LIGHTING

- RECESSED 2X4 LUMINAIRE
- RECESSED 2X4/2X2 LUMINAIRE, LED
- SUSPENDED LINEAR LUMINAIRE (LENGTH AS ON DRAWINGS)
- SURFACE LED LENSED STRIPLIGHT
- WALL MOUNTED LINEAR LUMINAIRE
- RECESSED DOWNLIGHT, CEILING MOUNTED
- SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)
- RECESSED PERIMETER LED COVE
- SURFACE (COVE) LED TAPELIGHT
- SHADING INDICATES EMERGENCY POWER CIRCUIT
- ILLUMINATED EXIT SIGN. SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
- GA — GA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. # = CIRCUIT NUMBER THAT SERVES THE LUMINAIRE.
- $W — WALL SWITCH: WIRELESS
- $WD — WALL SWITCH: WIRELESS DIMMING
- OS W — CORNER MOUNTED OCCUPANCY SENSOR, WIRELESS, PIR
- OS W — CEILING MOUNTED OCCUPANCY SENSOR, WIRELESS, PIR
- RC — MULTI-SCENE ROOM CONTROLLER
- ESN — ENERGI SAVR NODE FOR 0-10V AND SOFTSWITCH
- SM — SENSOR MODULE – WIRED AND WIRELESS INPUTS
- #. / UL / #. — UL924 – EMERGENCY LIGHT CONTROL RELAY. TOP # INDICATES NORMAL POWER CIRCUIT. BOTTOM # INDICATES EMERGENCY POWER CIRCUIT
- PP — POWER PACK MODULE WITH WIRELESS TECHNOLOGY
- PP D — DIMMING POWER PACK MODULE WITH WIRELESS TECHNOLOGY
- PM — POWER MODULE
- Z10 — LIGHTING CONTROL INTERFACE 0-10V DIMMING
- DMX — LIGHTING CONTROL INTERFACE DMX
- LD — LED DRIVER
- DD — DMX DECODER
- LCP1 — LIGHTING CONTROL PANEL 1

SYMBOLS

- XXXX 123 — EQUIPMENT DESIGNATOR SEE SCHEDULE.
- E — EXISTING TO REMAIN
- X — EXISTING TO BE REMOVED
- R — EXISTING TO BE RELOCATED
- N — NEW
- 1 — SHEET NOTE

POWER

- WALL RECEPTACLE: DUPLEX WITH USB PORTS
- WALL RECEPTACLE: SINGLE, DUPLEX, EMERGENCY, 4-PLEX
- WALL RECEPTACLE: EMERGENCY, 4-PLEX
- CEILING RECEPTACLE: DUPLEX
- DENOTES RECEPTACLE ABOVE COUNTER
- SPECIAL PURPOSE OUTLET AS NOTED, EMERGENCY
- CLOCK HANGER RECEPTACLE
- PEDESTAL OUTLET: POWER, COMBINATION, SIGNAL
- SURFACE OUTLET STRIP: DIMENSION AS SHOWN
- TELEPOWER POLE, POWER, COMBINATION
- JUNCTION BOX
- DISCONNECT SWITCH: FUSED, NON-FUSED
- MOTOR STARTER: MAGNETIC, COMBINATION
- MOTOR CONNECTION
- CONTACTOR, RELAY, SOLENOID
- PUSH BUTTON STATION
- GROUND BAR
- WIRING CONCEALED IN CEILING OR WALL
- WIRING CONCEALED IN FLOOR OR UNDERGROUND
- HOME RUN DESTINATION SHOWN
- CONDUIT ELL: UP, DN.
- FLUSH IN-FLOOR POKE THROUGH DEVICE: COMBINATION POWER/SIGNAL OR A/V (N= # OF DATA PORTS, DEFAULT 2)

EQUIPMENT

- ELECTRICAL EQUIPMENT
- PANELBOARD: SURFACE, RECESSED
- CABINET: SURFACE, RECESSED
- TRANSFORMER
- EQUIPMENT WITH GROUND
- CURRENT TRANSFORMER
- CABLE TRAY
- EMERGENCY GENERATOR

SIGNAL

- WALL OUTLET: TELEPHONE, DATA
- WALL OUTLET: MOUNT AT 54" AFF.
- WALL OUTLET: COMBINATION TELEPHONE/DATA N=NUMBER OF CAT6 CABLES, DEFAULT 4
- DENOTES OUTLET ABOVE COUNTER
- CCTV CAMERA
- SYSTEM CLOCK: WALL, CEILING
- WALL OUTLET: TELEVISION
- SPEAKER: WALL, CEILING
- VOLUME CONTROL: WALL, CEILING

ONE LINE

- CIRCUIT BREAKER
- SWITCH, FUSED SWITCH
- BUSS
- AUTOMATIC SWITCH
- METER
- PANEL
- FEEDER CALLOUT

GENERAL NOTES

1. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS APPEAR ON THIS SHEET AND NOT ON PROJECT DRAWING.
2. INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND LIGHT FIXTURES SHALL MEET STATE AND LOCAL CODES AND STRUCTURAL SEISMIC RATING AND BRACING PER IBC.
3. ALL CONTROL WIRING AND DEVICES SUCH AS OVERLOAD DEVICES, PUSH-BUTTON STATIONS, RELAYS, THERMOSTATS AND CONTROL DEVICES TO BE PROVIDED AND INSTALLED UNDER MECHANICAL CONTROLS. POWER WIRING WILL BE PER ELECTRICAL, AS SHOWN ON DRAWINGS AND WRITTEN SPECIFICATIONS. REFER TO MECHANICAL DRAWINGS AND DATA SHEETS PRIOR TO BID AND INSTALLATION.
4. ALL PENETRATIONS OF WALLS AND CONCRETE SLABS SHALL BE COORDINATED WITH ARCHITECT. SEAL ALL OPENINGS WITH FIRE STOP AS REQUIRED.
5. PROVIDE EQUIPMENT GROUNDING CONDUCTOR (GREEN WIRE) IN ALL RACEWAYS. EQUIPMENT GROUNDING CONDUCTOR IS TO BE BONDED TO ALL RACEWAY BOXES AND ENCLOSURES ENCLOSING THE CIRCUIT CONDUCTORS.

FIRE ALARM

- FSD — FIRE SMOKE DAMPER
- FS / TS — SPRINKLER SYSTEM SWITCH: FLOW, TAMPER
- P — MANUAL FIRE ALARM STATION
- S X — SMOKE DETECTOR. P=PHOTOELECTRIC, I=IONIZATION, AB=PHOTOELECTRIC WITH AUDIBLE BASE, R=RELAY BASE, 2 AMP SPDT
- S X — PHOTOELECTRIC DUCT DETECTOR. P=PHOTOELECTRIC, I=IONIZATION, PR=PHOTOELECTRIC WITH RELAY, 2 AMP SPDT, IR=IONIZATION WITH RELAY, 2 AMP SPDT
- X — THERMAL DETECTOR. RC=135°F RATE COMPENSATED, ROR=135°F FIXED/RATE OF RISE, ROR2=190°F FIXED/RATE OF RISE, F135=135°F FIXED, F190=190°F FIXED
- CM — RELAY/CONTROL MODULE
- M — MONITOR MODULE, SINGLE INPUT
- DM — MONITOR MODULE, DUAL INPUT
- SM — SYNCH MODULE
- # — AUDIBLE/VISUAL, # INDICATES CANDELA
- AUDIBLE, BELL
- # — VISUAL, # INDICATES CANDELA
- FACP — FIRE ALARM CONTROL PANEL
- FSA — FIRE ALARM SIGNAL ANNUCIATOR
- SS — SURGE SUPPRESSOR
- NAC — NAC POWER SUPPLY
- DACT — DIGITAL ALARM COMMUNICATOR
- BD — BEAM DETECTOR
- M — MAGNETIC DOOR HOLD OPEN

NURSE CALL

- N E — NURSE CALL TOILET/DRESSING STATION: CORD
- N D — NURSE CALL DOME LIGHT, WHITE, RED
- N M — NURSE CALL MASTER
- N A — NURSE CALL BEDSIDE
- N ND — NURSE CALL STATION: NURSE DUTY
- N NE — NURSE CALL STATION: NURSE EMERGENCY
- N ZD — NURSE CALL ZONE DOME LIGHT, WHITE
- N C — NURSE CALL ZONE DOMELESS CONTROLLER

SECURITY

- SACP — SECURITY CONTROL ALARM PANEL
- CR — CARD READER
- L — ELECTRONIC DOOR LATCH
- D — MAGNETIC DOOR CONTACT
- A — LOCAL AUDIBLE SECURITY ALARM
- REX — REQUEST TO EXIT
- MH — MAGNETIC DOOR HOLD
- MD — MOTION DETECTOR

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
A	AMPERE (AMP)	LV	LOW VOLTAGE
ALT	ALTERNATE	MATV	MASTER ANTENNA TELEVISION
ARCH	ARCHITECT / ARCHITECTURAL	MCA	MINIMUM CIRCUIT AMPS
ATS	AUTOMATIC TRANSFER SWITCH	MCB	MAIN CIRCUIT BREAKER
CB	CIRCUIT BREAKER	MCC	MOTOR CONTROL CENTER
C	CONDUIT	MDP	MAIN DISTRIBUTION PANEL
CCTV	CLOSED CIRCUIT TELEVISION	MECH	MECHANICAL
CKT	CIRCUIT	MLO	MAIN LUGS ONLY
CLG	CEILING	MTS	MANUAL TRANSFER SWITCH
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
DN	DOWN	NL	NIGHT LIGHT CIRCUIT
EMERG	EMERGENCY	PA	PUBLIC ADDRESS
EMT	ELECTRIC METALLIC TUBING	PE	PHOTO ELECTRIC CELL
EP	EXPLOSION PROOF	PF	POWER FACTOR
EPO	EMERGENCY POWER OFF	PNL	PANELBOARD
EWC	ELECTRIC WATER COOLER	PVC	POLYVINYL CHLORIDE CONDUIT
FA	FIRE ALARM	PWR	POWER
FACP	FIRE ALARM CONTROL PANEL	SACP	SECURITY ALARM CONTROL PANEL
FLA	FULL LOAD AMPS	SDP	SUB-DISTRIBUTION PANEL
FLUOR	FLUORESCENT	STR	STARTER
GFI	GROUND FAULT INTERRUPTER	SV	SOLENOID VALVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SW	SWITCH
GRC	GALVANIZED RIGID CONDUIT	TP	TAMPERPROOF
GRD	GROUND	TTB	TELEPHONE TERMINAL BOARD
HP	HORSEPOWER	TTC	TELEPHONE TERMINAL CABINET
HPS	HIGH PRESSURE SODIUM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
HV	HIGH VOLTAGE	TYP	TYPICAL
HZ	HERTZ	UG	UNDERGROUND
IG	ISOLATED GROUND	UPS	UNINTERRUPTABLE POWER SUPPLY
KW	KILOWATT	V	VOLTAGE
KWH	KILOWATT HOUR	VA	VOLT AMPERES
KV	KILOVOLT	VP	VAPOR PROOF
KVA	KILOVOLT AMP	W	WATTS
KVAR	KILOVOLT AMPS REACTIVE	WP	WEATHER PROOF
LA	LIGHTNING ARRESTOR	XFMR	TRANSFORMER
		XFSW	TRANSFER SWITCH

REGISTERED PROFESSIONAL ENGINEER 18602PE OREGON JULY 10, 1998 FLAVIANO V. REYES JR.
Expires: Dec. 31, 2014

PASSION CREATIVITY SUSTAINABILITY

REYES ENGINEERING
KITHEM T. MAI, ELECTRICAL DESIGNER, kmai@reyeseng.com
10555 SE 82nd Avenue, Suite 203, Happy Valley, OR 97086, Tel: (503) 771-1986

PSU STUDENT HEALTH & COUNSELING CENTER

1880 SW 6th AVENUE, PORTLAND, OREGON 97201
OWNER: PORTLAND STATE UNIVERSITY - FACILITIES AND PLANNING (FAP)
202 UNIVERSITY SERVICES BLDG - 617 SW MONTGOMERY
PORTLAND, OREGON 97201
CONTACT: KAY BYRNE 503-725-9837

MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST. SUITE 403 | PORTLAND, OR 97209 | p. 503-222-3753 | www.MerrymanBarnesArchitects.com

