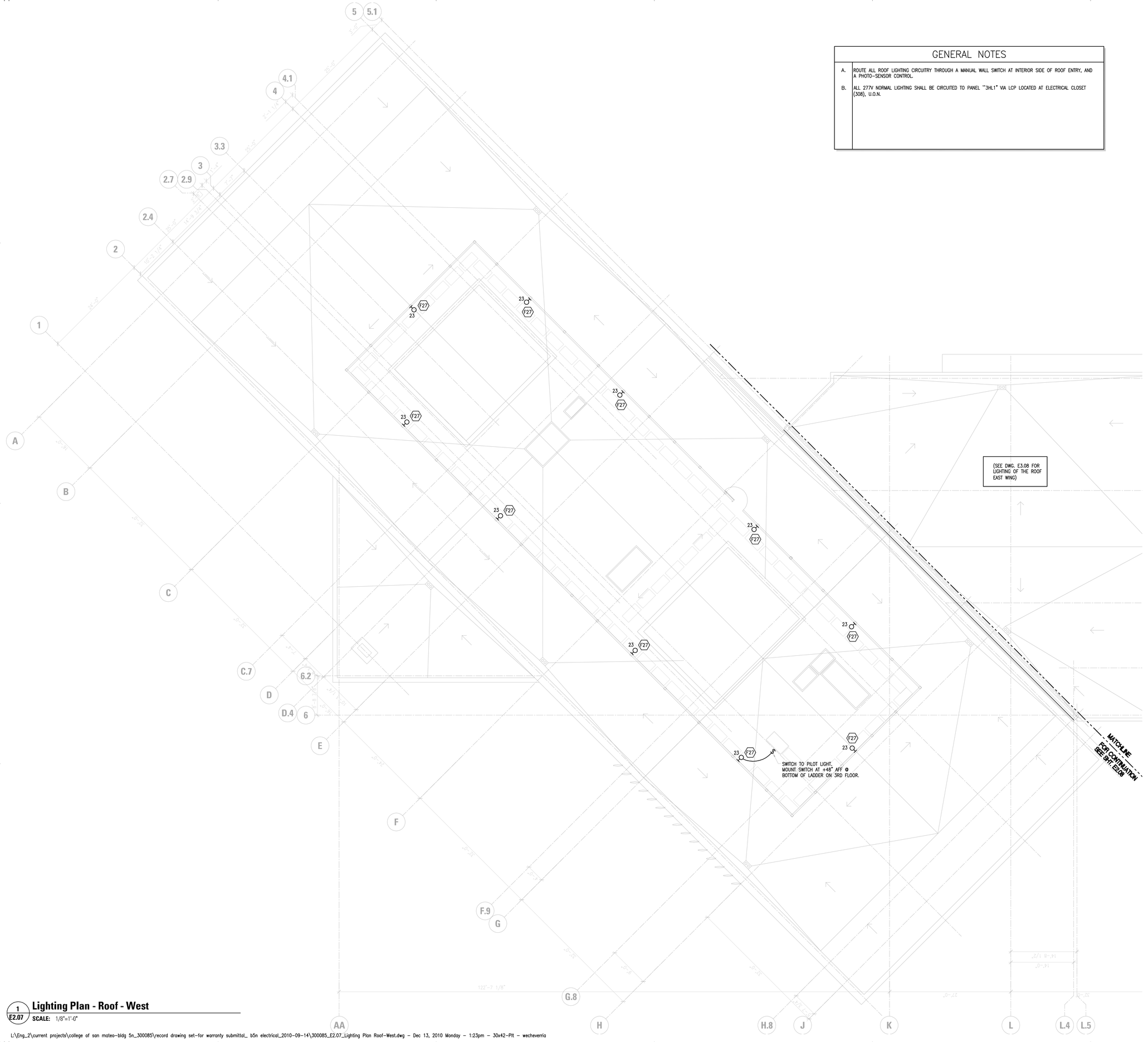
Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination – Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Lighting Plan
Level 3 - East

E2.06

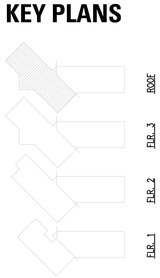
L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.06_Lighting Plan Level 3-East.dwg – Dec 13, 2010 Monday – 1:23pm – 30x42-Plt – wecheverria



GENERAL NOTES

A.	ROUTE ALL ROOF LIGHTING CIRCUITRY THROUGH A MANUAL WALL SWITCH AT INTERIOR SIDE OF ROOF ENTRY, AND A PHOTO-SENSOR CONTROL.
B.	ALL 277V NORMAL LIGHTING SHALL BE CIRCUITED TO PANEL "3HL1" VIA LCP LOCATED AT ELECTRICAL CLOSET (308), U.O.N.

KEY PLANS



PROJECT NORTH

1 E2.07 **Lighting Plan - Roof - West**

SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E2.07_Lighting Plan Roof-West.dwg - Dec 13, 2010 Monday - 1:23pm - 30x42-Plt - wecheverria

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Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2 3	DSA Submittal	10/15/08
4	Coordination - Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Lighting Plan
Roof - West

E2.07

SHEET NOTES

4. DEDICATED 120V POWER TO J-BOX FOR SUIT DRYER.
17. DEDICATED 120V RECEPTACLE FOR GROOMING DEVICE.
23. DEDICATED 120V RECEPTACLE FOR VENDING MACHINE.
33. 120V POWER TO J-BOX FOR VON DUPRIN-SECURITY DOOR LOCK.
34. 120V POWER TO J-BOX FOR BMS CONTROL PANEL.
45. J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
47. ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CKT. 1LW11-41.

GENERAL NOTES

A. ALL 120/208V POWER CIRCUITRY SHOWN ON LEVEL 1-WEST SHALL BE CONNECTED TO PANEL "1LW11/1LW12" (2 SECTION PANEL), U.O.N.

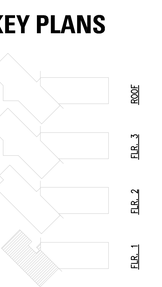
DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR DC EL RX
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	DC EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	DC RX
D	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR DC EL RX ADA
I	CARD READER ROOL-UP DOOR	CARD READER + CONTROL SWITCH	CR DC SW MC

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL		DEVICE ABBREVIATIONS/DESCRIPTION
FIX	CF	CAMERA FIXED
CR	CR	CARD READER
DC	DC	DOOR CONTACT
DB	DB	DURESS BUTTON
DH	DH	DOOR HOLD
EL	EL	ELECTRIFIED LOCK
GB	GB	GLASS BREAK
LA	LA	LOCAL ALARM
MD	MD	MOTION DETECTOR
PS	PS	POWER SUPPLY
RX	REX	REQUEST TO EXIT
SJB	SJB	SECURITY JUNCTION BOX
MC	MC	MOTOR CONTROL
SW	SW	SWITCH

KEY PLANS



PROJECT NORTH

1 E3.01 Power Plan - Level 1 - West
SCALE: 1/8"=1'-0"

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APPL. NO. 01-109870

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Bulletin #4
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Revision	Description	Date
1	ISF/MEP CHANGES	12/01/09
2	OCCUPANT SENSORS REVISION PER WHITEHOPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Elm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATED: 12/18/10

Job. No. RER-300085
Date 06.13.2008
Scale AS SHOWN

Power Plan
Level 1 - West

E3.01

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b&n electrical_2010-09-14\300085_E3.01_Power Plan Level 1-West.dwg - Dec 13, 2010 Monday - 1:23pm - 30x42-Plt - wecheverria

SHEET NOTES

2	120V RECEPTACLE FOR LCD TV, WALL MOUNTED AT +76" AFF.
33	120V POWER TO J-BOX FOR VON-DUPRIN-SECURITY DOOR LOCK.
34	120V POWER TO J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL.
45	J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
47	ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CKT. 1LW11-41.

GENERAL NOTE

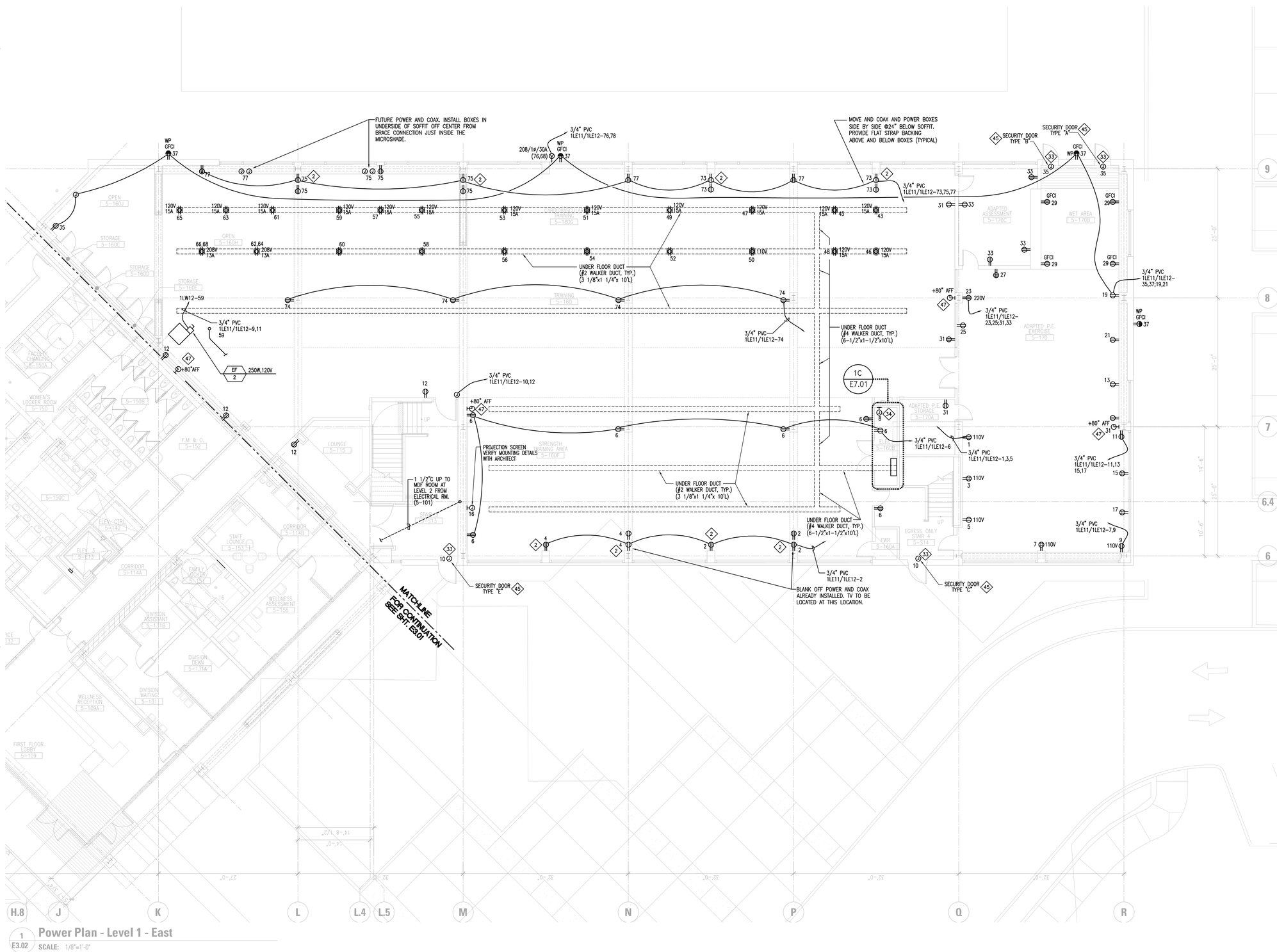
A.	ALL 120/208V POWER CIRCUITRY SHOWN ON LEVEL 1-EAST SHALL BE CONNECTED TO PANEL "1LE11/1LE12"(2 SECTION PANEL), U.O.N.

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR DC EL RX
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	DC EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	DC RX
D	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR DC EL RX ADA
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	DC LA

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL	DEVICE ABRREVIATIONS/DESCRIPTION	
FIX	CF	CAMERA FIXED
CR	CR	CARD READER
DC	DC	DOOR CONTACT
DB	DB	DURESS BUTTON
DH	DH	DOOR HOLD
EL	EL	ELECTRIFIED LOCK
GB	GB	GLASS BREAK
LA	LA	LOCAL ALARM
MD	MD	MOTION DETECTOR
PS	PS	POWER SUPPLY
RX	REX	REQUEST TO EXIT
SJB	SJB	SECURITY JUNCTION BOX
MC	MC	MOTOR CONTROL
SW	SW	SWITCH



1 E3.02 **Power Plan - Level 1 - East**

SCALE: 1/8"=1'-0"

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KEY PLANS

PROJECT NORTH

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/19/10

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Number	Description	Date
1	ASI/ MDF CHANGES	12/01/09
2	ASI/HMO SENSORS REVISION PER WHITESPOFR	01/12/10
3	ASI/AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No. R9-300085
Date 06.13.2008
Scale AS SHOWN

Power Plan
Level 1 - East

E3.02

College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
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SHEET NOTES

2	120V RECEPTACLE FOR "LCD-TV", WALL MOUNTED AT 76" A.F.F., U.O.N.
3	120V RECEPTACLE FOR WALL MOUNTED FAN. HEIGHT AT +76"AFF, U.O.N.
7	DEDICATED 120V POWER TO J-BOX FOR HAND DRYER.
8	120V POWER TO J-BOX FOR MOTORIZED PROJECTION SCREEN. VERIFY MOUNTING DETAILS WITH THE ARCHT.
9	120V RECEPTACLE FOR TOWEL WARMER.
33	120V POWER TO J-BOX FOR VON DUPRIN-SECURITY DOOR LOCK.
34	120V POWER TO J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL.
36	RECEPTACLE FOR MOBILE ASSISTIVE LISTENING SYSTEM.
45	J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
47	ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CIRCUIT, 1LW11-41.

GENERAL NOTES

A. ALL 120/208V POWER CIRCUITRY SHOWN ON LEVEL 2-WEST SHALL BE CONNECTED TO PANEL "2LW11/2LW12"(2-SECTION PNL).

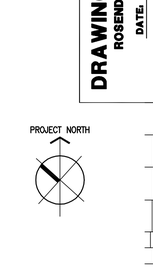
DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR DC EL RX
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	DC EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	DC RX
D	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR DC EL RX ADA
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARM NEAR THE DOOR AS WELL AS AT THE ACAMS.	DC LA
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL		DEVICE ABBREVIATIONS/DESCRIPTION
FIX	CF	CAMERA FIXED
CR	CR	CARD READER
DC	DC	DOOR CONTACT
DB	DB	DURESS BUTTON
DH	DH	DOOR HOLD
EL	EL	ELECTRIFIED LOCK
GB	GB	GLASS BREAK
LA	LA	LOCAL ALARM
MD	MD	MOTION DETECTOR
PS	PS	POWER SUPPLY
RX	REX	REQUEST TO EXIT
SJB	SJB	SECURITY JUNCTION BOX
MC	MC	MOTOR CONTROL
SW	SW	SWITCH

KEY PLANS



PROJECT NORTH

1 E3.03 **Power Plan - Level 2 - West**
SCALE: 1/8"=1'-0"

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Bulletin #4
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Revision	Description	Date
1	ADP MADP CHANGES	12/01/09
2	ADDENDUM 2 SIGNOFF REVISION PER WHITESHIPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	08/01/09
5	RFP-3-17	08/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/18/10

Job. No. REB-3000BS
Date 06.13.2008
Scale AS SHOWN

Power Plan
Level 2 - West

E3.03

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SHEET NOTES

4	120V DEDICATED J-BOX FOR MHD
6	120V RECEPTACLE FOR CEILING MOUNTED 'LCD' TV.
8	120V POWER TO J-BOX FOR MOTORIZED PROJECTION SCREEN. VERIFY MOUNTING DETAILS WITH ARCHT.
12	120V, 20A POWER TO JUNCTION BOX FOR CEILING MOUNTED CAMERA. EXACT LOCATION AND DETAILS FOR A/V SYSTEM SHALL BE PROVIDED BY A/V VENDOR.
13	120V RECEPTACLE FOR DVD/VHS PLAYER.
14	120V RECEPTACLE FOR DRYER CHAIRS.
15	120V DEDICATED RECEPTACLE FOR LAUNDRY WASHER.
16	208V RECEPTACLE FOR LAUNDRY DRYER.
17	120V RECEPTACLE FOR TIME CARD MACHINE.
18	120V DEDICATED RECEPTACLE FOR PRINTER/COPIER.
33	120V POWER TO J-BOX FOR VON DUPRIN-SECURITY DOOR LOCK.
34	120V POWER TO J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL.
36	RECEPTACLE FOR MOBILE ASSISTIVE LISTENING SYSTEM.
45	J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
47	ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CIRCUIT, 1LW11-41.

