ELECTRICAL ABBREVIATIONS

(D)	DEMOLISH
(E)	EXISTING TO REMAIN
1PH	SINGLE-PHASE
1P	SINGLE POLE
2/C	TWO-CONDUCTOR
3/C	THREE-CONDUCTOR
3PH	THREE-PHASE
4/C	FOUR-CONDUCTOR
4W	FOUR-WIRE
A/C UNIT	AIR CONDITIONING UNIT
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER
FF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB OR A	AMBIENT
AMP	AMPERE
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BLDG	BUILDING
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CALC	CALCULATE
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
COAX	COAX CABLE
COMM	COMMUNICATION
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DISC	DISCONNECT
DISTR	DISTRIBUTION
DISTR PNL	DISTRIBUTION PANEL
DMR SW	DIMMER SWITCH
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMCP	EMERGENCY MONITORING CONTROL PANEL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING

FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABL	FIRE ALARM BELL
FABX	FIRE ALARM BOX
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
FLT	FLOODLIGHT
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J-BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
kWHM	KILOWATT HOUR METER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL-CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER

RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
SCC	SHORT CIRCUIT CAPACITY
SES	SERVICE ENTRANCE SECTION
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

ELECTRICAL SYMBOLS - DIAGRAM

- DELTA CONNECTION
- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER
- WYE CONNECTION
- EARTH GROUND
- JUNCTION BOX
- PULL BOX
- SWITCH, SINGLE BREAK
- NORMALLY CLOSED RELAY CONTACT
- NORMALLY OPEN RELAY CONTACT
- FUSE WITH RATING
- MOLDED CASE CIRCUIT BREAKER
- LOW-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- HIGH-VOLTAGE OIL CIRCUIT BREAKER
- HIGH-VOLTAGE DRAWOUT AIR CIRCUIT BREAKER
- SWITCH AND FUSE UNIT
- FUSED DRAWOUT POTENTIAL TRANSFORMER
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- TIME CLOCK
- GENERATOR, POWER
- LIGHTNING ARRESTOR
- METER
- SEPARATELY ENCLOSED CIRCUIT BREAKER

ELECTRICAL SYMBOLS - POWER PLAN

- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- VARIABLE FREQUENCY DRIVE
- TIME CLOCK
- VENTILATOR OR FAN COIL UNIT OUTLET
- CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- SWITCH
  - F = FUSED SWITCH
  - L = LOCK
  - M = MANUAL MOTOR STARTING
  - MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
  - PB= PUSH BUTTON STATION
  - WP= WEATHER PROOF
  - K = KEY OPERATED
  - LM= LOW VOLTAGE MASTER
  - MC= MOMENTARY CONTACT
  - P = WITH PILOT LIGHT
  - RC= REMOTE CONTROL
  - X = EXPLOSION PROOF

ELECTRICAL SYMBOLS - POWER PLAN

- MOTOR, SINGLE-PHASE
- MOTOR, THREE-PHASE
- TRANSFORMER, PLAN
- WYE CONNECTION
- DUCT, CELL FLOOR HEADER
- DUCT, UNDERFLOOR JUNCTION BOX
- EARTH GROUND
- JUNCTION BOX
- LADDER CABLE TRAY
- BRANCH CIRCUIT HOMERUN, FROM FIRST DEVICE IN CIRCUIT TO ELECTRICAL PANEL. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN. PROVIDE DEDICATED NEUTRAL FOR ALL CIRCUITS WHERE NEUTRAL IS REQUIRED.
- PULL BOX
- WIREWAY
- RIGID CONDUIT LINE = RC
- DIRECT BURIAL CABLE = DB
- POWER DUCT = P
- HI VOLTAGE SWITCH ON CONCRETE PAD
- LOW VOLTAGE SWITCH ON CONCRETE PAD
- DUAL POWER AND TELECOMMUNICATIONS MANHOLE
- BUSWAY
- FLOOR OUTLET, DATA COMMUNICATION
- OUTLET, DATA COMMUNICATION
- PUSH BUTTON
- DISTRIBUTION PANEL
- LIGHTING PANEL
- PANELBOARD CABINET, FLUSH MOUNTED
- PANELBOARD CABINET, SURFACE MOUNTED
- RECEPTACLE, CLOCK HANGER
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX ON EMERGENCY POWER
- RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, QUADRAPLEX
- RECEPTACLE, DUPLEX FLOOR
- RECEPTACLE, SINGLE
- RECEPTACLE, SINGLE WITH SWITCH
- RECEPTACLE, SPECIAL PURPOSE
  - A = 120V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 5-20R.
  - B = 208V, 20A, 1 PHASE, 2-POLE, 3W, NEMA 6-20R.
  - C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 5-30R.
  - D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.
  - E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.
  - F = 208V, 30A, 3 PHASE, 3-POLE 4W, NEMA 15-30R.
  - G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.
  - H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.
- RECEPTACLE, SWITCHED DUPLEX
- DROP CORD, SINGLE CONVENIENCE OUTLET, 3-WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'-6" [1981mm] AFF. MINIMUM).
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'-6" [1067mm] AFF OR AS INDICATED.

ELECTRICAL SYMBOLS - LIGHTING PLAN

- SWITCH, CEILING MOUNTED PULL
- SWITCH
  - BLANK = SINGLE POLE
  - 3 = THREE-WAY
  - D = DIMMER
  - LV= LOW VOLTAGE
  - LM= LOW VOLTAGE MASTER
  - PB= PUSH BUTTON STATION
  - T = TIMER OPERATED
  - X = EXPLOSION PROOF
  - 2 = DOUBLE POLE
  - 4 = FOUR-WAY
  - K = KEY OPERATED
  - L = LOCK
  - P = WITH PILOT LIGHT
  - RC= REMOTE CONTROL
  - WP= WEATHER PROOF
- SWITCH, LAMP HOLDER POLE
- LIGHT FIXTURE, RECESSED FLUORESCENT, DOWNLIGHT
- LIGHT FIXTURE, RECESSED FLUORESCENT, DOWNLIGHT CONNECTED TO EMERGENCY CIRCUIT.
- LIGHT FIXTURE CEILING MOUNTED
- LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, RECESSED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x4' [610x1220mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x4' [305x1220mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 1'x8' [305x2439mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, FLUORESCENT EMERGENCY; LETTER INDICATES TYPE.
- LIGHT FIXTURE, RECESSED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- LIGHT FIXTURE, SURFACE MOUNTED FLUORESCENT, 2'x2' [610x610mm]; LETTER INDICATES TYPE.
- LIGHT TRACK WITH HEADS AS SHOWN
- LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE.
- LIGHT FIXTURE, STRIP/INDUSTRIAL FLUORESCENT; LETTER INDICATES TYPE. CONNECTED TO EMERGENCY.
- LIGHT FIXTURE, WALL MOUNTED
- LIGHTING, ONE HEAD EMERGENCY BATTERY POWER
- LIGHTING, TWO HEAD EMERGENCY BATTERY POWER
- LIGHTING, THREE HEAD EMERGENCY BATTERY POWER
- STREET LIGHT WITH BRACKET
- LIGHT POLE, ONE MAST ARM, ONE LUMINAIRE
- LIGHT POLE, TWO MAST ARMS, TWO LUMINAIRES
- LIGHT POLE, POST TOP MOUNT LUMINAIRE
- LIGHT POLE, ONE LUMINAIRE
- LIGHT POLE, TWO LUMINAIRES
- LIGHTING, EXTERIOR BUILDING
- EXTERIOR FLOOD LIGHT
- EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- EXIT SIGN, CEILING MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN
- LIGHT FIXTURE, BOLLARD
- LIGHT FIXTURE, DIRECTIONAL
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  - S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  - T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  - D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
- CEILING MOUNTED OCCUPANCY SENSOR/SWITCH

SHEET INDEX

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EP610	PANEL SCHEDULES - ELECTRICAL
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BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
	100% CONSTRUCTION DOCUMENT	1/26/2015
		12/30/14
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	65% DESIGN DEVELOPMENT	6/27/14
	SCHEMATIC DESIGN	3/28/14

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Drawing Title
ELECTRICAL SYMBOLS LISTS AND SHEET INDEX

Approved: Project Director
Approver

Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **E001**
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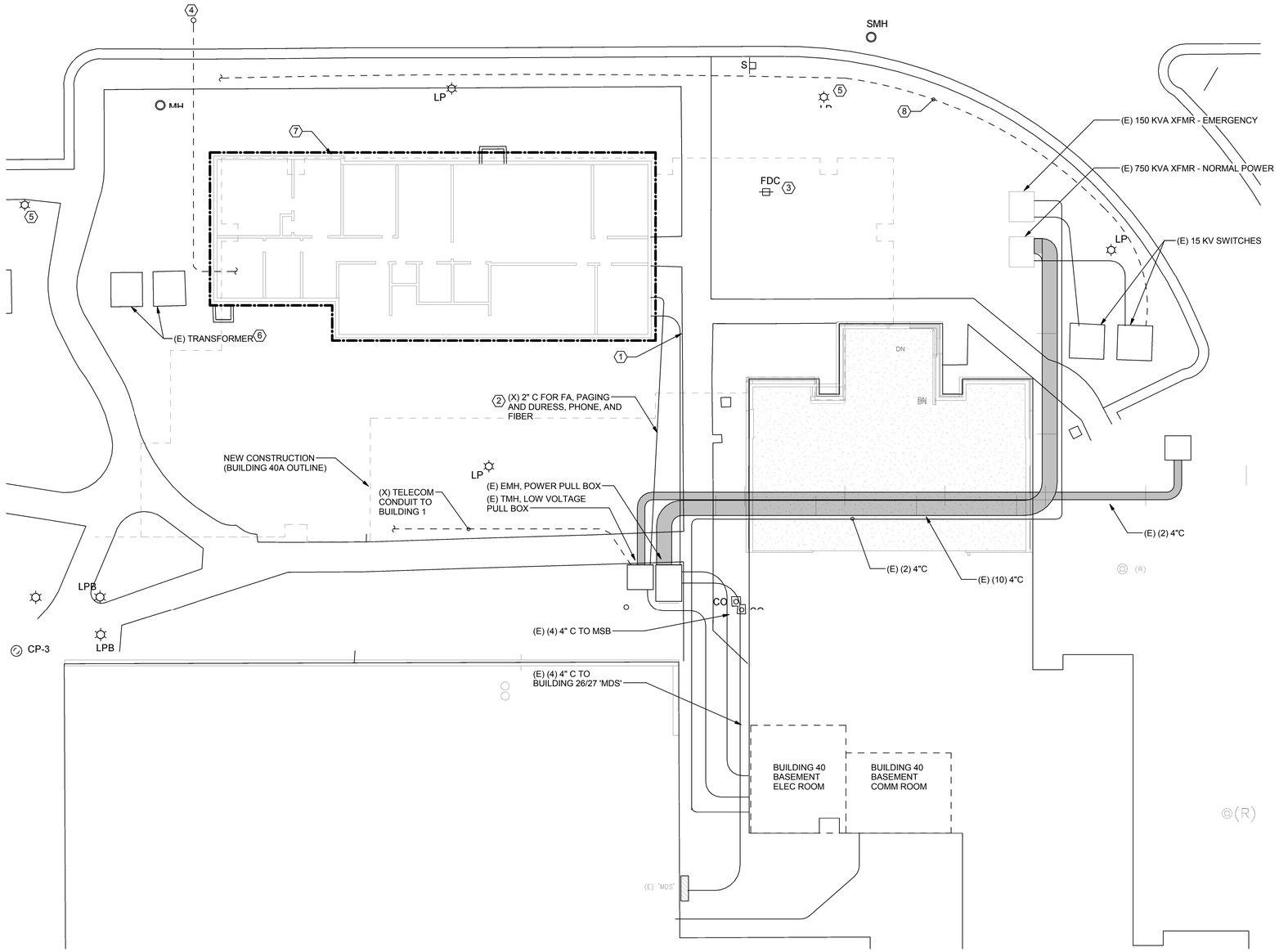

SHEET KEYNOTES

1. DEMOLISH EXISTING POWER SERVICE BACK TO SOURCE TRANSFORMER. RETAIN RACEWAY FOR REUSE WHERE INDICATED. SEE EP601.
2. DEMOLISH RACEWAYS TO LOCATION SHOWN. EXTEND TO NEW ELECTRICAL AND LOW VOLTAGE ROOMS. SEE ES101.
3. DEMOLISH FDC MONITORING CONNECTIONS BACK TO BUILDING 40 COMMUNICATIONS ROOM FOLLOWING INSTALLATION OF NEW FDC AND ASSOCIATED MONITORING CONNECTIONS.
4. INTERCEPT EXISTING FEEDER TO RV STATIONS. ABANDON EXISTING CONDUIT TO BUILDING 8 IN PLACE. REFER TO ES101 FOR CONTINUATION AND MORE INFORMATION.
5. RELOCATE EXISTING SITE LIGHTING POLE. MAINTAIN CIRCUIT CONTINUITY AND EXTEND TO NEW LOCATION AS SHOWN ON ES101.
6. EXISTING TRANSFORMERS TO REMAIN. PROVIDE REQUIRED SHORING AND PROTECTION TO MAINTAIN OPERATION OF EXISTING TRANSFORMERS DURING CONSTRUCTION.
7. BUILDING TO BE COMPLETELY DEMOLISHED. DISCONNECT EXISTING POWER, PHONE, FIBER AND FIRE ALARM CONNECTIONS PRIOR TO BUILDING DEMOLITION. REMOVE CABLING COMPLETE TO SOURCE.
8. EXISTING MEDIUM VOLTAGE CAMPUS FEEDER TO REMAIN. PROTECT FEEDER THROUGHOUT CONSTRUCTION.

TRUE NORTH PLAN NORTH

1 ELECTRICAL SITE DEMOLITION PLAN
1" = 10'-0"

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NOVEMBER/02/2015

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ELECTRICAL SITE DEMOLITION PLAN

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INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

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Drawing Number **ED101**
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DEDUCTIVE ALTERNATE BID AREA #1 CONSTRUCTION NOTES:

1. OMIT ALL LIGHT FIXTURES AND CONTROLS IN AREA INDICATED.
2. PROVIDE STUMBLE LIGHTING VIA 1X4 FLUORESCENT STRIPLIGHTS WITH (2) T8 LAMPS PER FIXTURE. INSTALL ON 12'-0" X 12'-0" GRID.
3. PROVIDE 3-WAY SWITCH AT EACH ENTRY INTO SHELLED SPACE TO CONTROL STUMBLE LIGHTING.