PROJECT NO. 12-1121 | ISSUE DATE 08.02.2013
REVISIONS

SHEET
LEGEND AND ABBREVIATIONS ELECTRICAL

E0.1

PERMIT SET

LUMINAIRE SCHEDULE

ID	TYPE	VOLTS	DESCRIPTION	MANUFACTURER	SERIES/MODEL	EFFICIENCY/EFFICACY	FINISH	MOUNTING	LAMP(S)	DRIVER/BALLAST	VA
DA	LED	MVOLT	6" DIAMETER OPEN DOWNLIGHT WITH SELF-FLANGED SEMI-SPECULAR LOWER REFLECTOR. LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	GOTHAM OR APPROVED EQUAL	EVO	MIN 60L/W	SEMI-SPECULAR REFLECTOR	CEILING RECESSED	LED - MIN 1000 DELIVERED LUMENS, 3500k, MIN 80 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, 0-10V DIMMING LED DRIVER	18
DB	LED	120	6" DIAMETER OPEN TRIM DOWNLIGHT WITH CLEAR ALZAK CONE AND MEDIUM FLOOD OPTIC. LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	JUNO OR APPROVED EQUAL	WARMDIM	MIN 47L/W	SEMI-SPECULAR REFLECTOR	CEILING RECESSED	LED - MIN 600 DELIVERED LUMENS, 3000k DIM TO 2000k, MIN 83 CRI, MIN 50,000 HOUR LIFE.	ELECTRONIC LOW VOLTAGE REVERSE PHASE DIMMING LED DRIVER	14
DC	LED	120-277	SINGLE SURFACE MOUNT LUMINAIRE WITH 1-1/2" DIAMETER X 9" LONG MACHINED SOLID ACRYLIC CYLINDER DIFFUSER. LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	WINONA OR APPROVED EQUAL	POPS07	N/A	BRUSHED ALUMINUM CANOPY	CEILING SURFACE	WARM WHITE HIGH OUTPUT LED 3000k MIN 50,000 HOUR LIFE.	INTEGRAL, SOLID STATE, THERMALLY PROTECTED, LED DRIVER	4
DD	LED	MVOLT	6" DIAMETER OPEN DOWNLIGHT WITH SELF-FLANGED SEMI-SPECULAR LOWER REFLECTOR. LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	GOTHAM OR APPROVED EQUAL	EVO	MIN 60L/W	SEMI-SPECULAR REFLECTOR	CEILING RECESSED	LED - MIN 1800 DELIVERED LUMENS, 3500k, MIN 80 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, LED DRIVER	28
GA	LED	MVOLT	2'X4' RECESSED LUMINAIRE WITH FROSTED ACRYLIC PROFILE LENSES. COLD ROLLED STEEL HOUSING WITH HIGHLY REFLECTIVE PAINTED INTERIOR REFLECTORS. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	METALUX OR APPROVED EQUAL	ENCOUNTER	MIN 100L/W	MATTE WHITE	CEILING RECESSED	LED - MIN 5400 DELIVERED LUMENS, 3500k, MIN 85 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, LED DIMMING DRIVER	54
GB	LED	MVOLT	2'X2' RECESSED LUMINAIRE WITH FROSTED ACRYLIC PROFILE LENSES. COLD ROLLED STEEL HOUSING WITH HIGHLY REFLECTIVE PAINTED INTERIOR REFLECTORS. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	METALUX OR APPROVED EQUAL	ENCOUNTER	MIN 90L/W	MATTE WHITE	CEILING RECESSED	LED - MIN 3400 DELIVERED LUMENS, 3500k, MIN 85 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, LED DIMMING DRIVER	34
GC	FLUOR	MVOLT	2'X4' RECESSED LUMINAIRE WITH .125 THICK #12 PATTERN ACRYLIC LENS - 100% UV STABILIZED. COLD ROLLED STEEL HOUSING WITH HIGHLY REFLECTIVE PAINTED INTERIOR REFLECTORS.	LITHONIA OR APPROVED EQUAL	SP	MIN 80%	WHITE	CEILING RECESSED	(3) 32 WATT T8 LAMPS 3500k, MIN 85 CRI, TCLP COMPLIANT. MIN 30,000 HOUR LIFE,	ELECTRONIC DUAL LEVEL SWITCHING <10% THD	93
GD	FLUOR	120	12" X 48" RECESSED DIRECT/INDIRECT LUMINAIRE WITH METAL DIFFUSER WITH ROUND HOLES.	LITHONIA	AV-MDR	NA	WHITE	CEILING RECESSED	54 WATT T5HO LAMPS 3500k, MIN 85 CRI, TCLP COMPLIANT. MIN 30,000 HOUR LIFE,	ELECTRONIC <10% THD	58
GF	FLUOR	120	24" X 48" RECESSED LENSED SKYCEILING LUMINAIRE. LENS TO MATCH EXISTING LUMINAIRES IN DENTAL SUITE.	THE SKY FACTORY	LUMINOUS SKYCEILING	NA	WHITE	CEILING RECESSED	(2) 54 WATT T5HO LAMPS 3500k, MIN 85 CRI, TCLP COMPLIANT. MIN 30,000 HOUR LIFE,	ELECTRONIC <10% THD	116
GG	FLUOR	120	12" X 48" X 6" DEEP MAXIMUM, RECESSED DIRECT/INDIRECT LUMINAIRE WITH PERFORATED METAL BASKET AND OPAL WHITE ACRYLIC LENS.	LITHONIA	AV-MDR	NA	WHITE	CEILING RECESSED	28 WATT T5 LAMPS 3500k, MIN 85 CRI, TCLP COMPLIANT. MIN 30,000 HOUR LIFE,	ELECTRONIC <10% THD	31
HA	LED	MVOLT	46" LONG STRIP LUMINAIRE WITH LENS. COLD ROLLED STEEL HOUSING.	LITHONIA OR APPROVED EQUAL	ZL2	N/A	WHITE	CEILING SURFACE OR PENDANT MOUNT	LED - MIN 2300 DELIVERED LUMENS, 3500k, MIN 83 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, LED DRIVER	58
HB	FLUOR	MVOLT	46" LONG STRIP LUMINAIRE. COLD ROLLED STEEL HOUSING.	LITHONIA OR APPROVED EQUAL	Z	N/A	WHITE	CEILING SURFACE OR PENDANT MOUNT	(2) 54 WATT T5HO LAMPS 3500k, MIN 85 CRI, TCLP COMPLIANT. MIN 30,000 HOUR LIFE,	ELECTRONIC <10% THD	120
MA	LED	120	4' LONG INDIRECT/DIRECT WALL MOUNTED LINEAR LUMINAIRE. 57% UP/43% DOWN DISTRIBUTION. STEEL CHANNEL HOUSING. MESO OPTICS FILM, NON-GLARE ACRYLIC LENS. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	LEDALITE OR APPROVED EQUAL	BOLDPLAY	MIN 75L/W	WHITE	SURFACE WALL - 8' FROM BOTTOM OF LUMINAIRE TO FINISHED FLOOR	LED - MIN 3400 DELIVERED LUMENS 3500k, MIN 83 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	42
MB	LED	120	8' LONG INDIRECT/DIRECT WALL MOUNTED LINEAR LUMINAIRE. 57% UP/43% DOWN DISTRIBUTION. STEEL CHANNEL HOUSING. MESO OPTICS FILM, NON-GLARE ACRYLIC LENS. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	LEDALITE OR APPROVED EQUAL	BOLDPLAY	MIN 75L/W	WHITE	SURFACE WALL - 8' FROM BOTTOM OF LUMINAIRE TO FINISHED FLOOR	LED - MIN 3400 DELIVERED LUMENS PER 4' 3500k, MIN 83 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	84
NA	LED	120	FLEXIBLE, DIRECT DISTRIBUTION VARIABLE WHITE RIBBON LUMINAIRE. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	ACOLYTE OR APPROVED EQUAL	RBNL-VWA	N/A	N/A	MOUNT IN ARCHITECTURAL COVE	LED - 220-500 LUMENS/FOOT 1800k - 6500k MIN 50,000 HOUR LIFE.	ELECTRONIC, DMX, LED DRIVER	6W/F
NB	LED	120	3" NOMINAL X 25' LONG RECESSED, LOW WATTAGE LED SLOT SYSTEM. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	FOCAL POINT OR APPROVED EQUAL	TRACE	N/A	WHITE	WALL PERIMETER RECESSED	LED 300 LUMENS/FOOT 3500k, MIN 80 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	6W/FT
NC	LED	120	.31" WIDE X .081" HIGH, FLEXIBLE, DIRECT DISTRIBUTION RIBBON LUMINAIRE. LM-79/LM-80 COMPLIANT, MINIMUM 5 YEAR WARRANTY.	ACOLYTE OR APPROVED EQUAL	RBNL 3.0	N/A	N/A	MOUNT TO BACK SIDE OF VERTICAL WOOD SLATS WITH DOUBLE SIDED ADHESIVE AND MOUNTING CLIPS.	LED - 293 LUMENS/FOOT 3000k MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	3W/F
PA	LED	120	36" DIAMETER, ROUND PENDANT LUMINAIRE WITH EXTRUDED ALUMINUM INNER HOUSING AND WHITE FROSTED ACRYLIC OUTER DIFFUSER. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	DELRAY OR APPROVED EQUAL	CYLINDRO III	N/A	WHITE	CEILING PENDANT - 7'-6" FROM BOTTOM OF LUMINAIRE TO FINISHED FLOOR	LED - 13400 LUMENS WARM WHITE MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	170
RA	FLUOR	120	RELOCATE EXISTING 6" APERTURE PENDANT MOUNTED UP/DOWN CYLINDER. CLEAN AND RELAMP LUMINAIRE AND REPLACE BALLAST AS NEEDED. REPLACE ANY BROKEN OR DAMAGED COMPONENTS.	EXISTING	EXISTING	N/A	EXISTING	REMOUNT AT NEW LOCATION. MAINTAIN EXISTING MOUNTING HEIGHT.	EXISTING	EXISTING	70
RB	FLUOR	120	RELOCATE EXISTING 8' DIRECT/INDIRECT LINEAR WALL MOUNTED LUMINAIRE. CLEAN AND RELAMP LUMINAIRE AND REPLACE BALLAST AS NEEDED. REPLACE ANY BROKEN OR DAMAGED COMPONENTS.	EXISTING	EXISTING	N/A	EXISTING	REMOUNT AT NEW LOCATION. MOUNT AT 7'-6" FROM BOTTOM OF LUMINAIRE TO FINISH FLOOR.	EXISTING	EXISTING	116
RC	FLUOR	120	RELOCATE EXISTING 12' DIRECT/INDIRECT LINEAR PENDANT. CLEAN AND RELAMP LUMINAIRE AND REPLACE BALLAST AS NEEDED. REPLACE ANY BROKEN OR DAMAGED COMPONENTS.	EXISTING	EXISTING	N/A	EXISTING	REMOUNT AT NEW LOCATION. MOUNT AT 9'-6" FROM BOTTOM OF LUMINAIRE TO FINISH FLOOR.	EXISTING	EXISTING	174
SA	FLUOR	120	12" X 11" X 3" DEEP DECORATIVE WALL SCONCE. CURVED GLASS DIFFUSER WITH PATTERN TO MATCH EXISTING WALL SCONCE LUMINAIRES IN DENTAL SUITE.	LIGHTOLIER	MATCH EXISTING	N/A	MATCH EXISTING	SURFACE WALL - MATCH MOUNTING HEIGHT OF EXISTING SCONCES	(2) 13W COMPACT FLUORESCENT MATCH CCT OF EXISTING SCONCE LAMPS	ELECTRONIC <10% THD	29
VA	LED	120	35" LONG X 2.25" DIAMETER SURFACE MOUNTED VANITY LUMINAIRE. DIFFUSED EXTRUDED ACRYLIC LENS WITH MACHINED STEEL ENDCAPS. LM-79/LM-80 COMPLIANT. MINIMUM 5 YEAR WARRANTY.	EUREKA OR APPROVED EQUAL	MOONRISE PLUS	N/A	SATIN CHROME	WALL SURFACE. MOUNT AT 7'-0" ABOVE FINISHED FLOOR.	LED - MIN 780 DELIVERED LUMENS 3000k, MIN 80 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	14
WA	LED	MVOLT	6" DIAMETER OPEN WALLWASH DOWNLIGHT WITH SELF-FLANGED SEMI-SPECULAR LOWER REFLECTOR. LIGHT ENGINE AND DRIVER ACCESSIBLE FROM BELOW CEILING. LM-79/LM-80. MINIMUM 5 YEAR WARRANTY.	GOTHAM OR APPROVED EQUAL	EVO	MIN 59L/W	SEMI-SPECULAR REFLECTOR	CEILING RECESSED	LED - MIN 1000 DELIVERED LUMENS, 3500k, MIN 80 CRI, MIN 50,000 HOUR LIFE.	SOLID STATE, THERMALLY PROTECTED, DIMMING LED DRIVER	18
XA	LED	120	SINGLE/DOUBLE FACED POLYCARBONATE EXIT SIGN WITH REMOVABLE CHEVRONS. CONNECTED TO GENERATOR POWER VIA UL924 DEVICE IN THE EVENT OF LOSS OF NORMAL POWER.	LITHONIA OR APPROVED EQUAL	LQM	N/A		CEILING, WALL, OR PENDANT	LED RED	SOLID STATE, THERMALLY PROTECTED, LED DRIVER	1

GENERAL NOTES

1. THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE ELECTRICAL SPECIFICATIONS.
2. VERIFY LUMINAIRE VOLTAGE WITH BRANCH CIRCUIT SUPPLYING POWER TO LUMINAIRE PRIOR TO ORDERING.
3. ALL LUMINAIRES TO BE REDUCTION OF HAZARDOUS SUBSTANCES (RoHS) COMPLIANT AND UL LISTED.
4. ALL COMPACT FLUORESCENT AND STANDARD LENGTH LINEAR FLUORESCENT LAMPS TO COMPLY WITH FEDERAL TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP).
5. SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE.
6. CONTRACTOR IS RESPONSIBLE TO VERIFY CEILING TYPE AND THICKNESS AND PROVIDE REQUIRED MOUNTING HARDWARE FOR ALL FIXTURE TYPES.
7. CONTRACTOR IS RESPONSIBLE TO VERIFY SINGLE OR DOUBLE FACE AND MOUNTING OF EXIT SIGNS WITH LIGHTING PLANS AND ARCHITECTURAL CEILING PLANS AND PROVIDE WALL MOUNTING BRACKETS, CEILING MOUNTING BRACKETS, AND/OR PENDANTS AS REQUIRED.
8. CONTRACTOR IS RESPONSIBLE TO VERIFY BALLAST/DRIVER AND CONTROL COMPATIBILITY PRIOR TO ORDERING.

REGISTERED PROFESSIONAL ENGINEER 18602PE OREGON JULY 10, 1998 FLAVIANO V. REYES JR.

Expires: Dec. 31, 2014

REYES ENGINEERING
KOHEM T. MAI, ELECTRICAL DESIGNER, kmai@reyeseng.com
PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

PSU STUDENT HEALTH & COUNSELING CENTER

1880 SW 6th AVENUE, PORTLAND, OREGON 97201
OWNER: PORTLAND STATE UNIVERSITY - FACILITIES AND PLANNING (FAP)
202 UNIVERSITY SERVICES BLDG - 617 SW MONTGOMERY
PORTLAND, OREGON 97201
CONTACT: KAY BYRNE 503-725-9837

MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST, SUITE 403 | PORTLAND, OR 97209 | p: 503-222-3753 | f: 503-295-0718 | www.MerrymanBarnesArchitects.com

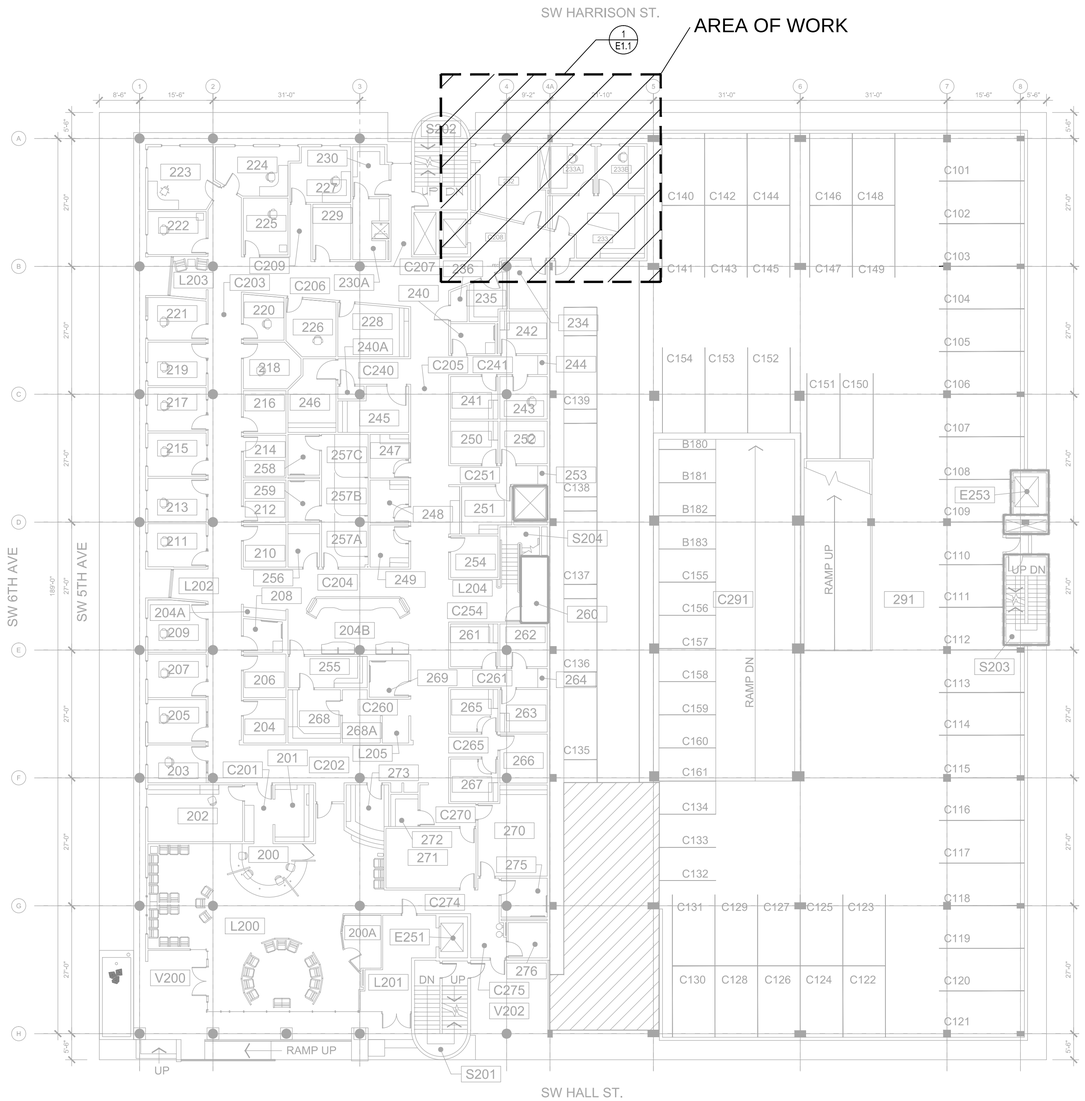
PROJECT NO. 12-1121
ISSUE DATE 08.02.2013
REVISIONS

SHEET

LUMINAIRE SCHEDULE

E0.2

PERMIT SET

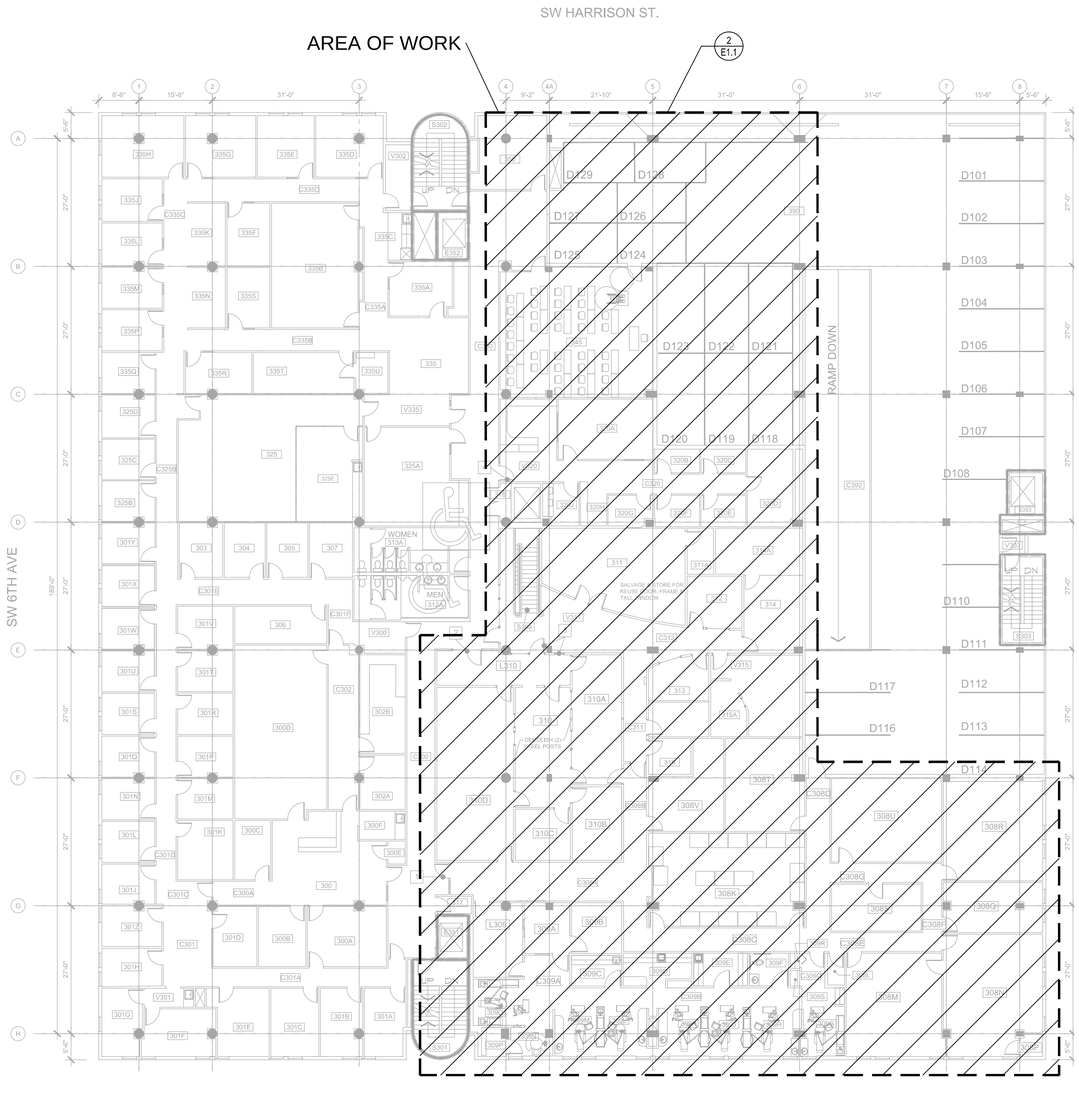


1 - SECOND FLOOR DEMOLITION PLAN

1/16" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

N



2 - THIRD FLOOR DEMOLITION PLAN

1/16" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

N

REGISTERED PROFESSIONAL ENGINEER
18602PE
OREGON
JULY 10, 1998
FLAVIANO V. REYES JR.