GENERAL NOTES

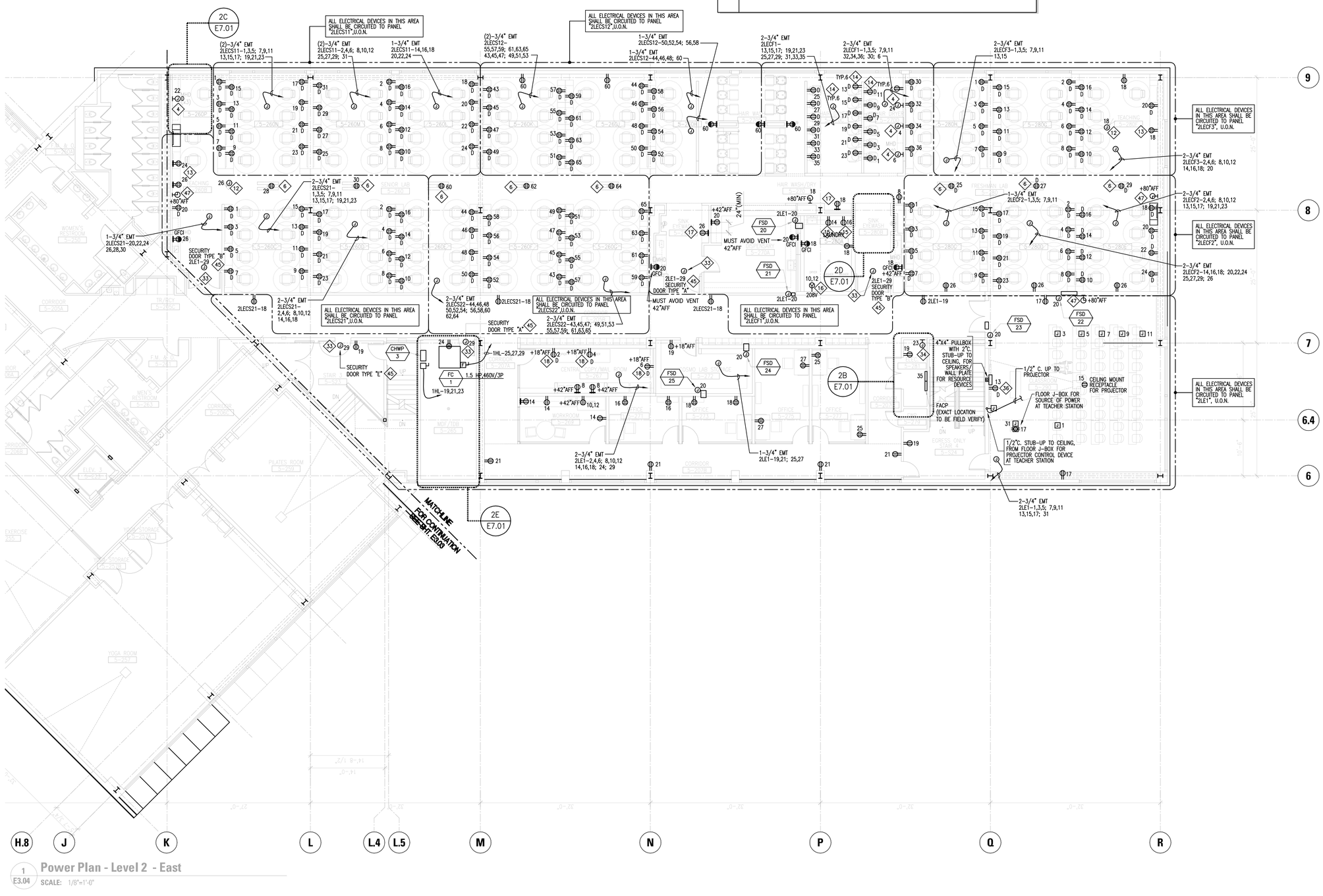
A.	ALL 120/208V POWER CIRCUITRY SHOWN ON LEVEL 2-EAST SHALL BE CONNECTED TO PANEL "2LE1", U.O.N.

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR DC EL RX
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	DC EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	DC RX
D	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR DC EL RX ADA
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	DC LA

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL		DEVICE ABBREVIATIONS/DESCRIPTION	
▷	FIX	CF	CAMERA FIXED
	CR	CR	CARD READER
	DC	DC	DOOR CONTACT
	DB	DB	DURESS BUTTON
	DH	DH	DOOR HOLD
	EL	EL	ELECTRIFIED LOCK
	GB	GB	GLASS BREAK
	LA	LA	LOCAL ALARM
	MD	MD	MOTION DETECTOR
	PS	PS	POWER SUPPLY
	RX	REX	REQUEST TO EXIT
	SJB	SJB	SECURITY JUNCTION BOX
	MC	MC	MOTOR CONTROL
	SW	SW	SWITCH



1 E3.04 **Power Plan - Level 2 - East**
SCALE: 1/8"=1'-0"

KEY PLANS

PROJECT NORTH

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/18/10

Job. No.	RES-300085
Date	06.12.2008
Scale	AS SHOWN

Power Plan Level 2 - East

E3.04

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No/Mark	Description	Date
1	10% CD	12/01/09
2	DSA Submittal	01/12/10
3	100% Coordination Documents	01/25/10
4	DSA Submittal	02/18/10

No/Mark	Description	Date
1	10% CD	03/12/08
2	50% CD	04/17/08
3	DSA Submittal	06/13/08
4	100% Coordination Documents	09/01/08
5	DSA Submittal	10/15/08
6	Coordination - Bulletin 4	06/24/09
7	Owner Changes	09/01/09
8	RFP-3-17	09/01/09
9	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

No/Mark	Description
1	UP/ADD CHANGES
2	DOORMAT SHOWS REVISION PER MATSTOPPER
3	AREA OF REFUGE REVISIONS
	DRAWING OF RECORD

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San Mateo County Community College District

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SHEET NOTES

8	120V POWER TO J-BOX FOR MOTORIZED PROJECTION SCREEN. VERRIFY MOUNTING DETAILS WITH THE ARCHT.
10	DEDICATED CIRCUIT, 120V, J-BOX FOR HAND DRYER.
19	DEDICATED RECEPTACLE FOR REFRIGERATOR.
20	DEDICATED RECEPTACLE FOR GARBAGE DISPOSAL.
21	JUNCTION BOX FOR INSTA HOT.
22	DEDICATED RECEPTACLE FOR MICROWAVE.
23	DEDICATED 120V RECEPTACLE FOR VENDING MACHINE.
24	DEDICATED RECEPTACLE FOR LATHE (POLISHERS).
25	DEDICATED RECEPTACLE FOR CUTTER.
26	DEDICATED RECEPTACLE FOR SCAN-X.
28	DEDICATED WALL MOUNTED QUAD RECEPTACLE WITH DIVIDER FOR PANOREX-XRAY 110V/20A DEDICATED CIRCUIT & 3/4"C. FOR LOW VOLTAGE WIRING TO REMOTE SWITCH. REFER TO DENTAL EQUIPMENT SPECS AND TEMPLATE FOR DETAILS.
29	NOT USED.
30	DEDICATED RECEPTACLE FOR COFFEE MAKER.
33	120V POWER TO J-BOX FOR VON-DUPRIN-SECURITY DOOR LOCK.
34	120V POWER TO J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL.
35	120V POWER TO J-BOX FOR XRAY LIGHT-BOX.
36	MASTER SWITCH BOX WITH 3-SETS OF #18-3 LOW VOLTAGE WIRE TO AIR COMPRESSOR AND VACUUM PUMP.
37	AIR COMPRESSOR, (2)-220V, 40AMP CIRCUIT, SINGLE PHASE WITH BUCK/BOOST TRANSFORMER. VOLTAGE RANGE IS 215-235 VAC. IT SHALL BE CONNECTED TO MASTER SWITCH BOX WITH LOW VOLTAGE WIRE.
38	VACUUM PUMP, (1)-220V, 40AMP CIRCUIT, SINGLE PHASE WITH BUCK/BOOST TRANSFORMER. VOLTAGE RANGE IS 215-235 VAC. IT SHALL BE CONNECTED TO MASTER SWITCH BOX WITH LOW VOLTAGE WIRE.
39	120V POWER, 20A DEDICATED CIRCUIT, GFCI RECEPTACLE FOR "WHIP MIX". COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. EQUIPMENT SHALL BE SUPPLIED BY THE DISTRICT.
45	J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
46	REFER TO DENTAL EQUIPMENT MANUFACTURER'S SPECS FOR EXACT MOUNTING LOCATION & DETAILS OF DENTAL EQUIPMENTS.
47	ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CIRCUIT, 1LW11-41.

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	(CR) (DC) (EL) (RX)
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	(DC) (EL)

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL	DEVICE ABBREVIATIONS/DESCRIPTION	
FIX	CF	CAMERA FIXED
CR	CR	CARD READER
DC	DC	DOOR CONTACT
DB	DB	DURESS BUTTON
DH	DH	DOOR HOLD
EL	EL	ELECTRIFIED LOCK
GB	GB	GLASS BREAK
LA	LA	LOCAL ALARM
MD	MD	MOTION DETECTOR
PS	PS	POWER SUPPLY
RX	REX	REQUEST TO EXIT
SJB	SJB	SECURITY JUNCTION BOX
MC	MC	MOTOR CONTROL
SW	SW	SWITCH

ALL 120/208V POWER CIRCUITRY IN THIS AREA OF LEVEL 3-WEST SHALL BE CIRCUITED TO PANEL "3LW11/3LW12"(2-SECTION PANEL),U.O.N.

ALL 120/208V POWER CIRCUITRY IN THIS AREA OF LEVEL 3-WEST SHALL BE CIRCUITED TO PANEL "3LW21/3LW22"(2-SECTION PANEL),U.O.N.

MATCHLINE FOR CONTINUATION SEE SHT. E3.06

KEY PLANS

PROJECT NORTH

1 E3.05 **Power Plan - Level 3 - West**
SCALE: 1/8"=1'-0"

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DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/18/10

Power Plan
Level 3 - West

E3.05

SHEET NOTES

12	120V, 20A POWER TO J-BOX FOR CEILING MOUNTED CAMERA. EXACT LOCATION AND DETAILS FOR A/V SYSTEM SHALL BE PROVIDED BY A/V VENDOR.
31	120V, 20A POWER TO J-BOX FOR HEADWAL UNIT, WHICH IS SPURCE OF POWER FOR (2) -IMULATED EMERGENCY RECEPTACLES, (2)-NORMAL RECEPTACLES AND (1)-HEADWALL LIGHTING AND SWITCH. HEADWALL UNIT SHALL BE SUPPLIED BY OTHERS. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SOURCE OF POWER. REFER TO MANUFACTURER'S ROUGH-IN DRAWINGS FOR ELECTRICAL ROUGH-IN LOCATIONS.
33	120V POWER TO J-BOX FOR VON DUPRIN-SECURITY DOOR LOCK.
34	120V POWER TO J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL.
36	RECEPTACLE FOR MOBILE ASSISTIVE LISTENING SYSTEM.
45	J-BOX FOR DOOR SECURITY PURPOSES. SEE TABLE & DEVICE LEGEND BELOW FOR SECURITY DOOR TYPES REQUIREMENT FOR POWER. REFER TO SECURITY DRAWINGS SEC2.01-SEC2.03 FOR DETAILS.
47	ALL WALL CLOCKS SHALL BE FED FROM 1ST FLOOR CIRCUIT, 1LW11-41.

GENERAL NOTES

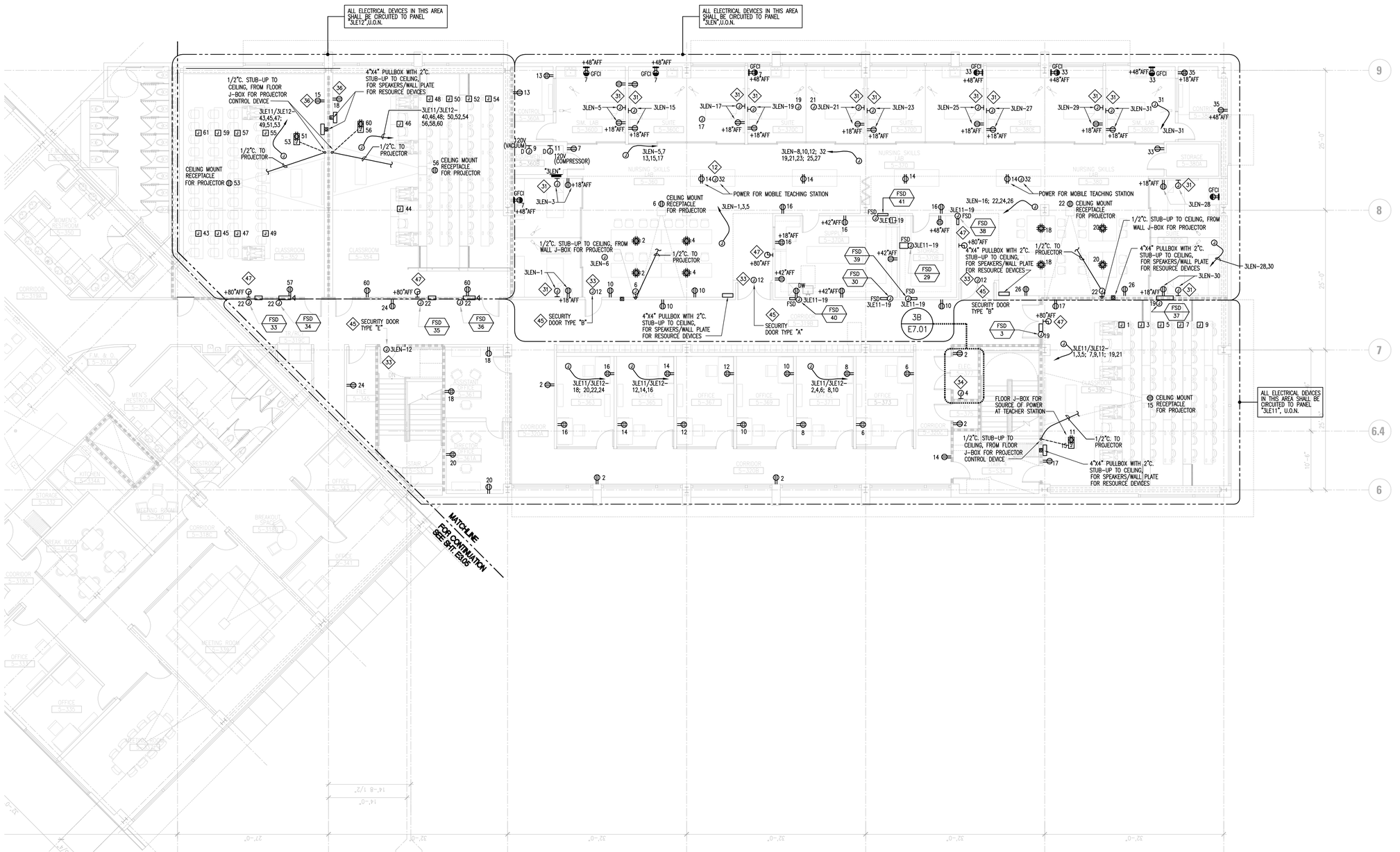
A.	ALL 120/208V POWER CIRCUITRY SHOWN ON LEVEL 3-EAST SHALL BE CONNECTED TO PANEL "3LE11/3LE12" (2 SECTION PANEL), U.O.N.

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR DC EL RX
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	DC EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	DC RX
D	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR DC EL RX ADA
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	DC LA

NOTE:
FOR POINT-TO-POINT WIRING DIAGRAM & DETAILS SEE SEC.3.00 & SEC.4.0.1

LEGEND:

SYMBOL		DEVICE ABBREVIATIONS/DESCRIPTION	
FIX		CF	CAMERA FIXED
CR		CR	CARD READER
DC		DC	DOOR CONTACT
DB		DB	DURESS BUTTON
DH		DH	DOOR HOLD
EL		EL	ELECTRIFIED LOCK
GB		GB	GLASS BREAK
LA		LA	LOCAL ALARM
MD		MD	MOTION DETECTOR
PS		PS	POWER SUPPLY
RX		REX	REQUEST TO EXIT
SJB		SJB	SECURITY JUNCTION BOX
MC		MC	MOTOR CONTROL
SW		SW	SWITCH



1 E3.06 **Power Plan - Level 3 - East**
SCALE: 1/8"=1'-0"

KEY PLANS

PROJECT NORTH

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Number	Description	Date
1	IOR/AOF CHANGES	12/01/09
2	DOCUMENT SHOWS REVISION PER INVESTIGATOR	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-3-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

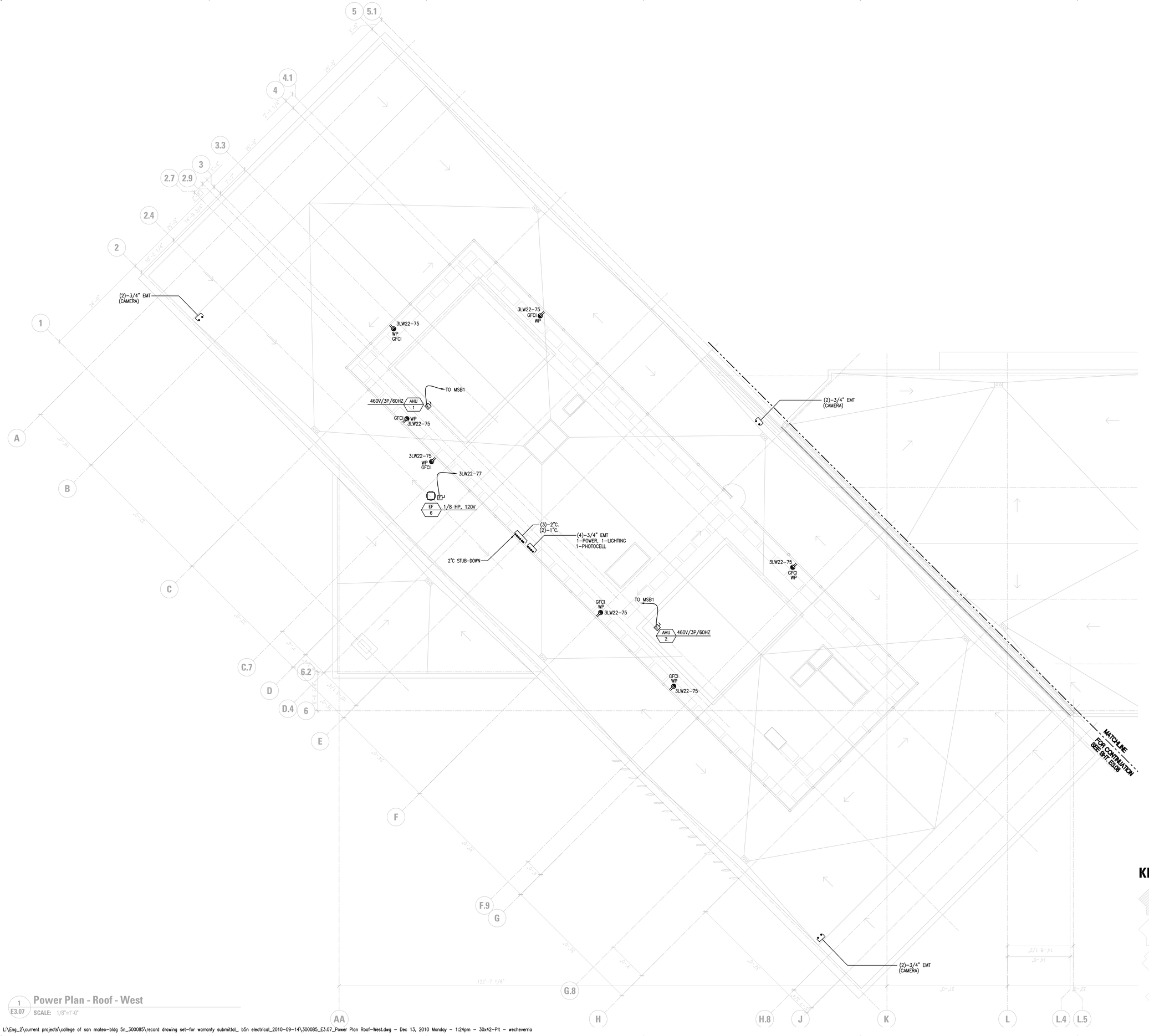
DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/15/10