GENERAL SHEET NOTES

A. CONNECT ALL EXIT SIGNS ON THIS FLOOR TO UNSWITCHED CIRCUIT 16 IN EMERGENCY PANEL EL40A1.

SHEET KEYNOTES

1 COORDINATE LIGHTING WITH MECHANICAL EQUIPMENT. COORDINATE WITH MECHANICAL PLANS.

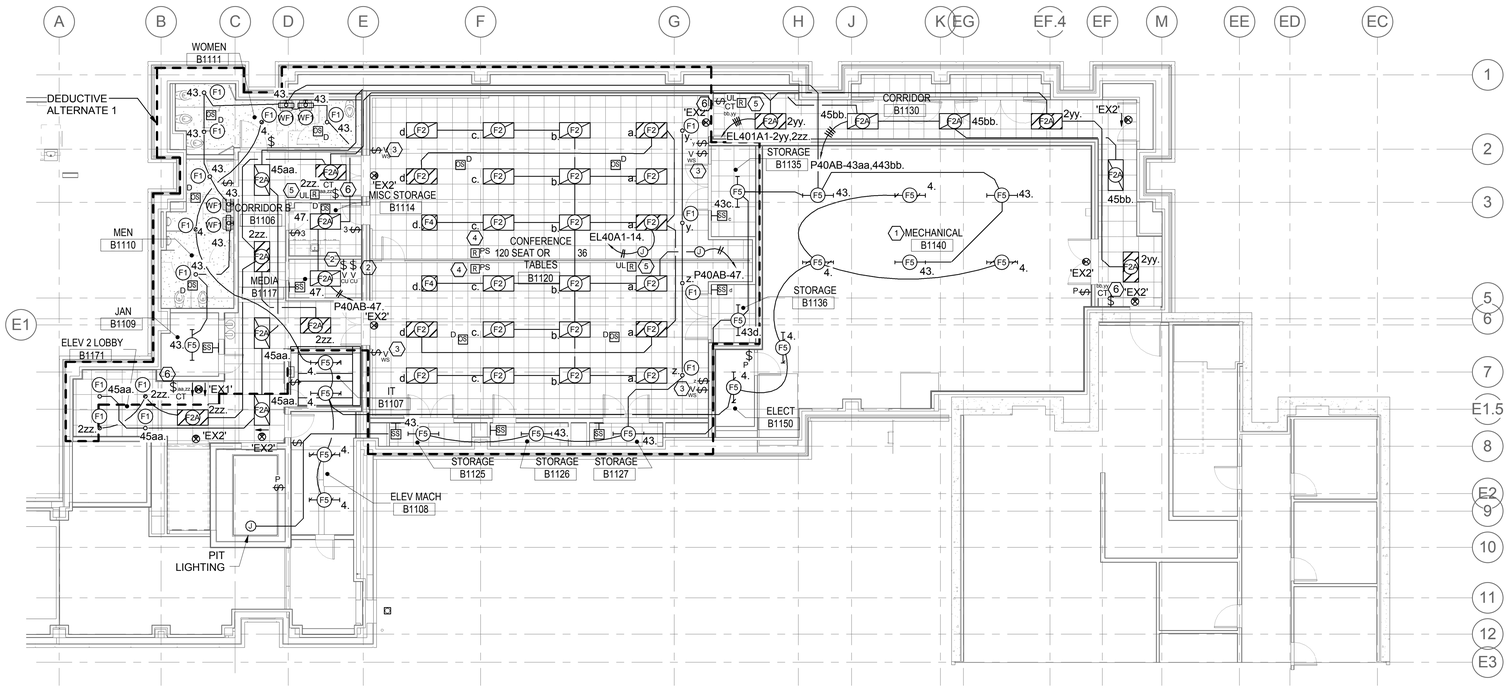
2 PROVIDE LUTRON GRAFIK EYE 3000 SERIES CONTROL UNIT, TYPICAL OF 2, IN MEDIA CONTROL ROOM. REFER TO WIRING DIAGRAM 2/EL100 FOR MORE INFORMATION.

3 PROVIDE LOW VOLTAGE WALL SWITCH STATION, LUTRON NTGRX-SI4S-IR FOR LIGHTING SCENE CONTROL. COORDINATE INSTALLATION LOCATION WITH DROP DOWN PROJECTOR SCREEN. REFER TO WIRING DIAGRAM 2/EL100 FOR MORE INFORMATION.

4 PROVIDE CEILING-MOUNTED PARTITION SENSOR, LUTRON GRX-IRPS-WH. INSTALL ONE SENSOR ON EACH SIDE OF PARTITION, REFER TO WIRING DIAGRAM 2/EL100 FOR MORE INFORMATION.

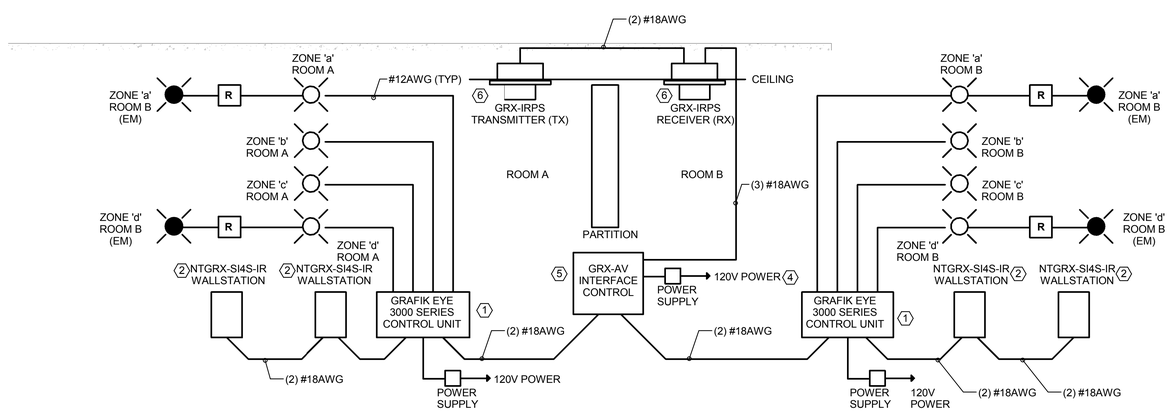
5 PROVIDE UL924 RELAY TRANSFER DEVICE FOR CONTROL OF LIGHT FIXTURES UNDER LOSS OF NORMAL POWER.

6 PROVIDE MOMENTARY TOGGLE SWITCH TO CONTROL ZONES AS INDICATED VIA BUILDING AUTOMATION SYSTEM. COORDINATE INSTALLATION LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO 3/EP501 FOR MORE INFORMATION.



TRUE NORTH PLAN NORTH

1 BASEMENT PLAN - LIGHTING
1/8" = 1'-0"



2 CONF ROOM B1120 - LIGHTING CONTROL DIAGRAM
NOT TO SCALE

DETAIL KEYNOTES

1 LUTRON GRAFIK EYE 3000 SERIES 4-ZONE CONTROL UNIT. PROGRAM TO CONTROL ZONES AS FOLLOWS:
SCENE 1: 100% (ZONES 'a','b','c','d')
SCENE 2: 50% (ZONES 'a','b','c','d)
SCENE 3: AV MODE (ZONE 'a' - OFF; ZONES 'b','c','d' - 50%)
SCENE 4: ALL OFF (ZONES 'a','b','c','d)

2 LUTRON GRAFIK EYE 3000 SERIES 4-BUTTON WALL STATION WITH FACTORY ENGRAVING. BUTTONS TO CONTROL ZONES AS FOLLOWS (FACTORY ENGRAVING)[SCENE CONTROLLED]:
BUTTON 1: (100%) [SCENE 1]
BUTTON 2: (50%) [SCENE 2]
BUTTON 3: (AV MODE) [SCENE 3]
BUTTON 4: (ALL OFF) [SCENE 4]

3 LOCAL OCCUPANCY SENSOR SHALL CONTROL ALL ZONES IN CLASSROOM ('a','b','c','d'). OCCUPANCY SENSOR TO TURN LIGHTS OFF AUTOMATICALLY. LIGHTS SHOULD ALWAYS BE MANUAL ON.

4 PROVIDE CONNECTION TO POWER SUPPLY FROM NEAREST UNSWITCHED, 120V, NORMAL BRANCH CIRCUIT AT EACH PANEL LOCATION.

5 LUTRON GRX-AV CONTACT CLOSURE INTERFACE. INSTALL IN MEDIA CLOSET ADJACENT TO GRAFIK EYE CONTROL UNITS.

6 LUTRON GRX-IRPS-WH INFRARED PARTITION SENSORS.

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Drawing Title
BASEMENT PLAN - LIGHTING

Approved: Project Director
Approver

Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **EL100**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

DEDUCTIVE ALTERNATE BID AREA #2 CONSTRUCTION NOTES:

1. OMIT ALL LIGHT FIXTURES AND CONTROLS IN AREA INDICATED.
2. PROVIDE STUMBLE LIGHTING VIA 1X4 FLUORESCENT STRIPLIGHTS WITH (2) T8 LAMPS PER FIXTURE. INSTALL ON 10'-0" X 12'-0" GRID.
3. PROVIDE 3-WAY SWITCH AT EACH STAIRWELL ENTRY INTO SHELLED SPACE TO CONTROL STUMBLE LIGHTING.
4. PROVIDE CONDUIT PATHWAY AND BACKBOXES FOR ALL DEVICES AND FIXTURE ON IFNISHED WALLS WITHIN DEDUCT AREA.

GENERAL SHEET NOTES

A. CONNECT ALL EXIT SIGNS ON THIS FLOOR TO UNSWITCHED CIRCUIT 18 IN PANEL EL40A1.

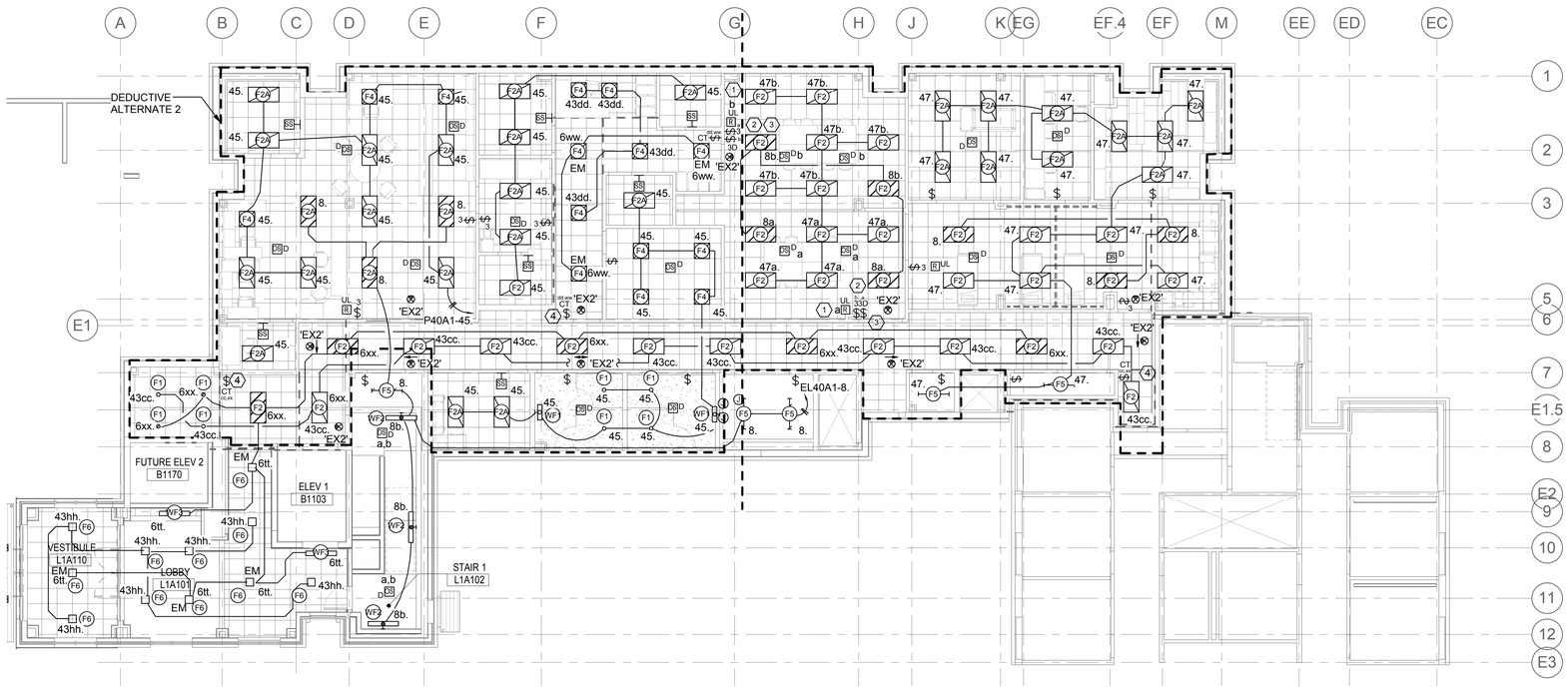
SHEET KEYNOTES

1 PROVIDE UL 924 BYPASS DEVICE FOR CONTROL OF LIGHT FIXTURES INDICATED AS EMERGENCY. REFER TO DETAIL X/XXX FOR MORE INFORMATION.

2 LABEL 3-WAY SWITCH 'OPPOSITE SIDE OF PARTITION' TO INDICATE CONTROLS FOR OTHER SIDE OF ROOM WHEN PARTITION IS CLOSED.

3 PROVIDE 3-WAY DIMMER SWITCH.

4 PROVIDE MOMENTARY TOGGLE SWITCH TO CONTROL ZONES AS INDICATED. COORDINATE INSTALLATION LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO 3/E501 FOR MORE INFORMATION.