Expires: Dec. 31, 2014

REYES ENGINEERING
PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com

PSU STUDENT HEALTH & COUNSELING CENTER

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OWNER: PORTLAND STATE UNIVERSITY - FACILITIES AND PLANNING (FAP)
202 UNIVERSITY SERVICES BLDG - 617 SW MONTGOMERY
PORTLAND, OREGON 97201
CONTACT: KAY BYRNE 503-725-9837

MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST. SUITE 403 | PORTLAND, OR 97209 | p: 503-222-3753 | f: 503-295-0718 | www.MerrymanBarnesArchitects.com

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REVISIONS

SHEET

DEMOLITION PLAN
ELECTRICAL

E1.0

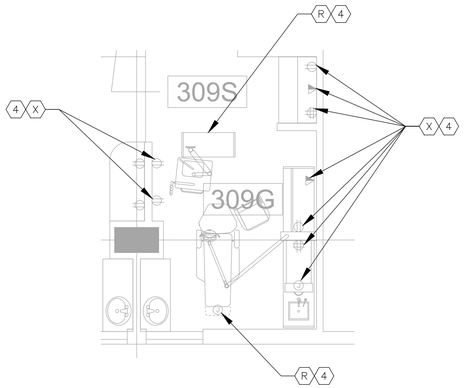
PERMIT SET

GENERAL NOTES

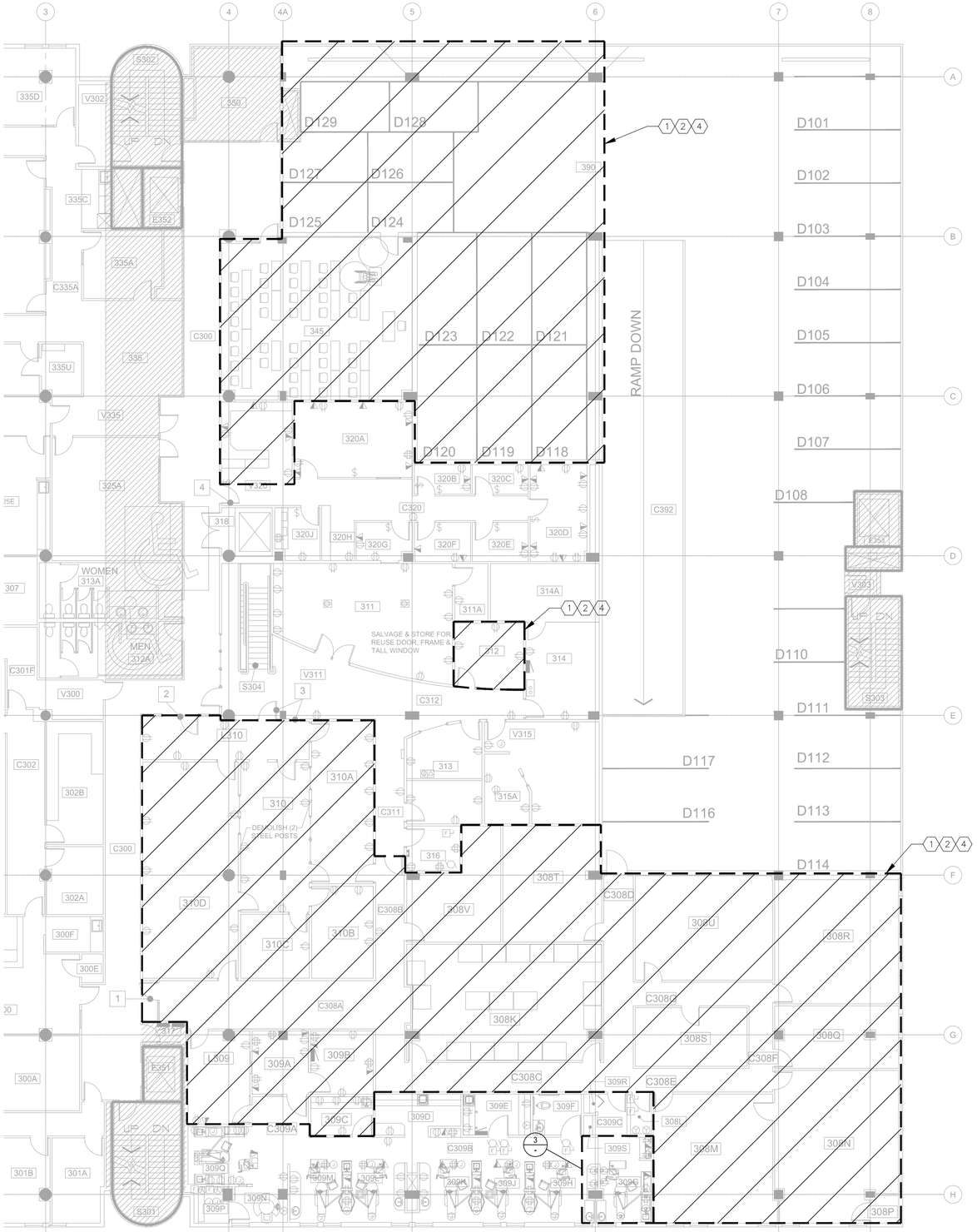
1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. VERIFY MECHANICAL EQUIPMENT DEMOLITION SCOPE WITH MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
3. CONTRACTOR TO VERIFY EXISTING CONDITION PRIOR TO BID.
4. ALL SPECIAL EQUIPMENT SUCH AS PROJECTOR, PROJECTOR SCREEN, ADA BUTTON, POWER DOOR, ETC. TO BE REMOVED AND STORED UNLESS OTHERWISE NOTED.

SHEET NOTES

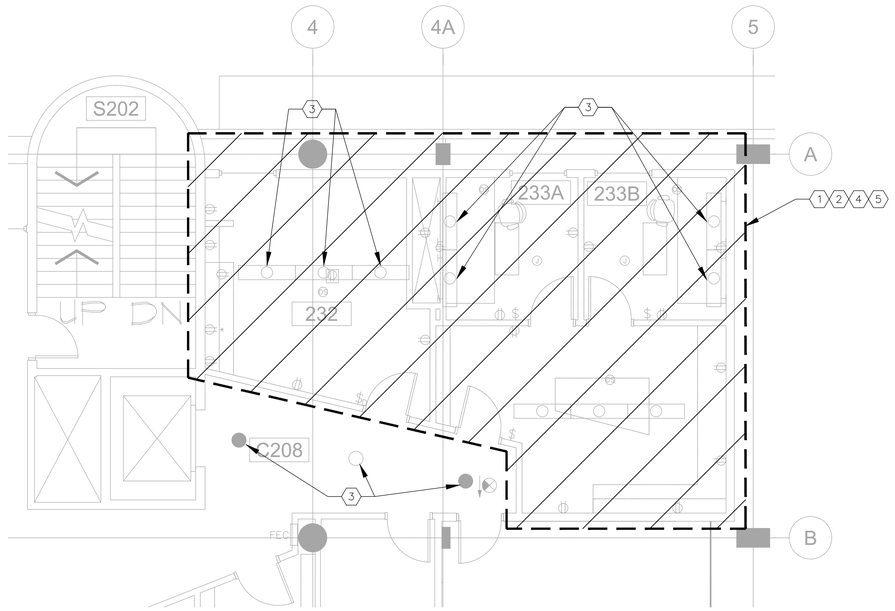
1. ELECTRICAL DEMOLITION SCOPE OF WORK: UNLESS OTHERWISE NOTED, REMOVE LIGHTS, RECEPTACLES, DATA OUTLETS AS NOTED IN SPECIFICATION SECTION 16050. DEMOLISH AND SALAVAGE.
2. EXISTING SMOKE DETECTORS, HEAT DETECTORS, STROBES, HORN STROBES AND PULL STATIONS TO BE REMOVED UNLESS OTHERWISE NOTED.
3. EXISTING LUMINAIRES TO BE CAREFULLY REMOVED, CLEANED AND RELAMPED, ANY BROKEN PIECES REPLACED, AND SET ASIDE TO BE REUSED. SEE LUMINAIRE SCHEDULE FOR NEW DESIGNATION AND SHEET E2.2 FOR NEW LUMINAIRE LOCATIONS.
4. INTERCEPT AND EXTEND EXISTING CIRCUITS ROUTING BEYOND PROJECT BOUNDARIES AS REQUIRED TO MAINTAIN OPERATIONAL STATUS BEYOND PROJECT BOUNDARIES.
5. FIELD CONFIRM ALL PROJECT EXISTING CIRCUITRY POINT OF ORIGIN AND TERMINATION PRIOR TO DEMOLITION. CONFIRMATION OF ACTUAL CIRCUIT DEMOLITION EFFECTS ARE TO BE MADE PRIOR TO DEMOLITION.



3 - DEMOLITION PLAN
3/16" = 1'-0" (NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)



2 - THIRD FLOOR ENLARGED DEMOLITION PLAN
3/32" = 1'-0" (NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)



1 - SECOND FLOOR ENLARGED DEMOLITION PLAN
3/16" = 1'-0" (NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

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18602PE
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PORTLAND, OREGON 97201
CONTACT: KAY BYRNE 503-725-9837

PASSION CREATIVITY
SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986
REYES ENGINEERING
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com
MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST. SUITE 403 | PORTLAND, OR 97209 | p. 503-222-3753 | f. 503-295-0718 | www.MerrymanBarnesArchitects.com

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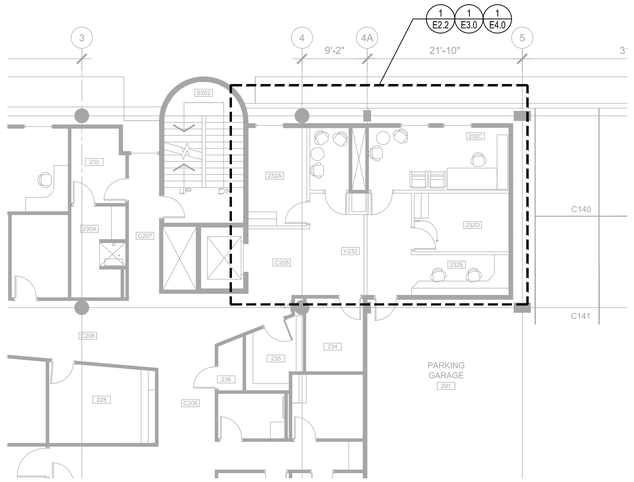
SHEET
ENLARGED DEMOLITION PLAN ELECTRICAL

E1.1

PERMIT SET

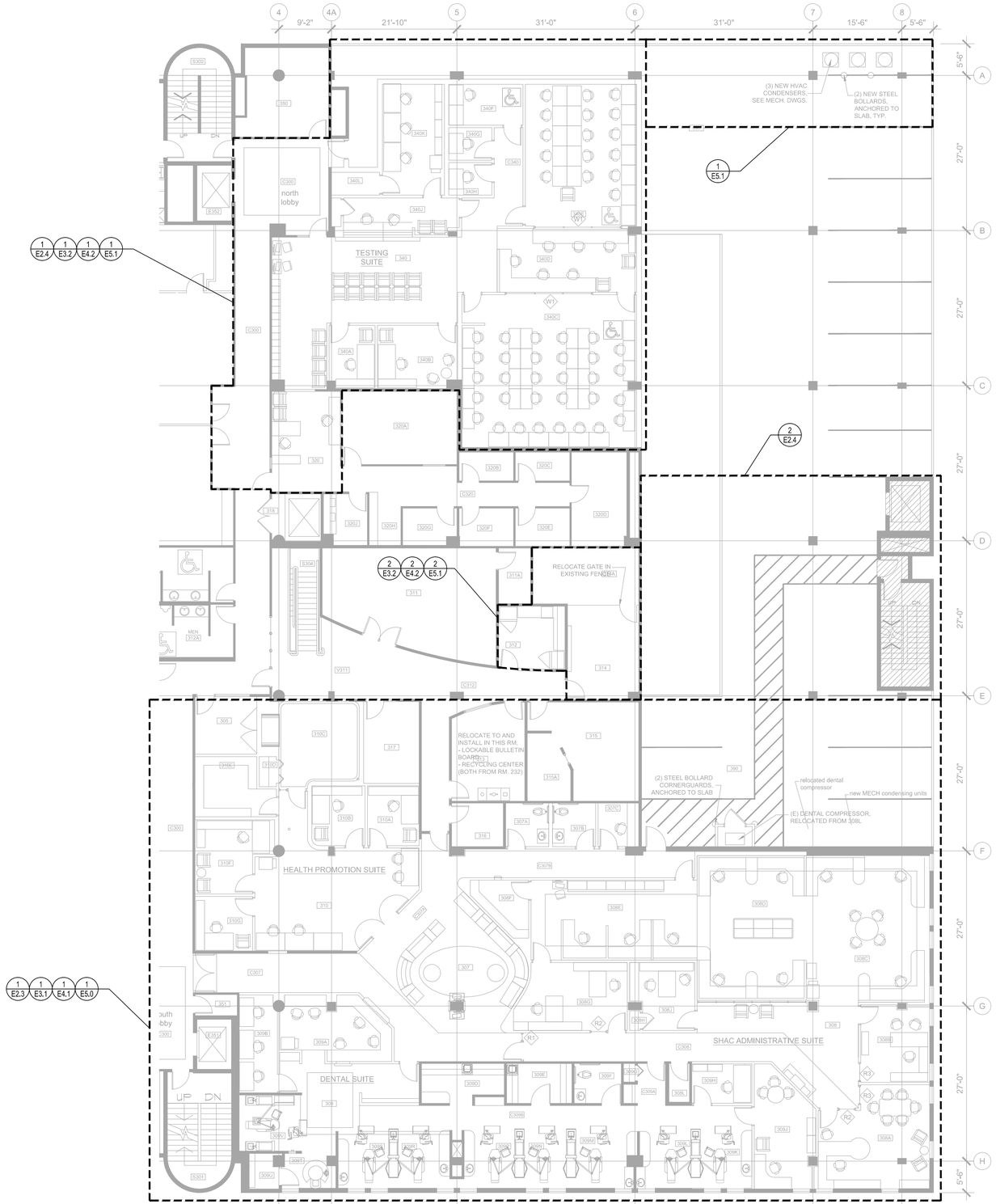


2 / - PROPOSED SECOND FLOOR PLAN

3/32" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

N



1 / - PROPOSED THIRD FLOOR PLAN

3/32" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

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SHEET

PROPOSED PLAN ELECTRICAL

E2.0

PERMIT SET

SHEET NOTES

1. CONCEAL OR HIDE CONDUIT FROM PUBLIC VIEW WHENEVER POSSIBLE.
2. CONNECT TO EXISTING EMERGENCY CIRCUIT.

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. SEE LUMINAIRE SCHEDULE ON DRAWING E0.2.
3. ALL EXIT SIGNS TO BE CIRCUITED ON UNSWITCHED EMERGENCY CIRCUIT.
4. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT.
5. ALL RECESSED LUMINAIRES TO BE "TENTED" IN ORDER TO MAINTAIN CEILING FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON TENTING LUMINAIRES.
6. VERIFY OPTIMAL QUANTITY, LOCATION, TECHNOLOGY, AND COVERAGE OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ORDERING

1 / - PROPOSED ENLARGED SECOND FLOOR LIGHTING PLAN

3/16" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

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SHEET
PROPOSED ENLARGED PLAN - 2ND FLOOR LIGHTING

E2.2

PERMIT SET

SHEET NOTES

1. BID ALTERNATE #1, LUMINAIRES AND DRIVERS ONLY.
2. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS.
3. CONCEAL OR HIDE CONDUIT FROM PUBLIC VIEW WHENEVER POSSIBLE.
4. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PENDANT MOUNT BOTTOM OF SENSOR TO BOTTOM OF FINISHED CEILING HEIGHT.
5. FIVE BUTTON MULTI-SCENE CONTROLLER.
6. CONTROLS/SWITCHES FOR EXISTING COVE LIGHTS TO BE REUSED.
7. TIE TO EXISTING DENTAL LIGHTING CONTROL.
8. SEE MIND SPA ONE-LINE DIAGRAM FOR CIRCUITING INFORMATION AND ADDITIONAL CONTROL REQUIREMENTS.
9. PROVIDE SUFFICIENT 1/2" LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT FOR DOOR TO FULLY OPEN WITHOUT DAMAGING FLEXIBLE BRANCH CIRCUIT.
10. MOUNT DEVICES TO APPROPRIATELY SIZED BACKBOARD. VERIFY CLEARANCE REQUIREMENTS WITH MANUFACTURERS FOR OPTIMAL COOLING OF EACH DEVICE.

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. SEE LUMINAIRE SCHEDULE ON DRAWING E0.2.
3. ALL EXIT SIGNS TO BE CIRCUITED ON UNSWITCHED EMERGENCY CIRCUIT.
4. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT.
5. ALL RECESSED LUMINAIRES TO BE "TENTED" IN ORDER TO MAINTAIN CEILING FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON TENTING LUMINAIRES.
6. VERIFY OPTIMAL QUANTITY, LOCATION, TECHNOLOGY, AND COVERAGE OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ORDERING.
7. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.