Job. No. RB-300085
Date 06.13.2008
Scale AS SHOWN

Power Plan
Level 3 - East

E3.06

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E3.06_Power Plan Level 3-East.dwg - Dec 13, 2010 Monday - 1:24pm - 30x42-Plt - wecheverria



KEY PLANS

PROJECT NORTH

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

1 E3.07 **Power Plan - Roof - West**
SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E3.07_Power Plan Roof-West.dwg – Dec 13, 2010 Monday – 1:24pm – 30x42-Plt – wecheverria

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Rev/Ltr	Description	Date
1	DSA APP. CHANGES	12/01/09
2	DOOR/MISC. SENSORS PER WHITSOPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Rev/Ltr	Description	Date
	100% DD	03/12/08
	100% CD	04/17/08
	50% CD	06/13/08
	DSA Submittal	08/01/08
1	100% Coordination Documents	10/15/08
2	DSA Submittal	06/24/09
3	Coordination - Bulletin 4	09/01/09
4	Owner Changes	09/01/09
5	RFI#-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

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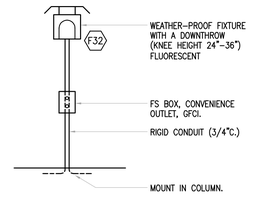
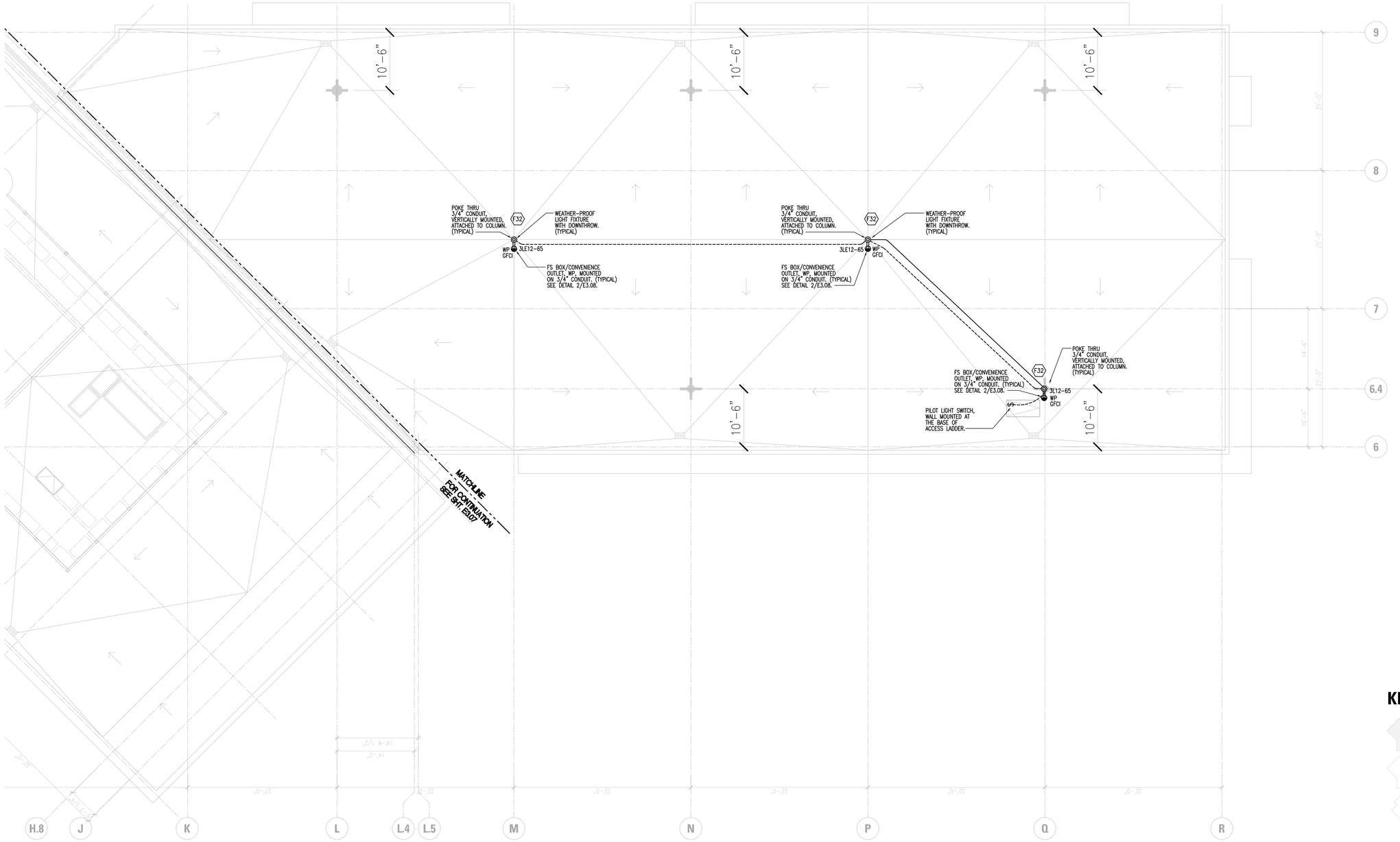
Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Power Plan
Roof - West

E3.07



2 E3.08 **DETAIL**
NOT TO SCALE



1 E3.08 **Power Plan - Roof - East**
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Number	Description	Date
7	IOF/NUF CHANGES	12/01/09
6	DOCUMENT BORDERS REVISION PER WATERSHIPPER	01/12/10
5	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-S-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

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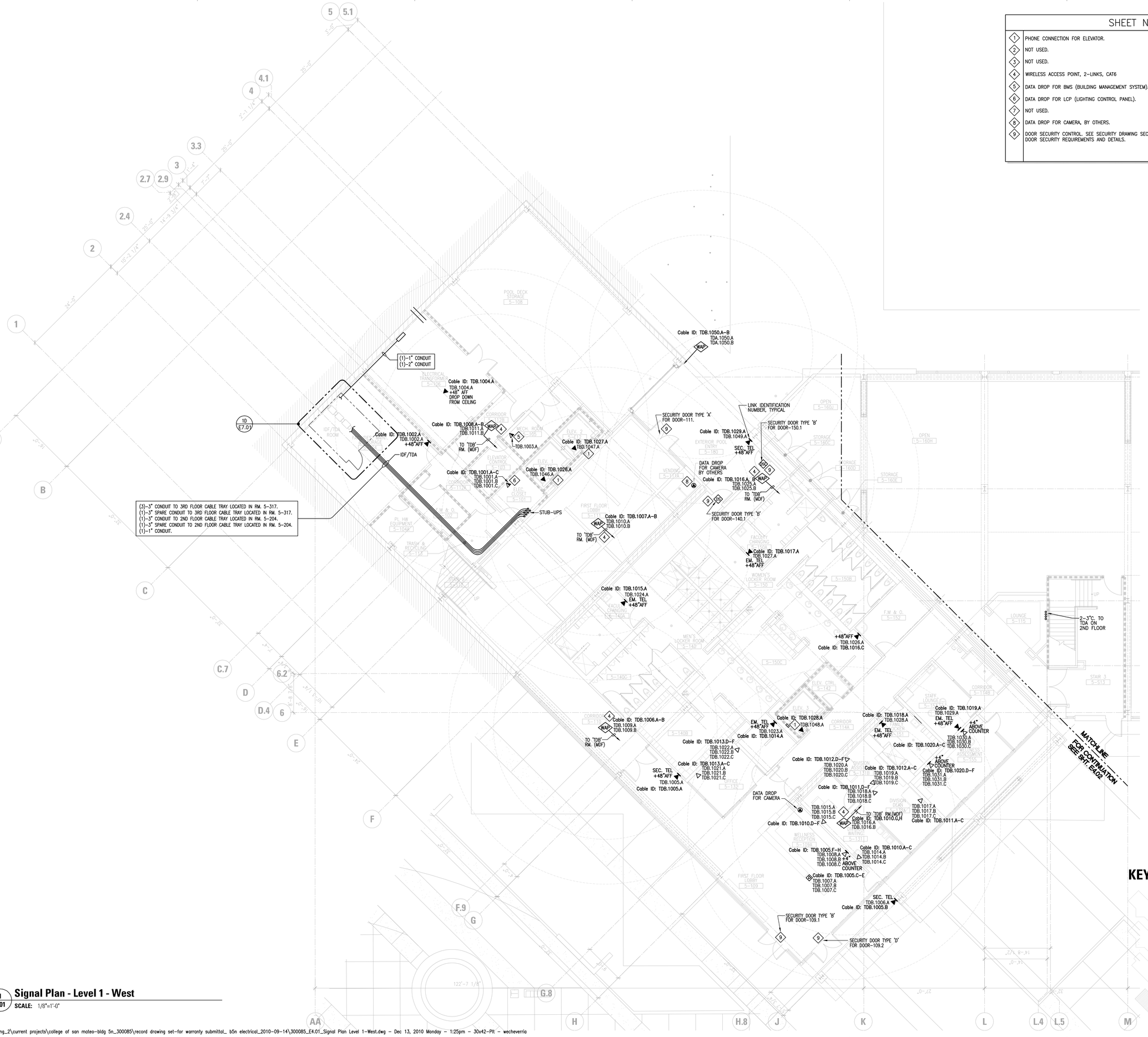
Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Power Plan
Roof - East

E3.08

SHEET NOTES

1	PHONE CONNECTION FOR ELEVATOR.
2	NOT USED.
3	NOT USED.
4	WIRELESS ACCESS POINT, 2-LINKS, CAT6
5	DATA DROP FOR BMS (BUILDING MANAGEMENT SYSTEM).
6	DATA DROP FOR LCP (LIGHTING CONTROL PANEL).
7	NOT USED.
8	DATA DROP FOR CAMERA, BY OTHERS.
9	DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 201 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.



KEY PLANS

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/10/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	10/15/08
2	DSA Submittal	06/24/09
3	Coordination - Bulletin 4	09/01/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Revision	Description	Date
1	DF/MDF CHANGES	12/01/09
2	DOORMAT SHOWS VERSION PER WITSTOPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Job. No. 103-300085
Date 06.13.2008
Scale AS SHOWN

Signal Plan
Level 1 - West

E4.01

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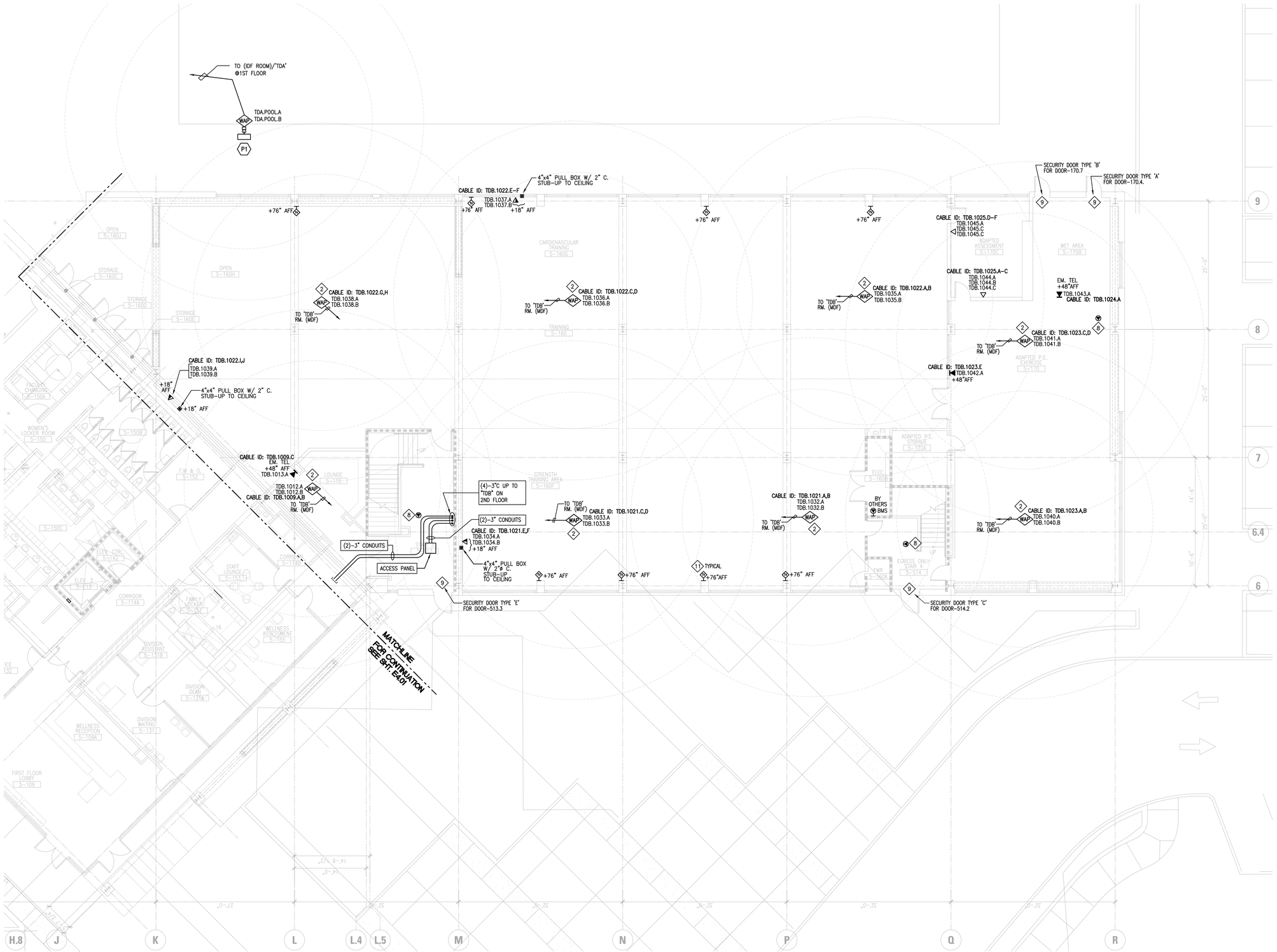
1 E4.01 **Signal Plan - Level 1 - West**
SCALE: 1/8"=1'-0"

SHEET NOTES

1	NOT USED.
2	WIRELESS ACCESS PONT, 2–LINKS, CAT6.
8	DATA DROP FOR CAMERA, BY OTHERS.
9	DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 2.01 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.
11	A/V IS BY OTHERS. EXACT LOCATION OF TV SIGNAL DEVICE AND WIRING DETAILS SHALL BE PROVIDED BY OTHERS.



KEY PLANS

PROJECT NORTH

1 / E4.02 Signal Plan - Level 1 - East

SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo–bldg 5n_300085\record drawing set–for warranty submittal_ b5n electrical_2010–09–14\300085_E4.02_Signal Plan Level 1–East.dwg – Dec 13, 2010 Monday – 1:25pm – 30x42–Plt – wecheverria

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Number	Description	Date
1	IDF/MDF CHANGES	12/01/09
2	DOCUMENT SCRUBS REVISION PER WITNESSPAPER	01/12/10
3	AREA OF REFOUSE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination – Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP–3–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/15/10

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San Mateo, CA
Developed for
San Mateo County Community College District

Job. No.	RB-300085
Date	06.13.2008
Scale	AS SHOWN

Signal Plan
Level 1 - East

E4.02

SHEET NOTES

1	SMART CLASSROOM SPEAKERS. JBL CONTROL 26C WITH DEDICATED 14/2 CABLE TO TEACHING STATION.
2	WIRELESS, 2 LINKS, CAT6.
3	PUBLIC ADDRESS SYSTEM CONNECTED TO COSMETOLOGY NETWORK.
8	DATA DROP FOR CAMERA, BY OTHERS.
9	DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 2.01 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.
10	CONDUITS TO BE STUB-OUT & ROUTED TO ACCESSIBLE AREA ONLY. TO BE FIELD COORDINATED. LOCATIONS OF ACCESS PANELS TO BE DETERMINED AFTER COORDINATION WITH OTHER DISCIPLINE.
12	WIRING DIAGRAM DETAILS FOR PAS & PRODUCT CUTS BY OTHERS OR BY VENDORS.