TRUE NORTH PLAN NORTH

1 LEVEL 1 PLAN - LIGHTING
1/8" = 1'-0"

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
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	SCHEMATIC DESIGN	3/28/14

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Drawing Title
LEVEL 1 PLAN - LIGHTING

Approved: Project Director
Approver

Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **EL101**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

GENERAL SHEET NOTES

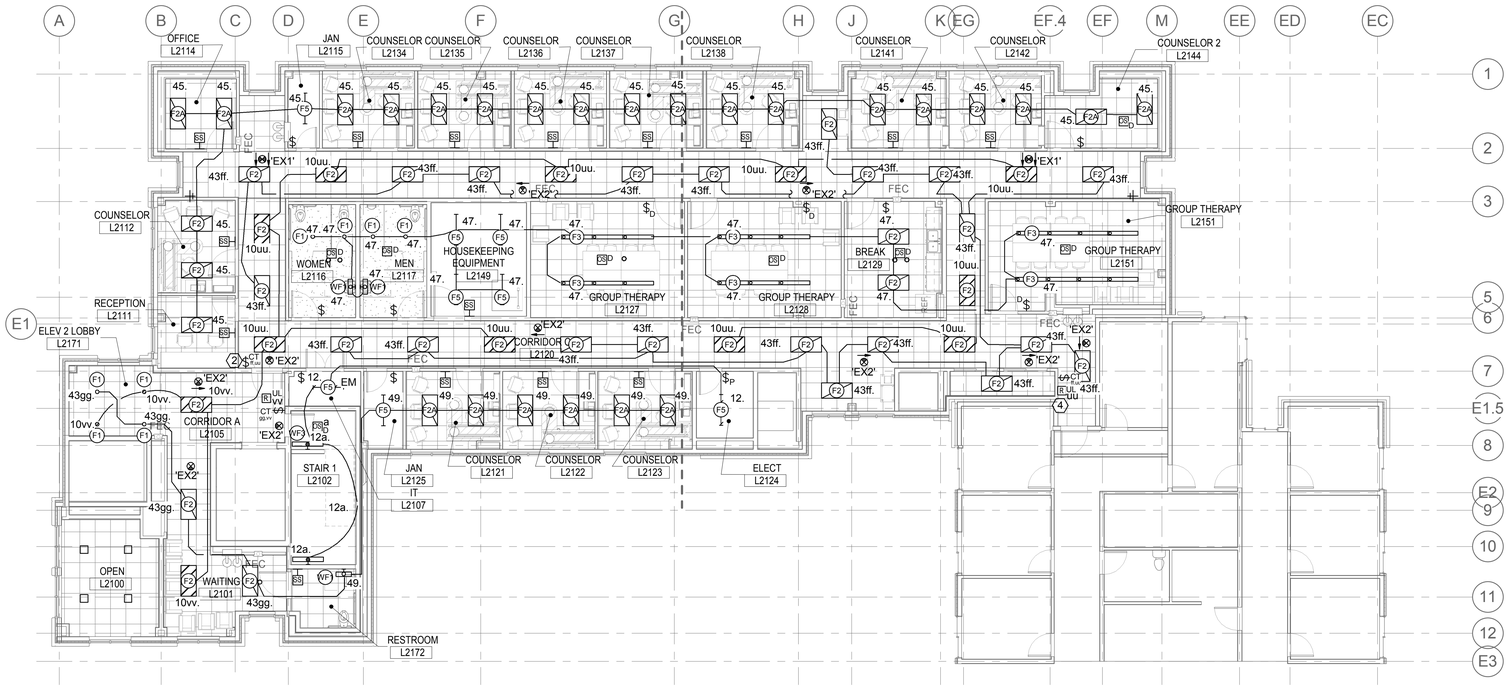
A. CONNECT ALL EXIT SIGNS ON THIS FLOOR TO UNSWITCHED CIRCUIT 20 IN PANEL EL40A1.

SHEET KEYNOTES

CONNECT LUMINAIRES ON NORMAL POWER WITHIN BOUNDARY TO PANEL L40E2. CONNECT LUMINAIRES ON EMERGENCY POWER WITHIN BOUNDARY TO PANEL EL40E1.

1 PROVIDE MOMENTARY TOGGLE SWITCH TO CONTROL ZONES AS INDICATED. COORDINATE INSTALLATION LOCATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO 3/E501 FOR MORE INFORMATION.

2



TRUE NORTH PLAN NORTH

1 LEVEL 2 PLAN - LIGHTING
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BID DOCUMENT
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Drawing Title
LEVEL 2 PLAN - LIGHTING

Approved: Project Director
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Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
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Project Number 668-313
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Drawing Number **EL102**
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LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	BALLAST	LAMP(S)	MANUFACTURERS	VOLTAGE	NOTES
F1	RECESSED LED DOWNLIGHT	NOMINAL 6-INCH APERTURE BY 7-INCH HIGH STEEL	DIFFUSING LENS				INTEGRAL ELECTRONIC DRIVER	NOMINAL 2000 LUMENS, 28 WATTS	GOTHAM EVO SERIES OR APPROVED	120V	
F2	RECESSED LENSED HIGH EFFICIENCY TROFFER WITH HIGH REFLECTANCE WHITE REFLECTOR	NOMINAL 2-FOOT BY 4-FOOT COLD ROLLED STEEL	RIBBED FROSTED ACRYLIC LENS		WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 4000 LUMENS, 40W LED	LITHONIA 2RTLED SERIES OR APPROVED	120V	MINIMUM EFFICIENCY OF 80 PERCENT.
F3	PENDANT MOUNTED DIRECT/INDIRECT SQUARE LINEAR LED	NOMINAL 4-INCH WIDE BY 4-INCH HIGH EXTRUDED ALUMINUM IN LENGTHS AS SHOWN ON DRAWINGS	FROSTED ACRYLIC LENS, SEMI-SPECULAR LOUVER	SUSPENDED WITH AIRCRAFT CABLE AND WHITE CORD FEED	WHITE		INTEGRAL ELECTRONIC DIMMING DRIVER	NOMINAL 4000 LUMENS	LEDALITE SYNC LED OR APPROVED	120V	PROVIDE EMERGENCY BATTERY BACKUP FOR FIXTUES DENOTED AS 'EM'. REFER TO EL SERIES SHEETS.
F4	2'X2' SQUARE LED	NOMINAL 4-INCH WIDE BY 4-INCH HIGH EXTRUDED ALUMINUM IN LENGTHS AS SHOWN ON DRAWINGS		RECESSED	MATTE WHITE		INTEGRAL ELECTRONIC DIMMING DRIVER	NOMINAL 2400 LUMENS	LITHONIA 2RTLED SERIES OR APPROVED	120V	
F5	LOW PROFILE LED STRIPLIGHT	4-FOOT COLD ROLLED STEEL CHANNEL		CHAIN HUNG	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 3000 LUMENS	LITHONIA ZL1N SERIES OR APPROVED	120V	
F6	LARGE SCALE DECORATIVE PENDANT	12' X 12" X 29" ALUMINUM	ETCHED OPAL ACRYLIC	PENDANT MOUNT	BRUSHED ALUMINUM		INTEGRAL ELECTRONIC DRIVER	NOMINAL 3185 LUMENS, 666.5 WATTS	WINONA 5830 LED OR APPROVED.	120V	
WF1	WALL MOUNTED LENSED FLUORESCENT	NOMINAL 2.5-INCH WIDE BY NOMINAL 2.75-INCH HIGH BY 28-INCH LONG DIE-FORMED STEEL CHANNEL	PRISMATIC ACRYLIC	WALL MOUNTED	SATIN NICKEL		INTEGRAL ELECTRONIC DRIVER	TWO 8.9W LED ARRAYS	OXYGEN APOLLO LED OR APPROVED	120V	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
WF2	WALL MOUNTED LENSED FLUORESCENT	NOMINAL 7.5-INCH WIDE BY NOMINAL 3.5-INCH HIGH BY 4-FOOT LONG DIE-FORMED STEEL CHANNEL	PRISMATIC ACRYLIC	WALL MOUNTED	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 4000 LUMENS	LITHONIA WL4 SERIES OR APPROVED.	120V	PROVIDE WITH INTEGRAL BATTERY BACKUP. COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
WF3	WALL MOUNTED LENSED FLUORESCENT	NOMINAL 4'-0" X 4-3/4" EXTRUDED ALUMINUM.	MATTE WHITE OPAL ACRYLIC	WALL MOUNTED	WHITE		INTEGRAL ELECTRONIC DRIVER	NOMINAL 2300 LUMENS	GAMMALUX G-BEAM SERIES OR APPROVED	120V	
SF1	WET LOCATION 6" SQUARE DOWNLIGHT	NOMINAL 6-INCH APERTURE BY 7-INCH HIGH STEEL	DIFFUSING LENS	RECESSED			INTEGRAL ELECTRONIC DRIVER	NOMINAL 2000 LUMENS, 28 WATTS	GOTHAM EVO SERIES OR APPROVED	120V	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS
SF2	HIGH PERFORMANCE WALL SCONCE	16" X 9" X 7" DIE CAST ALUMINUM.	POLYCARBONATE	WALL MOUNTED	AS SELECTED BY ARCHITECT		INTEGRAL ELECTRONIC DRIVER	NOMINAL 4,158 LUMENS, 55 WATTS	GARDCO 100 LINE LED OR APPROVED	120V	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS

NOTES:

1. THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2. FLUORESCENT BALLASTS: UNIVERSAL VOLTAGE, PROGRAM START WITH END-OF-LIFE PROTECTIVE CIRCUITRY.
3. DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
4. T8 LAMPS: NOMINAL 4 FOOT LAMPS TO HAVE INITIAL 3100 LUMENS. MINIMUM 36000 HOURS RATED LIFE ON 3 HOUR SWITCHING CYCLE AND 42000 HOURS ON 12 HOUR SWITCHING CYCLE.
5. FLUORESCENT LAMPS TO HAVE 4100K COLOR TEMPERATURE AND 85+ CRI FOR LINEAR LAMPS AND 82+ CRI FOR COMPACT FLUORESCENT LAMPS UNLESS OTHERWISE NOTED.
6. PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
7. COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
8. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
9. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND BALLAST INFORMATION OF EACH LUMINAIRE. WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
10. REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.
11. PROVIDE COMMISSIONING OF THE LIGHTING IN ACCORDANCE WITH THE WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE 1513.7.

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
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Drawing Title
LUMINAIRE SCHEDULE

Approved: Project Director
Approver

Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **EL601**
Dwg. of

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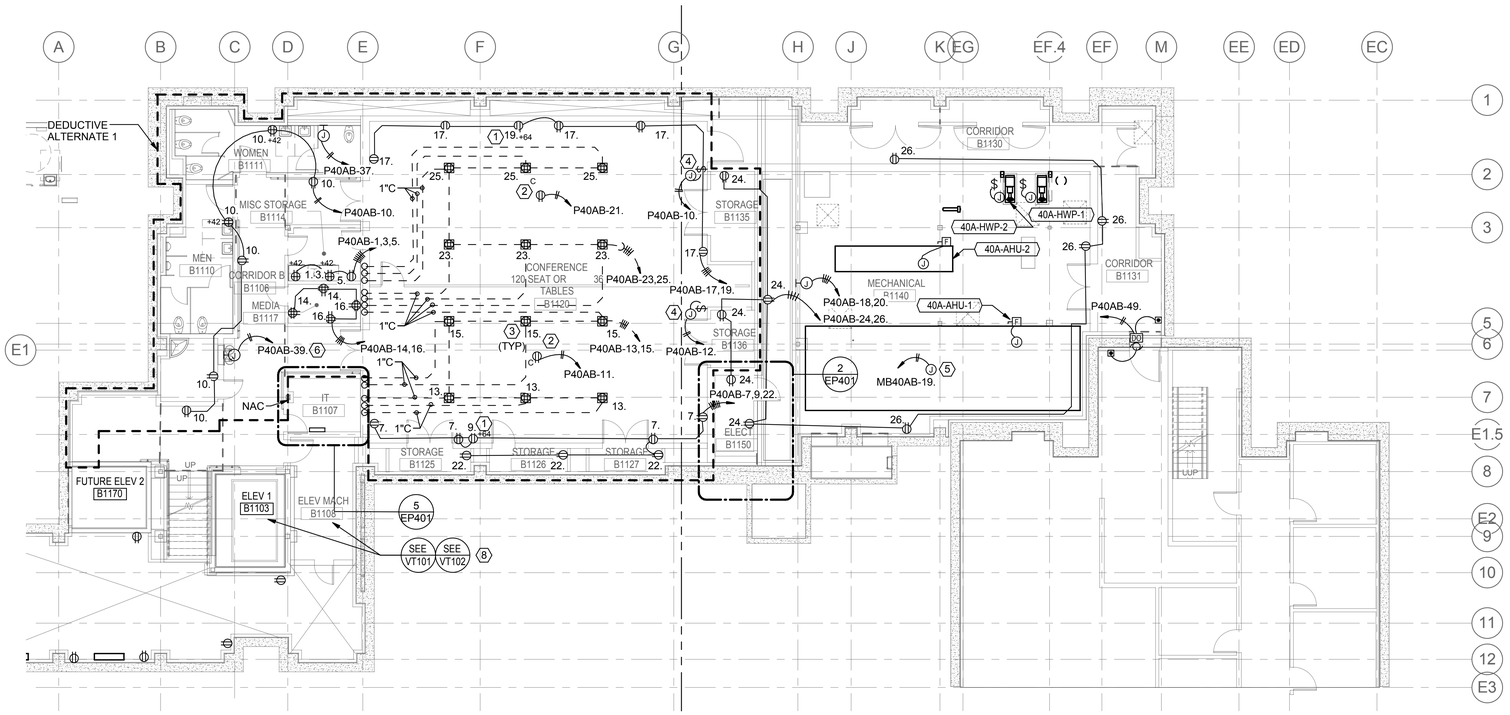
Department of Veterans Affairs

DEDUCTIVE ALTERNATE BID AREA #1 CONSTRUCTION NOTES:

1. OMIT ALL POWER DEVICES AND ASSOCIATED CIRCUITS AND PATHWAY IN AREA INDICATED.

SHEET KEYNOTES

1. PROVIDE DEDICATED RECEPTACLE FOR OFCI SMARTBOARD. INSTALL ADJACENT TO DATA OUTLET SHOWN ON TECHNOLOGY PLAN. COORDINATE INSTALLATION LOCATION AND ELEVATION WITH ARCHITECTRUAL ELEVATIONS AND PLANS PRIOR TO ROUGH-IN.
2. PROVIDE DEDICATED RECEPTACLE FOR OFCI PROJECTOR. INSTALL ADJACENT TO DATA OUTLET SHOWN ON TECHNOLOGY PLAN. COORDINATE INSTALLATION LOCATION WITH ARCHITECTRUAL PLANS PRIOR TO ROUGH-IN.
3. TYPICAL OF 12 ON THIS SHEET, PROVIDE COMBINATION POWER/DATA RECESSED FLOORBOX (WIREMOLD RFB4 SERIES OR EQUAL). PROVIDE LID AND TRIM TO ENSURE INSTALLATION IS FLUSH WITH FINISHED FLOOR. CONFIRM FLOOR TYPE PRIOR TO ORDERING.
4. PROVIDE ELECTRICAL CONNECTION FOR PROJECTOR SCREEN. PROVIDE TOGGLE SWITCH FOR CONTROL OF PROJECTION SCREEN. COORDINATE REQUIREMENTS WITH OWNER.
5. PROVIDE 120V CIRCUIT FOR AIR HANDLER UNIT LIGHTING AND RECEPTACLES.
6. PROVIDE GFCI TYPE CIRCUIT BREAKER IN PANEL INDICATED.
7. PROVIDE 120V CONNECTION FOR AUTOMATIC FLUSH VALVES. COORDINATE REQUIREMENTS WITH PLUMBING PLANS.
8. REFER TO VT SERIES DRAWINGS FOR ELEVATOR EQUIPMENT REQUIREMENTS AND LOCATIONS. REFER TO PANEL SCHEDULES FOR CIRCUIT REQUIREMENTS.