SEE SHT E2.4

1 / - PROPOSED ENLARGED THIRD FLOOR LIGHTING PLAN

3/16" = 1'-0"

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REYES ENGINEERING
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986
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SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR LIGHTING

E2.3

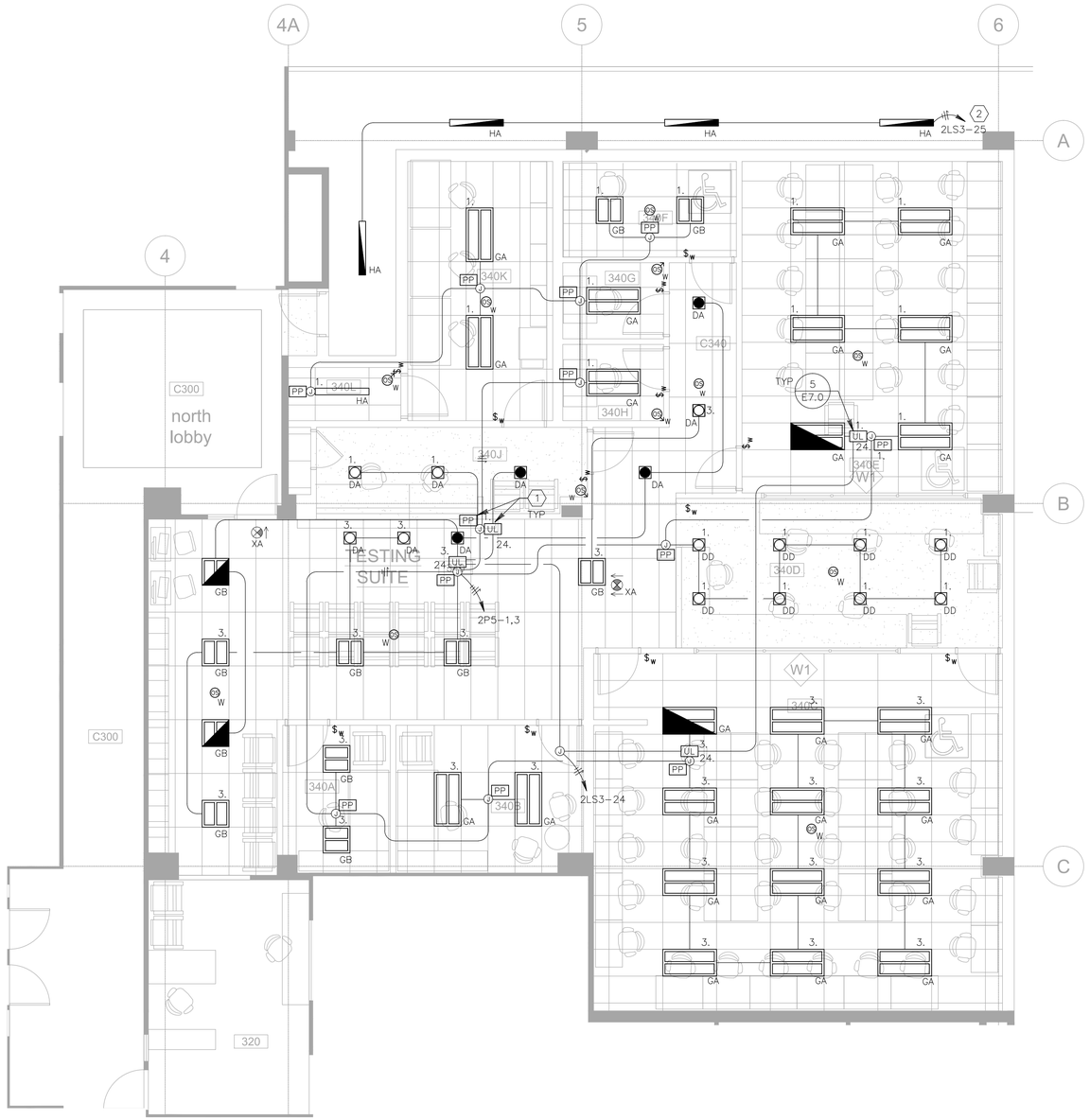
PERMIT SET

SHEET NOTES

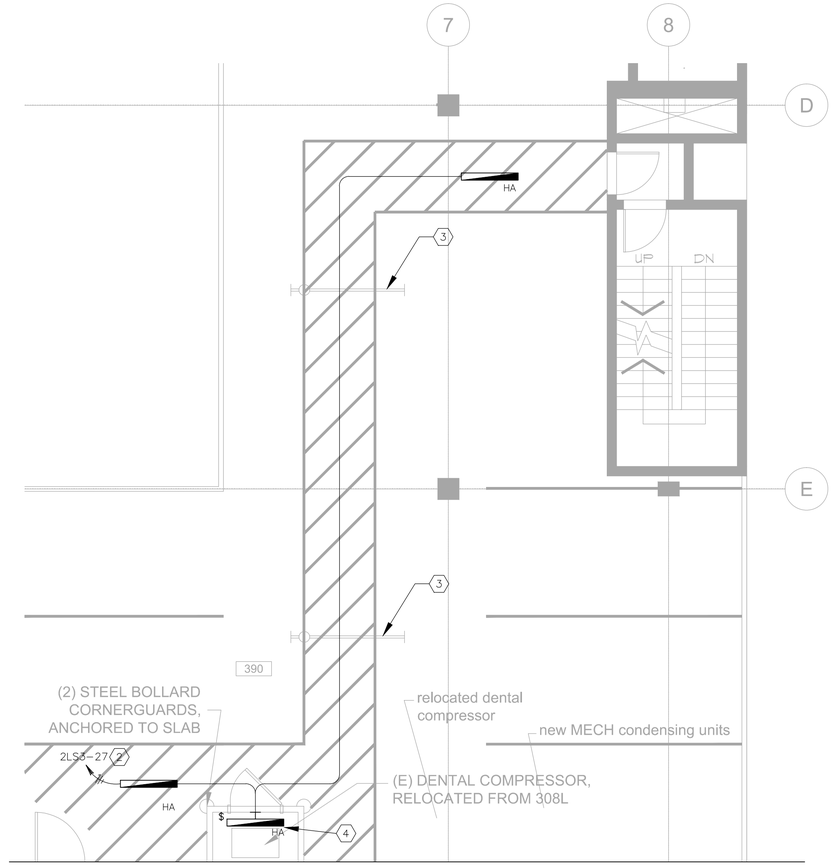
1. MOUNT IN ACCESSIBLE CEILING SPACE OUT OF VIEW.
2. TIE TO EXISTING EXTERIOR LIGHTING CONTROL SYSTEM.
3. FIELD VERIFY EXISTING LUMINAIRES ARE ON EMERGENCY LIFE SAFETY CIRCUIT FOR EGRESS PATH. IF EXISTING LUMINAIRES ARE NOT ON EMERGENCY LIFE SAFETY CIRCUIT, EXTEND CIRCUIT TO 2LS3-27 AND PROVIDE CONNECTION.
4. WALL MOUNT LUMINAIRE ABOVE DOOR AT 7'-0" FROM BOTTOM OF LUMINAIRE TO TOP OF FINISHED FLOOR.

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. SEE LUMINAIRE SCHEDULE ON DRAWING E0.2.
3. ALL EXIT SIGNS TO BE CIRCUITED ON UNSWITCHED EMERGENCY CIRCUIT.
4. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT.
5. ALL RECESSED LUMINAIRES TO BE "TENTED" IN ORDER TO MAINTAIN CEILING FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON TENTING LUMINAIRES.
6. VERIFY OPTIMAL QUANTITY, LOCATION, TECHNOLOGY, AND COVERAGE OF ALL OCCUPANCY SENSORS WITH MANUFACTURER PRIOR TO ORDERING.
7. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.



1 - PROPOSED ENLARGED THIRD FLOOR LIGHTING PLAN
3/16" = 1'-0"



SEE SHT E2.3

2 - PROPOSED ENLARGED THIRD FLOOR LIGHTING PLAN
3/16" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
18602PE
OREGON
JULY 10, 1996
FLAVIANO V. REYES JR.
Expires: Dec. 31, 2014

PASSION CREATIVITY
SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
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Tel: (503) 771-1986
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KHIEM T. MAI
ELECTRICAL DESIGNER
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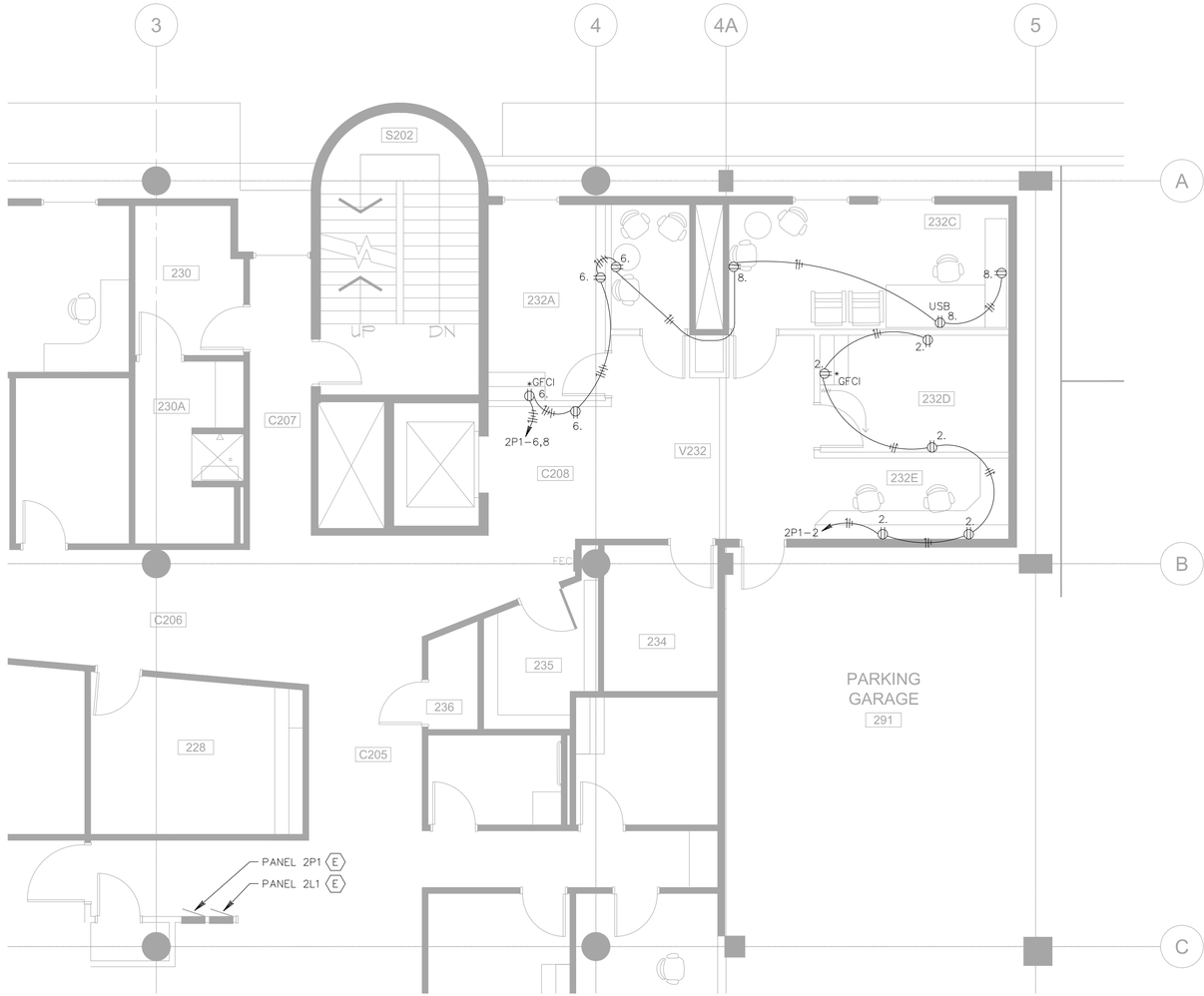
SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR LIGHTING

E2.4

PERMIT SET

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.
3. FIELD CONFIRMATION OF EXISTING CIRCUIT BREAKER AVAILABILITY AFTER CIRCUITING DEMOLITION IS REQUIRED. FIELD REASSIGNMENT OF NEW CIRCUITING TO EXISTING AVAILABLE CIRCUIT BREAKERS IS EXPECTED. DOCUMENTATION OF FINAL CIRCUITING ON PANEL SCHEDULE AND RECORD DRAWINGS IS REQUIRED.



1 / - PROPOSED SECOND FLOOR POWER PLAN

3/16" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

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SHEET
PROPOSED ENLARGED PLAN - 2ND FLOOR ELECTRICAL

E3.0

PERMIT SET

SHEET NOTES

1. PROVIDE ADDITIONAL REQUIREMENTS PER DETAIL 1/E7.0.
2. PROVIDE JUNCTION BOX IN BOTTOM OF CABINET FOR INCOMING POWER CONDUIT AND PROVIDE LIQUID TIGHT FLEX CONDUIT TO RECEPTACLE.
3. PROVIDE LOCAL DISCONNECT SWITCH FOR X-RAY CIRCUIT.
4. PROVIDE JUNCTION BOX FOR POWER CIRCUITS ENTRY. COORDINATE FINAL LOCATION WITH EQUIPMENT SUPPLIER.

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. REFER TO 1/E2.0 FOR THIRD FLOOR PLAN.
3. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.
4. DENTAL EQUIPMENTS EXACT LOCATIONS AND REQUIREMENTS TO BE VERIFIED WITH DENTAL EQUIPMENT VENDOR.
5. ALL DENTAL EQUIPMENT LOCATIONS WILL BE CONFIRMED ON THE JOB SITE. CONTRACTOR SHALL COORDINATED WITH EQUIPMENT SUPPLIER REGARDING TEMPLATE FOR TERMINATION AND WIRING REQUIREMENTS.
6. ALL FLOOR PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ANY CORE DRILLS.

HEALTH PROMOTION SUITE

SHAC ADMINISTRATIVE SUITE

DENTAL SUITE

PRINTER

COPIER

PANEL 2DN4 (E)

COFFEE MAKER
DISHWASHER
INSTA-HOT

1 PROPOSED ENLARGED THIRD FLOOR POWER PLAN
- 3/16" = 1'-0"

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ELECTRICAL DESIGNER
tmai@reyeseng.com

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SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR ELECTRICAL

E3.1

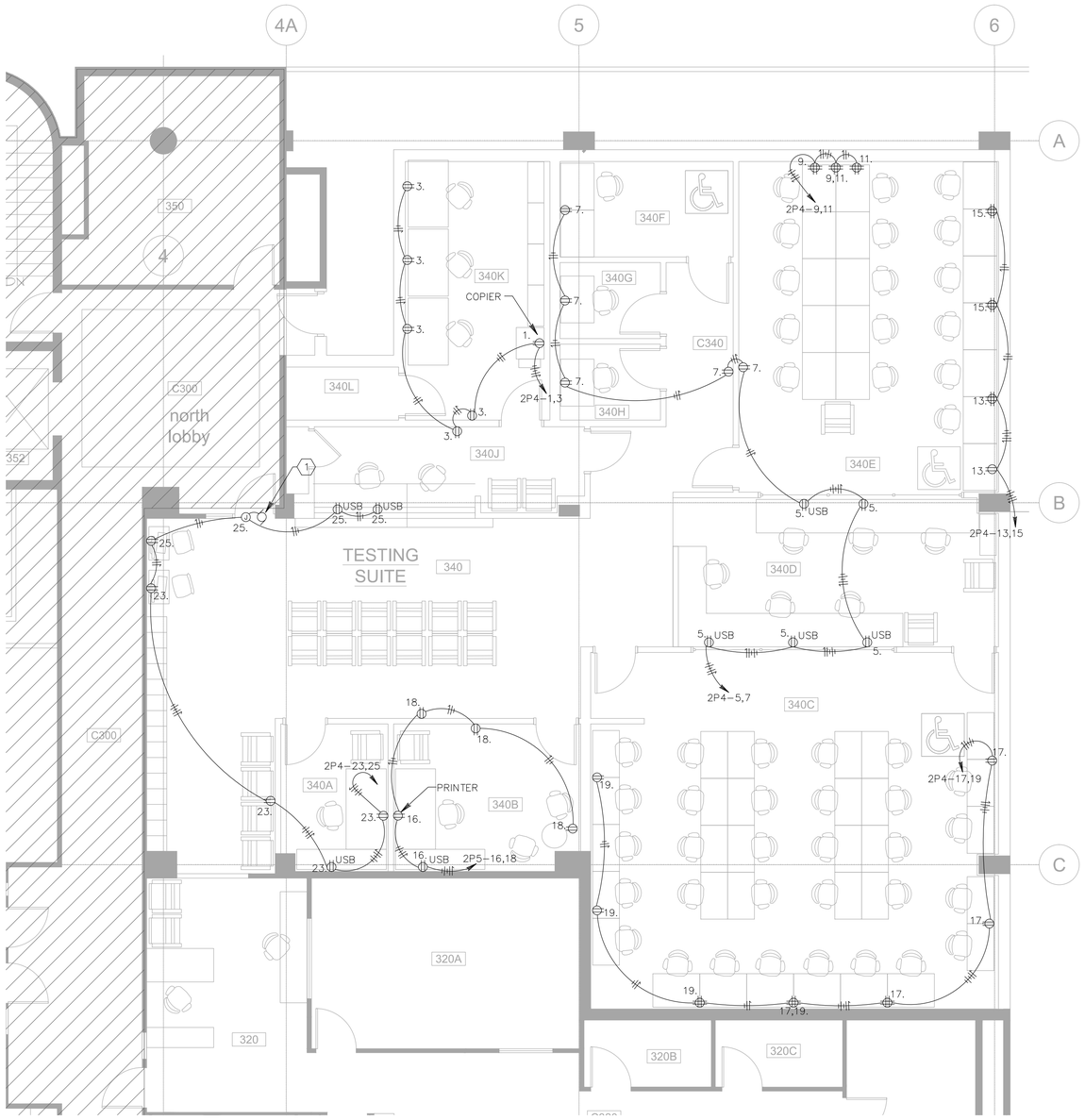
PERMIT SET

SHEET NOTES

1. COORDINATE WITH ARCHITECT TO OBTAIN EXISTING SALVAGED ADA MOTOR. PROVIDE RELOCATION AND CONNECTION OF ADA MOTOR.

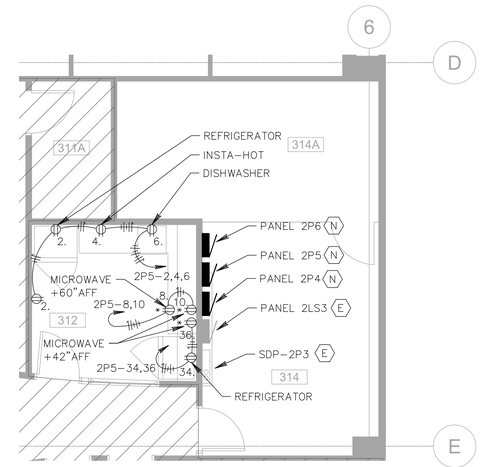
GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. REFER TO 1/E2.0 FOR THIRD FLOOR PLAN.
3. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.