SECURITY DOOR TYPE 'B'
CABLE ID: TDA.2004.E,F
TDA.2057.A
TDA.2057.B
CABLE ID: TDA.2004.C,D
TDA.2056.A
TDA.2056.B
TO 'TDA' RM. (MDF)
CABLE ID: TDA.2004.A,B
TDA.2055.A
TDA.2055.B
SECURITY DOOR TYPE 'D'
CEILING MT. DATA DEVICE FOR PROJECTOR
(2)2"C
CABLE ID: TDA.2004.G,H
TDA.2058.A
TDA.2058.B
4"x4" PULL BOX W/ 2"ø C. STUB-UP TO CEILING
SECURITY DOOR TYPE 'A'
CABLE ID: TDA.2005.A,B
TDA.2060.A
TDA.2060.B
SECURITY DOOR TYPE 'D'
SECURITY DOOR TYPE 'B'
CABLE ID: TDA.2001.A
TDA.2050.A
+48" AFF CAMPUS TEL.
+48"AFF CAMPUS TEL.
TDA.2051.A
CABLE ID: TDA.2002.A
TDA.2052.A
TDA.2052.B,C
CABLE ID: TDA.2002.B,C
TO 'TDA' RM. (MDF)
CABLE ID: TDA.2004.I
TDA.2059.A
CEILING MT. DATA DEVICE FOR PROJECTOR
TDA.2061.A
TDA.2061.B
CABLE ID: TDA.2006.A,B
CABLE ID: TDA.2006.E,F
+76" AFF
TDA.2063.A
TDA.2063.B
CABLE ID: TDA.2006.C,D
TDA.2062.A
TDA.2062.B
CABLE ID: TDA.2006.G
+48" AFF
TDA.2064.A
TO 'TDA' RM. (MDF)
2" x 12" BASKET TRAY
-RATED FOR 244 PLENUM RATED BERK-TEK 2000 LANMARK CAT 6 CABLES
12" CABLE TRAY
(1)-3" CONDUITS JOINING THE 2-CABLE TRAYS TOGETHER
CABLE ID: TDA.2010.C,D
TDA.2072.A
TDA.2072.B
TDA.2053.A
TDA.2053.B
CABLE ID: TDA.2003.A,B
CABLE ID: TDA.2003.C
TDA.2054.A
+76" AFF
TDA.2065.A
CABLE ID: TDA.2006.H,I
CABLE ID: TDA.2010.A,B
TDA.2071.A
TDA.2071.B
TO 'TDA' RM. (MDF)
CABLE ID: TDA.2007.A,B
TDA.2066.A
TDA.2066.B
TO 'TDA' RM. (MDF)
CABLE ID: TDA.2009.A,B
TDA.2068.A
TDA.2068.B
FOR REGISTER CABLE ID: TDA.2009.G,H
TDA.2073.A
TDA.2073.B
CABLE ID: TDA.2009.E,F
TDA.2070.A
TDA.2070.B
TDA.2069.A
TDA.2069.B
CABLE ID: TDA.2009.C,D
(6) 3"C
(6) 3" CONDUIT STUB DOWN TO THE FLOOR. FOUR OF THE 6 CONDUITS CONTINUE UP TO THE THIRD FLOOR
(1)-3" CONDUIT STUB-OUT -CABLE COUNT -42 CAT 6 CABLES
(1)-3" SPARE CONDUIT STUB-OUT
PA SYSTEM CONTROL
12" CABLE TRAY
CABLE ID: TDA.2008.A,B
TDA.2067.A
TDA.2067.B
TO 'TDA' RM. (MDF)
CEILING MT. DATA DEVICE FOR PROJECTOR
TDB.2002.A
TDB.2002.B
CABLE ID: TDA.2012.A,B
CABLE ID: TDA.2012.D,E
TDB.2004.A
TDB.2004.B
+18" AFF
4"x4" PULL BOX W/ 2"ø C. STUB-UP TO CEILING
+18" AFF
CABLE ID: TDA.2011.A,B
TDB.2001.A
TDB.2001.B
TO 'TDB' RM. (MDF)
CABLE ID: TDA.2012.C
TDB.2003.A
+48" AFF
12" CABLE TRAY
+48" AFF
TDB.2008.A
CABLE ID: TDA.2013.G
CABLE ID: TDA.2015.E,F
TDB.2016.A
TDB.2016.B
+18" AFF
4"x4" PULL BOX W/ 2"ø C. STUB-UP TO CEILING
TO 'TDB' RM. (MDF)
CABLE ID: TDA.2015.A,B
TDB.2014.A
TDB.2014.B
CABLE ID: TDA.2014.G
TDB.2012.A
+48" AFF
CABLE ID: TDA.2015.C,D
TDB.2015.A
TDB.2015.B
CEILING MT. DATA DEVICE FOR PROJECTOR
MATCHLINE FOR CONTINUATION SEE SHT. E4.0A
CABLE ID: TDA.2013.C,D
TDB.2006.A
TDB.2006.B
CABLE ID: TDA.2013.A,B
TDB.2005.A
TDB.2005.B
TO 'TDB' RM. (MDF)
CEILING MT. DATA DEVICE FOR PROJECTOR
2" x 12" BASKET TRAY
-RATED FOR 244 PLENUM RATED BERK-TEK 2000 LANMARK CAT 6 CABLES
4"x4" PULL BOX W/ 2"ø C. STUB-UP TO CEILING
CABLE ID: TDA.2013.E,F
+18" AFF
TDB.2007.A
TDB.2007.B
CABLE ID: TDA.2014.E,F
TDB.2011.A
TDB.2011.B
+18" AFF
CABLE ID: TDA.2014.A,B
TDB.2009.A
TDB.2009.B
CEILING MTD. DATA DEVICE FOR PROJECTOR
2" x 12" BASKET TRAY
-RATED FOR 244 PLENUM RATED BERK-TEK 2000 LANMARK CAT 6 CABLES
CABLE ID: TDA.2014.H,I
4"x4" PULL BOX W/ 2"ø C. STUB-UP TO CEILING
TDB.2010.A
TDB.2010.B
CABLE ID: TDA.2014.C,D

KEY PLANS

1 E4.03 **Signal Plan - Level 2 - West**
SCALE: 1/8"=1'-0"

PROJECT NORTH

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E4.03_Signal Plan Level 2-West.dwg - Dec 13, 2010 Monday - 1:25pm - 30x42-Plt - wecheverria

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DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Number	Description	Date
1	DF/MDF CHANGES	12/01/09
2	EQUIPMENT SERVERS REROM PER MITSUBISHI	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

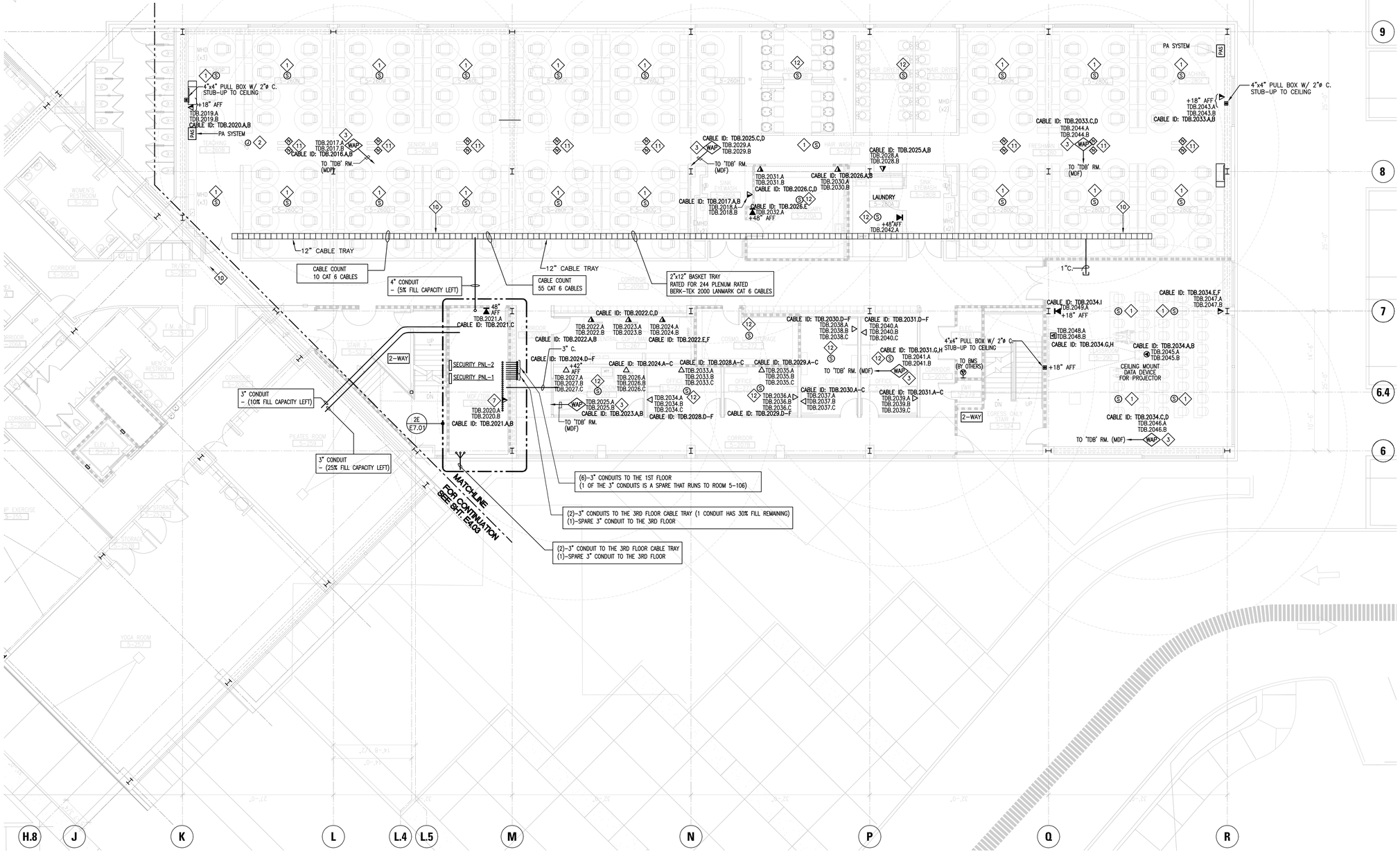
Job. No. 103-300085
Date 06.13.2008
Scale AS SHOWN

Signal Plan
Level 2 - West

E4.03

SHEET NOTES

1. SMART CLASSROOM SPEAKERS. JBL CONTROL 26C WITH DEDICATED 14/2 CABLE TO TEACHING STATION.
2. CAMERA LOCATION.
3. WIRELESS ACCESS POINT, 2-LINKS, CAT6.
7. DATA DROP FOR SECURITY PANEL.
8. DATA DROP FOR CAMERA, BY OTHERS.
9. DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 2.01 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.
10. CONDUITS TO BE STUB-OUT & ROUTED TO ACCESSIBLE AREA ONLY. TO BE FIELD COORDINATED. LOCATIONS OF ACCESS PANELS TO BE DETERMINED AFTER COORDINATION WITH OTHER DISCIPLINE.
11. A/V IS BY OTHERS. EXACT LOCATION OF TV SIGNAL DEVICE AND WIRING DETAILS SHALL BE PROVIDED BY OTHERS.
12. PUBLIC ADDRESS SYSTEM CONNECTED TO COSMETOLOGY NETWORK.



KEY PLANS

PROJECT NORTH

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

1 E4.04 **Signal Plan - Level 2 - East**
SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E4.04_Signal Plan Level 2-East.dwg – Dec 13, 2010 Monday – 1:25pm – 30x42-Plt – wecheverria

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Number	Description	Date
1	DSA SUBMITTAL	12/01/09
2	ADDENDUM #1	01/12/10
3	ADDENDUM #2	01/25/10
4	AS BUILT	02/16/10

Number	Description	Date
1	100% DD	05/12/08
2	50% CD	04/17/08
3	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFI-3-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No. RB-300085
Date 06.13.2008
Scale AS SHOWN

Signal Plan
Level 2 - East

E4.04

SHEET NOTES

1	WIRELESS ACCEESS POINT, 2-LINKS, CAT6.
2	SMART CLASSROOM SPEAKERS. JBL CONTROL 26C WITH DEDICATED 14/2 CABLE TO TEACHING STATION.
8	DATA DROP FOR CAMERA, BY OTHERS.
9	DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 2.01 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.
10	CONDUITS TO BE STUB-OUT & ROUTED TO ACCESSIBLE AREA ONLY. TO BE FIELD COORDINATED. LOCATIONS OF ACCESS PANELS TO BE DETERMINED AFTER COORDINATION WITH OTHER DISCIPLINE.
13	VERIFY EXACT LOCATION & MOUNTING REQUIREMENTS OF DATA DROPS WITH DENTAL EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

2" x 12" BASKET TRAY
– RATED FOR 244 PLENUM RATED BERK-TEK 2000 LANMARK CAT 6 CABLES

CABLE COUNT
145 CAT 6 CABLES

(3) 3"CONDUITS FROM IDF LOCATED IN ROOM 5-104
(1) 3" SPARE CONDUIT FROM IDF LOCATED IN ROOM 5-104

3"C
2-WAY

1"C SECURITY

3"C
SPARE

12" CABLE TRAY FOR VOICE/DATA CABLING

(2)-3" CONDUIT

4"X4"PULLBOX W/2"ø C. STUB-UP TO CEILING

MATCHLINE
FOR CONTINUATION
SEE SHT. E4.06

SECURITY DOOR TYPE 'A'

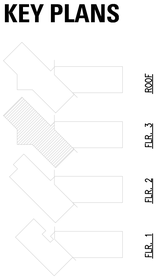
SECURITY DOOR TYPE 'B'

SECURITY DOOR TYPE 'B'
D323.2

SECURITY DOOR TYPE 'A'
D313.1

CEILING MOUNT DATA DEVICE FOR PROJECTOR

KEY PLANS



PROJECT NORTH

1 Signal Plan - Level 3 - West

E4.05 SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E4.05_Signal Plan Level 3-West.dwg – Dec 13, 2010 Monday – 1:26pm – 30x42-Plt – wecheverria

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DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/09/10

Number	Description	Date
	RFI/MEP CHANGES	12/01/09
	DOCUMENT SENSORS REVISION PER INVITESWIPER	01/12/10
	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

Number	Description	Date
	100% DD	03/12/06
	50% CD	04/17/06
	DSA Submittal	06/13/06
	100% Coordination Documents	08/01/06
	DSA Submittal	10/15/06
	Coordination - Bulletin 4	06/24/09
	Owner Changes	09/01/09
	RFP-3-17	09/01/09
	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No. RR-300085
Date 06.13.2006
Scale AS SHOWN

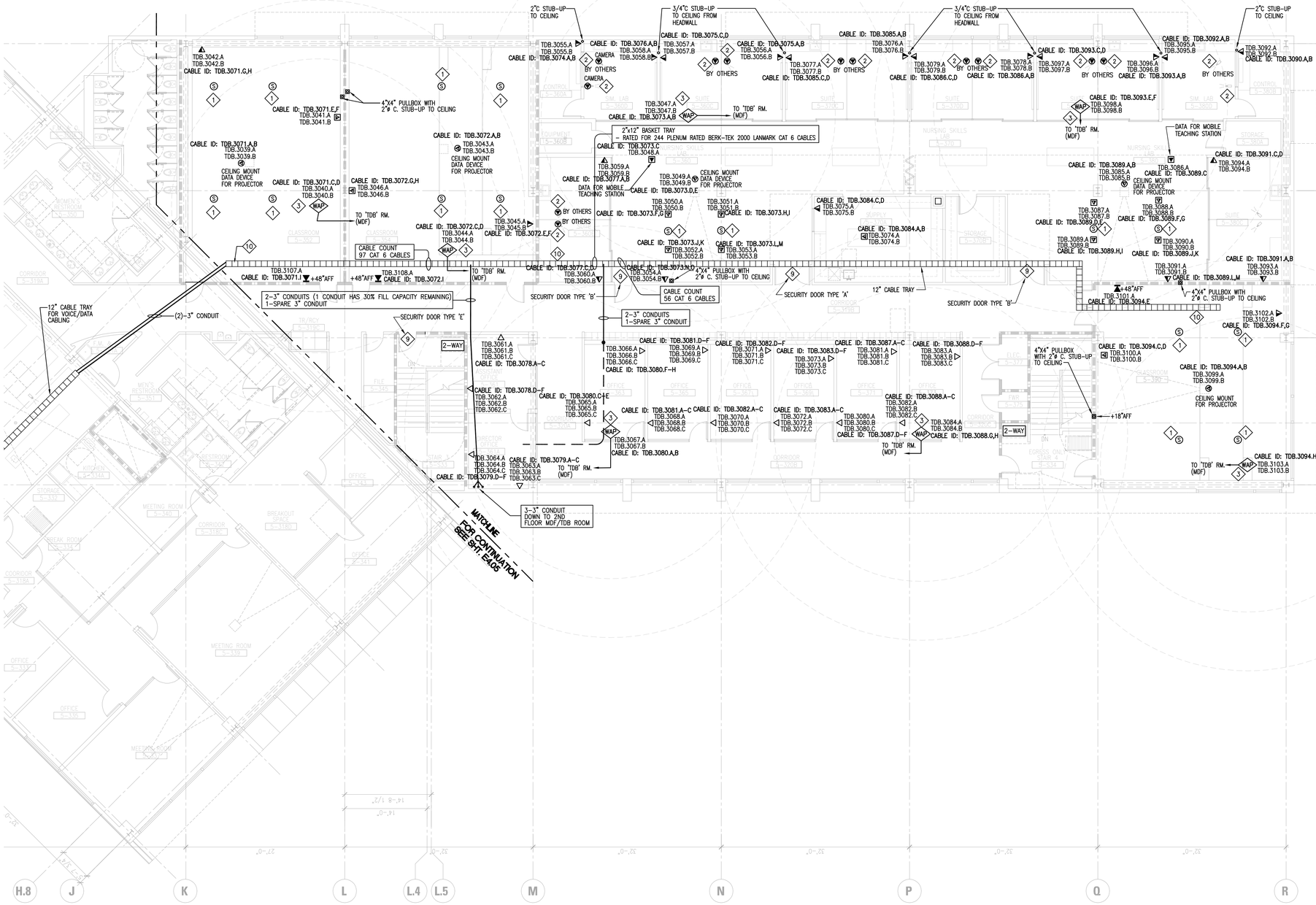
Signal Plan
Level 3 - West

E4.05

College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

SHEET NOTES

1	SMART CLASSROOM SPEAKERS. JBL CONTROL 26C WITH DEDICATED 14/2 CABLE TO TEACHING STATION.
2	CAMERA LOCATION, BY OTHERS.
3	WIRELESS ACCESS POINT, 2-LINE, CAT 6.
9	DOOR SECURITY CONTROL. SEE SECURITY DRAWING SEC. 2.01 TO SEC 2.03 FOR DOOR TYPES, DOOR SECURITY REQUIREMENTS AND DETAILS.
10	CONDUITS TO BE STUB-OUT & ROUTED TO ACCESSIBLE AREA ONLY. TO BE FIELD COORDINATED. LOCATIONS OF ACCESS PANELS TO BE DETERMINED AFTER COORDINATION WITH OTHER DISCIPLINE.