TRUE NORTH PLAN NORTH

1 BASEMENT PLAN - POWER
1/8" = 1'-0"

BID DOCUMENT
NOVEMBER/02/2015

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Drawing Title: **BASEMENT PLAN - POWER**

Approved: Project Director: **Approver**

Project Title: **INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING**
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location: SPOKANE, WASHINGTON 99205

Issue Date: **11/02/2015** | Checked: **JRS** | Drawn: **IEI**

Project Number: 668-313
Building Number: 40A
Drawing Number: **EP100**
Dwg. of

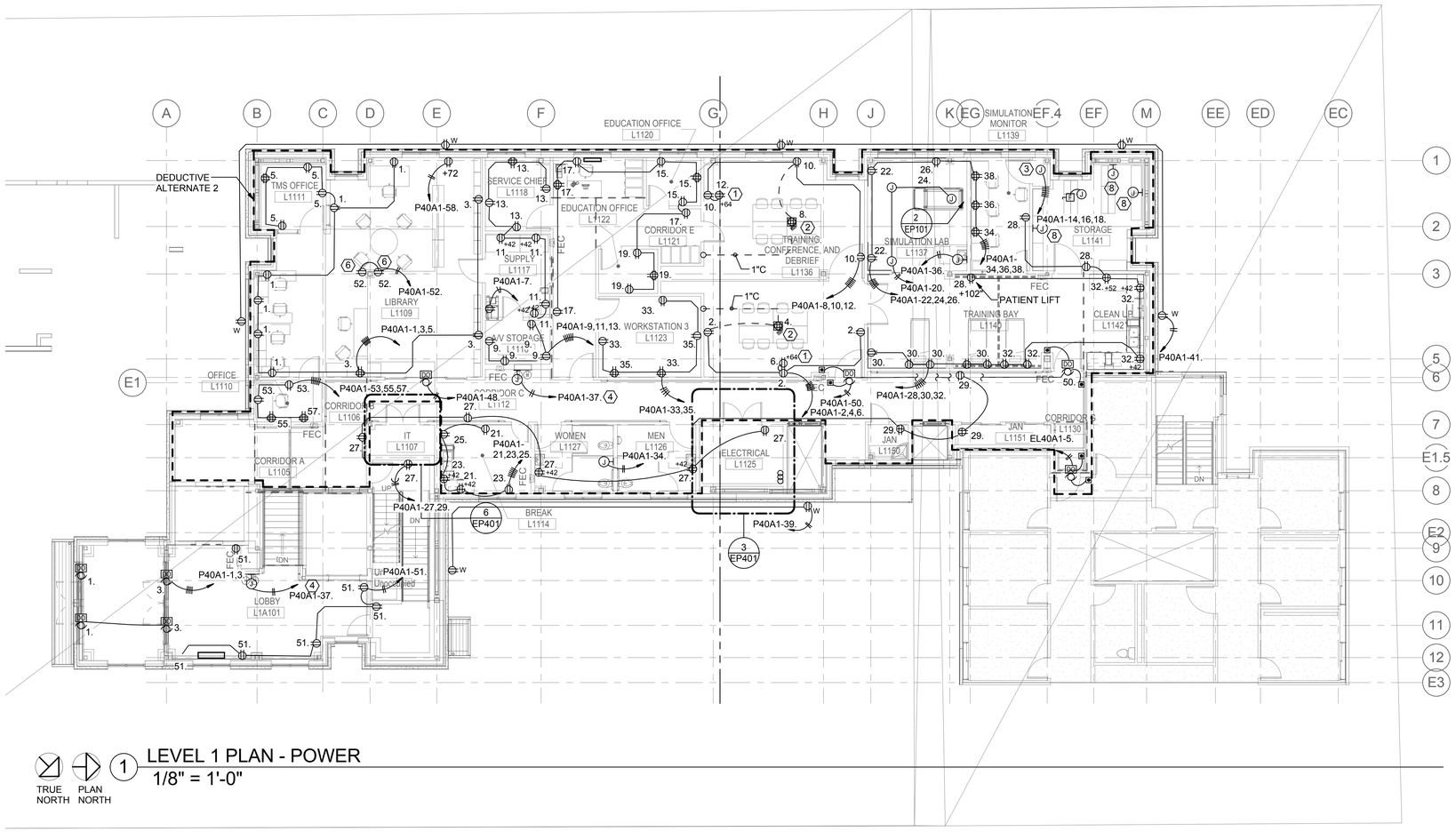
Office of Construction and Facilities Management
Department of Veterans Affairs

DEDUCTIVE ALTERNATE BID AREA #2
CONSTRUCTION NOTES:

1. OMIT ALL POWER DEVICES AND ASSOCIATED CIRCUITS AND PATHWAY IN WALLS NOT BEING BUILT AS PART OF DEDUCT.
2. PROVIDE CONDUIT PATHWAY AND BACKBOXES FOR ALL DEVICES ON FINISHED WALLS WITHIN DEDUCT AREA.
3. PROVIDE CONVENIENCE RECEPTACLE AT LOCATIONS IN FINSHED WALLS WITHIN DEDUCT AREA SPACED APPROXIMATELY 50'-0" APART.

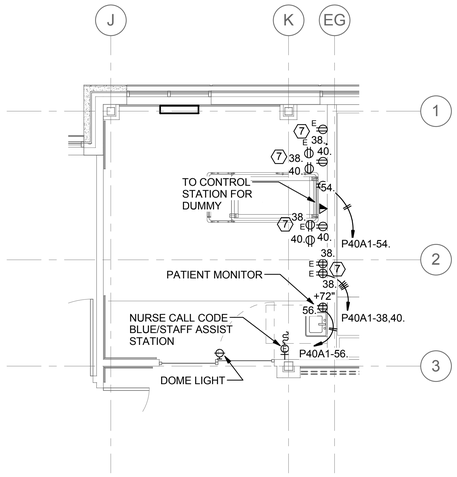
SHEET KEYNOTES

1. PROVIDE DEDICATED RECEPTACLE FOR OFCI SMARTBOARD. INSTALL ADJACENT TO DATA OUTLET SHOWN ON TECHNOLOGY PLAN. COORDINATE INSTALLATION LOCATION AND ELEVATION WITH ARCHITECTRUAL ELEVATIONS AND PLANS PRIOR TO ROUGH-IN.
2. PROVIDE COMBINATION POWER/DATA POKE-THRU DEVICE (WIREMOLD 6ATC SERIES OR EQUAL). PROVIDE LID AND TRIM TO ENSURE INSTALLATION IS FLUSH WITH FINISHED FLOOR. CONFIRM FLOOR TYPE PRIOR TO ORDERING.
3. PROVIDE CIRCUITS AS INDICATED FOR OWNER FURNISHED EQUIPMENT. COORDINATE REQUIREMENTS WITH OWNER.
4. PROVIDE GFCI TYPE CIRCUIT BREAKER IN PANEL INDICATED.
5. PROVIDE 120V CONNECTION FOR AUTOMATIC FLUSH VALVES. COORDINATE REQUIREMENTS WITH PLUMBING PLANS.
6. PROVIDE 1-1/2" DEEP BACKBOX FOR RECEPTACLE.
7. PROVIDE RED DUPLEX RECEPTACLE. LABEL 'FOR SIMULATION ONLY'.
8. PROVIDE JUNCTION BOX WITH BLANK FACEPLATE TO MATCH BUILDING STANDARDS AND CONDUIT TO ACCESSIBLE CEILING SPACE FOR FUTURE RECEPTACLES.



TRUE NORTH PLAN NORTH

1 LEVEL 1 PLAN - POWER
1/8" = 1'-0"



2 SIM LAB HEADWALL ENLARGED PLAN
1/4" = 1'-0"

BID DOCUMENT
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Drawing Title
LEVEL 1 PLAN - POWER

Approved: Project Director
Approver

Project Title
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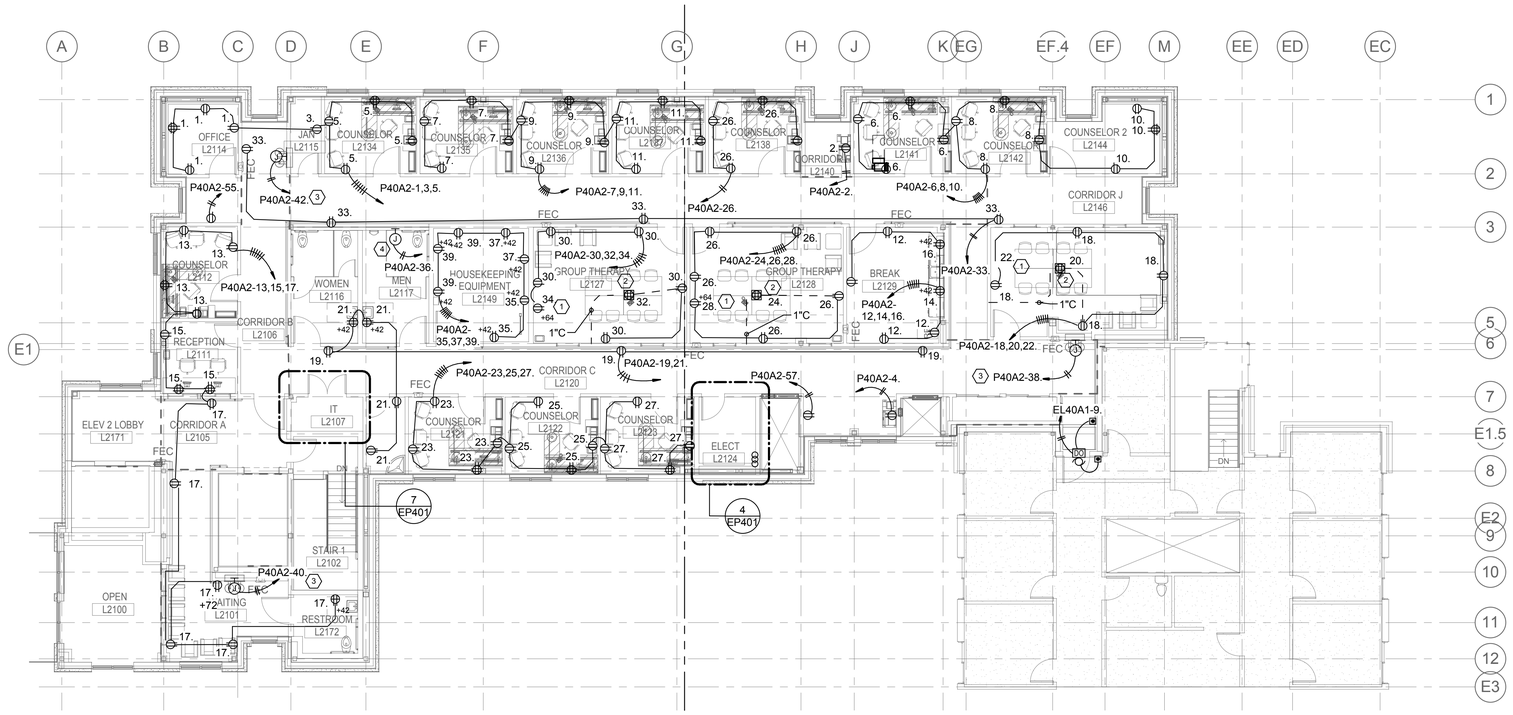

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3. PROVIDE GFCI TYPE CIRCUIT BREAKER IN PANEL INDICATED.
4. PROVIDE 120V CONNECTION FOR AUTOMATIC FLUSH VALVES. COORDINATE REQUIREMENTS WITH PLUMBING PLANS.

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Drawing Title
LEVEL 2 PLAN - POWER

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Drawing Number **EP102**
Dwg. of

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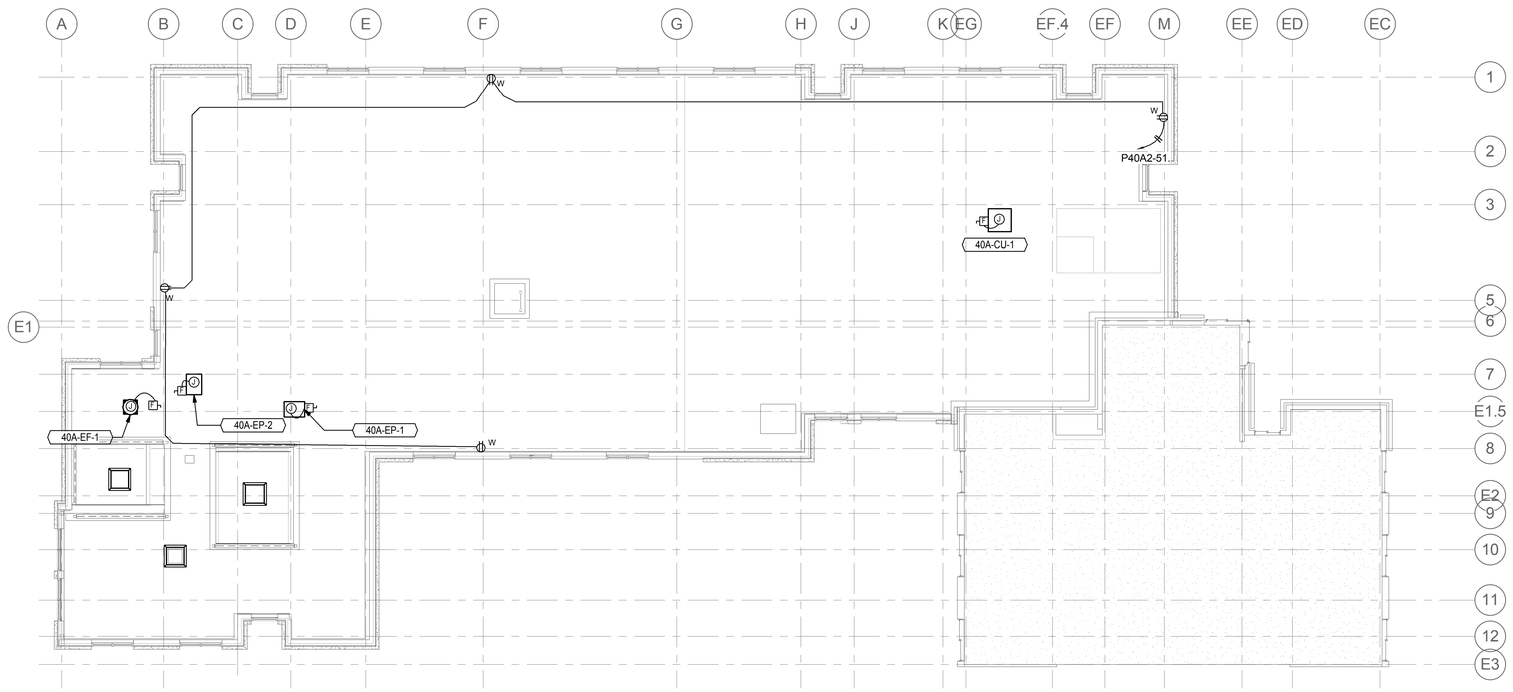
GENERAL SHEET NOTES

A REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR SPECIFIC REQUIREMENTS FOR EQUIPMENT SHOWN. COORDINATE INSTALLATION LOCAIONS WITH MECHANICAL PLANS.