1 - PROPOSED ENLARGED THIRD FLOOR POWER PLAN

3/16" = 1'-0"



2 - PROPOSED ENLARGED THIRD FLOOR POWER PLAN

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SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR ELECTRICAL

E3.2

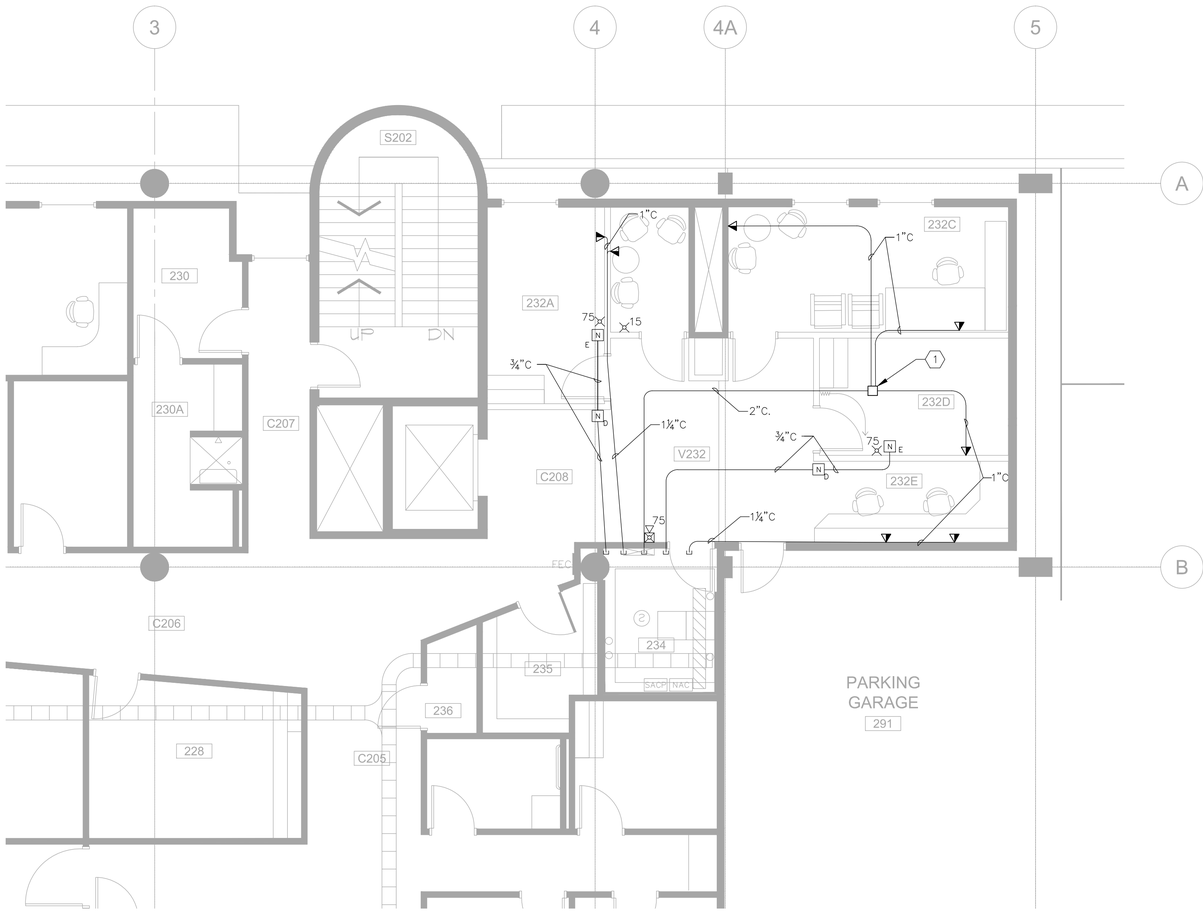
PERMIT SET

SHEET NOTES

1. 12"x12" JUNCTION BOX ABOVE CEILING

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SIZE TELE/DATA/CATV/VIDEO CONDUITS AS FOLLOWS: 1"C. MINIMUM; SECOND OUTLET 1-1/4"C.
2. ROUTE ALL CONDUITS AND CABLES THRU CONCEALED SPACES TO MINIMIZE EXPOSED CONDUITS. ALL ROUTING SHALL BE AS HIGH AND TIGHT AS POSSIBLE TO STRUCTURE AND ROUTED PARALLEL TO BEAMS FOR A CLEAN INSTALLATION. ROUTING SHALL NOT BE BELOW EXISTING BEAMS IN ALL EXPOSED TO STRUCTURE CEILING AREAS. COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING, IN STRATIFIED ZONES WITH DUCTING THE HIGHEST, PLUMBING RUNS MID-ZONE AND ELECTRICAL CONDUITS THE LOWEST. IN AREAS OF EXPOSED CEILING INSTALL SERVICES WITH A MINIMUM OF FITTINGS AND CONNECTIONS TO GIVE FINAL INSTALLATION A NEAT AND CLEAN APPEARANCE. SEE ARCHITECTURAL BUILDING SECTIONS FOR ADDITIONAL INFORMATION. ALL ROUTING CONFLICTS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR COORDINATION.
3. ALL CONDUIT STUB-OUTS FOR LOW VOLTAGE/SIGNAL CABLES SHALL BE INSTALLED WITH INSULATED BUSHINGS TO PREVENT DAMAGE TO CABLES WHEN PULLING CABLES.
4. BOND ALL TRANSITIONS FROM CABLE TRAY TO CONDUITS WITH A #4 CU GROUND CONDUCTOR TO PROVIDE A CONTINUOUS GROUNDING SYSTEM.
5. COMPLY WITH ALL PSU TELECOM STANDARDS.
6. BOND ALL CONDUITS ENTERING TELECOM ROOM TO TELECOM GROUND BUS TO PROVIDE CONTINUOUS GROUNDING SYSTEM.



1 - PROPOSED SECOND FLOOR DATA & FIRE ALARM PLAN

3/16" = 1'-0"

(NOTE: 11 X 17 SIZE DRAWINGS ARE HALF-SCALE)

N

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CONTACT: KAY BYRNE 503-725-9837

PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

REYES ENGINEERING
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com

MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST. SUITE 403 | PORTLAND, OR 97209 | p. 503-222-3753 | f. 503-295-6718 | www.MerrymanBarnesArchitects.com

PROJECT NO. 12-1121
ISSUE DATE 08.02.2013

REVISIONS

SHEET
PROPOSED ENLARGED PLAN - 2ND FLOOR DATA & FIRE ALARM

E4.0

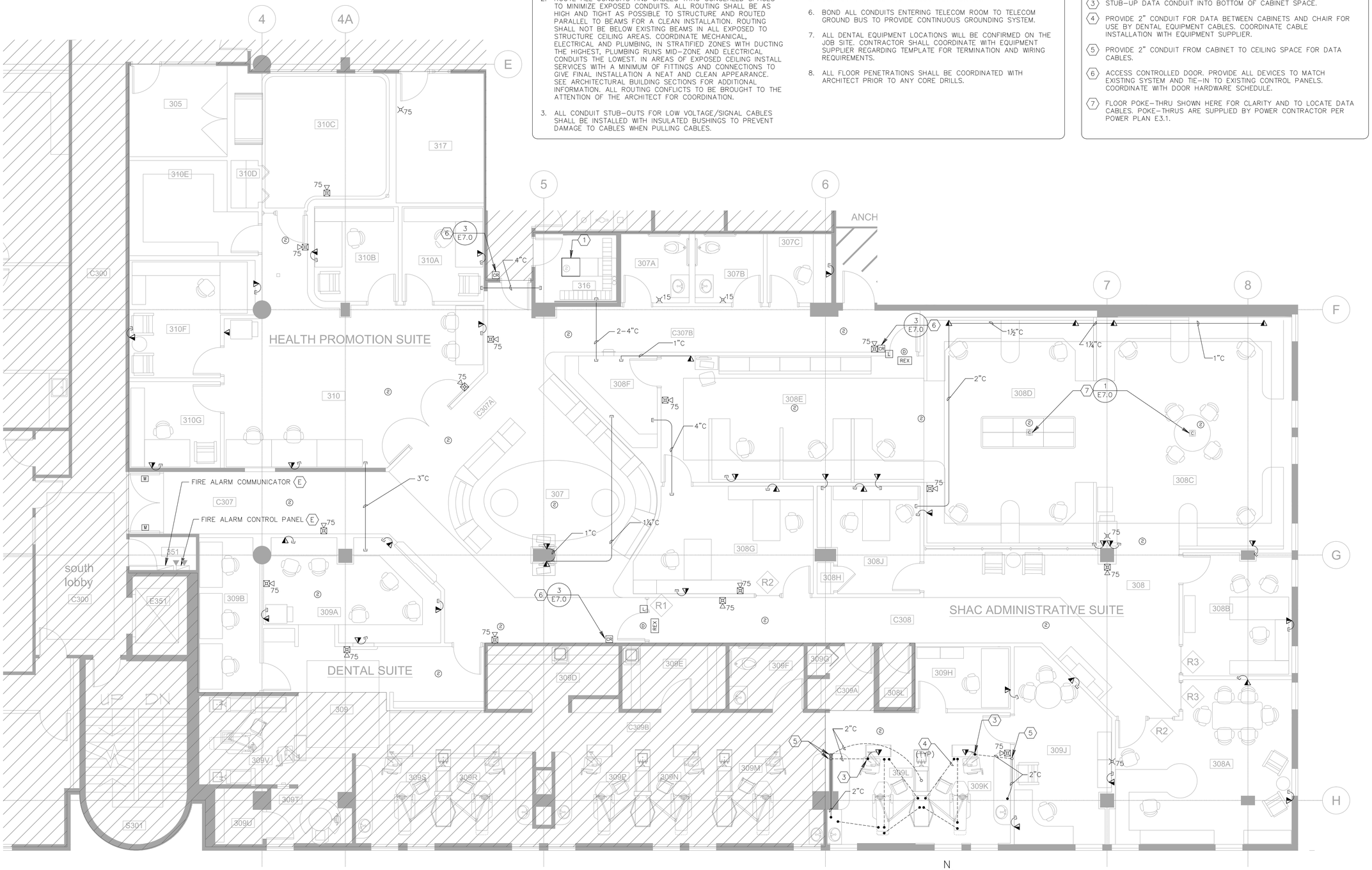
PERMIT SET

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SIZE TELE/DATA/CATV/VIDEO CONDUITS AS FOLLOWS: 1"C. MINIMUM; SECOND OUTLET 1-1/4"C.
2. ROUTE ALL CONDUITS AND CABLES THRU CONCEALED SPACES TO MINIMIZE EXPOSED CONDUITS. ALL ROUTING SHALL BE AS HIGH AND TIGHT AS POSSIBLE TO STRUCTURE AND ROUTED PARALLEL TO BEAMS FOR A CLEAN INSTALLATION. ROUTING SHALL NOT BE BELOW EXISTING BEAMS IN ALL EXPOSED TO STRUCTURE CEILING AREAS. COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING, IN STRATIFIED ZONES WITH DUCTING THE HIGHEST, PLUMBING RUNS MID-ZONE AND ELECTRICAL CONDUITS THE LOWEST. IN AREAS OF EXPOSED CEILING INSTALL SERVICES WITH A MINIMUM OF FITTINGS AND CONNECTIONS TO GIVE FINAL INSTALLATION A NEAT AND CLEAN APPEARANCE. SEE ARCHITECTURAL BUILDING SECTIONS FOR ADDITIONAL INFORMATION. ALL ROUTING CONFLICTS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR COORDINATION.
3. ALL CONDUIT STUB-OUTS FOR LOW VOLTAGE/SIGNAL CABLES SHALL BE INSTALLED WITH INSULATED BUSHINGS TO PREVENT DAMAGE TO CABLES WHEN PULLING CABLES.
4. BOND ALL TRANSITIONS FROM CABLE TRAY TO CONDUITS WITH A #4 CU GROUND CONDUCTOR TO PROVIDE A CONTINUOUS GROUNDING SYSTEM.
5. COMPLY WITH ALL PSU TELECOM STANDARDS.
6. BOND ALL CONDUITS ENTERING TELECOM ROOM TO TELECOM GROUND BUS TO PROVIDE CONTINUOUS GROUNDING SYSTEM.
7. ALL DENTAL EQUIPMENT LOCATIONS WILL BE CONFIRMED ON THE JOB SITE. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT SUPPLIER REGARDING TEMPLATE FOR TERMINATION AND WIRING REQUIREMENTS.
8. ALL FLOOR PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO ANY CORE DRILLS.

SHEET NOTES

1. NEW EQUIPMENT RACK AND PATCH PANELS TO ACCOMMODATE NEW TELECOM OUTLETS.
2. NOT USED.
3. STUB-UP DATA CONDUIT INTO BOTTOM OF CABINET SPACE.
4. PROVIDE 2" CONDUIT FOR DATA BETWEEN CABINETS AND CHAIR FOR USE BY DENTAL EQUIPMENT CABLES. COORDINATE CABLE INSTALLATION WITH EQUIPMENT SUPPLIER.
5. PROVIDE 2" CONDUIT FROM CABINET TO CEILING SPACE FOR DATA CABLES.
6. ACCESS CONTROLLED DOOR. PROVIDE ALL DEVICES TO MATCH EXISTING SYSTEM AND TIE-IN TO EXISTING CONTROL PANELS. COORDINATE WITH DOOR HARDWARE SCHEDULE.
7. FLOOR POKE-THRU SHOWN HERE FOR CLARITY AND TO LOCATE DATA CABLES. POKE-THRUS ARE SUPPLIED BY POWER CONTRACTOR PER POWER PLAN E3.1.



1 / - PROPOSED ENLARGED THIRD FLOOR DATA & FIRE ALARM PLAN

3/16" = 1'-0"

N

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PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

REYES ENGINEERING
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com

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ISSUE DATE 08.02.2013
REVISIONS

SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR DATA & FIRE ALARM

E4.1

PERMIT SET

SHEET NOTES

1. EXTEND CONDUIT TO TEL/DATA ROOM 316

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, SIZE TELE/DATA/CATV/VIDEO CONDUITS AS FOLLOWS: 1"C. MINIMUM; SECOND OUTLET 1-1/4"C.
2. ROUTE ALL CONDUITS AND CABLES THRU CONCEALED SPACES TO MINIMIZE EXPOSED CONDUITS. ALL ROUTING SHALL BE AS HIGH AND TIGHT AS POSSIBLE TO STRUCTURE AND ROUTED PARALLEL TO BEAMS FOR A CLEAN INSTALLATION. ROUTING SHALL NOT BE BELOW EXISTING BEAMS IN ALL EXPOSED TO STRUCTURE CEILING AREAS. COORDINATE MECHANICAL, ELECTRICAL AND PLUMBING, IN STRATIFIED ZONES WITH DUCTING THE HIGHEST, PLUMBING RUNS MID-ZONE AND ELECTRICAL CONDUITS THE LOWEST. IN AREAS OF EXPOSED CEILING INSTALL SERVICES WITH A MINIMUM OF FITTINGS AND CONNECTIONS TO GIVE FINAL INSTALLATION A NEAT AND CLEAN APPEARANCE. SEE ARCHITECTURAL BUILDING SECTIONS FOR ADDITIONAL INFORMATION. AREAS ALL ROUTING CONFLICTS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR COORDINATION.
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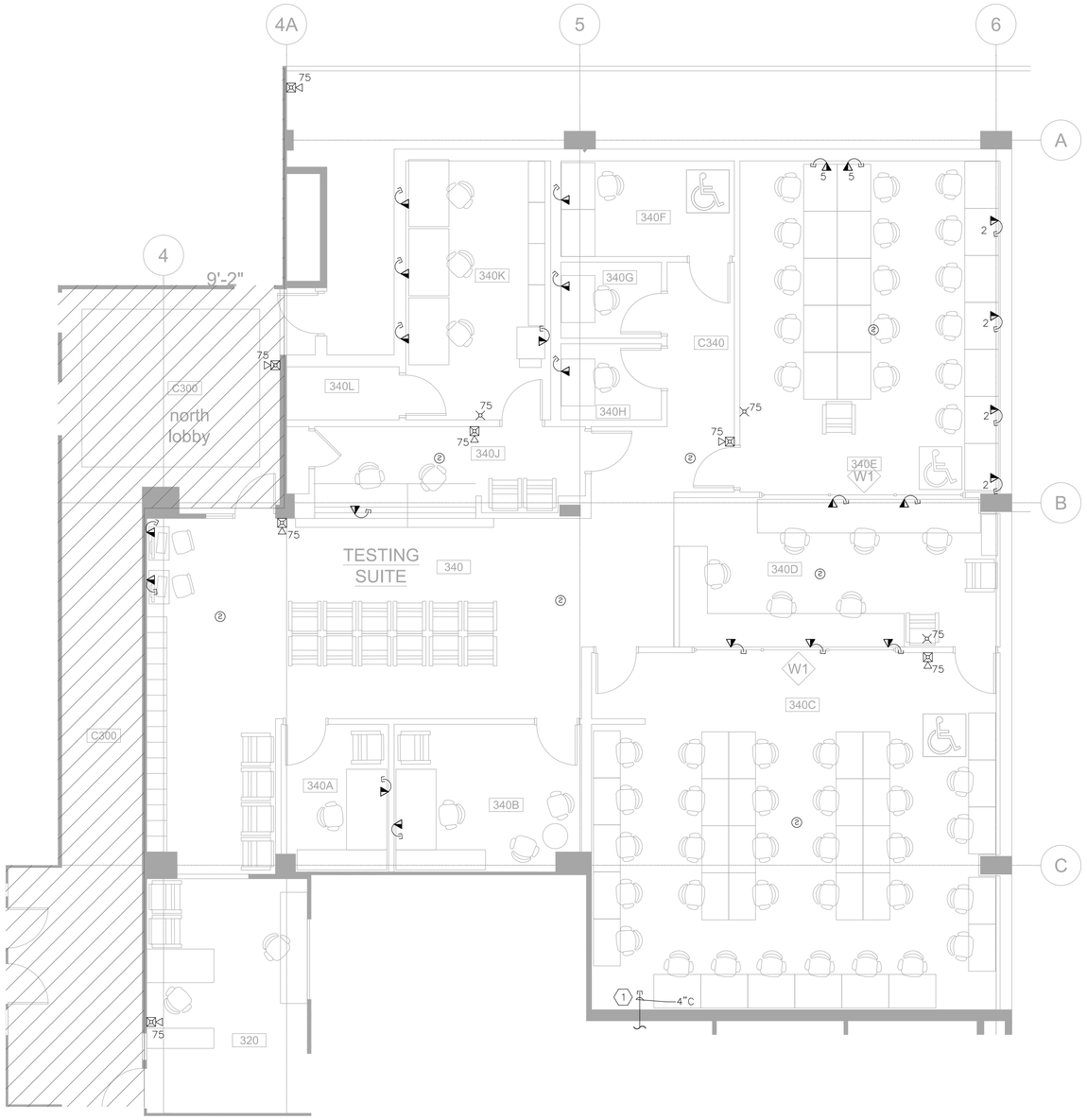
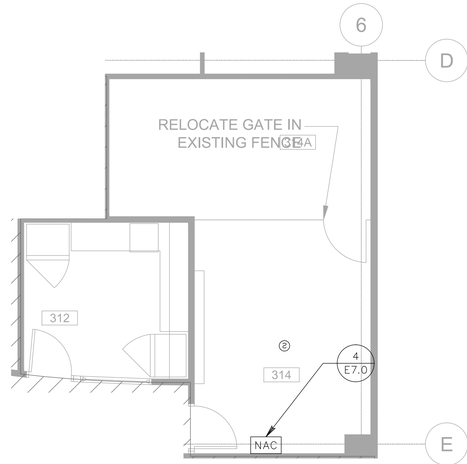