KEY PLANS

PROJECT NORTH

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

1 E4.06 **Signal Plan - Level 3 - East**
SCALE: 1/8"=1'-0"

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E4.06_Signal Plan Roof-East.dwg - Dec 13, 2010 Monday - 1:26pm - 30x42-Plt - wecheverria

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Number	Description	Date
1	UF/MDF CHANGES	12/01/09
2	DOORMAT SHOWS VERSION PER WHITEPAPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Number	Description	Date
	100% CD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	09/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-5-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No. 183-300085
Date 06.13.2008
Scale AS SHOWN

Signal Plan
Level 3 - East

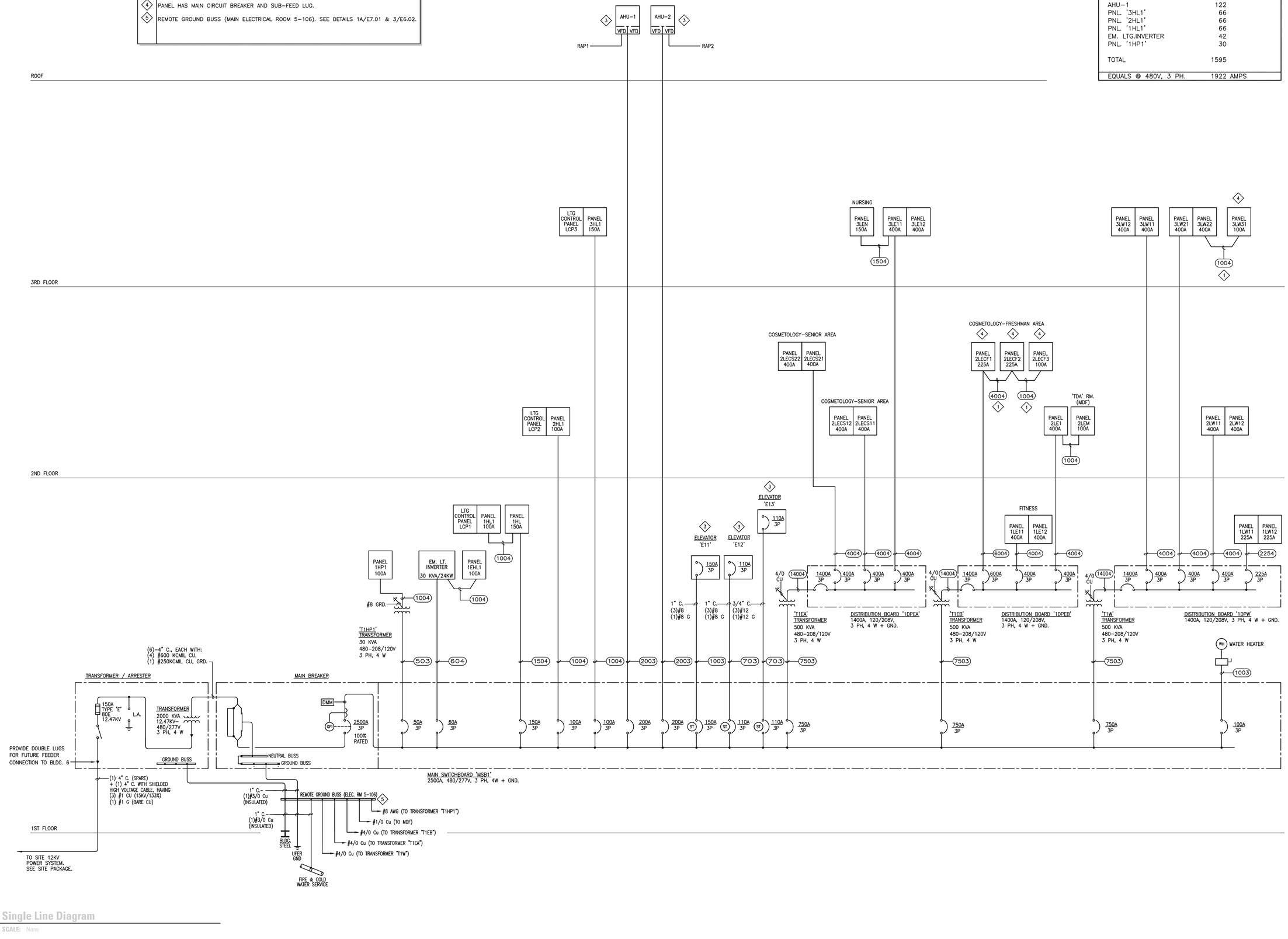
E4.06

SHEET NOTES

1. 10 FOOT TAP RULE: MAXIMUM FEEDER LENGTH IS 10'. MINIMUM FEEDER AMPERAGE IS 10% OF TAPPED FEEDER.
2. NOT USED.
3. VERIFY ELECTRICAL REQUIREMENTS WITH THE APPROVED EQUIPMENT SUBMITTAL.
4. PANEL HAS MAIN CIRCUIT BREAKER AND SUB-FEED LUG.
5. REMOTE GROUND BUSS (MAIN ELECTRICAL ROOM 5-106). SEE DETAILS 1A/E7.01 & 3/E6.02.

COLLEGE OF SAN MATEO BLDG. 5N
MAIN SWITCHBOARD 'MSB1' LOAD SUMMARY
2500A, 480/277V, 3 PH, 4 W

LOAD	ESTIMATED DEMAND KVA
DIST. BD. '1DPW'	320
DIST. BD. '1DPEB'	361
DIST. BD. '1DPEA'	318
ELEVATOR 'E13'	16
ELEVATOR 'E12'	33
ELEVATOR 'E11'	33
AHU-2	122
AHU-1	122
PNL. '3HL1'	66
PNL. '2HL1'	66
PNL. '1HL1'	66
EM. LTG.INVERTER	42
PNL. '1HP1'	30
TOTAL	1595
EQUALS @ 480V, 3 PH.	1922 AMPS



1 E-501 **Single Line Diagram**
SCALE: None

L:\Eng_2\current projects\college of san mateo-bldg 5n_300085\record drawing set-for warranty submittal_ b5n electrical_2010-09-14\300085_E5.01_Single Line Diagram.dwg - Dec 13, 2010 Monday - 1:26pm - 30x42-Plt - wecheverria

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Number	Description	Date
1	MP/MDF CHANGES	12/01/09
2	VOLUMNT SENSORS REVISION PER INTERSTIMPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/16/10

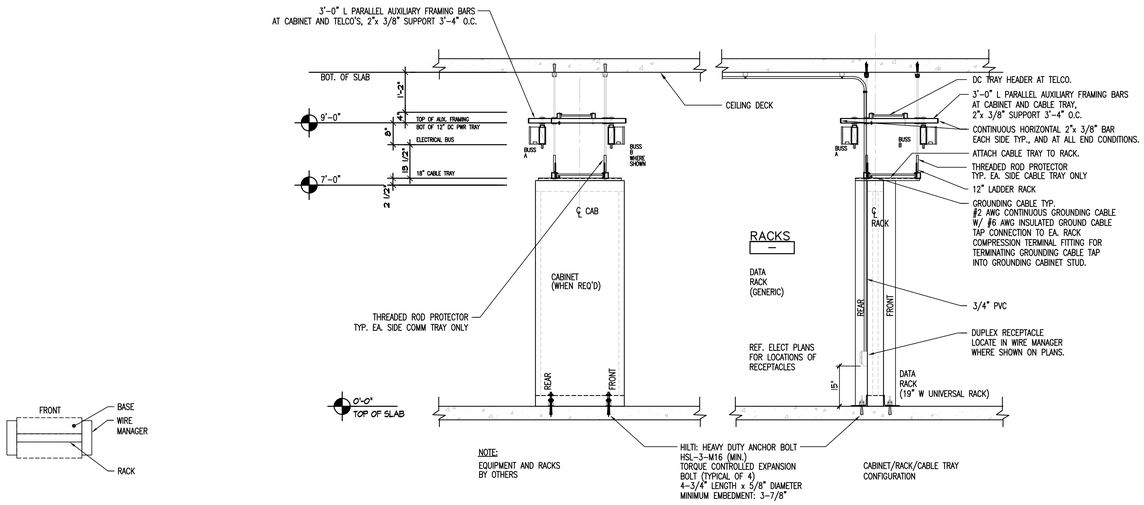
Number	Description	Date
	100% DD	03/12/06
	50% CD	04/17/06
	DSA Submittal	06/13/06
1	100% Coordination Documents	08/01/06
2	DSA Submittal	10/15/06
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-3-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/19/10

Job. No. RER-300085
Date 06.13.2006
Scale AS SHOWN

Power System
Single Line
Diagram

E5.01

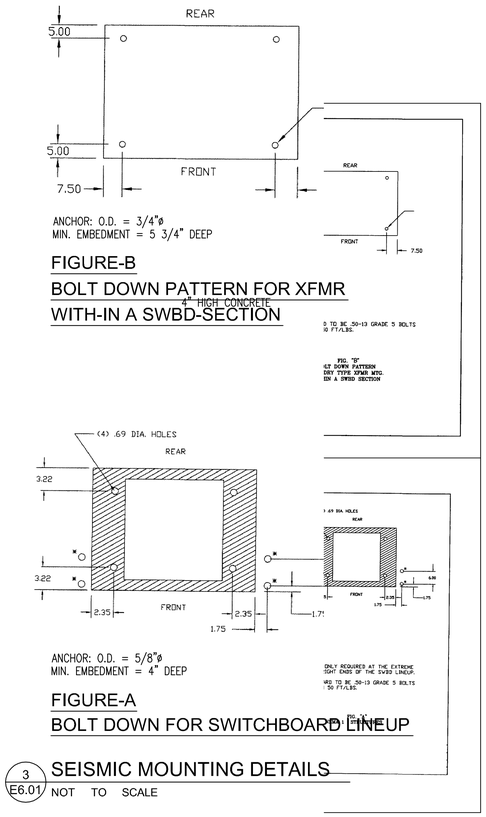


5 E6.01 DATA RACK DETAIL - PLAN
NOT TO SCALE

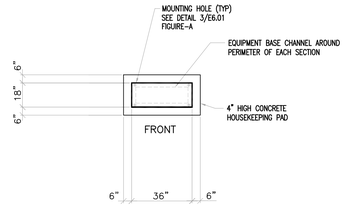
4 E6.01 MDF INFRASTRUCTURE ELEVATION COORDINATION
NOT TO SCALE

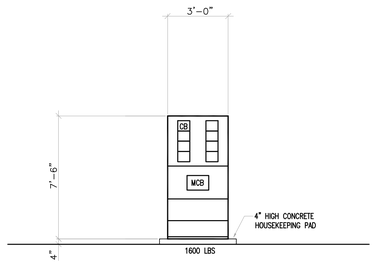
SHEET NOTES

1. VERIFY EXACT LOCATION WITH EQUIPMENT SUBMITTALS.
2. SEISMIC CALCULATIONS FOR SWITCHGEAR COMPONENTS AND MOUNTING DETAILS ARE TO BE PROVIDED BY MANUFACTURER AND APPROVED BY STRUCTURAL ENGINEER OF RECORD.
3. INDOOR; NEMA 1
4. VPI TRANSFORMER; ALUMINUM WINDINGS.
5. 12KV – 480/277V.
6. TOTAL UNIT SUBSTATION WEIGHT = 17,500 LBS.

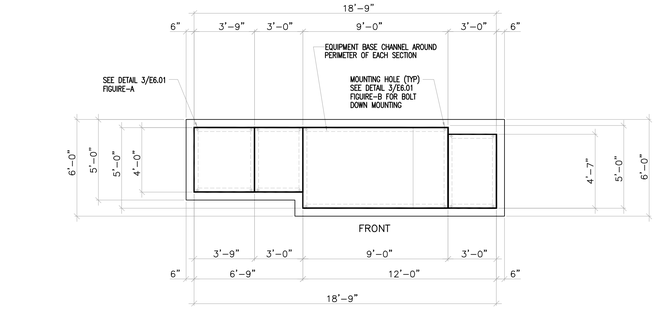


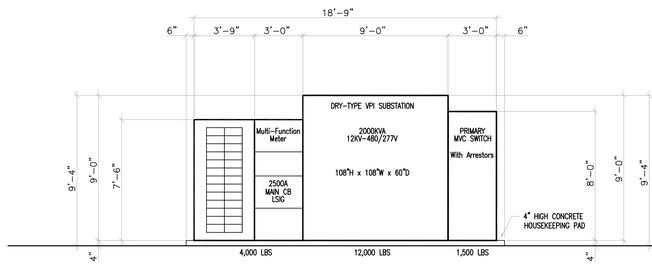
3 E6.01 SEISMIC MOUNTING DETAILS
NOT TO SCALE





2 E6.01 TYPICAL FLOOR MOUNTED SWITCHBOARD
NOT TO SCALE





1 E6.01 INDOOR UNIT SUBSTATION (2000KVA/2500A SWITCHBOARD)
NOT TO SCALE

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

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REGISTERED PROFESSIONAL ENGINEER ADAM P. MAZZEO 20012 ELECTRICAL STATE OF CALIFORNIA

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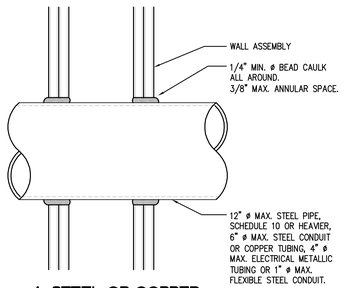
Mark/No.	Description	Date
1	GP/ASF CHANGES	12/01/09
2	DOOR/PKT DOORS REVISION PER WHITESTOPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Mark/No.	Description	Date
	100% SD	03/12/08
	100% DD	05/09/08
	100% CD	06/13/08
	100% Coordination Documents	09/01/08
1	DSA Submittal	10/15/08
2	100% Coordination Documents	06/24/09
3	Coordination - Bulletin 4	09/01/09
4	Owner Changes	09/01/09
5	RFP-3-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

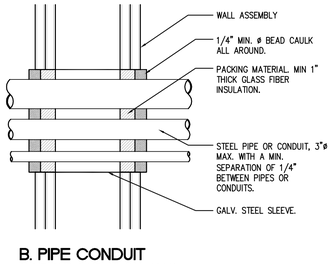
College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Job. No. 103-300085
Date 06.13.2008
Scale AS SHOWN

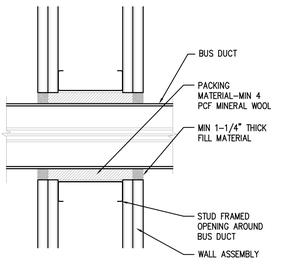
EQUIPMENT & DETAILS
E6.01



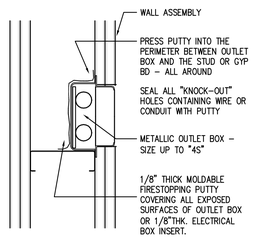
A. STEEL OR COPPER
(1-HR AND 2-HR UL W-L-1001 OR W-L-1049)



B. PIPE CONDUIT
(1-HR AND 2-HR UL W-L-1016)



C. BUS DUCT
(1-HR AND 2-HR PER UL W-L-6003)



D. OUTLET BOX
(2-HR PER UL R9700 OR R10764 OR R14288)

PROVIDE OUTLET BOX FIRESTOPPING AT THE FOLLOWING LOCATIONS:

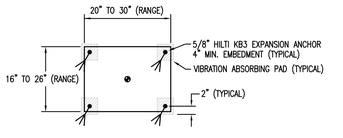
– WHERE AGGREGATE SURFACE AREA OF OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CONTIGUOUS PARTITION

– WHERE OUTLET BOXES ON OPPOSITE SIDES OF PARTITION ARE SEPARATED BY LESS THAN 24 INCHES MEASURED HORIZONTALLY

– WHERE INDICATED BY THE DRAWINGS OR SPECIFICATIONS.

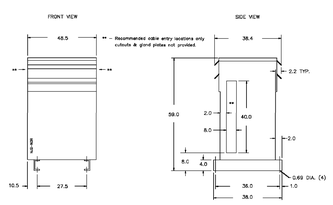
TYPICAL PARTITION PENETRATION DETAILS

6 / E6.02 **SCALE: NONE**



TRANSFORMER DETAIL

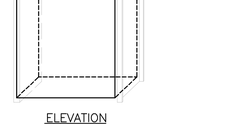
5 / E6.02 **SCALE:** NONE

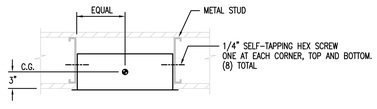


ANCHOR: O.D. = 1/2"ø
MIN. EMBEDMENT: = 3 1/4" DEEP

TRANSFORMER DETAIL

5A / E6.02 **SCALE:** NONE



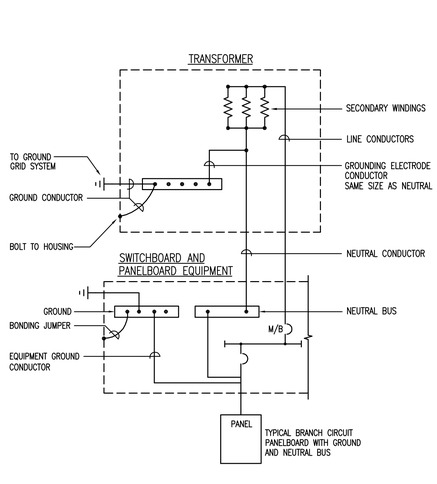


FLUSH MOUNTED PANEL OR CABINET ANCHORAGE DETAIL

2 / E6.02 **SCALE: NONE**

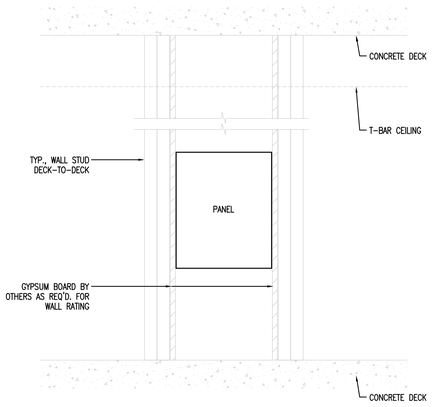
SHEET NOTES

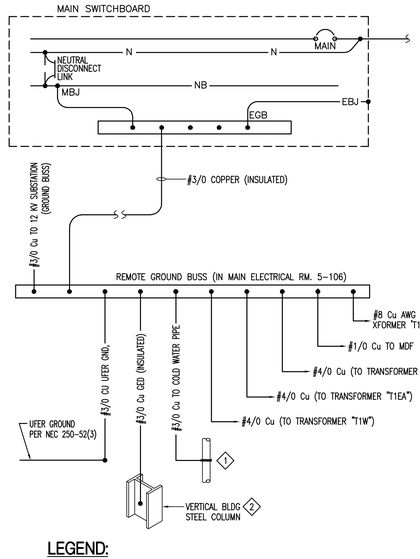
1 SEE STRUCTURAL DRAWINGS FOR PAD CONFIGURATION REQUIREMENTS. SUBMIT DIMENSIONS OF PADS WITH EQUIPMENT SIZES FOR ARCHITECTS REVIEW PRIOR TO COMMENCING WORK. VERIFY EQUIPMENT DIMENSIONS WITH EQUIPMENT MANUFACTURER.