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Drawing Title
ROOF PLAN - POWER

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Approver

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Project Number 668-313
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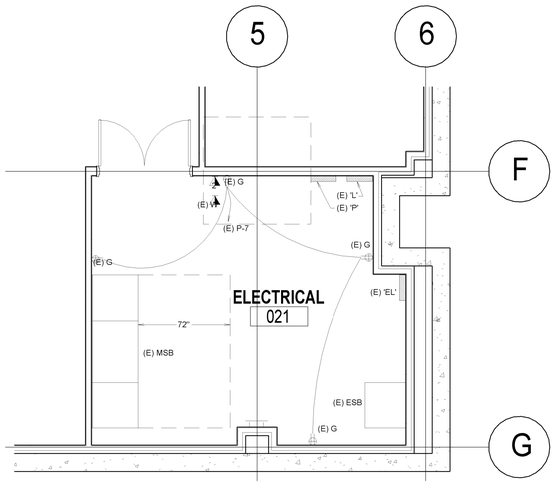
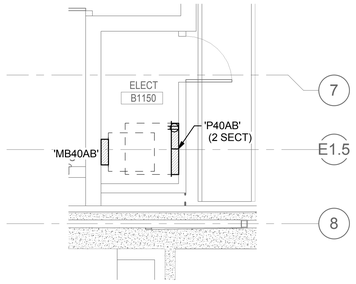
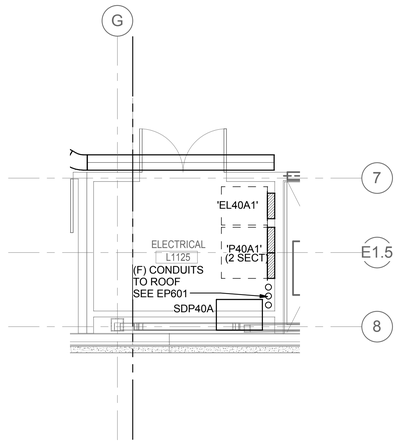
Office of Construction and Facilities Management
Department of Veterans Affairs



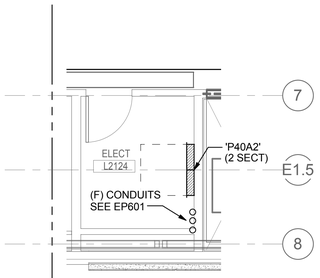
1 BUILDING 40 MAIN ELECTRICAL ROOM
1/4" = 1'-0"



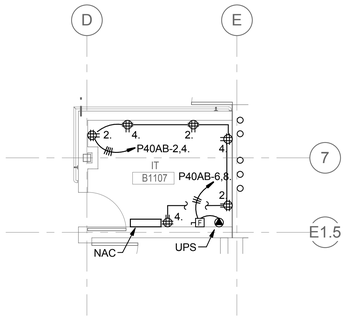
2 BASEMENT PLAN - ELECTRICAL ROOM
1/4" = 1'-0"



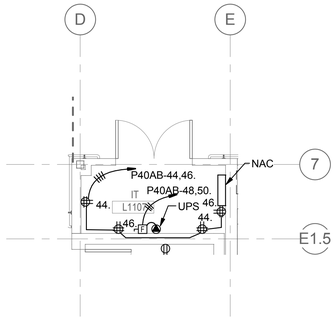
3 LEVEL 1 PLAN - ELECTRICAL ROOM
1/4" = 1'-0"



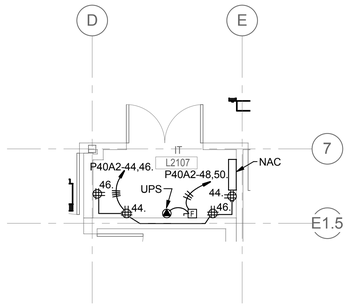
4 LEVEL 2 PLAN - ELECTRICAL ROOM
1/4" = 1'-0"



5 ENLARGED PLAN - IT B1107
1/4" = 1'-0"



6 ENLARGED PLAN - IT L1107
1/4" = 1'-0"



7 ENLARGED PLAN - IT L2107
1/4" = 1'-0"

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
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	99% CONSTRUCTION DOCUMENT	12/17/14
	95% CONSTRUCTION DOCUMENT	10/13/14
	65% DESIGN DEVELOPMENT	6/27/14
	SCHEMATIC DESIGN	3/28/14

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Drawing Title
ENLARGED POWER PLANS

Approved: Project Director
Approver

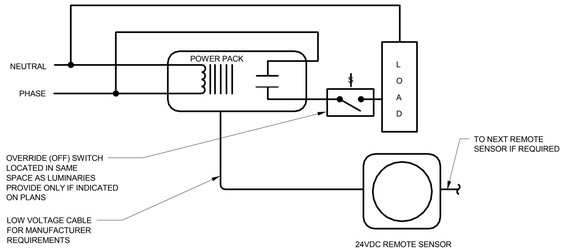
Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

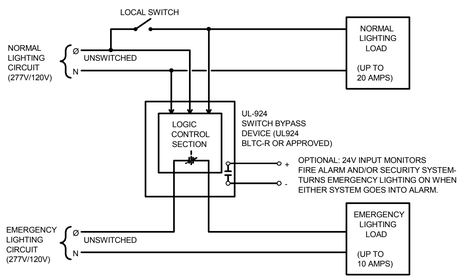
Project Number 668-313
Building Number 40A
Drawing Number **EP401**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs



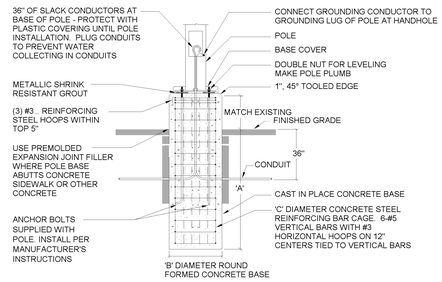
1 CEILING MOUNTED OCCUPANCY SENSOR DETAIL

No Scale



2 UL924 RELAY BYPASS DEVICE SCHEMATIC

No Scale



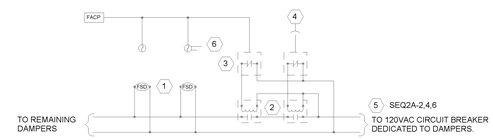
NOTE:
CONDUCTORS THROUGH POLE TO LUMINAIRE TO BE RATED 90° C

BASE DIMENSIONS	POLE HEIGHT			
	UP TO 15'	UP TO 22'	UP TO 35'	UP TO 40'
'A'	4'- 0"	4'- 0"	6'- 0"	7'- 0"
'B'	18"	24"	24"	24"
'C'	14"	20"	20"	20"

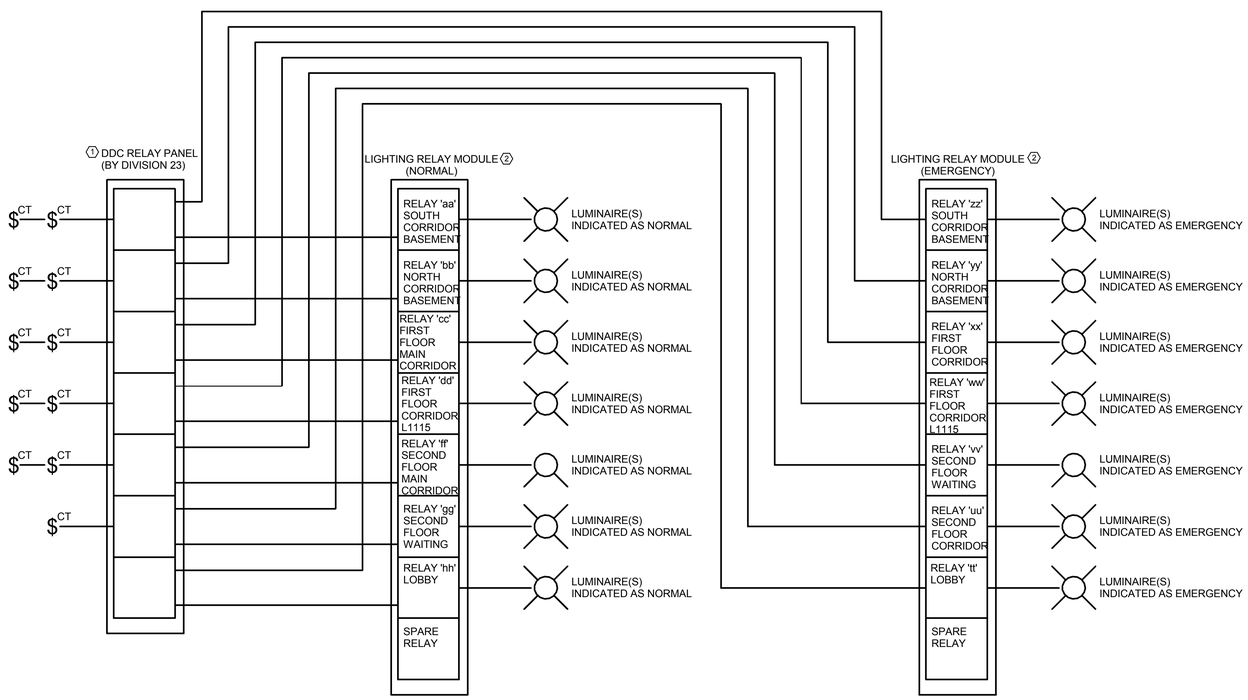
4 SITE LUMINAIRE POLE BASE DETAIL
NO SCALE

NOTES THIS DETAIL

1. FIRE/SMOKE DAMPER OR SMOKE DAMPER ASSEMBLY.
2. PROVIDE RELAY TO INTERRUPT FIRE/SMOKE DAMPER CIRCUIT UPON SIGNAL FROM FIRE ALARM SYSTEM OR BUILDING AUTOMATION SYSTEM. COORDINATE WITH HVAC CONTROLS FOR ANY REQUIRED DELAY TO PREVENT DAMAGE TO DUCTWORK.
3. FIRE ALARM ADDRESSABLE RELAY. PROGRAM TO OPEN CIRCUIT AND CLOSE DAMPERS UPON ACTIVATION OF SMOKE DETECTION SYSTEM.
4. DIGITAL OUTPUT FROM BUILDING AUTOMATION SYSTEM AND CONTROL RELAY BY DIVISION 23.
5. PROVIDE SEPARATE ZONE FOR EACH AIR HANDLING UNIT.
6. PROVIDE 10 RELAYS FOR FIRE ALARM CONTROL OF DAMPERS. COORDINATE WITH FIRE ALARM DESIGN BUILD CONTRACTOR AND MECHANICAL CONTROL'S CONTRACTOR.



5 FIRE SMOKE DAMPER DETAIL
NO SCALE



3 LIGHTING CONTROL RELAY WIRING SCHEMATIC

NOT TO SCALE

DETAIL KEYNOTES

1. COORDINATE WIRING TERMINATIONS WITH DIVISION 23 CONTROLS CONTRACTOR.
2. PROVIDE LIGHTING CONTROL RELAYS (GE RR-7 OR EQUAL).

SEQUENCE OF OPERATIONS

A. THE FOLLOWING MINIMUM CONTROL SEQUENCES SHALL BE PROGRAMMED FOR ALL PUBLIC SPACE AND CORRIDORS:

1. INTERIOR BUILDING 'ON' SEQUENCE: AT 6:00AM THE SYSTEM SHAL TURN ALL PUBLIC SPACE AND CORRIDOR LIGHTS 'ON'.
2. INTERIOR BUILDING 'OFF' SEQUENCE: AT 7:55PM WARN BY BLINKING THE LIGHTS. PROVIDE A 5 MINUTE TIME DELAY. IF NO OVERRIDES ARE ACTIVATED BY 8:00PM, TURN ALL NON-EMERGENCY LIGHTS 'OFF' IN ALL PUBLIC SPACES AND CORRIDORS. IF AN OVERRIDE IS ACTIVATED, LEAVE THE LIGHTING 'ON' IN THE ZONE THE OVERRIDE IS ACTIVATED.
   a. THIS CYCLE SHALL BE INITIATED EVERY HOUR ON THE HOUR AFTER 9:00PM UNTIL 6:00AM THE FOLLOWING DAY.
   b. AFTER THE 'OFF' SEQUENCE IS INITIATED, ACTIVATION OF ANY OVERRIDE SHALL TURN THE LIGHTS 'ON' WITHIN THAT CONTROL ZONE.
3. INTERIOR 'ON' OVERRIDES SHALL OCCUR VIA LOCAL 'ON' ONLY OVERRIDE SWITCHES AS SHOWN ON PLANS. THE 'ON' OVERRIDES SHALL BE DISABLED DURING THE INTERIOR 'ON' SEQUENCE. DURING THE INTERIOR 'OFF' SEQUENCE THE OVERRIDE SWITCHES SHALL BE ENABLED TO ALLOW ACTIVATION OF LIGHTING IN PUBLIC SPACES. ONLY LIGHTIS IN A RESPECTIVE ZONE SHALL BE ACITVATED BY LOCAL OVERRIDE SWITCHES.