1 / - PROPOSED ENLARGED THIRD FLOOR DATA & FIRE ALARM PLAN

3/16" = 1'-0"



2 / - PROPOSED ENLARGED THIRD FLOOR DATA & FIRE ALARM PLAN

3/16" = 1'-0"

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MBA

REYES ENGINEERING
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

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SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR DATA & FIRE ALARM

E4.2

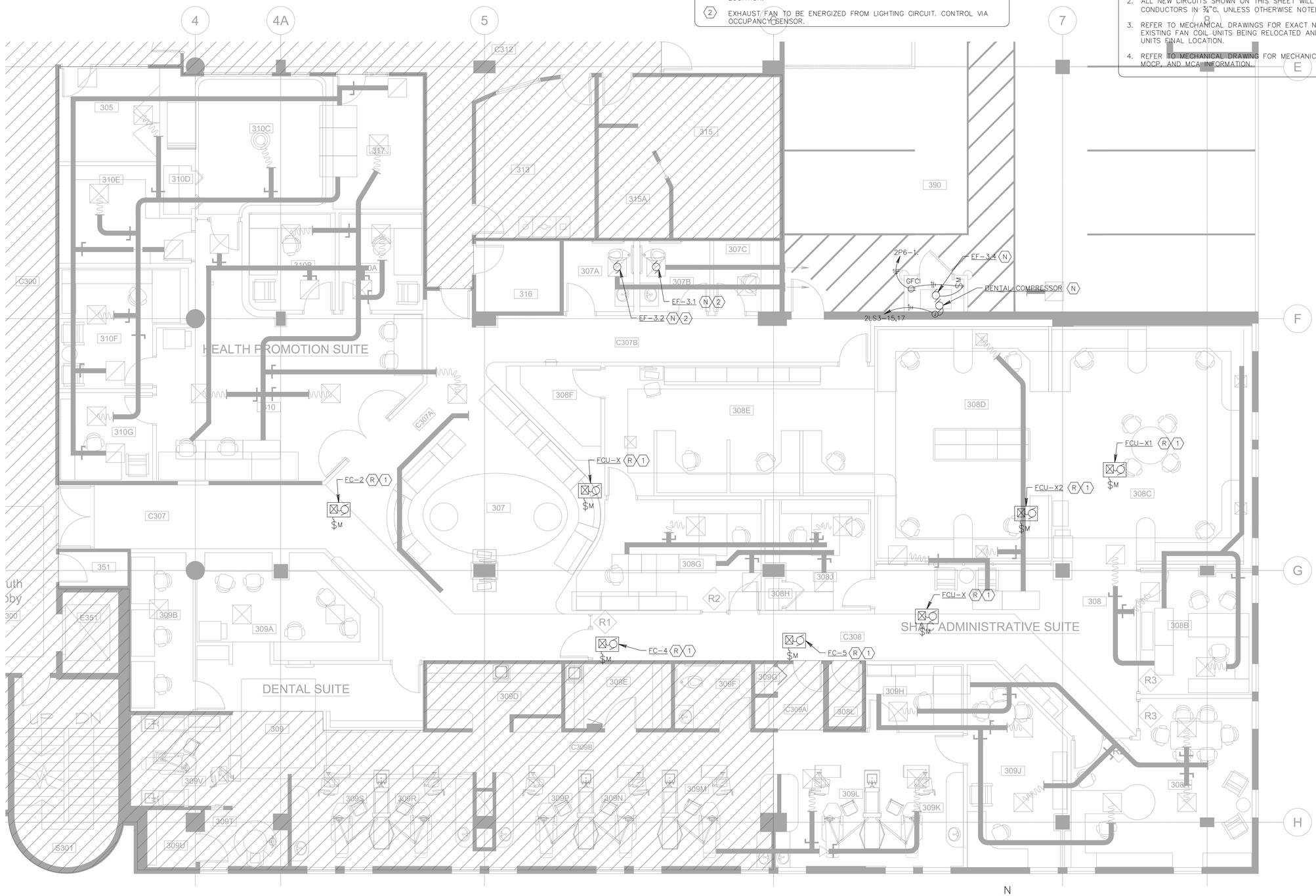
PERMIT SET

SHEET NOTES

1. EXISTING FAN COIL UNITS TO BE DISCONNECTED, RELOCATED. EXTEND EXISTING CIRCUIT. REFER TO MECHANICAL DRAWING M2.1 FOR FINAL LOCATION.
2. EXHAUST FAN TO BE ENERGIZED FROM LIGHTING CIRCUIT. CONTROL VIA OCCUPANCY SENSOR.

GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C, UNLESS OTHERWISE NOTED.
3. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER OF EXISTING FAN COIL UNITS BEING RELOCATED AND FAN COIL UNITS FINAL LOCATION.
4. REFER TO MECHANICAL DRAWING FOR MECHANICAL SCHEDULE, MOCP, AND MCA INFORMATION.



1 / - PROPOSED ENLARGED THIRD FLOOR POWER PLAN

3/16" = 1'-0"

N

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PASSION CREATIVITY SUSTAINABILITY
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KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com

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SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR MECHANICAL CONNECTION

E5.0

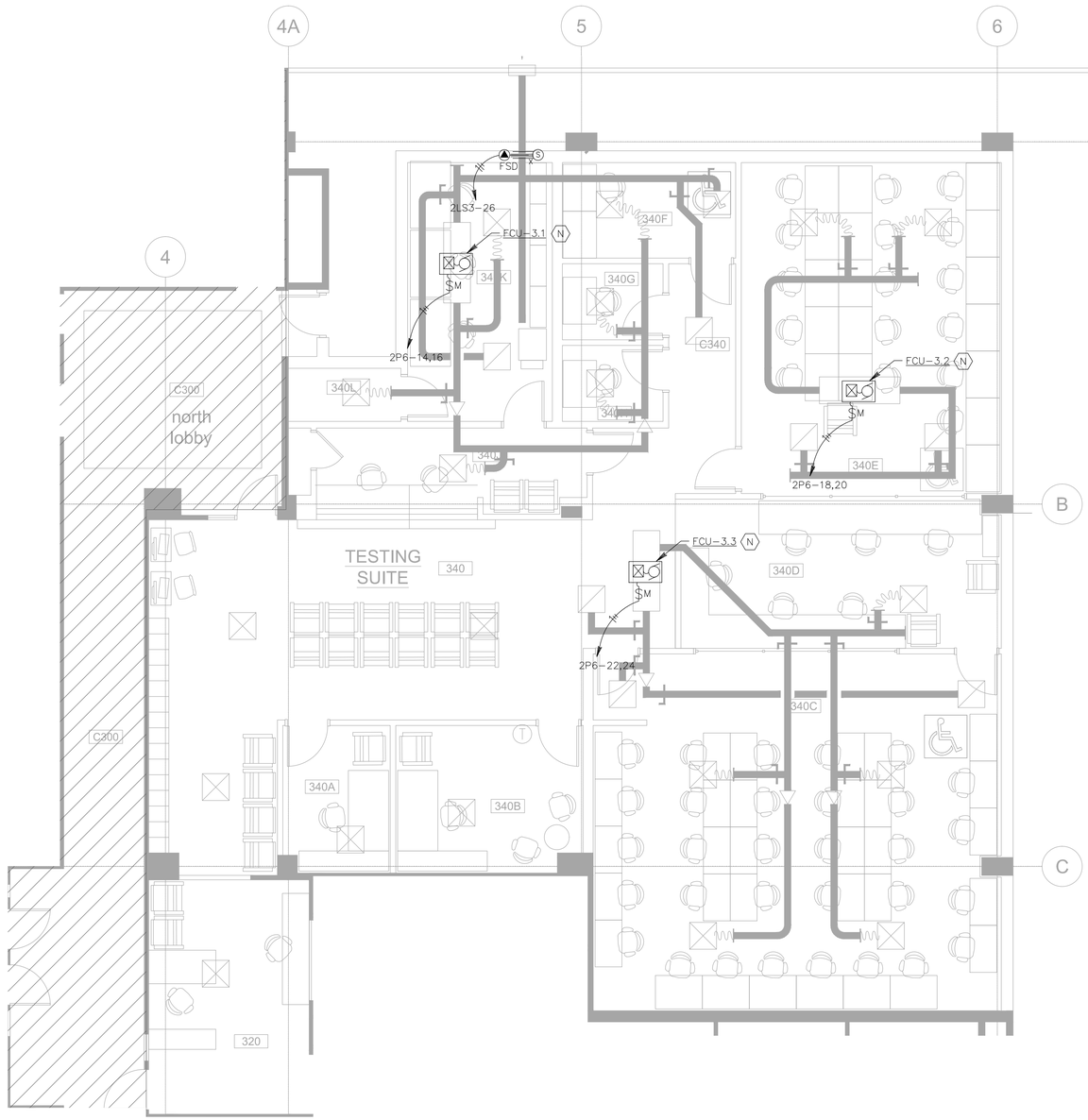
PERMIT SET

SHEET NOTES

1. EXHAUST FAN TO BE ENERGIZED FROM LIGHTING CIRCUIT. CONTROL VIA OCCUPANCY SENSOR.
2. PROVIDE GRS CONDUIT WHERE EXPOSED TO WET LOCATION. RECEPTACLE TO BE WEATHERPROOF AND LOCKABLE.

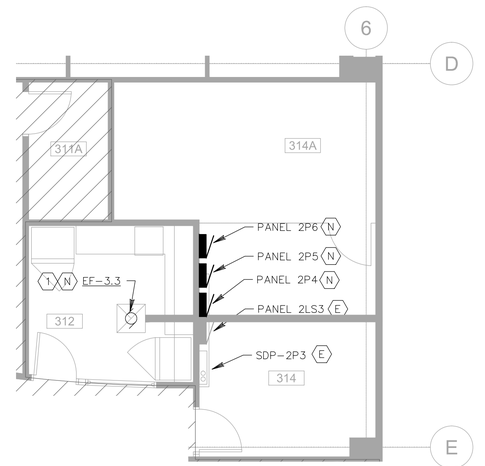
GENERAL NOTES

1. FOR ELECTRICAL SYMBOLS LEGEND AND ABBREVIATIONS SEE DRAWING E0.1.
2. ALL NEW CIRCUITS SHOWN ON THIS SHEET WILL BE #10 AWG CONDUCTORS IN ¾"C. UNLESS OTHERWISE NOTED.
3. REFER TO MECHANICAL DRAWINGS FOR EXACT NUMBER OF EXISTING FAN COIL UNITS BEING RELOCATED AND FAN COIL UNITS FINAL LOCATION.
4. REFER TO MECHANICAL DRAWING FOR MECHANICAL SCHEDULE, MOCP, AND MCA INFORMATION.



1 - PROPOSED ENLARGED THIRD FLOOR POWER PLAN

3/16" = 1'-0"



2 - PROPOSED ENLARGED THIRD FLOOR POWER PLAN

3/16" = 1'-0"

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PORTLAND, OREGON 97201
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PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203 Happy Valley, OR 97086 Tel: (503) 771-1986
REYES ENGINEERING
KHIEM T. MAI ELECTRICAL DESIGNER tmai@reyeseng.com
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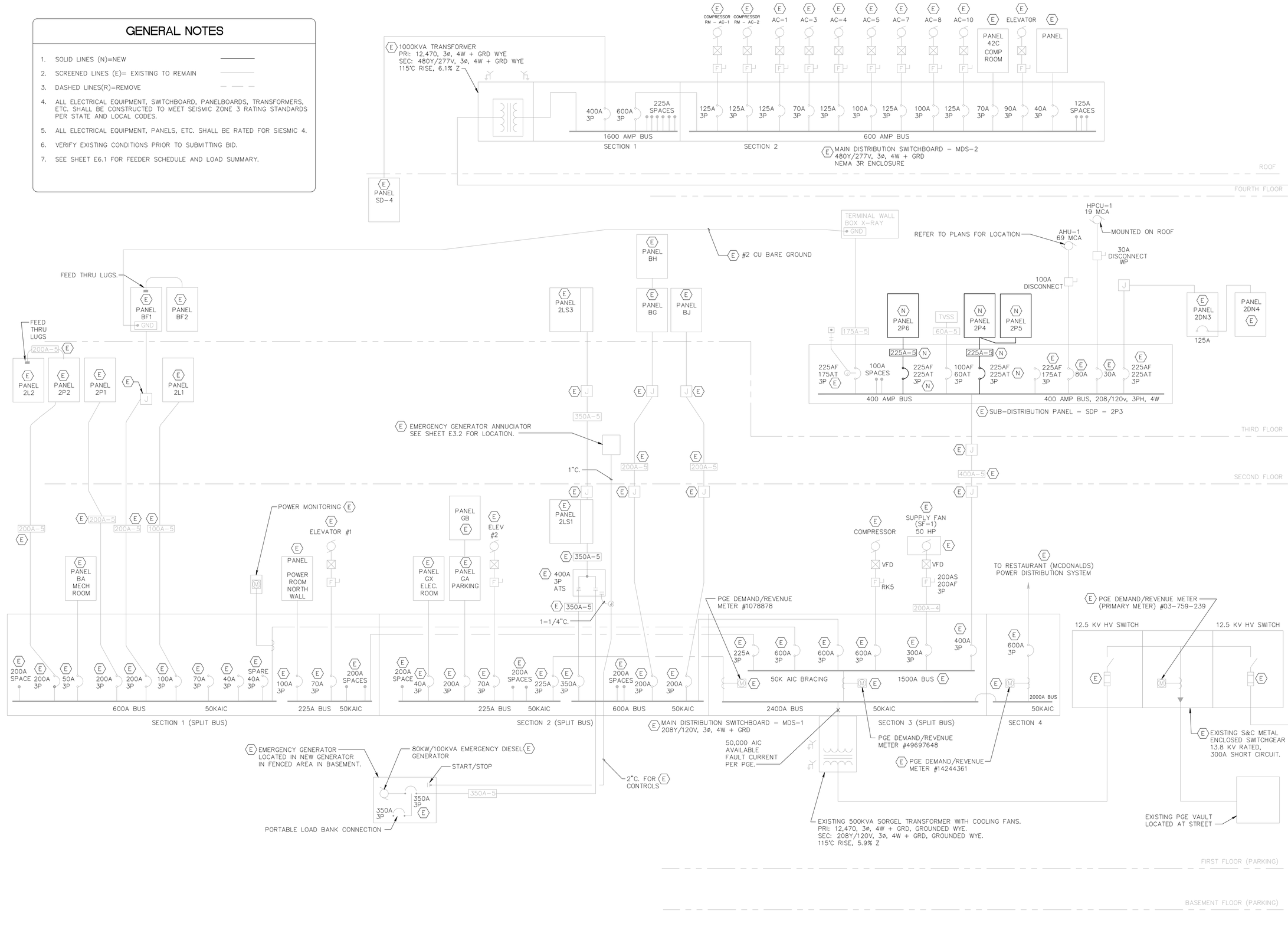
SHEET
PROPOSED ENLARGED PLAN - 3RD FLOOR MECHANICAL CONNECTION

E5.1

PERMIT SET

GENERAL NOTES

1. SOLID LINES (N)=NEW
2. SCREENED LINES (E)= EXISTING TO REMAIN
3. DASHED LINES(R)=REMOVE
4. ALL ELECTRICAL EQUIPMENT, SWITCHBOARD, PANELBOARDS, TRANSFORMERS, ETC. SHALL BE CONSTRUCTED TO MEET SEISMIC ZONE 3 RATING STANDARDS PER STATE AND LOCAL CODES.
5. ALL ELECTRICAL EQUIPMENT, PANELS, ETC. SHALL BE RATED FOR SIESMIC 4.
6. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
7. SEE SHEET E6.1 FOR FEEDER SCHEDULE AND LOAD SUMMARY.