TRANSFORMER SYSTEM GROUNDING ARRANGEMENT

4 / E6.02 **SCALE: NONE**





LEGEND:

NB	NEUTRAL BUSS
EGB	EQUIPMENT GROUND BUSS NEUTRAL CONDUCTOR N
GEC	GROUNDING ELECTRODE CONDUCTOR BARE OR INSUL, SIZED PER 250–66
EGC	EQUIPMENT GROUNDING CONDUCTOR BARE (BC) OR INSUL, SIZED PER 250–122 MAIN BONDING JUMPER,
MBJ	SIZED PER 250–28(d)

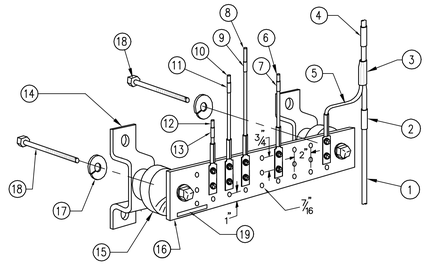
NOTES:

1 NEAREST EFFECTIVELY GROUNDED METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FEET OR MORE ELECTRICALLY CONT. TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND ANY BONDING CONDUCTORS. THE GEC SHALL BE SIZED PER SECTION 250–66.

2 NEAREST EFFECTIVELY GROUNDED STRUCTURAL METAL FRAMING MEMBER. THE GEC SHALL BE SIZED PER SECTION 250–66. CONNECTION SHALL BE EXOTHERMIC WELD.

GROUNDING DIAGRAM

3 / E6.02 **SCALE: NONE**

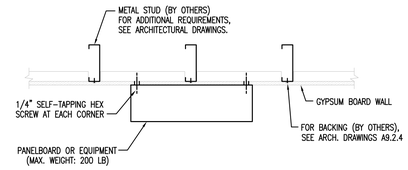


NOTES:

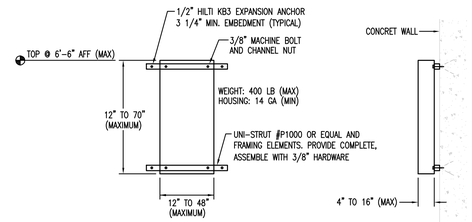
1. (TBB) INSULATED, CONDUCTOR TO TELECOMMUNICATION BONDING BACKBONE (TBB) CONDUCTOR.
2. LABEL: TO TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB).
3. EXOTHERMIC WELD OR, COMPRESSION CONDUCTOR.
4. LABEL: TO TELECOMMUNICATION GROUNDING BUSBAR (TGB).
5. TBC, INSULATED CONDUCTOR TO TGB.
6. BONDING CONDUCTOR TO BUILDING STEEL.
7. LABEL: TO BUILDING STEEL
8. BONDING CONDUCTOR TO CONDUITS AND OTHER PATHWAYS.
9. LABEL: TO CONDUIT
10. BONDING CONDUCTOR TO OVERHEAD CABLE SUPPORT.
11. LABEL: TO CABLE TRAY.
12. BONDING CONDUCTOR TO EQUIPMENT RACKS.
13. LABEL: TO EQUIPMENT RACKS.
14. GALVANIZE STEEL STANDOFF SUPPORTS, BOLTED TO BACKBOARD.
15. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061–4 (OR EQUAL).
16. GROUNDING BUS BAR.
17. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015–8 (OR EQUAL).
18. 5/8"–11 x 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT COMPANY, CAT NO. 3012–1 (OR EQUAL).
19. LABEL: TGB.

GROUND BAR DETAIL

7 / E6.02 **SCALE: NONE**



SURFACE MOUNTED PANEL OR CABINET ON METAL STUD WALL



SURFACE MOUNTED PANEL/DISTRIBUTION PANEL OR CABINET @ CONCRETE WALL

SURFACE MOUNTED PANEL OR CABINET ANCHORAGE DETAIL

1 / E6.02 **SCALE: NONE**

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

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DIVISION OF THE STATE ARCHITECT
APPL NO. 01-109870

REGISTERED PROFESSIONAL ENGINEER JOAN P. MAZZETTI 12/12 ELECTRICAL STATE OF CALIFORNIA

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College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

Mark	Description	Date
1	100% DD	12/01/09
2	50% CD	01/12/10
3	DSA Submittal	01/25/10
4	100% Coordination Documents	02/16/10
5	DSA Submittal	
6	Coordination – Bulletin 4	
7	Owner Changes	
8	RFI–3–17	
9	Spinning Rm. Lighting Rev. Per Owner's Change	

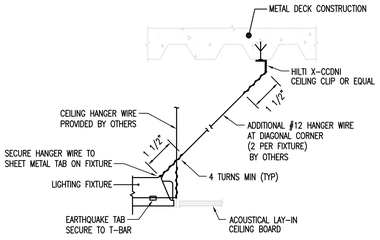
Mark	Description	Date
1	100% DD	05/12/08
2	50% CD	04/17/08
3	DSA Submittal	06/13/08
4	100% Coordination Documents	08/01/08
5	DSA Submittal	10/15/08
6	Coordination – Bulletin 4	06/24/09
7	Owner Changes	08/01/09
8	RFI–3–17	09/01/09
9	Spinning Rm. Lighting Rev. Per Owner's Change	11/11/09

Job. No. RB-300085
Date 06.13.2008
Scale AS SHOWN

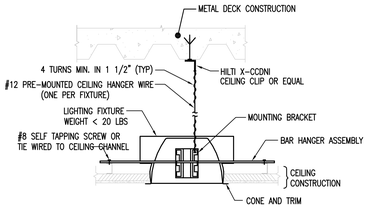
MISCELLANEOUS ELECTRICAL DETAILS

E6.02

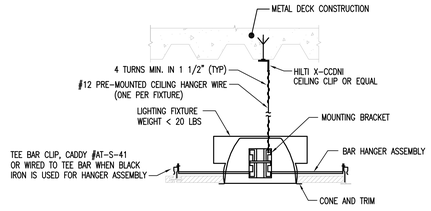
L:\Eng_2\current projects\college of san mateo–bldg 5n_300085\record drawing set–for warranty submittal_ b5n electrical_2010–09–14\300085_E6.02_Miscellaneous Electrical Equipment Details.dwg – Dec 13, 2010 Monday – 1:26pm – 30x42–Plt – wecheverria



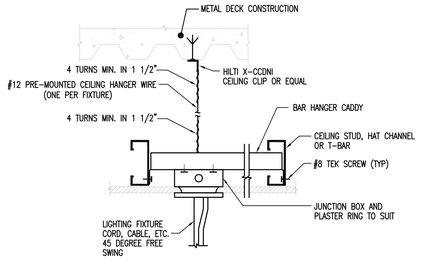
RECESSED FLUORESCENT
TEE-BAR CEILING



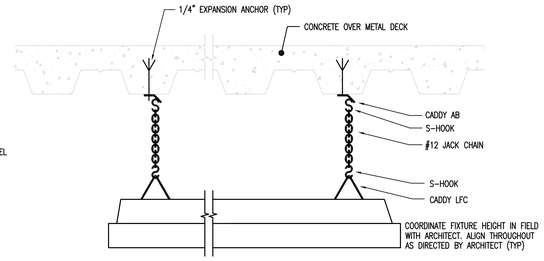
RECESSED DOWNLIGHT
GYPSUM BOARD CEILING



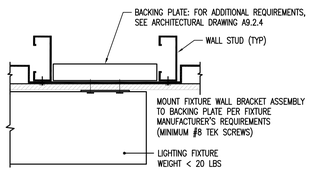
RECESSED DOWNLIGHT
TEE-BAR CEILING



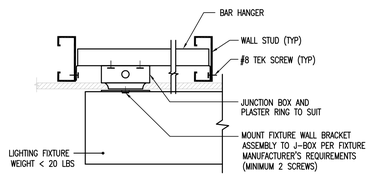
SUSPENDED MOUNTED FIXTURE



SUSPENDED CHAIN-HUNG FLUORESCENT

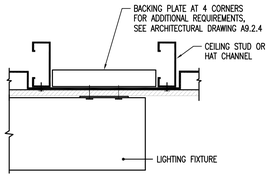


INTERMEDIATE/END SUPPORT

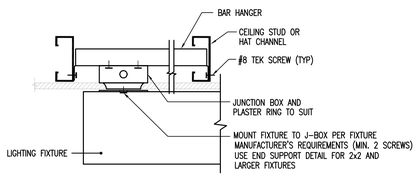


FEED-END SUPPORT

WALL SURFACE MOUNTED FLUORESCENT



INTERMEDIATE/END SUPPORT



FEED-END SUPPORT

CEILING SURFACE MOUNTED FLUORESCENT

SUSPENDED OR PENDANT LIGHT FIXTURES SUPPORT NOTES:

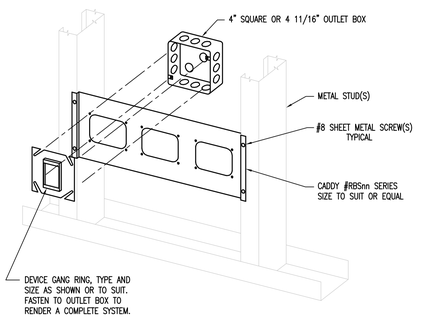
1. "THE PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING ANY OBSTRUCTIONS"
2. IF SOME PENDANT FIXTURES CANNOT SATISFY ITEM NO. 1 ABOVE, THEN PROVIDE SEISMIC RESTRAINTS.
3. THE SUPPORTING HANGER CAN BE ROD, CONDUIT OR AIRCRAFT CABLE (MIN, 3/32" ø). THE HANGER AND ITS CONNECTION SHALL BE CAPABLE TO SUPPORT 4 TIMES THE SUPPORTING LOAD. THE HANGER SHALL BE LOCATED CLOSE TO THE END OF EACH SECTION.
4. FOR FREE-SWING SUSPENSION SYSTEMS, AIRCRAFT SAFETY CABLE MAY NOT BE REQUIRED IF HANGER IS AIRCRAFT CABLE AND DIRECTLY ATTACHED TO FIXTURE AND ROOF FRAMING. ALL OTHER CASES, PROVIDE SAFETY CABLE (TO MATCH FIXTURE AND STRUCTURAL FRAMING ABOVE).
5. FOR MULTIPLE UNITS (CONTINUES RUN), ALL UNITS SHALL BE ASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS AND COMPONENTS.

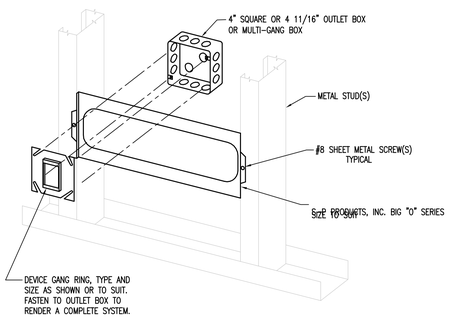
EQUIPMENT ANCHORAGE AND SUPPORT NOTES

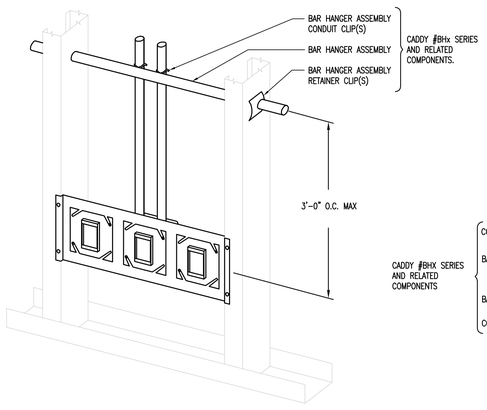
1. ANCHOR ALL CONDUITS, RACEWAY AND ELECTRICAL EQUIPMENT TO BUILDING STRUCTURE OR STRUCTURAL MEMBERS.
2. CONDUITS 1/2" TO 2": ATTACH TO STRUCTURE PER CALIFORNIA BUILDING CODE AND CALIFORNIA ELECTRICAL CODE ATTACHMENT REQUIREMENTS.
3. CONDUITS 2 1/2" AND LARGER: ANCHOR TO STRUCTURE PER SPECIFICATION SECTION 16180.
4. ALL CONDUITS TO BE SUPPORTED AT 8 FEET ON CENTERS AND WITHIN 18" OF ENDS.

4 E6.03 LIGHT FIXTURE ANCHORAGE

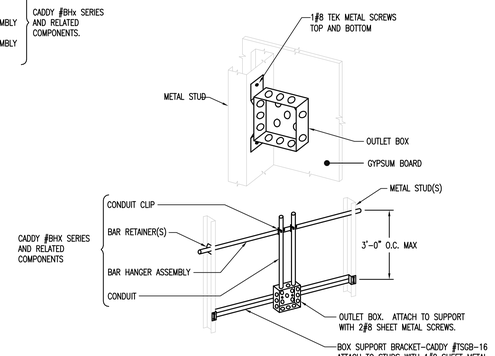
SCALE: NONE







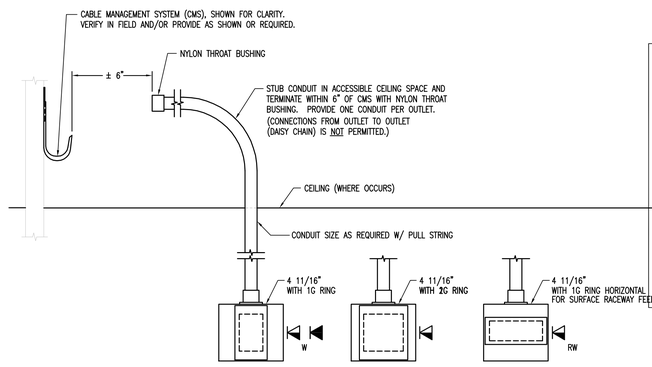
ARRANGEMENT A
PROVIDE WHERE STUD(S) ARRANGEMENT ALLOWS



ARRANGEMENT B
PROVIDE ONLY WHERE ARRANGEMENT 'A' IS
NOT AVAILABLE DUE TO SPATIAL CONSTRAINTS

3 E6.03 OUTLET BOX SUPPORT ARRANGEMENTS

SCALE: NONE



1 E6.03 VOICE/ DATA OUTLET ARRANGEMENT

SCALE: NONE

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/19/10

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APPL. NO. 01-109870

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Number	Description	Date
1	50% MEP CHANGES	12/01/09
2	VOC/PANCI SENSORS REVISION PER WHITESUPPER	01/12/10
3	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/19/10

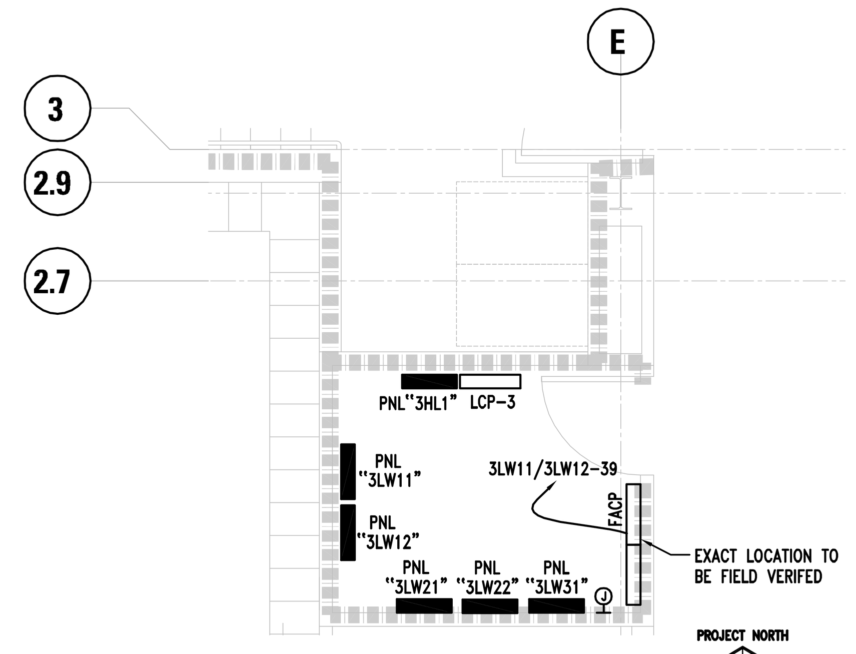
Number	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	DSA Submittal	10/15/08
3	Coordination - Bulletin 4	06/24/09
4	Owner Changes	09/01/09
5	RFP-S-17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

College of San Mateo
Building 5N
Bulletin #4
San Mateo, CA
Developed for
San Mateo County Community College District

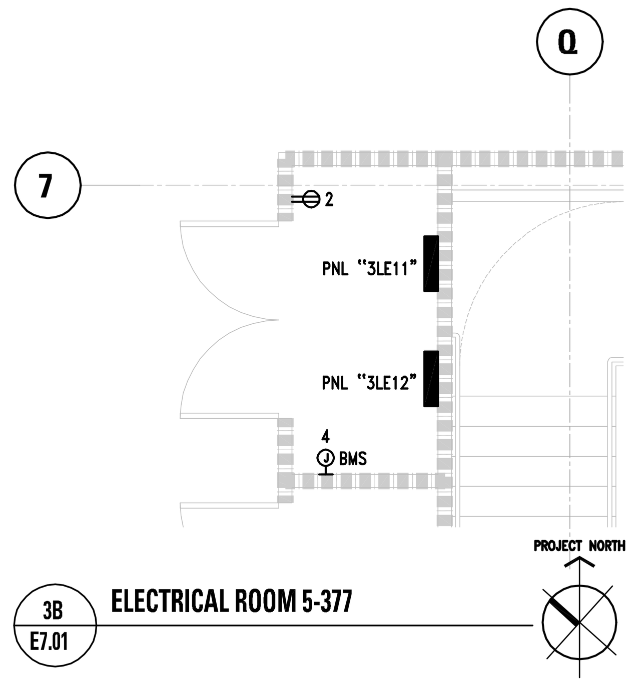
Job. No. R09-300085
Date 06.13.2008
Scale AS SHOWN

MISCELLANEOUS ELECTRICAL DETAILS

E6.03



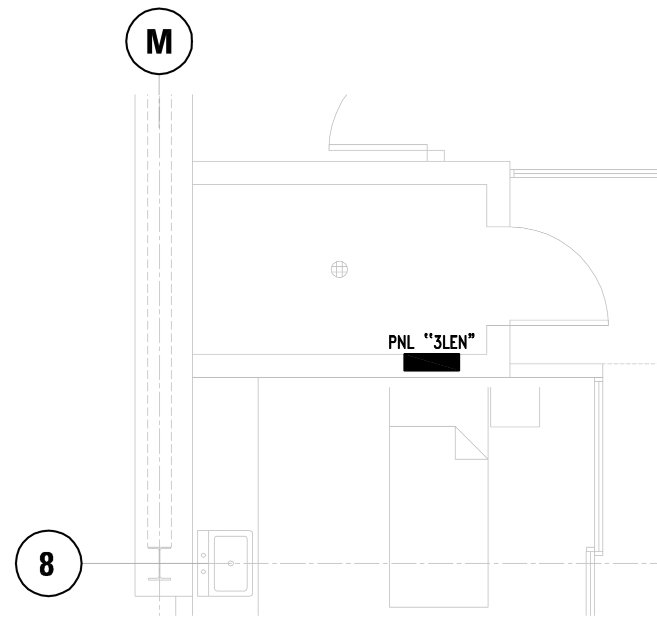
3A E7.01 **ELECTRICAL ROOM 5-321**



3B E7.01 **ELECTRICAL ROOM 5-377**

3 E7.01 **ENLARGED ELECTRICAL PLANS - LEVEL 3**

SCALE: 1/4"=1'-0"



3C E7.01 **EUIPMENT ROOM 5-360B**

NOTES:

1.) DATA RACK MOUNTING DETAILS SEE DETAIL 4/E6.01.