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
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	SCHEMATIC DESIGN	3/28/14

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Drawing Title
DETAILS - ELECTRICAL

Approved: Project Director
Approver

Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **EP501**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

FEEDER SCHEDULE

Key

C, S, X — C = Conduit only; S = Service secondary; X = Separately derived system

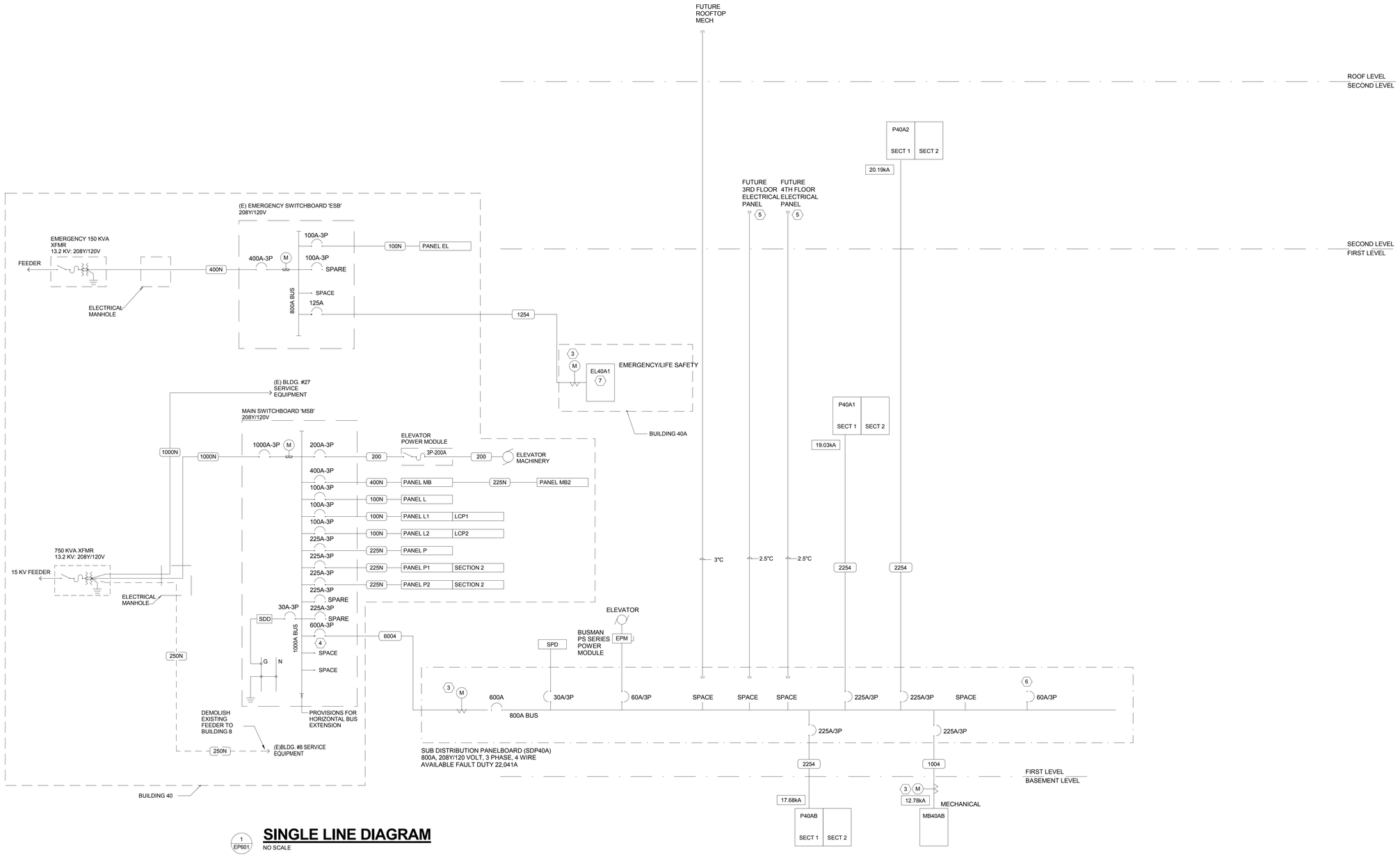
203	3 #12 CU, 1 #12 CU GND., IN 3/4" C.
403	3 #8 CU, 1 #10 CU GND., IN 3/4" C.
404	4 #8 CU, 1 #10 CU GND., IN 3/4" C.
603	3 #4 CU, 1 #10 CU GND., IN 1" C.
1003	3 #1 CU, 1 #8 CU GND., IN 1-1/4" C.
1004	4 #1 CU, 1 #8 CU GND., IN 1-1/2" C.
1253	3 #1 CU, 1 #6 CU GND., IN 1-1/4" C.
1254	4 #1 CU, 1 #6 CU GND., IN 1-1/2" C.
1254X	4 #1 CU, 1 #6 CU GND., IN 1-1/2" C.
1504	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2-1/2" C.
2254X	4 #4/0 CU, 1 #2 CU GND., IN 2-1/2" C.
3003	3 - 350 kcmil CU, 1 #4 CU GND., IN 2-1/2" C.
4004	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
6004	2 SETS OF (4 - 350 kcmil CU, 1 #1 CU GND., IN 3" C.)
8004	3 SETS OF (4 - 300 kcmil CU, 1 #1/0 CU GND., IN 3" C.)
1600S	5 SETS OF (4 - 400 kcmil CU THWN-2 IN 3" C.)

GENERAL SHEET NOTES

A. PROVIDE CODE REQUIRED LABELING AND SIGNAGE AS OUTLINE IN THE 2011 NEC ARTICLE 690.
B. PV MODULE NEGATIVE LEADS NOT SHOWN. PV SYSTEM IS NEGATIVELY GROUNDED.
C. PV INVERTERS AND COMBINER PANEL LOCATED IN FIRST FLOOR ELECTRICAL ROOM.

SHEET KEYNOTES

1. PROVIDE SINGLE ETHERNET OUTLET FOR LAN INTER-TIE POINT FEED FROM NEAREST TELECOM ROOM/SWITCH.
2. PROVIDE 25% SPARE SPACE PER VA STANDARDS.
3. PROVIDE SMART METERS MEETING CAMPUS STANDARD.
4. PROVIDE NEW 800AF/600AT CIRCUIT BREAKER. NEW BREAKER SHALL MATCH EXISTING IN TYPE AND AIC RATING.
5. STUB FEEDER CONDUITS FOR FUTURE ELECTRICAL PANELS IN 2ND FLOOR ELECTRICAL ROOM .
6. PROVIDE SPARE BREAKER FOR FUTURE ELEVATOR.
7. PROVIDE PANEL WITH DOUBLE LUGS.



(PNL XXXXX) EXISTING PANEL DESIGNATION TO BE CHANGED TO NEW DESIGNATION

PANEL DESIGNATION

E(LS) 86 D H 1 1 A
- A-SEC 1, B-SEC. (MULTI-SECTION PANELS)
- PANEL NUMBER
- FLOOR NUMBER -1-1ST,2-2ND,3-3RD,B-BASEMENT,A-ATTIC
- VOLTAGE H-480V,L-208V.
- D-DIST. BOARD, P-PANEL, SD-SERVICE DIST. BOARD
- BUILDING NUMBER
- INDICATES EMERGENCY (LIFE SAFETY)

LEGEND

- OWNER DIGITAL METER. E-MON/D-MON GREEN CLASS METER. INCLUDE ALL REQUIRED SOFTWARE. WWW.EMON.COM
- NEW
- EXISTING
- DEMO

1 EP601 **SINGLE LINE DIAGRAM**
NO SCALE

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
	100% CONSTRUCTION DOCUMENT	1/26/2015
		12/30/14
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11/02/15

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Drawing Title: **SINGLE LINE POWER DIAGRAM**

Approved: Project Director: **Approver**

Project Title: **INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING**
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location: SPOKANE, WASHINGTON 99205

Issue Date: **11/02/2015** | Checked: **JRS** | Drawn: **IEI**

Project Number: 668-313
Building Number: 40A
Drawing Number: **EP601**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

LOAD SUMMARY

AT EXISTING MAIN SWITCHBOARD 'MSB'.

MAXIMUM 12-MONTH PEAK DEMAND WAS 51.78 KW, AS PER EQUIPMENT METER

(E) MAXIMUM DEMAND:	51.78	KW
+25% SAFETY FACTOR:	64.73	KVA
+ADDED (NEW) DEMAND LOAD:	176.45	KVA
TOTAL NEW DEMAND LOAD:	241.18	KVA
TOTAL AMPS (208V, 3PHASE):	669.45	AMPS

Switchboard 'SDP40A'

2013-0512

Available Fault: 11518A RMS

Load No.	Description / Location	Note	Load (VA)	Load Type
1	Panel 'P40AB' Sect 1		13,086	S
-	---		10,356	S
-	---		7,930	S
2	Panel 'P40A1' Sect 1		11,836	S
-	---		11,736	S
-	---		11,550	S
3	Panel 'P40A2' Sect 1		12,936	S
-	---		13,056	S
-	---		12,560	S
4	Panel 'MB40AB'		5,605	S
-	---		5,225	S
-	---		5,585	S
5	40A AHU-1 SUPPLY FAN		11,040	M
-	---		11,040	M
-	---		11,040	M
6	40A AHU-1 RETURN FAN		3,864	M
-	---		3,864	M
-	---		3,864	M
7	ELEVATOR 1		11,040	M
-	---		11,040	M
-	---		11,040	M
8				
-				
-				
9				
-				
-				
10				
-				
-				
11				
-				
-				
12				
-				
-				
13				
-				
-				
14				
-				
-				

Total Connected Load:	Ph A	69,407	VA	578	Amps
Total Connected Load:	Ph B	66,317	VA	552	Amps
Total Connected Load:	Ph C	63,569	VA	529	Amps
Total Connected Load:		208.2	**KVA**	578.0	**Amps**
Total Demand Load:		177.7	**KVA**	493.2	**Amps**

NOTES:
1.
2.
3.
4.
5.

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	0.00	24.42	24.42	100%	24.42 KVA
L	Lighting	0.00	10.91	10.91	125%	13.64 KVA
R	Receptacles - to 10 KVA	0.00	30.00	10.00	100%	10.00 KVA
	over 10 KVA		17.40	37.40	50%	18.70 KVA
K	Kitchen	0.00	0.00	0.00	100%	0.00 KVA
H	Heating	0.00	3.39	3.39	100%	3.39 KVA
M	Motors	44.71	21.42	66.14	100%	66.14 KVA
LM	Largest Motor	33.12	0.00	33.12	125%	41.40 KVA
WH	Water Heater	0.00	0.00	0.00	125%	0.00 KVA
C	Continuous General Load	0.00	0.00	0.00	125%	0.00 KVA
					Total:	177.68 **KVA**

Panel 'P40AB' Sect 1

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	KITCHENETTE B1114	900	R	20/1		A		20/1	1,080	R	R - IT B1107	2
3	KITCHENETTE B1114	360	R	20/1		B		20/1	1,080	R	R - IT B1107	4
5	KITCHENETTE B1114	180	R	20/1		C		20/2	1,050	G	IT B1107 UPS UNIT	6
7	R - B1120 EAST	900	R	20/1		A		---	1,050	G	---	8
9	B1120 SMART BOARD EAST	500	G	20/1		B		20/1	500	G	PROJECTOR SCREEN B1120	10
11	B1120 PROJECTOR EAST	180	R	20/1		C		20/1	500	G	PROJECTOR SCREEN B1120	12
13	B1120 FLOORBOX EAST	1,080	R	20/1		A		20/1	720	R	R - MEDIA B1117	14
15	B1120 FLOORBOX EAST	1,080	R	20/1		B		20/1	720	R	R - MEDIA B1117	16
17	R - B1120 WEST	900	R	20/1		C		20/1	500	G	DDC CONTROLS	18
19	B1120 SMART BOARD WEST	500	G	20/1		A		20/1	500	G	DDC CONTROLS	20
21	B1120 PROJECTOR WEST	180	R	20/1		B		20/1	540	R	R - B1125, B1126,B1127	22
23	B1120 FLOORBOX WEST	1,080	R	20/1		C		20/1			SPARE BREAKER	24
25	B1120 FLOORBOX WEST	1,080	R	20/1		A					BUSSED SPACE	26
27	B1106,B1109,B1110,B1111	1,080	R	20/1		B					BUSSED SPACE	28
29	SPARE BREAKER			20/1		C					BUSSED SPACE	30
31	BUSSED SPACE					A					BUSSED SPACE	32
33	BUSSED SPACE					B					BUSSED SPACE	34
35	BUSSED SPACE					C					BUSSED SPACE	36
37	AUTO FLUSH VALVE B1110,B1111	500	G	20/1	1	A		20/1	1,000	G	ELEVATOR 1 CAB LIGHTS, HVAC, REC	38
39	DRINKING FOUNTAIN B1106	600	G	20/1	1	B		20/1	180	R	ELEVATOR MACHINE ROOM	40
41	NAC		G	20/1		C		20/1	180	R	ELEVATOR PIT RECEPTACLE	42

Total Connected Load:	Ph. A	12,186	VA	101	Amps	Panel Connected Load:	20.7	KVA	57.5	Amps
Total Connected Load:	Ph. B	10,356	VA	86	Amps	Sub-Fed Connected Load:	2.5	KVA	6.9	Amps
Total Connected Load:	Ph. C	7,210	VA	60	Amps	**Total Demand Load:**	22.0	**KVA**	61.2	**Amps**

Notes:
1. GFCI-TYPE BREAKER
2.
3.
4.
5.

Accessories: Provide Feed-Thru Lugs

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	7.20	0.00	7.20	100%	7.20 (KVA Typical)
L	Lighting	0.00	2.48	2.48	125%	3.10
R	Receptacles - to 10 KVA	13.50	0.00	10.00	100%	10.00
	over 10 KVA		0.00	3.50	50%	1.75
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.00	0.00	0.00	100%	0.00
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	0.00	0.00	0.00	125%	0.00
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	22.05 **KVA**

Panel 'P40AB' Sect 2

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
43	L - B1109,B1110,B1111	300	L	20/1		A					BUSSED SPACE	44
45	L - CORRIDORS BASEMENT	422	L	20/1		B					BUSSED SPACE	46
47	L - CONF ROOM B1120	960	L	20/1		C					BUSSED SPACE	48
49	AUTO DOOR B1131	300	L	20/1		A					BUSSED SPACE	50
51	SPARE BREAKER			20/1		B					BUSSED SPACE	52
53	SPARE BREAKER			20/1		C					BUSSED SPACE	54
55	BUSSED SPACE					A					BUSSED SPACE	56
57	BUSSED SPACE					B					BUSSED SPACE	58
59	BUSSED SPACE					C					BUSSED SPACE	60
61	BUSSED SPACE					A					BUSSED SPACE	62
63	BUSSED SPACE					B					BUSSED SPACE	64
65	BUSSED SPACE					C					BUSSED SPACE	66
67	BUSSED SPACE					A					BUSSED SPACE	68
69	BUSSED SPACE					B					BUSSED SPACE	70
71	BUSSED SPACE					C					BUSSED SPACE	72
73	BUSSED SPACE					A					BUSSED SPACE	74
75	BUSSED SPACE					B					BUSSED SPACE	76
77	BUSSED SPACE					C					BUSSED SPACE	78
79	BUSSED SPACE					A					BUSSED SPACE	80
81	BUSSED SPACE					B					BUSSED SPACE	82
83	BUSSED SPACE					C					BUSSED SPACE	84

Total Connected Load:	Ph. A	600	VA	5	Amps	Panel Connected Load:	2.0	KVA	5.5	Amps
Total Connected Load:	Ph. B	422	VA	4	Amps	Sub-Fed Connected Load:	0.0	KVA	0.0	Amps
Total Connected Load:	Ph. C	960	VA	8	Amps	**Total Demand Load:**	Refer to Section 1			

Notes:
1. CONFIRM REQUIREMENTS WITH MECHANICAL PLANS
2.
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4.
5.