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SHEET
ONE-LINE DIAGRAM ELECTRICAL

E6.0

PERMIT SET

LOAD SUMMARY - EXISTING MDS

208Y/120V, 3Ø, 4W + GRD, 2000 AMP BUS

EXIST. PEAK DEMAND LOAD (412 KW) X 1.25 = METER NEW LOAD

METER #K59239 [412 KVA X 1.25] = 515 KVA (1141A)
SAME AS - #03-759-239

TOTAL NEW LOAD = 143.5 KVA (399A)

EXIST. PEAK DEMAND LOAD + NEW LOAD = MIN. BUS RATING (MDS)

515 KVA + 143.5 KVA = 658.5 KVA (1829A)

FEEDER SCHEDULE

20A-3	2 #12, 1 #12 GRD IN 3/4"C.
20A-4	3 #12, 1 #12 GRD IN 3/4"C.
30A-3	2 #10, 1 #10 GRD IN 3/4"C.
30A-5	4 #10, 1 #10 GRD IN 3/4"C.
40A-3	2 #8, 1 #10 GRD IN 3/4"C.
40A-4	3 #8, 1 #10 GRD IN 3/4"C.
60A-3	2 #6, 1 #10 GRD IN 3/4"C.
60A-4	3 #6, 1 #10 GRD IN 1"C.
60A-5	4 #6, 1 #10 GRD IN 1"C.
100A-4	3 #2, 1 #8 GRD IN 2"C.
100A-5	4 #2, 1 #8 GRD IN 2"C.
150A-4	3 #2/0, 1 #6 GRD IN 2"C.
150A-5	4 #2/0, 1 #6 GRD IN 2"C.
175A-5	4 #2/0, 1 #4 GRD IN 2"C.
200A-4	3 #3/0, 1 #4 GRD IN 2 1/2"C.
200A-5	4 #3/0, 1 #4 GRD IN 2 1/2"C.
225A-4	3 #4/0, 1 #4 GRD IN 2 1/2"C.
225A-5	4 #4/0, 1 #4 GRD IN 2 1/2"C.
350A-5	4 #500, 1 #3 GRD IN 4"C.
400A-4	TWO SETS OF 3 #3/0, 1 #2 GRD EACH SET IN 2"C.
400A-5	TWO SETS OF 4 #3/0, 1 #2 GRD EACH SET IN 2"C.
800A-5	THREE SETS OF 4 350 KCMIL, 1 #1/0 GRD EACH SET IN 4"C.

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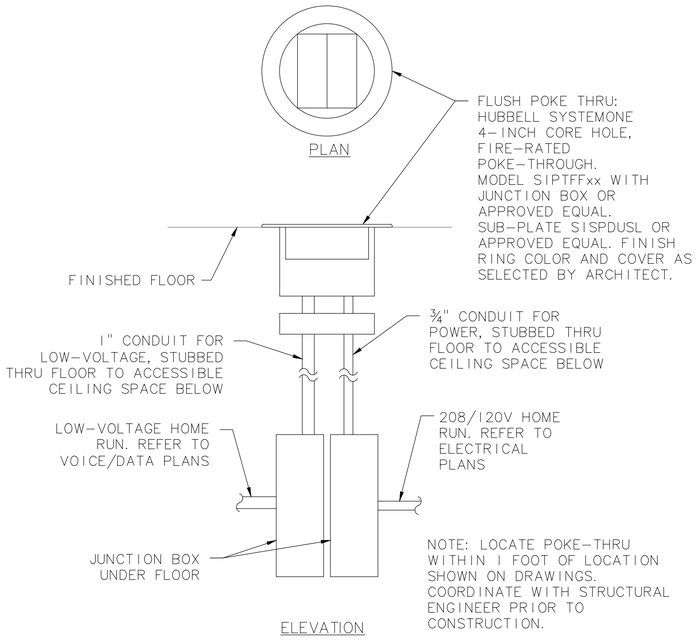
SHEET
ONE-LINE DIAGRAM
ELECTRICAL

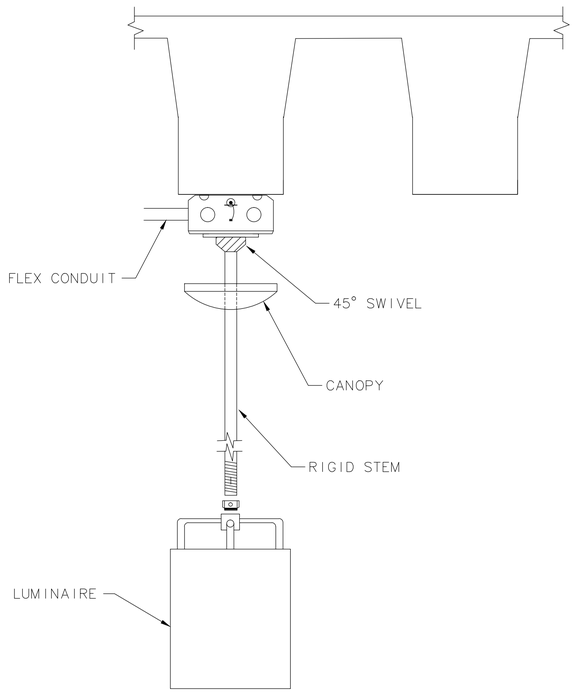
E6.1

PERMIT SET



1 - POWER CONNECTION TO FURNITURE

NTS

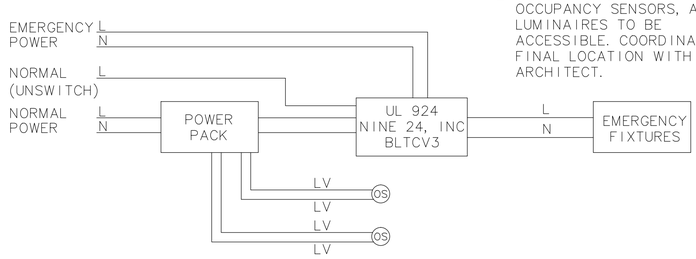


2 - COMPACT FLOURESCENT SUSPENDED FIXTURE MOUNTING DETAIL

NTS

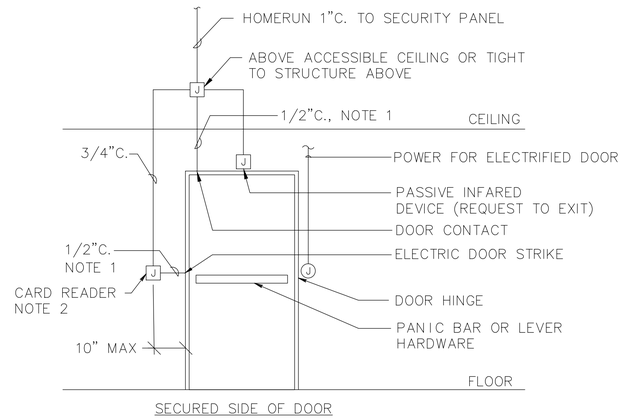
NOTE:

1. UL924 TO BE FIRE RATED PER IBC FIRE RATING OF CEILING.
2. UL924, POWERPACK, OCCUPANCY SENSORS, AND LUMINAIRES TO BE ACCESSIBLE. COORDINATE FINAL LOCATION WITH ARCHITECT.



5 - EMERGENCY BALLAST WIRING

NTS



DETAIL NOTES

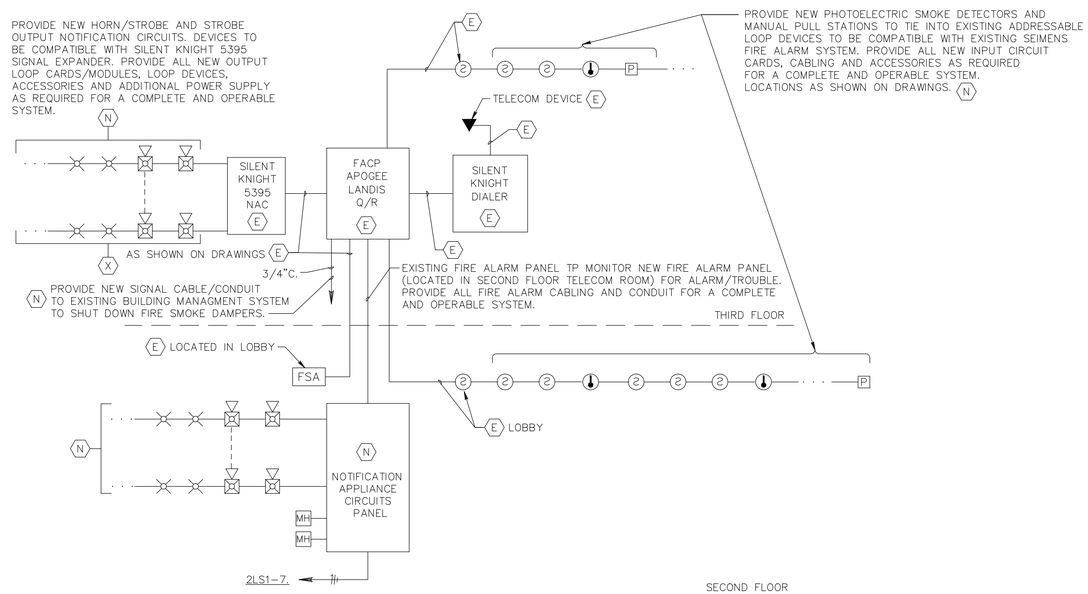
1. PROVIDE CONDUIT TO DOOR FRAME.
2. CARD READER MOUNTED ON PUBLIC SIDE OF DOOR.

DETAIL GENERAL NOTES

A. COORDINATE WITH DOOR HARDWARE SCHEDULE.
B. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

3 - TYPICAL SECURITY DOOR INFRASTRUCTURE

NTS



4 - FIRE ALARM RISER DIAGRAM

NTS

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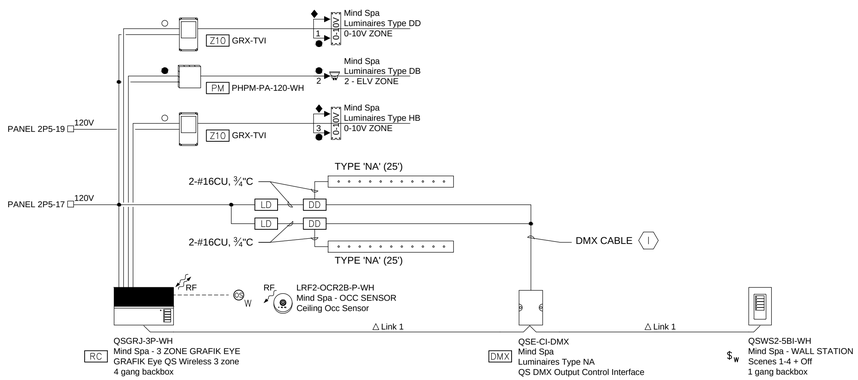
SHEET
ELECTRICAL DETAILS

E7.0

PERMIT SET



1 / - MIND SPA - LIGHTING CONTROL ONE-LINE DIAGRAM

NTS

SHEET NOTES

(1) PROVIDE SHIELDED #22 DMX CABLE. BELDEN 3107A OR APPROVED EQUAL.

WIRING LEGEND:

△ \ ▽QS CONTROL LINK (*SEE BELOW)

▲ \ ▼QS CONTROL LINK (*SEE BELOW)
(CONNECT WIRES 1, 3 AND 4. DO NOT CONNECT WIRE # 2)

QS WIRING AS REQUIRED BY CONTROL LINK LENGTH:

Control Link Length	Wire Gauge	Available from Lutron in one cable:
Less than 500ft (153m) use: △ or ▲	Power (terminals 1&2): 1 pair 18 AWG (1.0mm²)	GRX-CBL-346S or GRX-PCBL-346S
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	
500ft (153m) to 2000ft (610m)** use: ▽ or ▼	Power (terminals 1&2): 1 pair 12 AWG (1.0mm²)	GRX-CBL-46L or GRX-PCBL-46L
	Data (terminals 3&4): 1 pair 22 AWG (0.5mm²), twisted and shielded*	

*ALTERNATE DATA-ONLY CABLE: USE APPROVED DATA LINK CABLE (22 AWG [0.5MM²] TWISTED/SHIELDED) FROM BELDEN (MODEL # 9461).

**TOTAL LENGTH OF THE QS LINK MUST NOT EXCEED 2000FT (610M).

***QS LINK CAN HAVE A MAXIMUM OF 99 DEVICES, 100 ZONES, AND 512 SWITCH LEGS.

□ INPUT POWER
● 2 #12AWG
○ 3 #12AWG
◆ 2 #18AWG, 0-10V SIGNAL

CAT5E OR BETTER CABLE FOR DEDICATED LUTRON NETWORK TERMINATED WITH RJ45 CONNECTORS (TO BE PROVIDED BY OTHERS). 328 FEET (100M) MAXIMUM RUN.

LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 4 #18 AWG

LUTRON SENSOR CABLE C-CBL-522S OTHERWISE USE 3 #18 AWG

2#18 AWG

3#18 AWG

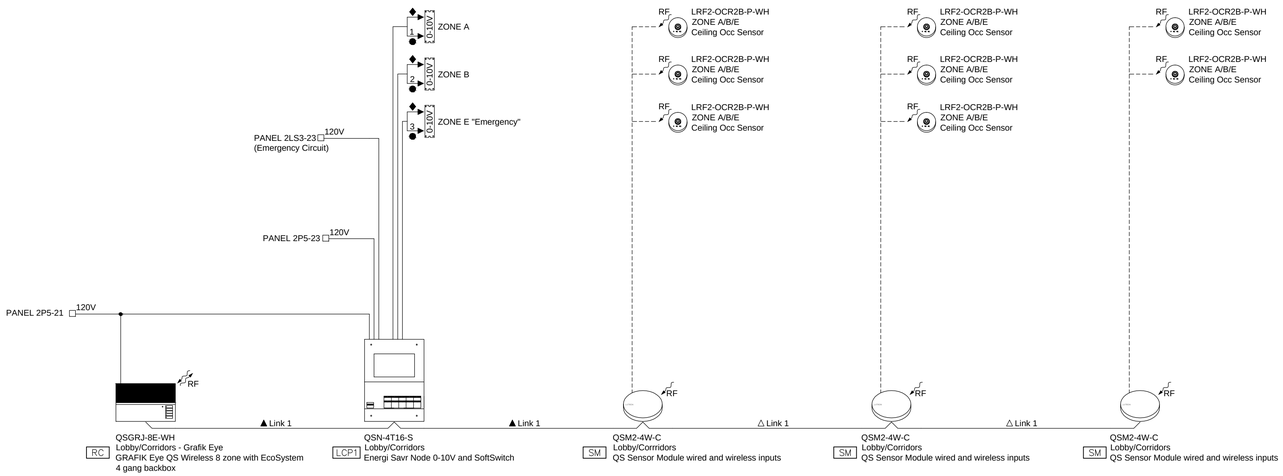
1-WAY RF COMMUNICATION

2-WAY RF COMMUNICATION

WIRING NOTES:

QS CONTROL LINK

THE QS CONTROL LINK HAS A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC.) FOR ILLUSTRATION PURPOSES THE QS CONTROL LINK IS SHOWN WIRED IN THE DAISY CHAIN FASHION. ADDITIONALLY, CONTROLS HAVE BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. CHECK POWER REQUIREMENTS BEFORE MODIFYING DEVICE WIRING ORDER. USE LUTRON CABLE GRX-CBL-346S (4 CONDUCTOR NON-PLENUM) OR GRX-PCBL-346S (4 CONDUCTOR PLENUM). OTHERWISE USE 2 #18 AWG (1.0 MM SQ) AND 1 BELDEN #9461. USE GRX-CBL-46L OR GRX-PCBL-46L (4 CONDUCTOR PLENUM) FOR LINKS RUNNING LONGER THAN 500 FT.



2 / - LOBBY - LIGHTING CONTROL ONE-LINE DIAGRAM

NTS

REGISTERED PROFESSIONAL ENGINEER 18602PE OREGON JULY 10, 1998 FANIANO V. REYES JR.
Expires: Dec. 31, 2014

PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

REYES ENGINEERING
KHIEM T. MAI
ELECTRICAL DESIGNER
kmai@reyeseng.com

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MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST. SUITE 403 | PORTLAND, OR 97209 | p. 503-222-3753 | f. 503-295-6718 | www.MerrymanBarnesArchitects.com

PROJECT NO. 12-1121
ISSUE DATE 08.02.2013
REVISIONS

SHEET
LIGHTING CONTROL ONE-LINE DIAGRAM

E7.1

PERMIT SET

PANEL: PNL 2P4 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | CONTINUOUS(A): 225
LOCATION: RM 314 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: SDP-2P3 | VOLTAGE: 208/120 | FAULT CURRENT(A): 18810
INCIDENT ENERGY: 2.03 J/cm2 @18.00(in) | BOUNDARY: 10.39(in) | PPE Category: 0
PANEL 2P4 - NEW PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	COPIER - TEST		OFF EQ	1000	1	1000	20	1	A	20	1	1000	1000	1	OFF EQ		COPIER - DENTA	2
3	RM 340K RECEPT		REC	900	1	900	20	1	B	20	1	720	720	1	REC		RM 309A RECEPT	4
5	RM 304D RECEPT		REC	900	1	900	20	1	C	20	1	720	720	1	REC		RM 309B RECEPT	6
7	RC340/F/G/H RE		REC	900	1	900	0	1	A	20	1	900	900	1	REC		RM 308E/F RECE	8
9	R340E RECEPT		REC	600	1	600	20	1	B	20	1	900	900	1	REC		RM 307 RECP/KI	10
11	R340E RECEPT		REC	600	1	600	20	1	C	20	1	900	900	1	REC		RM 308J RECEPT	12
13	R340E RECEPT		REC	600	1	600	20	1	A	20	1	900	900	1	REC		RM 308G RECEPT	14
15	R340E RECEPT		REC	800	1	800	20	1	B	20	1	720	720	1	REC		RM 308G RECEPT	16
17	RM 340C RECEPT		REC	900	1	900	20	1	C	20	1	0	0	1	SPARE		SPARE	18
19	RM 340C RECEPT		REC	900	1	900	20	1	A	20	1	900	900	1	REC		RM 308A RECEPT	20
21	SPARE		SPARE	0	1	0	20	1	B	20	1	900	900	1	REC		RM 308B RECEPT	22
23	RM 340A RECEPT		REC	720	1	720	20	1	C	20	1	800	800	1	GENERAL LOAD		TEA ST. COFFEE	24
25	TEST SUITE HAL		REC	720	1	720	20	1	A	20	1	1500	1500	1	GENERAL LOAD		TEA ST. DISHWA	26
27	RM 317/310C RE		REC	720	1	720	20	1	B	20	1	760	760	1	GENERAL LOAD		TEA ST. INSTA-	28
29	RM 305/SAD REC		REC	720	1	720	20	1	C									30
31	RM 310A RECEPT		REC	720	1	720	20	1	A									32
33	RM 310B RECEPT		REC	720	1	720	20	1	B									34
35	COPIER - HEALT		OFF EQ	1000	1	1000	20	1	C									36
37	RM 310F RECEPT		REC	900	1	900	20	1	A									38
39	RM 310 RECEPT		REC	720	1	720	20	1	B									40
41	RM 310B RECEPT		REC	360	1	360	20	1	C									42