2.) ELECTRICAL DEVICES IN THIS ROOM SHALL BE CIRCUITED TO PANEL"2LEM".

3.) MOUNT MAIN TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB) IN EACH "MDF". MOUNT TELECOMMUNICATION GROUNDING BUSBAR (TGB) IN EACH "IDF" ROOM. INSTALL TELECOMMUNICATION MAIN BONDING BACKBONE (TBB) CONDUCTOR CONTINOUS FROM "MDF" TO EVERY "IDF". BOND THE "TMGB" TO MAIN BUILDING ELECTRICAL GROUNDING SYSTEM & NEAREST GROUNDING STRUCTURAL WITH 3/0 AWG COPPER EQUIPMENT GROUNDING BUSBAR.

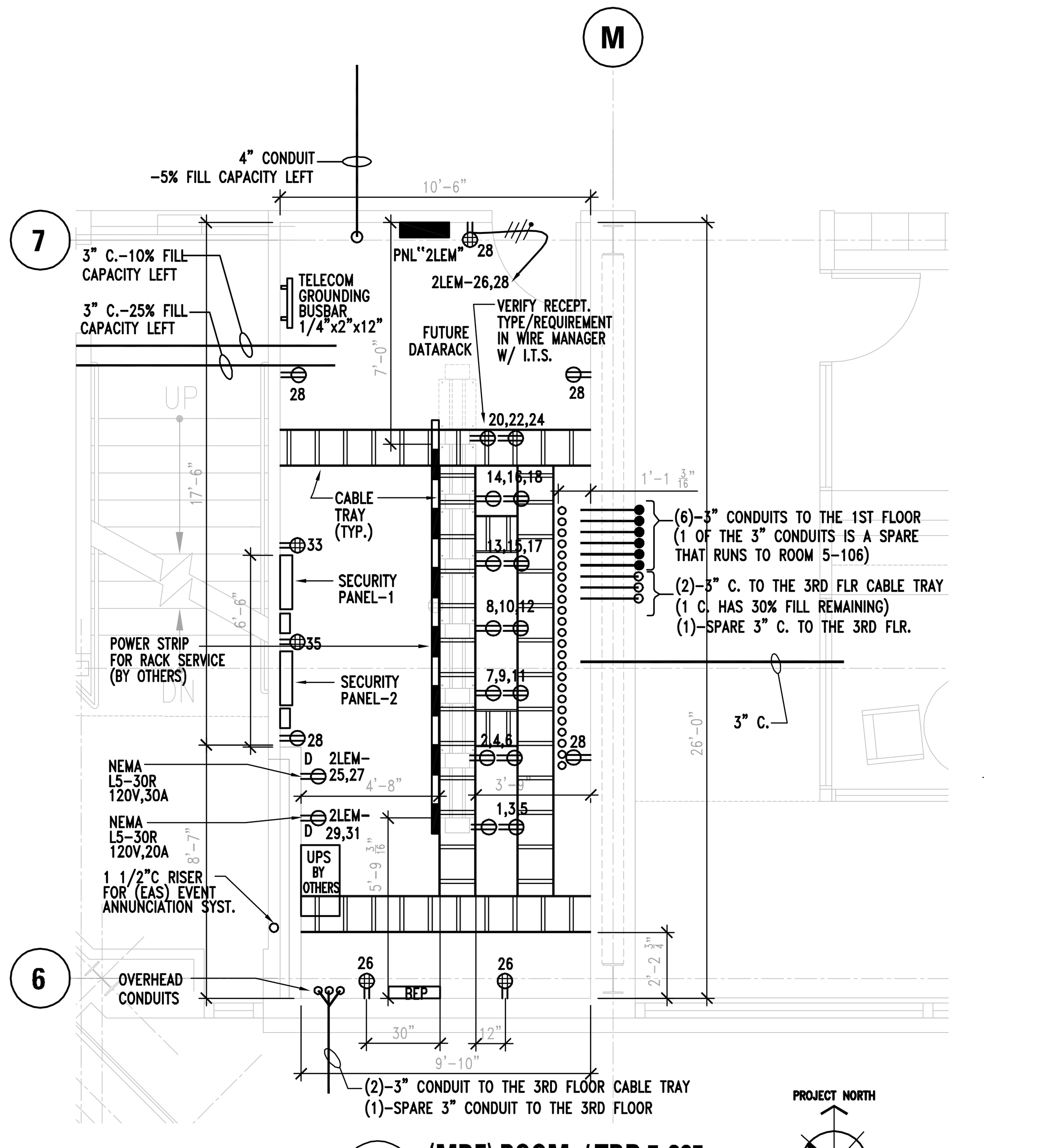
4.) ALL METALLIC COMPONENTS, (CONDUIT, OVERHEAD CABLE SUPPORT, RACKS, RACK BAYS) SHALL BE BONDED TO TELECOM GROUNDING BUS BAR.

5.) COORDINATE EXACT LOCATION OF TELECOM GROUNDING BUS BAR WITH I.T.S

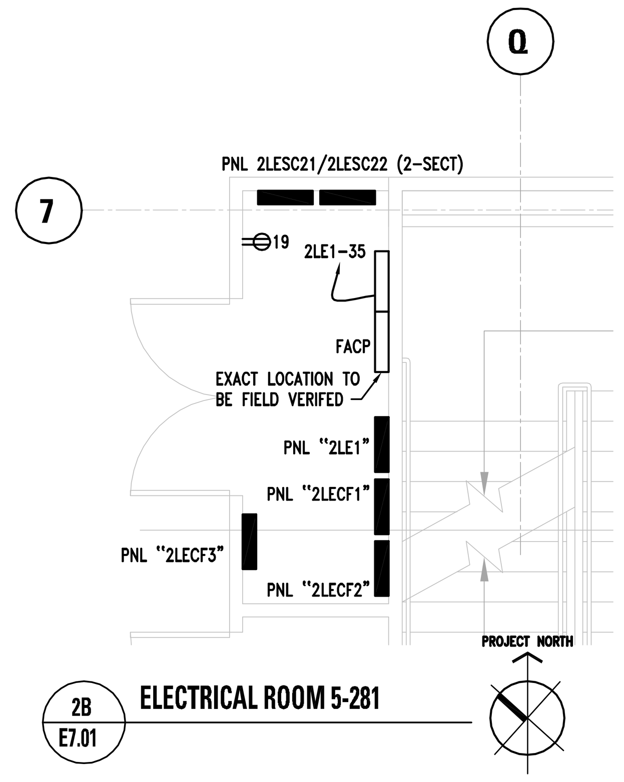
6.) COORDINATE SECURITY/ACAMS SYSTEMS SERVICE & INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR.

7.) BRANCH CIRCUIT WIRES SHALL BE #10AWG.

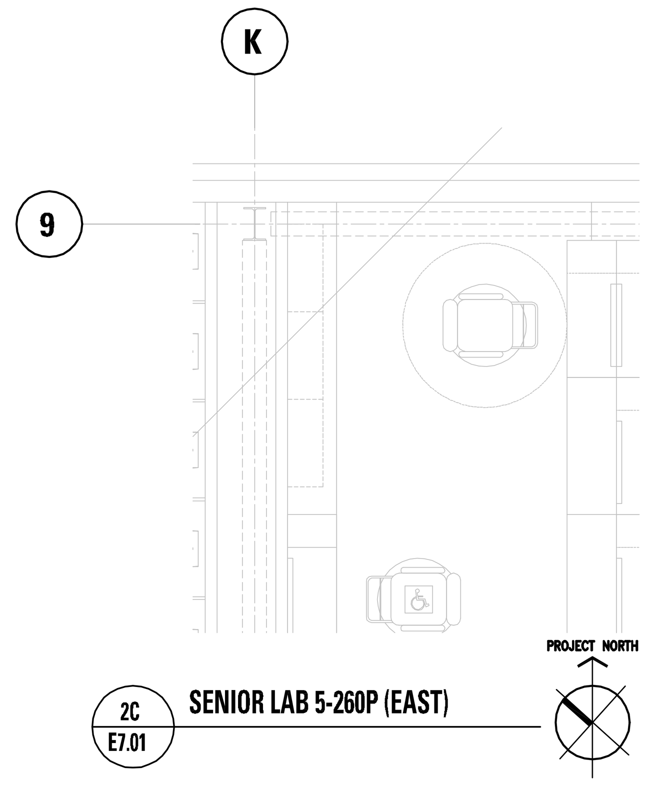
8.) COORDINATE & CONFIRM LOCATION OF UPS AND RACK SERVICE WITH I.T.S. BEFORE FINAL INSTALLATION.



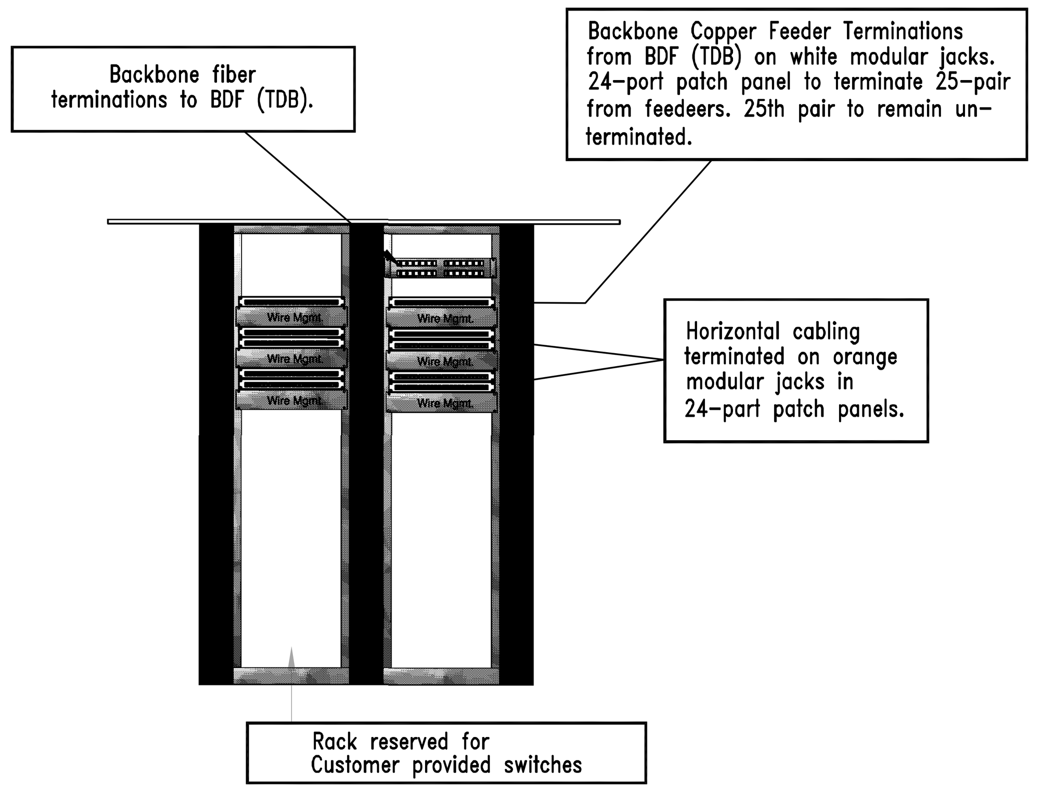
2E E7.01 **(MDF) ROOM / TDB 5-265**



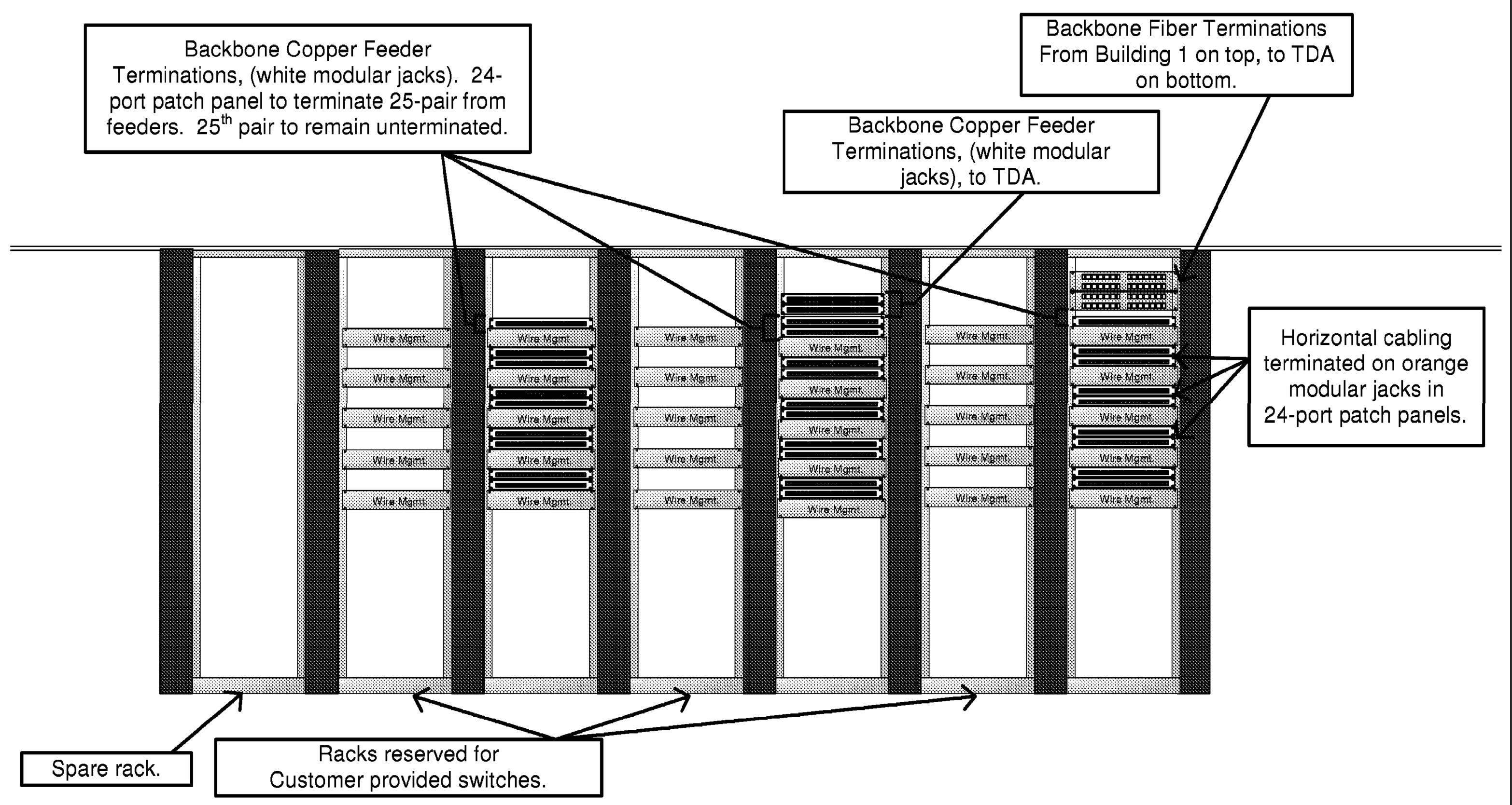
2B E7.01 **ELECTRICAL ROOM 5-281**



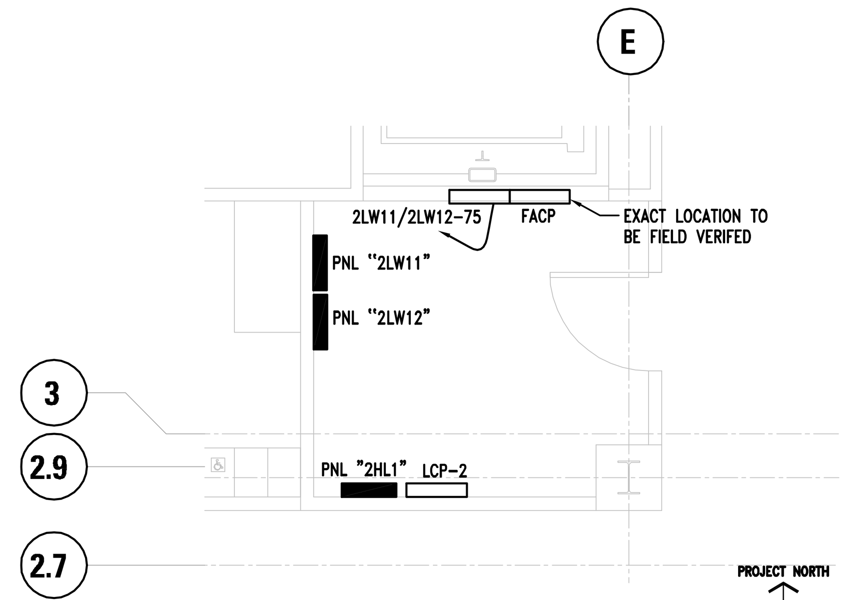
2C E7.01 **SENIOR LAB 5-260P (EAST)**



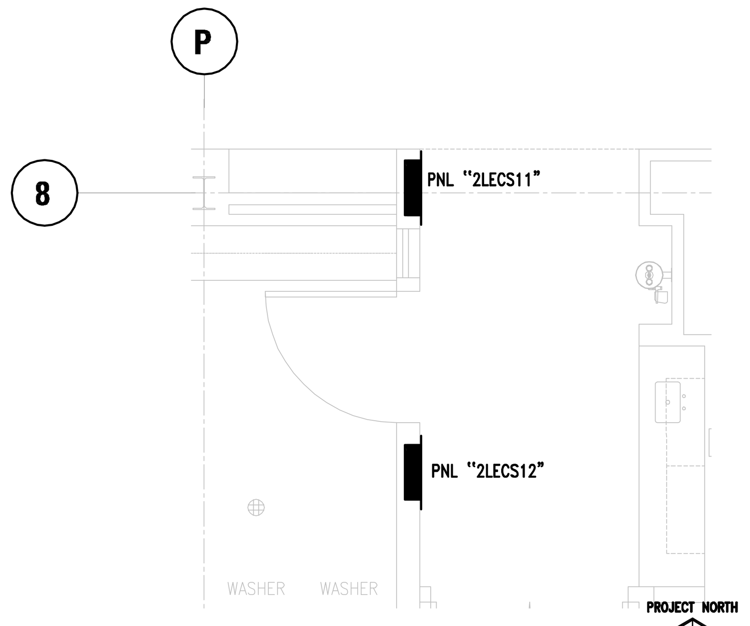
1D-A E7.01 **IDF ROOM/TDA EQUIPMENT RACK ELEVATION**