Accessories:

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	0.00	0.00	0.00	100%	0.00 (KVA Typical)
L	Lighting	1.98	0.00	1.98	125%	2.48
R	Receptacles - to 10 KVA	0.00	0.00	0.00	100%	0.00
	over 10 KVA		0.00	0.00	50%	0.00
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.00	0.00	0.00	100%	0.00
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	0.00	0.00	0.00	125%	0.00
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	2.48 **KVA**

Panel 'MB40AB'

2013-0512

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	40A-AHU-2 SUPPLY FAN	1,680	M	20/3		A					BUSSED SPACE	2
3	---	1,680	M	---		B					BUSSED SPACE	4
5	---	1,680	M	---		C					BUSSED SPACE	6
7	40A-CRP-1	1,320	M	20/3		A					BUSSED SPACE	8
9	---	1,320	M	---		B					BUSSED SPACE	10
11	---	1,320	M	---		C					BUSSED SPACE	12
13	HEAT TRACE (ON ROOF)	360	H	20/1		A					BUSSED SPACE	14
15	40A-HWP-1	960	H	20/1		B					BUSSED SPACE	16
17	40A-HWP-2	960	H	20/1		C					BUSSED SPACE	18
19	40A-AHU-1 LTG & REC	500	G	20/1		A					BUSSED SPACE	20
21	40A-DHWR PUMP	240	M	20/1		B					BUSSED SPACE	22
23	40A-A-1 AQUASTAT	960	G	20/1		C					BUSSED SPACE	24
25	40A-A-1 AQUASTAT	960	G	20/1		A					BUSSED SPACE	26
27	40A-DHWR PUMP	240	M	20/1		B					BUSSED SPACE	28
29	SPARE BREAKER			20/1		C					BUSSED SPACE	30
31	EF-1 (ON ROOF)	665	M	20/3		A					BUSSED SPACE	32
33	---	665	M	---		B					BUSSED SPACE	34
35	---	665	M	---		C					BUSSED SPACE	36
37	HWUH-1	120	M	20/1		A					BUSSED SPACE	38
39	HWUH-2	120	M	20/1		B					BUSSED SPACE	40
41	SPARE BREAKER			20/1		C					BUSSED SPACE	42

Total Connected Load:	Ph. A	5,605	VA	47	Amps	Panel Connected Load:	16.4	KVA	45.6	Amps
Total Connected Load:	Ph. B	5,225	VA	44	Amps	Sub-Fed Connected Load:	0.0	KVA	0.0	Amps
Total Connected Load:	Ph. C	5,585	VA	47	Amps	**Total Demand Load:**	17.7	**KVA**	49.1	**Amps**

Notes:
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Accessories:

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	2.42	0.00	2.42	100%	2.42 (KVA Typical)
L	Lighting	0.00	0.00	0.00	125%	0.00
R	Receptacles - to 10 KVA	0.00	0.00	0.00	100%	0.00
	over 10 KVA		0.00	0.00	50%	0.00
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	2.28	0.00	2.28	100%	2.28
M	Motors	6.68	0.00	6.68	100%	6.68
LM	Largest Motor	5.04	0.00	5.04	125%	6.30
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	17.68 **KVA**

Panel 'P40A1' Sect 1

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	LIBRARY L1109	1,080	R	20/1		A		20/1	540	R	R - L1136 EAST	2
3	LIBRARY L1109	360	R	20/1		B		20/1	360	R	FLOORBOX L1136 EAST	4
5	MS OFFICE L1111	900	R	20/1		C		20/1	500	G	SMARTBOARD L1136 EAST	6
7	COPIER L1117	1,000	G	20/1		A		20/1	540	R	R - L1136 WEST	8
9	RECEPTION L1116	900	R	20/1		B		20/1	360	R	FLOORBOX L1136 WEST	10
11	SUPPLY L1117	720	R	20/1		C		20/1	500	G	SMARTBOARD L1136 WEST	12
13	SERVICE CHIEF L1118	900	R	20/1		A		20/1	500	G	SIM LAB AV EQPT	14
15	EDUCATION OFFICE L1120	720	R	20/1		B		20/1	500	G	SIM LAB AV EQPT	16
17	CORRIDOR L1121	720	R	20/1		C		20/1	500	G	SIM LAB AV EQPT	18
19	EDUCATION OFFICE L1122	720	R	20/1		A		20/1	500	G	SIM LAB CAMERAS	20
21	BREAK ROOM L1114	360	R	20/1		B		20/1	720	R	SIM LAB L1137	22
23	BREAK ROOM L1114	360	R	20/1		C		20/1	180	R	SMARTBOARD L1137	24
25	BREAK ROOM L1114 - FRIDGE	180	R	20/1		A		20/1	360	R	KEYBOARD/MONITOR L1137	26
27	CORRIDOR L11112,L1126,L1127	1,080	R	20/1		B		20/1	540	R	R - L1140 TRAINING BAY	28
29	CORRIDOR L1112, L1150, L1151	1,080	R	20/1		C		20/1	360	R	R - L1140 TRAINING BAY	30
31	SPARE BREAKER			20/1		A		20/1	540	R	R - L1140 TRAINING BAY	32
33	WORKSTATION 3 L1123	720	R	20/1		B		20/1	500	G	AUTO FLUSH VALVES L1126,L1127	34
35	WORKSTATION 3 L1123	540	R	20/1		C		20/1	750	H	AUTO SINK L1137	36
37	DRINKING FOUNTAIN L1112	600	G	20/1	1	A		20/1	900	R	SIM LAB HEAD WALL	38
39	EXTERIOR RECEPTACLES	360	R	20/1		B		20/1	720	R	SIM LAB HEAD WALL	40
41	EXTERIOR RECEPTACLES	900	R	20/1		C		20/1		G	NAC	42

Total Connected Load:	Ph. A	11,236	VA	94	Amps	Panel Connected Load:	24.6	KVA	68.2	Amps
Total Connected Load:	Ph. B	11,736	VA	98	Amps	Sub-Fed Connected Load:	10.0	KVA	27.8	Amps
Total Connected Load:	Ph. C	10,650	VA	89	Amps	**Total Demand Load:**	30.2	**KVA**	83.7	**Amps**

Notes:
1. GFCI-TYPE BREAKER
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Accessories: Provide Feed-Thru Lugs

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	5.10	2.70	7.80	100%	7.80 (KVA Typical)
L	Lighting	0.00	3.75	3.75	125%	4.69
R	Receptacles - to 10 KVA	18.72	2.52	10.00	100%	10.00
	over 10 KVA		0.00	11.24	50%	5.62
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.75	0.00	0.75	100%	0.75
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	0.00	1.04	1.04	125%	1.30
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	30.16 **KVA**

Panel 'P40A1' Sect 2

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
43	L - 1ST FLOOR CORRIDORS	500	L	20/1		A		20/2	416	M	FCU-1	44
45	L - 1ST FLOOR SOUTH	1,000	L	20/1		B		---	416	M	---	46
47	L - 1ST FLOOR NORTH	1,000	L	20/1		C		20/1	600	G	AUTO-DOORS L1109	48
49	L - EXTERIOR CANOPY	500	L	20/1		A		20/1	600	G	AUTO-DOORS L1136,L1140	50
51	R - L1A101,L1102	900	R	20/1		B		20/1	360	R	R - L1109	52
53	OFFICE L1110	360	R	20/1		C		20/1	180	R	SIM LAB DUMMY STATION	54
55	OFFICE L1110	360	R	20/1		A		20/1	500	G	SIM LAB MONITOR	56
57	OFFICE L1110	360	R	20/1		B		20/1	500	G	TV - LIBRARY	58
59	EXTERIOR WATER FEATURE	500	G	20/1		C		20/1			SPARE BREAKER	60
61	BUSSED SPACE					A					BUSSED SPACE	62
63	BUSSED SPACE					B					BUSSED SPACE	64
65	BUSSED SPACE					C					BUSSED SPACE	66
67	BUSSED SPACE					A					BUSSED SPACE	68
69	BUSSED SPACE					B					BUSSED SPACE	70
71	BUSSED SPACE					C					BUSSED SPACE	72
73	BUSSED SPACE					A					BUSSED SPACE	74
75	BUSSED SPACE					B					BUSSED SPACE	76
77	BUSSED SPACE					C					BUSSED SPACE	78
79	BUSSED SPACE					A					BUSSED SPACE	80
81	BUSSED SPACE					B					BUSSED SPACE	82
83	BUSSED SPACE					C					BUSSED SPACE	84

Total Connected Load:	Ph. A	2,876	VA	24	Amps	Panel Connected Load:	9.1	KVA	25.1	Amps
Total Connected Load:	Ph. B	3,536	VA	29	Amps	Sub-Fed Connected Load:	0.0	KVA	0.0	Amps
Total Connected Load:	Ph. C	2,640	VA	22	Amps	**Total Demand Load:**	Refer to Section 1			

Notes:
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Accessories:

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	2.70	0.00	2.70	100%	2.70 (KVA Typical)
L	Lighting	3.00	0.00	3.00	125%	3.75
R	Receptacles - to 10 KVA	2.52	0.00	2.52	100%	2.52
	over 10 KVA		0.00	0.00	50%	0.00
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.00	0.00	0.00	100%	0.00
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	0.83	0.00	0.83	125%	1.04
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	10.01 **KVA**

Panel 'P40A2' Sect 1

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	COUNSELOR L2114	900	R	20/1		A		20/1	1,000	G	PRINTER CORRIDOR	2
3	COUNSELOR L2115	900	R	20/1		B		20/1	1,000	G	PRINTER CORRIDOR	4
5	COUNSELOR L2134	900	R	20/1		C		20/1	900	R	COUNSELOR L2141	6
7	COUNSELOR L213	900	R	20/1		A		20/1	900	R	COUNSELOR L2142	8
9	COUNSELOR L2136	900	R	20/1		B		20/1	900	R	COUNSELOR L2144	10
11	COUNSELOR L2137	900	R	20/1		C		20/1	540	R	BREAK ROOM L2151	12
13	COUNSELOR L2112	900	R	20/1		A		20/1	180	R	BREAK ROOM L2151	14
15	RECEPTION L2111	900	R	20/1		B		20/1	180	R	BREAK ROOM L2151	16
17	WAITING L2101	900	R	20/1		C		20/1	900	R	GROUP THERAPY L2129	18
19	CORRIDOR L2120	1,080	R	20/1		A		20/1	360	R	GROUP THERAPY L2129	20
21	RESTROOM L2116,L2117	360	R	20/1		B		20/1	900	R	SMART BOARD L2129	22
23	COUNSELOR L2121	900	R	20/1		C		20/1	900	R	GROUP THERAPY L2128	24
25	COUNSELOR L2122	900	R	20/1		A		20/1	360	R	GROUP THERAPY L2128	26
27	COUNSELOR L2123	900	R	20/1		B		20/1	360	R	SMART BOARD L2128	28
29	COUNSELOR L2148	720	R	20/1		C		20/1	900	R	GROUP THERAPY L2127	30
31	COUNSELOR L2149	720	R	20/1		A		20/1	900	R	GROUP THERAPY L2127	32
33	CORRIDOR L2139	720	R	20/1		B		20/1	360	R	SMART BOARD L2127	34
35	HOUSEKEEPING EQPT L2149	360	R	20/1		C		20/1	500	G	AUTO FLUSH VALVES L2116,L2117	36
37	HOUSEKEEPING EQPT L2149	360	R	20/1		A	1	20/1	600	G	DRINKING FOUNTAIN L2120	38
39	HOUSEKEEPING EQPT L2149	540	R	20/1		B	1	20/1	600	G	DRINKING FOUNTAIN L2101	40
41	NAC SPARE BREAKER			20/1		C	1	20/1	600	G	DRINKING FOUNTAIN L2139	42

Total Connected Load:	Ph. A	12,936	VA	108	Amps	Panel Connected Load:	29.5	KVA	81.9	Amps
Total Connected Load:	Ph. B	13,056	VA	109	Amps	Sub-Fed Connected Load:	13.0	KVA	36.1	Amps
Total Connected Load:	Ph. C	12,560	VA	105	Amps	**Total Demand Load:**	35.8	**KVA**	99.4	**Amps**

Notes:
1. GFCI-TYPE BREAKER.
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Accessories: Provide Feed-Thru Lugs

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	4.30	2.10	6.40	100%	6.40 (KVA Typical)
L	Lighting	0.00	2.50	2.50	125%	3.13
R	Receptacles - to 10 KVA	25.20	2.34	10.00	100%	10.00
	over 10 KVA		0.00	17.54	50%	8.77
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.00	0.36	0.36	100%	0.36
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	0.00	5.72	5.72	125%	7.15
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	35.81 **KVA**

Panel 'P40A2' Sect 2

2013-0512

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
43	L - 2ND FLOOR CORRIDOR	500	L	20/1		A		20/1	720	R	R - IT L1107	44
45	L - 2ND FLOOR OFFICES WEST	500	L	20/1		B		20/1	720	R	R - IT L1107	46
47	L - 2ND FLOOR CENTRAL	500	L	20/1		C		20/2	1,050	G	IT L1107 UPS UNIT	48
49	L - 2ND FLOOR OFFICES EAST	500	L	20/1		A		---	1,050	G	---	50
51	ROOF RECPETACLES	540	R	20/1		B		30/2	2,288	M	CU-1 (ON ROOF)	52
53	HEAT TRACE ROOF	360	H	20/1		C		---	2,288	M	---	54
55	(F) COPIER L2106	180	R	20/1		A					BUSSED SPACE	56
57	COPIER L2120	180	R	20/1		B					BUSSED SPACE	58
59	BUSSED SPACE					C					BUSSED SPACE	60
61	BUSSED SPACE					A					BUSSED SPACE	62
63	BUSSED SPACE					B					BUSSED SPACE	64
65	BUSSED SPACE					C					BUSSED SPACE	66
67	BUSSED SPACE					A					BUSSED SPACE	68
69	BUSSED SPACE					B					BUSSED SPACE	70
71	BUSSED SPACE					C					BUSSED SPACE	72
73	BUSSED SPACE					A					BUSSED SPACE	74
75	BUSSED SPACE					B					BUSSED SPACE	76
77	BUSSED SPACE					C					BUSSED SPACE	78
79	BUSSED SPACE					A					BUSSED SPACE	80
81	BUSSED SPACE					B					BUSSED SPACE	82
83	BUSSED SPACE					C					BUSSED SPACE	84