	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
ALL CONNECTED							
TOTAL CONNECTED	26.88	90.5	* A-N	10871.6	90.5	CONNECTED	49.93
TOTAL DEMAND	21.40	73.5	* B-N	8423.5	70.1	DEMAND	41.49
TOTAL DESIGN	21.40	73.5	* C-N	7582.2	63.1	DESIGN	43.50

DATE: Aug 01, 2013
TIME: 15:01:14

PANEL: PNL 2P5 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | CONTINUOUS(A): 225
LOCATION: RM 314 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: PNL 2P4 | VOLTAGE: 208/120 | FAULT CURRENT(A): 16429
INCIDENT ENERGY: 1.83 J/cm2 @18.00(in) | BOUNDARY: 9.76(in) | PPE Category: 0
PANEL 2P5 - NEW PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	HEALTH PRO LTG		LIGHTING	475	1	475	20	2	A	20	1	750	750	1	GENERAL LOAD		RM 312 REFRIG	2
3	"			475	1	475	"		B	20	1	750	750	1	GEN		RM 312 INSTAHO	4
5	ADMIN SUITE LT		LIGHTING	985	1	985	20	2	C	20	1	1500	1500	1	GEN		RM 312 DISHWAS	6
7	"			985	1	985	"		A	20	1	1000	1000	1	GEN		RM 312 MICROWA	8
9	TEST SUITE LTG		LIGHTING	926	1	926	20	2	B	20	1	1000	1000	1	GEN		RM 312 MICROWA	10
11	"			926	1	926	"		C	20	2	700	700	1	GENERAL LOAD		DENTAL COMPRES	12
13	RESTROOM LTG		LIGHTING	482	1	482	20	1	A	"		700	700	1			"	14
15	DENTAL LOBBY L		LIGHTING	272	1	272	20	1	B	20	1	780	780	1	REC		RM340B RECEPT	16
17	MINDSPA GRAFIK		LIGHTING	700	1	700	20	1	C	20	1	540	540	1	REC		RM340B RECEPT	18
19	MINDSPA SEAT L		LIGHTING	840	1	840	20	1	A	20	1	720	720	1	REC		RM308E RECEPT	20
21	LOBBY GRAFIK E		LIGHTING	300	1	300	20	1	B	20	1	720	720	1	REC		RM308C/D RECEP	22
23	LOBBY LTG		LIGHTING	886	1	886	20	1	C	20	1	1000	1000	1	OFF EQ		COPIER - RM208	24
25									A	20	1	720	720	1	REC		RM308C RECEPT	26
27									B	20	1	720	720	1	REC		RM307A/B/C REC	28
29									C	20	1	900	900	1	REC		RM309H RECEPT	30
31									A	20	1	900	900	1	REC		RM309J RECEPT	32
33									B	20	1	750	750	1	GENERAL LOAD		RM 312 REFRIG	34
35									C	20	1	1000	1000	1	GEN		RM 312 MICROWA	36
37									A									38
39									B									40
41									C									42

	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
ALL CONNECTED							
TOTAL CONNECTED	23.13	75.2	* A-N	7486.9	62.3	CONNECTED	23.13
TOTAL DEMAND	23.13	75.2	* B-N	6617.6	55.1	DEMAND	23.13
TOTAL DESIGN	25.16	82.3	* C-N	9025.1	75.2	DESIGN	25.16

DATE: Aug 01, 2013
TIME: 15:01:14

REGISTERED PROFESSIONAL ENGINEER
18602PE
OREGON
JULY 10, 1998
FLAVIANO V. REYES JR.
Expires: Dec. 31, 2014

REYES ENGINEERING
KITHEM T. MAI
ELECTRICAL DESIGNER
tmai@reyeseng.com
PASSION CREATIVITY
SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203
Happy Valley, OR 97086
Tel: (503) 771-1986

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PROJECT NO. 12-1121
ISSUE DATE 08.02.2013
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SHEET
PANEL SCHEDULE
ELECTRICAL

E7.2

PERMIT SET

PANEL: PNL 2LS3 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | CONTINUOUS(A): 0
LOCATION: | DEVICE FAMILY: Bolt On | MOUNTING: Flush | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 0
FED FROM: | | VOLTAGE: 208/120 | | FAULT CURRENT(A): 11605
INCIDENT ENERGY: 125.21 J/cm2 @18.00(in) | | BOUNDARY: 128.1(in) | PPE Category: 4
PANEL 2LS3 - EXISTING PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	3RD FL. TTB	EXISTING	GENERAL LOAD	500	1	500	20	1	A	20	1	300	300	1	GENERAL LOAD	EXISTING	CORR. FLR 3 Y3	2
3	3RD FL. TTB	EXISTING	GENERAL LOAD	500	1	500	20	1	B	20	1	300	300	1	GENERAL LOAD	EXISTING	SHUNT TRIP CNT	4
5	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	6
7	X-RY CNTRL RM	EXISTING	RECEPTACLES	360	1	360	20	1	A	20	1	600	600	1	GENERAL LOAD	EXISTING	ACU-2/CP-2	8
9	X-RY CNTRL RM	EXISTING	RECEPTACLES	360	1	360	20	1	B	20	2	750	750	1	GENERAL LOAD	EXISTING	ACC-2	10
11	DENTAL VAC	EXISTING	GENERAL LOAD	1000	1	1000	20	2	C	"		750	750	1			"	12
13	"			1000	1	1000	"		A	20	2	1000	1000	1	GENERAL LOAD	EXISTING	CHAIR 3 DENTAL	14
15	DENTAL COMPRES	EXISTING	GENERAL LOAD	1000	1	1000	30	2	B	"		1000	1000	1			"	16
17	"			1000	1	1000	"		C	20	1	500	500	1	GENERAL LOAD	EXISTING	CHAIR 5 DENTAL	18
19	EGRESS LTG DEN	EXISTING	LIGHTING	250	1	250	20	1	A	20	2	1000	1000	1	GENERAL LOAD	EXISTING	CHAIR 5 DENTAL	20
21	FLR 3 EGRESS L	NEW	LIGHTING	184	1	184	20	1	B	"		1000	1000	1			"	22
23	FLR 3 HALLWAY	NEW	LIGHTING	606	1	606	20	1	C	20	1	246	246	1	LIGHTING	NEW	TEST SUITE LTG	24
25	FLR 3 EXTERIOR	NEW	LIGHTING	232	1	232	20	1	A	20	1	180	180	1	GENERAL LOAD	NEW	3RD FLR FSD	26
27	FLR 3 EXTERIOR	NEW	LIGHTING	116	1	116	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	28
29	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	30
31									A									32
33									B									34
35									C									36
37									A									38
39									B									40
41									C									42

	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
ALL CONNECTED								
TOTAL CONNECTED	14.73	45.1	* A-N	5422.0	45.1	CONNECTED	14.73	DATE: Jul 31, 2013
TOTAL DEMAND	14.73	45.1	* B-N	5210.0	43.4	DEMAND	14.73	TIME: 18:32:38
TOTAL DESIGN	15.14	46.2	* C-N	4102.0	34.2	DESIGN	15.14	

PANEL: PNL 2DN4 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | CONTINUOUS(A): 400
LOCATION: RM 314 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: PNL 2P4 | | VOLTAGE: 208/120 | | FAULT CURRENT(A): 15960
INCIDENT ENERGY: 0.00 J/cm2 @18.00(in) | | BOUNDARY: 0.00(in) | PPE Category:
PANEL 2DN4 - EXISTING PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	RESTROOM	EXISTING	RECEPTACLES	360	1	360	20	1	A	20	1	600	600	1	RECEPTACLES	EXISTING	PATIENT CHAIRS	2
3	HALL OPERA LTG	EXISTING	LIGHTING	1621	1	1621	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	4
5	OFFICE LTG	EXISTING	LIGHTING	1045	1	1045	20	1	C	20	1	600	600	1	RECEPTACLES	EXISTING	PATIENT CHAIRS	6
7	TRIMMER	EXISTING	GENERAL LOAD	180	1	180	20	1	A	20	1	600	600	1	RECEPTACLES	EXISTING	PATIENT CHAIRS	8
9	COMP STATION	EXISTING	GENERAL LOAD	1681	1	1681	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	10
11	COMP STATION	EXISTING	GENERAL LOAD	1681	1	1681	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	12
13	VACUUM PUMP	EXISTING	GENERAL LOAD	1186	1	1186	20	2	A	20	1	1800	1800	1	RECEPTACLES	EXISTING	12 O'CLOCK CAB	14
15	"			1186	1	1186	"		B	20	1	1800	1800	1	RECEPTACLES	EXISTING	12 O'CLOCK CAB	16
17	COMPRESSOR	EXISTING	GENERAL LOAD	1976	1	1976	30	2	C	20	1	360	360	1	RECEPTACLES	EXISTING	SIDE CAB 5D	18
19	"			1976	1	1976	"		A	20	1	600	600	1	RECEPTACLES	EXISTING	XRAY CABINET	20
21	SIDE CAB DENTA	NEW	RECEPTACLES	540	1	540	20	1	B	20	1	600	600	1	RECEPTACLES	EXISTING	XRAY CABINET	22
23	12 O'CLOCK CAB	NEW	RECEPTACLES	1800	1	1800	20	1	C	20	1	600	600	1	RECEPTACLES	EXISTING	XRAY CABINET	24
25	XRAY CABINET	NEW	RECEPTACLES	600	1	600	20	1	A	20	1	0	0	1	SPARE	EXISTING	SPARE	26
27	PATIENT CHAIRS	NEW	RECEPTACLES	1200	1	1200	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	28
29	12 O'CLOCK CAB	NEW	RECEPTACLES	1800	1	1800	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	30
31	DENTAL LTG	NEW	LIGHTING	292	1	292	20	1	A	20	1	1080	1080	1	GENERAL LOAD	EXISTING	INSTRUMENT DRY	32
33	SPARE	EXISTING	SPARE	0	1	0	20	1	B	20	1	250	250	1	LIGHTING	EXISTING	TASKLIGHTING S	34
35	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	1080	1080	1	GENERAL LOAD	EXISTING	MID	36
37	SPARE	EXISTING	SPARE	0	1	0	20	1	A	20	1	0	0	1	SPARE	EXISTING	SPARE	38
39	SPARE	EXISTING	SPARE	0	1	0	20	1	B	20	1	250	250	1	LIGHTING	EXISTING	TASKLIGHTING S	40
41	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	250	250	1	LIGHTING	EXISTING	TASKLIGHTING S	42

	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
ALL CONNECTED								
TOTAL CONNECTED	29.59	93.2	* A-N	9274.0	77.2	CONNECTED	29.59	DATE: Jul 24, 2013
TOTAL DEMAND	27.66	85.6	* B-N	9128.0	76.0	DEMAND	27.66	TIME: 11:38:09
TOTAL DESIGN	28.59	88.3	* C-N	11192.0	93.2	DESIGN	28.59	

REGISTERED PROFESSIONAL ENGINEER 18602PE OREGON JULY 10, 1998 FLAVIANO V. REYES JR.
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PROJECT NO. 12-1121 | ISSUE DATE 08.02.2013
REVISIONS

SHEET
PANEL SCHEDULE
ELECTRICAL

E7.3

PERMIT SET

PANEL: PNL 2P6 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): LUGS | CONTINUOUS(A): 225
LOCATION: RM 314 | DEVICE FAMILY: Bolt On | MOUNTING: Surface | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 22000
FED FROM: SDP-2P3 | VOLTAGE: 208/120 | FAULT CURRENT(A): 18810
INCIDENT ENERGY: 0.00 J/cm2 @18.00(in) | BOUNDARY: 0.00(in) | PPE Category:
PANEL 2P4 - NEW PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	RESTRM&COMPRES		GEN	500	1	500	20	1	A	15	2	670	670	1	GEN		ACCU-3.1	2
3	CONDENS RECPT		GEN	180	1	180	20	1	B	"		670	670	1			"	4
5									C	15	2	670	670	1	GEN		ACCU-3.2	6
7									A	"		670	670	1			"	8
9									B	15	2	670	670	1	GEN		ACCU-3.3	10
11									C	"		670	670	1			"	12
13									A	40	2	2880	2880	1	GEN		FCU-3.1	14
15									B	"		2880	2880	1			"	16
17									C	40	2	2880	2880	1	GEN		FCU-3.2	18
19									A	"		2880	2880	1			"	20
21									B	40	2	2880	2880	1	GEN		FCU-3.3	22
23									C	"		2880	2880	1			"	24
25									A									26
27									B									28
29									C									30
31									A									32
33									B									34
35									C									36
37									A									38
39									B									40
41									C									42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	21.98	63.3	* A-N	7600.0	63.3	CONNECTED	21.98	DATE: Aug 01, 2013
TOTAL DEMAND	21.98	63.3	* B-N	7280.0	60.6	DEMAND	21.98	TIME: 15:01:14
TOTAL DESIGN	21.98	63.3	* C-N	7100.0	59.1	DESIGN	21.98	

PANEL: PANEL 2L1 SCHED | OC DEVICE TYPE: Breaker | ENCLOSURE: NEMA 1 | MAINS(A): BKR | CONTINUOUS(A): 0
LOCATION: | DEVICE FAMILY: Bolt On | MOUNTING: Flush | WIRING: 3-Phase 4-Wire | BUS SC RATING(A) 0
FED FROM: | VOLTAGE: 208/120 | FAULT CURRENT(A): 10360
INCIDENT ENERGY: 115.41 J/cm2 @18.00(in) | BOUNDARY: 121.9(in) | PPE Category: 4
PANEL 2L1 - EXISTING PANEL

CKT	DESCRIPTION	NOTES	DEMAND CODE	Each	Qty	VA	OC AMPS	P	PHASE	OC AMPS	P	VA	Each	Qty	DEMAND CODE	NOTES	DESCRIPTION	CKT
1	RM 233,323,MD3	EXISTING	LIGHTING	924	1	924	20	1	A	20	1	150	150	1	LIGHTING	EXISTING	PROC. LTS/TREA	2
3	EAST EXAM ROOM	EXISTING	LIGHTING	1054	1	1054	20	1	B	20	1	150	150	1	LIGHTING	EXISTING	PROC. LTS/RM 2	4
5	NURSE STA/ WRK	EXISTING	LIGHTING	1318	1	1318	20	1	C	20	1	200	200	1	LIGHTING	EXISTING	LIGHTING CONTA	6
7	WEST PROVIDER	EXISTING	LIGHTING	1364	1	1364	20	1	A	20	1	1500	1500	1	GENERAL LOAD	EXISTING	HOT WATER DISP	8
9	NORTH PROVIDER	EXISTING	LIGHTING	806	1	806	20	1	B	20	1	1200	1200	1	GENERAL LOAD	EXISTING	ICE MACHINE	10
11	TREAT/AV/REST	EXISTING	LIGHTING	1488	1	1488	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	12
13	RM 232A/B/C/D/	NEW LOAD	LIGHTING	1096	1	1096	20	1	A	20	1	0	0	1	SPARE	EXISTING	SPARE	14
15	SPARE	EXISTING	SPARE	0	1	0	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	16
17	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	18
19	EAST CORR. C20	EXISTING	LIGHTING	1225	1	1225	20	1	A	20	1	0	0	1	SPARE	EXISTING	SPARE	20
21	WEST CORR. C20	EXISTING	LIGHTING	595	1	595	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	22
23	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	24
25	SPARE	EXISTING	SPARE	0	1	0	20	1	A	20	1	0	0	1	SPARE	EXISTING	SPARE	26
27	SPARE	EXISTING	SPARE	0	1	0	20	1	B	20	1	0	0	1	SPARE	EXISTING	SPARE	28
29	SPARE	EXISTING	SPARE	0	1	0	20	1	C	20	1	0	0	1	SPARE	EXISTING	SPARE	30
31									A									32
33									B									34
35									C									36
37									A									38
39									B									40
41									C									42

ALL CONNECTED	KVA	MAX PH AMPS	* PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA	
TOTAL CONNECTED	13.07	52.1	* A-N	6259.0	52.1	CONNECTED	13.07	DATE: Aug 01, 2013
TOTAL DEMAND	13.07	52.1	* B-N	3805.0	31.7	DEMAND	13.07	TIME: 15:34:52
TOTAL DESIGN	15.66	62.0	* C-N	3006.0	25.0	DESIGN	15.66	

REGISTERED PROFESSIONAL ENGINEER 18602PE OREGON JULY 10, 1998 FLAVIANO V. REYES JR.
Expires: Dec. 31, 2014

REYES ENGINEERING
KHIEM T. MAI ELECTRICAL DESIGNER kmai@reyeseng.com
PASSION CREATIVITY SUSTAINABILITY
10555 SE 82nd Avenue, Suite 203 Happy Valley, OR 97086 Tel: (503) 771-1986

PSU STUDENT HEALTH & COUNSELING CENTER

1880 SW 6th AVENUE, PORTLAND, OREGON 97201
OWNER: PORTLAND STATE UNIVERSITY - FACILITIES AND PLANNING (FAP)
202 UNIVERSITY SERVICES BLDG - 617 SW MONTGOMERY
PORTLAND, OREGON 97201
CONTACT: KAY BYRNE 503-725-9837

MERRYMAN BARNES ARCHITECTS 1231 NW HOYT ST, SUITE 403 | PORTLAND, OR 97209 | p. 503-222-3753 | f. 503-295-6718 | www.MerrymanBarnesArchitects.com

PROJECT NO. 12-1121 | ISSUE DATE 08.02.2013
REVISIONS

SHEET
PANEL SCHEDULE
ELECTRICAL

E7.4

PERMIT SET