2E-A E7.01 **MDF ROOM / TDB EQUIPMENT RACK - ELEVATION**



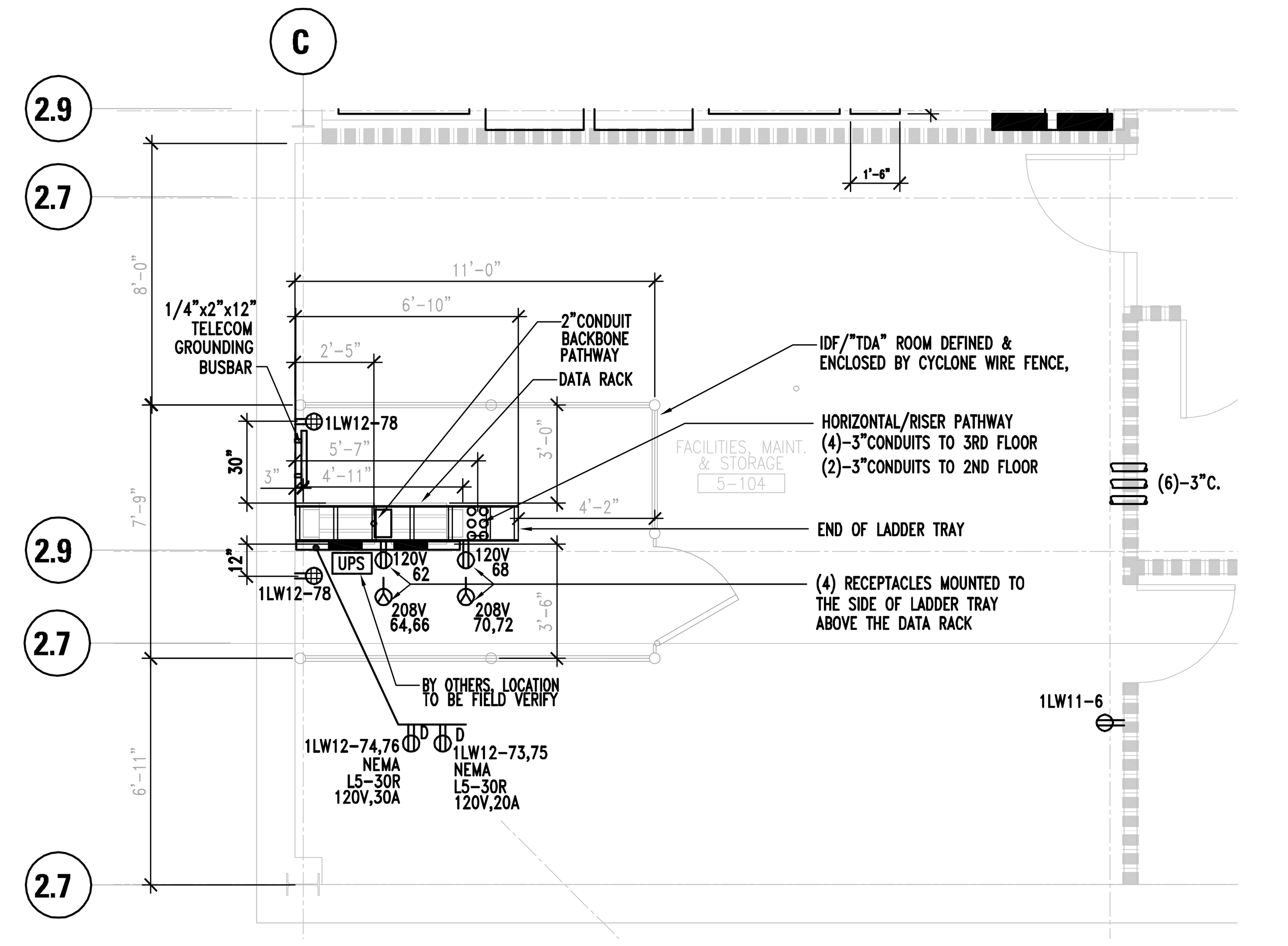
2A E7.01 **ELECTRICAL ROOM 5-210**



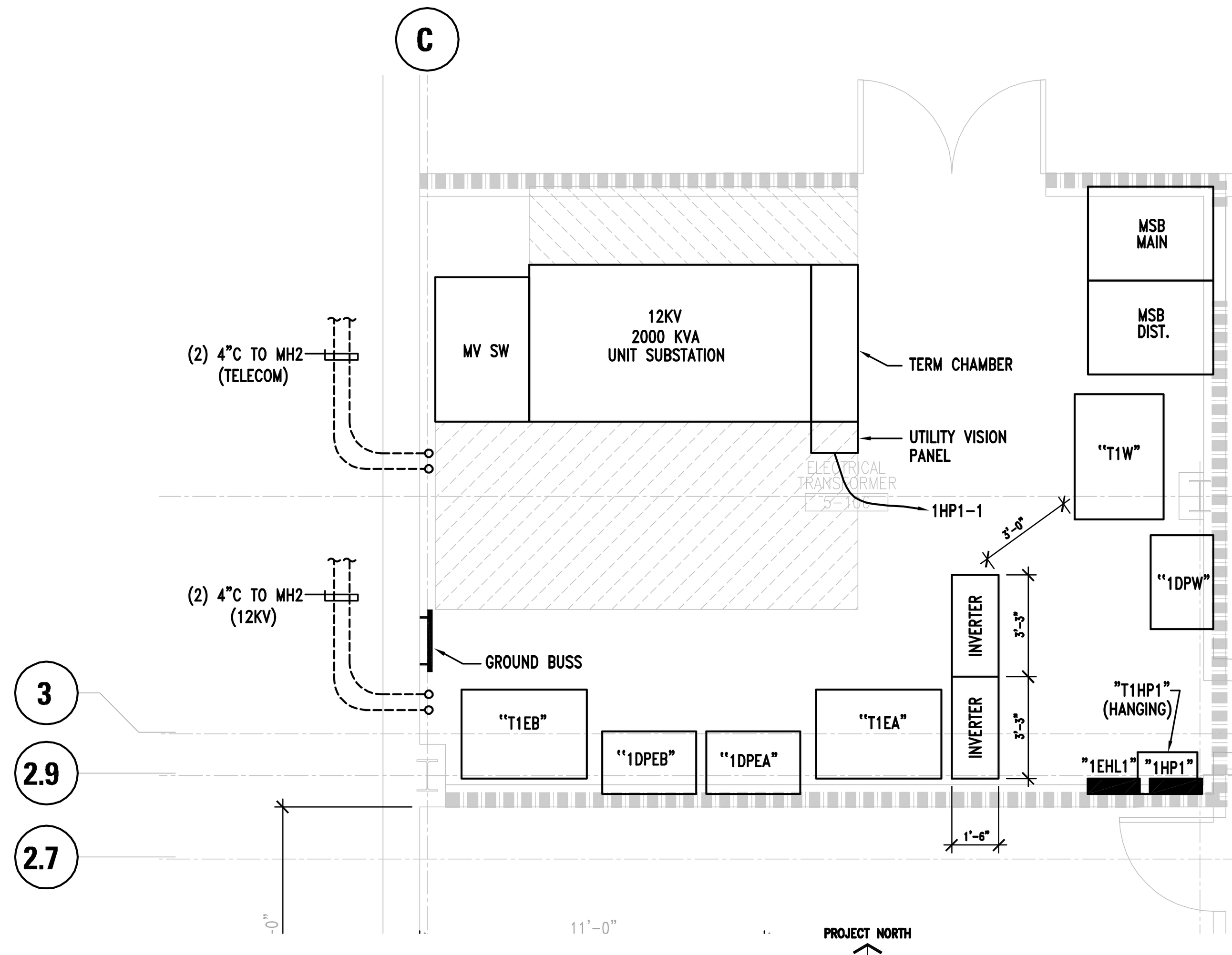
2D E7.01 **FRESHMAN LAB 5-280B (EAST)**

2 E7.01 **ENLARGED ELECTRICAL PLANS - LEVEL 2**

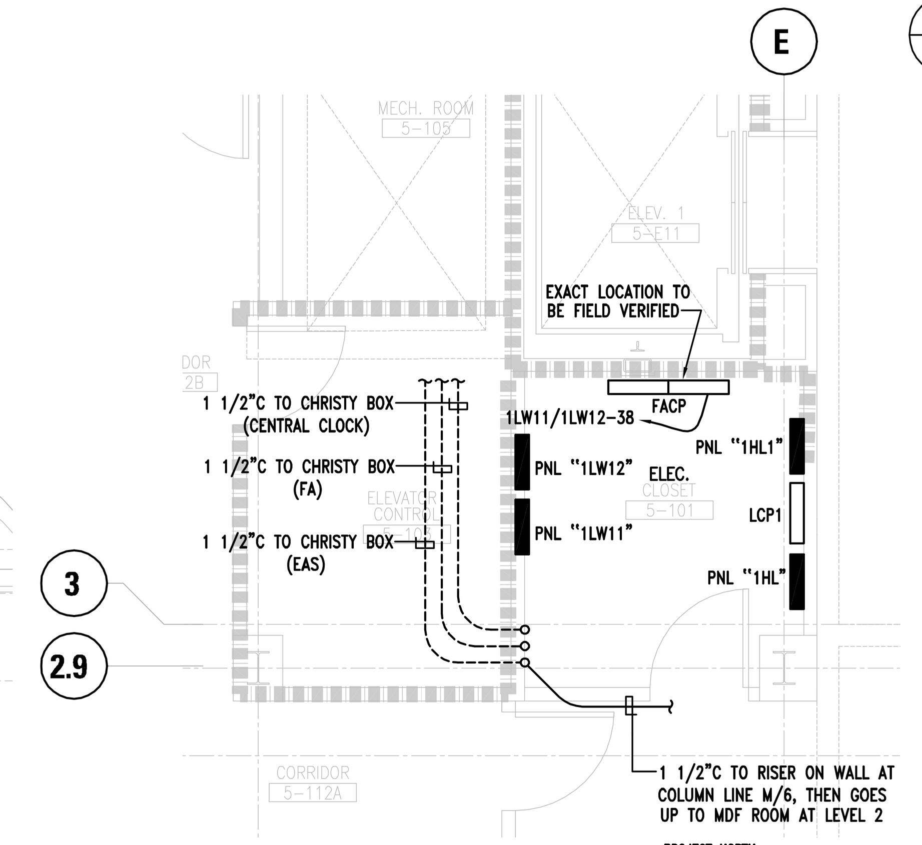
SCALE: 1/4"=1'-0"



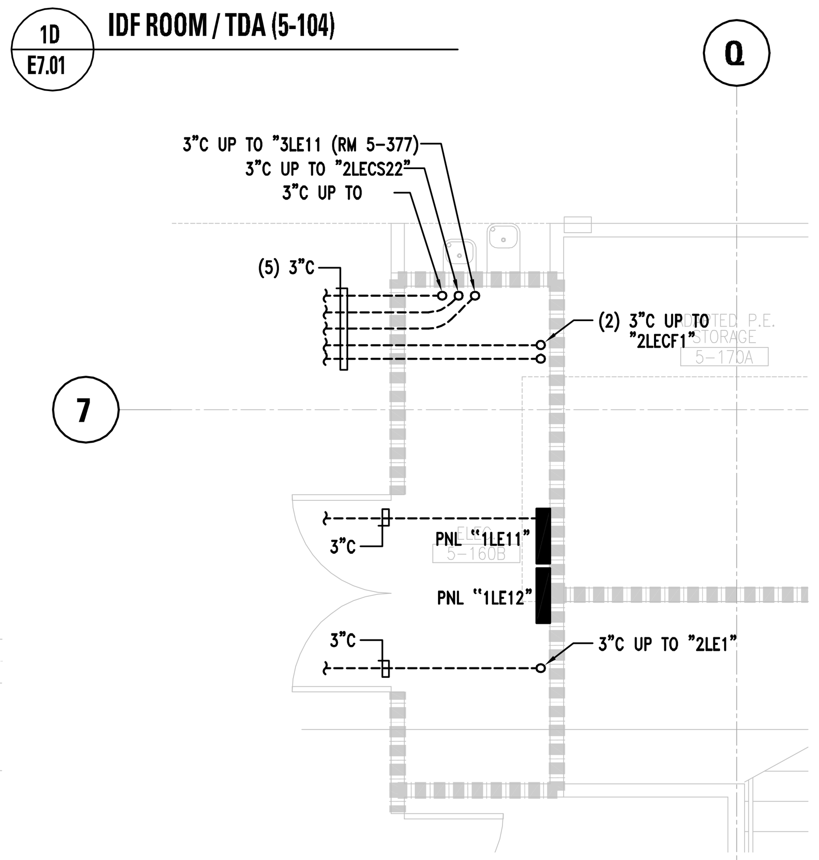
1D E7.01 **IDF ROOM / TDA (5-104)**



1A E7.01 **ELECTRICAL TRNASFORMER ROOM 5-106**



1B E7.01 **ELECTRICAL CLOSET 5-101**



1C E7.01 **ELECTRICAL ROOM 5-106B**

1 E7.01 **ENLARGED ELECTRICAL PLANS - LEVEL 1**

SCALE: 1/4"=1'-0"

Equipment Schedule
College of San Mateo – B5
Job 300085

Description	Voltage (V)	Amperage (A)	KVA	Location	Manufacturer
Panel LCP1	120/277	–	–	5–101	Wattstopper
Panel 1LW11	208/120	225	–	5–101	Eaton
Panel 1LW12	208/120	225	–	5–101	Eaton
Panel 1HL1	480/277	100	–	5–101	Eaton
E11 Disconnect	480	40	–	5–103	Eaton
E12 Disconnect	480	40	–	5–103	Eaton
Xfmr T1EA	480–208/120	–	500	5–106	Hammond
Panel 1DPEA	208/120	1400	–	5–106	Eaton
Panel T1EB	208/120	–	500	5–106	Hammond
Panel 1DPEB	208/120	1400	–	5–106	Eaton
Main Switchboard MSB1	480/277	2500	–	5–106	Eaton
12KV Transformer	12KV/480/277	160	2000	5–106	MGM
Xfmr T1W	408–208/120	–	500	5–106	Hammond
Panel 1DPW	208/120	1400	–	5–106	Eaton
Xfmr T1HP1	480–208/120	–	30	5–106	Hammond
Panel 1HP1	208/120	100	–	5–106	Eaton
Em. Lt. Inverter	480/277	–	30	5–106	OnLine Power
Panel 1EHL1	480/277	100	–	5–106	Eaton
Panel LCP2	120/277	–	–	5–210	Wattstopper
E13 Disconnect	480	20	–	5–142	Eaton
Panel 1LE11	208/120	400	–	5–160B	Eaton
Panel 1LE12	208/120	400	–	5–160B	Eaton
Panel 2HL1	480–277	100	–	5–210	Eaton
Panel 2LW11	208/120	400	–	5–210	Eaton
Panel 2LW12	208/120	400	–	5–210	Eaton
Panel 2LECS11	208/120	400	–	5–260P	Eaton
Panel 2LECS12	208/120	400	–	5–260P	Eaton
Panel 2LECS21	208/120	400	–	5–260P	Eaton
Panel 2LECS22	208/120	400	–	5–260P	Eaton
Panel 2LEM	208/120	100	–	5–265	Eaton
Panel 2LECF1	208/120	225	–	5–280B	Eaton
Panel 2LECF2	208/120	225	–	5–280B	Eaton
Panel 2LECF3	208/120	100	–	5–280B	Eaton
Panel 2LE1	208/120	400	–	5–281	Eaton
Panel LCP3	120/277	–	–	5–321	Wattstopper
Panel 3LW11	208/120	400	–	5–321	Eaton
Panel 3LW12	208/120	400	–	5–321	Eaton
Panel 3LW31	208/120	100	–	5–321	Eaton
Panel 3LW21	208/120	400	–	5–321	Eaton
Panel 3LW22	208/120	400	–	5–321	Eaton
Panel 3HL1	480/277	100	–	5–321	Eaton
Panel 3LEN	208/120	150	–	5–360B	Eaton
Panel 3LE11	208/120	400	–	5–377	Eaton
Panel 3LE12	208/120	400	–	5–377	Eaton
AHU–1 (Provided by others)	460	–	–	Roof	See M0–02
AHU–2 (Provided by others)	460	–	–	Roof	See M0–02

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 12/13/10

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College of San Mateo
Building 5N

Bulletin #4

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
7	IDF/MDF CHANGES	12/01/09
8	OCCUPANCY SENSORS REVISION PER WATTSTOPPER	01/12/10
9	AREA OF REFUGE REVISIONS	01/25/10
	DRAWING OF RECORD	02/18/10

Revision	Description	Date
	100% DD	03/12/08
	50% CD	04/17/08
	DSA Submittal	06/13/08
1	100% Coordination Documents	08/01/08
2	3 DSA Submittal	10/15/08
4	Coordination – Bulletin 4	06/24/09
5	Owner Changes	09/01/09
6	RFP–5–17	09/01/09
6	Spinning Rm. Lighting Rev. Per Owner's Change	11/17/09

Job. No.	REI-300085
Date	06.13.2008
Scale	AS SHOWN

Enlarged Electrical Plans

E7.01