Total Connected Load:	Ph. A	2,950	VA	25	Amps	Panel Connected Load:	11.4	KVA	31.6	Amps
Total Connected Load:	Ph. B	4,228	VA	35	Amps	Sub-Fed Connected Load:	0.0	KVA	0.0	Amps
Total Connected Load:	Ph. C	4,198	VA	35	Amps	**Total Demand Load:**	Refer to Section 1			

Notes:
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Accessories:

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	2.10	0.00	2.10	100%	2.10 (KVA Typical)
L	Lighting	2.00	0.00	2.00	125%	2.50
R	Receptacles - to 10 KVA	2.34	0.00	2.34	100%	2.34
	over 10 KVA		0.00	0.00	50%	0.00
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.36	0.00	0.36	100%	0.36
M	Motors	0.00	0.00	0.00	100%	0.00
LM	Largest Motor	4.58	0.00	4.58	125%	5.72
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	13.02 **KVA**

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
	100% CONSTRUCTION DOCUMENT	1/26/2015
		12/30/14
	99% CONSTRUCTION DOCUMENT	12/17/14
	95% CONSTRUCTION DOCUMENT	10/13/14
	65% DESIGN DEVELOPMENT	6/27/14
	SCHEMATIC DESIGN	3/28/14

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Drawing Title: **PANEL SCHEDULES - ELECTRICAL**

Approved: Project Director: **Approver**

Project Title: INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location: SPOKANE, WASHINGTON 99205

Issue Date	Checked	Drawn
11/02/2015	JRS	IEI

Project Number: 668-313

Building Number: 40A

Drawing Number: **EP610**

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
AHU-1 SF	AIR HANDLER UNIT	MECHANICAL B1140	208/3	30.0 HP		125	1253	SDP40A	1
AHU-1 RF	AIR HANDLER UNIT	MECHANICAL B1140	208/3	10.0 HP		60	403	SDP40A	1
AHU-2 SF	AIR HANDLER UNIT	MECHANICAL B1140	208/3	4.0 HP		20	203	MB40AB-1,3,5	
EF-1	EXHAUST FAN	ROOF	208/3	2.4 A		15	203	MB40AB-31,33,35	
HWP-1	CIRCULATION PUMP	MECHANICAL B1140	120/1	8.0 A		15	202	MB40AB-15	
HWP-2	CIRCULATION PUMP	MECHANICAL B1140	120/1	8.0 A		15	202	MB40AB-17	
CU-1	CONDENSING UNIT	NW ROOF	208/1	22.0 A		30	302	MB40AB-1,3,10	
FCU-1	FAN COIL UNIT	STORAGE L1141	208/1	4.0 A		15	202	MB40AB-1,3,5	
CRU-1	CIRCULATION PUMP	MECHANICAL B1140	120/1	7.2 A		15	202	MB40AB-1,3,13	
40A-A-1	AQUASTAT	BUILDING 40	120/1	8.0 A		15	202	MB40AB-23	
40A-A-1	AQUASTAT	BUILDING 40	120/1	8.0 A		15	202	MB40AB-25	
40A-DHWPR-1	DOMESTIC HW RECIRC PUMP	BUILDING 40	120/1	2.0 A		15	202	MB40AB-21	
40E-DHWPR-1	DOMESTIC HW RECIRC PUMP	BUILDING 40	120/1	2.0 A		15	202	MB40AB-27	
40A-HT-1	HEAT TRACE	ROOF	120/1	3.0 A		15	202	MB40AB-13	
HWUH-1	CIRCULATION PUMP	L1A101 - LOBBY	120/1	1.0 A		15	202	MB40AB-2	
HWUH-2	CIRCULATION PUMP	VESTIBLULE	120/1	1.0 A		15	202	MB40AB-4	
EP-1	ELEVATOR PRESSURIZATION FAN	ROOF	208/3	3.0 HP		20	203	EL40A1-37,39,41	
EP-2	ELEVATOR PRESSURIZATION FAN	ROOF	208/3	3.0 HP		20	203	EL40A1-38,40,42	

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 SEE ONE LINE POWER DIAGRAM FOR FEEDER SIZE.

WIRE / CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.
302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.
403 3 #8 CU, 1 #10 CU GND., IN 3/4" C.
1253 3 #1 CU, 1 #6 CU GND., IN 1-1/4" C.

Panel 'EL40A1'

120/208V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard

2013-0512

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	AUTO-DOORS L1A101	600	G	20/1		A		20/1	500	L	L - EM BASEMEMT CORRIDORS	2
3	AUTO-DOORS L1A101	600	G	20/1		B		20/1	500	L	L - EM BASEMENT	4
5	AUTO-DOORS L1130	900	G	20/1		C		20/1	500	L	L -1ST FLOOR CORRIDORS	6
7	AUTO-DOOR L1109	300	G	20/1		A		20/1	500	L	L - 1ST FLOOR	8
9	AUTO-DOOR L2120	300	G	20/1		B		20/1	500	L	L - EM 2ND FLOORCORRIDORS	10
11	SPARE BREAKER			20/1		C		20/1	500	L	L -EM 2ND FLOOR	12
13	BUSSED SPACE					A		20/1	500	L	L - EM CONF ROOM B1120	14
15	BUSSED SPACE					B		20/1	500	L	L - EXIT SIGNS BASEMENT	16
17	BUSSED SPACE					C		20/1	500	L	L - EXIT SIGNS 1ST FLOOR	18
19	BUSSED SPACE					A		20/1	500	L	L - EXIT SIGNS 2ND FLOOR	20
21	BUSSED SPACE					B		20/1			SPARE BREAKER	22
23	BUSSED SPACE					C		20/1			SPARE BREAKER	24
25	BUSSED SPACE					A					BUSSED SPACE	26
27	BUSSED SPACE					B					BUSSED SPACE	28
29	BUSSED SPACE					C					BUSSED SPACE	30
31	BUSSED SPACE					A					BUSSED SPACE	32
33	BUSSED SPACE					B					BUSSED SPACE	34
35	BUSSED SPACE					C					BUSSED SPACE	36
37	EP-1 (ON ROOF)	1,320	M	20/3		A		20/3	1,320	M	EP-2 (ON ROOF)	38
39	---	1,320	M	---		B		---	1,320	M	---	40
41	---	1,320	M	---		C		---	1,320	M	---	42

Total Connected Load:	Ph. A	5,540 VA	46 Amps	Panel Connected Load:	15.6 KVA	43.4 Amps
Total Connected Load:	Ph. B	5,040 VA	42 Amps	Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
Total Connected Load:	Ph. C	5,040 VA	42 Amps	**Total Demand Load:**	17.9 **KVA**	49.6 **Amps**

Notes:
1.
2.
3.
4.
5.

Accessories:
Provide Double Lugs

Load Type	Load Description	Connected Loads	Subfed Loads (S)	Total Loads	Demand Factor	Demand Load
G	General (Non-Continuous)	2.70	0.00	2.70	100%	2.70 (KVA Typical)
L	Lighting	5.00	0.00	5.00	125%	6.25
R	Receptacles - to 10 KVA	0.00	0.00	0.00	100%	0.00
	over 10 KVA		0.00	0.00	50%	0.00
K	Kitchen	0.00	0.00	0.00	100%	0.00
H	Heating	0.00	0.00	0.00	100%	0.00
M	Motors	3.96	0.00	3.96	100%	3.96
LM	Largest Motor	3.96	0.00	3.96	125%	4.95
WH	Water Heater	0.00	0.00	0.00	125%	0.00
C	Continuous General Load	0.00	0.00	0.00	125%	0.00
					Total:	17.86 **KVA**

LOAD SUMMARY

AT EXISTING MAIN SWITCHBOARD 'ESB'.

MAXIMUM 12-MONTH PEAK DEMAND WAS 3.93 KW, AS PER EQUIPMENT METER

(E) MAXIMUM DEMAND:	3.93	KW
+25% SAFETY FACTOR:	4.91	KVA
+ADDED (NEW) DEMAND LOAD:	20.63	KVA
TOTAL NEW DEMAND LOAD:	25.54	KVA
TOTAL AMPS (208V, 3PHASE):	70.90	AMPS

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
	100% CONSTRUCTION DOCUMENT	1/26/2015
		12/30/14
	99% CONSTRUCTION DOCUMENT	12/17/14
	95% CONSTRUCTION DOCUMENT	10/13/14
	65% DESIGN DEVELOPMENT	6/27/14
	SCHEMATIC DESIGN	3/28/14

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Drawing Title
PANEL SCHEDULES - ELECTRICAL

Approved: Project Director
Approver

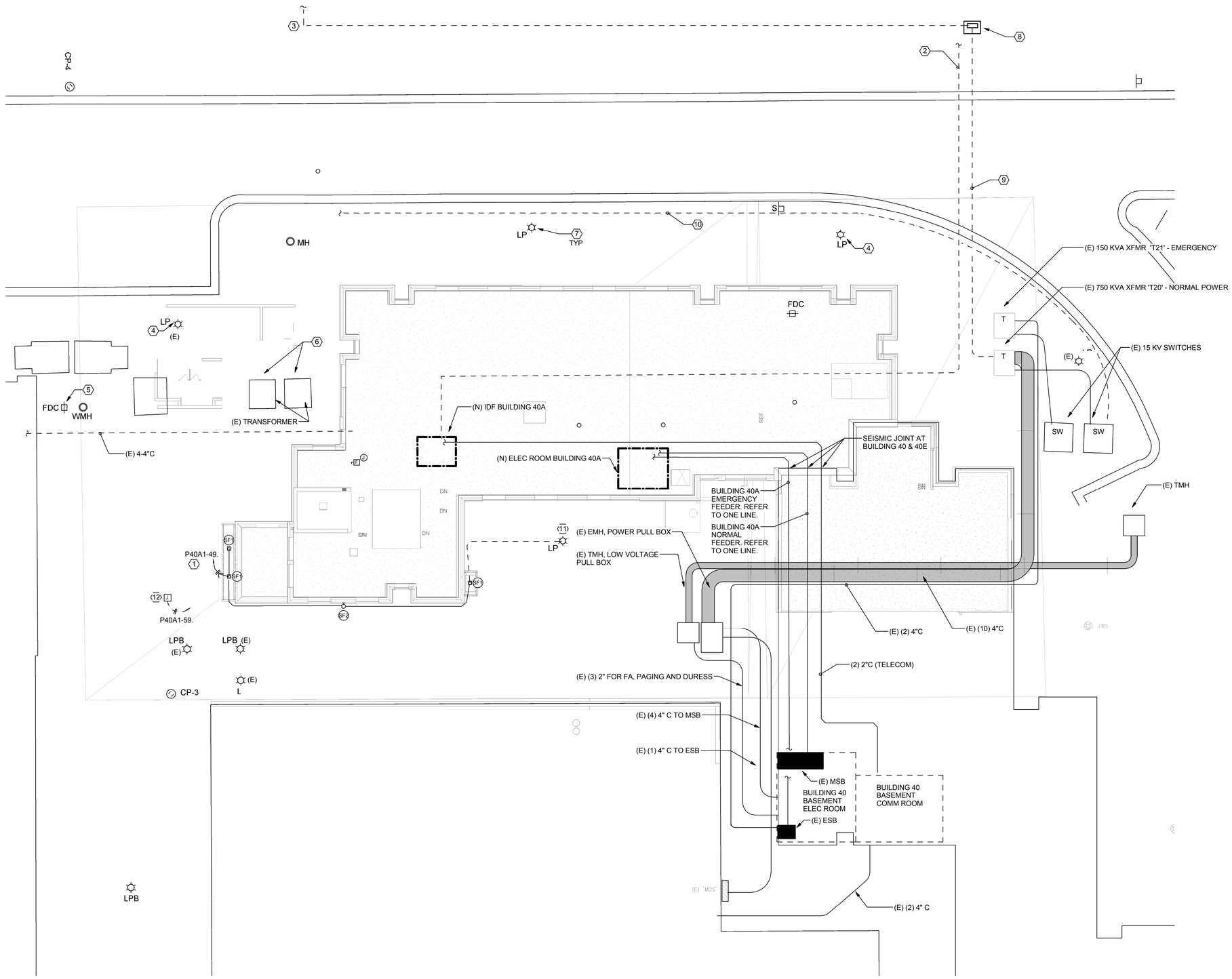
Project Title
INTENSIVE OUTPATIENT MENTAL HEALTH AND EDUCATION BUILDING
SPOKANE VA MEDICAL CENTER
SPOKANE, WASHINGTON 99205

Location
SPOKANE, WASHINGTON 99205

Issue Date **11/02/2015** | Checked **JRS** | Drawn **IEI**

Project Number 668-313
Building Number 40A
Drawing Number **EP611**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs



TRUE NORTH PLAN NORTH

1 SITE PLAN - POWER
1" = 10'-0"

SHEET KEYNOTES

1. PROVIDE LOCAL SWITCHING PHTOCELL FOR CONTROL OF CANOPY MOUNTED FIXTURES.
2. PROVIDE SPARE 2"C FOR FUTURE TELECOM WORK. STUB CONDUIT NEAR NEW SITE PANEL AND IN NEW BUILDING 40A IDF ROOM.
3. INTERCEPT AND EXTEND EXISTING 100A FEEDER FOR RV STATIONS TO NEW SITE PANEL.
4. RELOCATED SITE LIGHT. INTERCEPT EXISTING SITE LIGHTING CIRCUIT AND EXTEND TO NEW POLE LOCATION.
5. PROVIDE FDC MONITORING CONNECTIONS TO BUILDING 40 COMMUNICATIONS ROOM. SEE CIVIL PLANS FOR REVISED FDC LOCATION.
6. EXISTING TRANSFORMERS TO REMAIN. PROVIDE REQUIRED SHORING AND PROTECTION TO MAINTAIN OPERATION OF EXISTING TRANSFORMERS DURING CONSTRUCTION.
7. FIELD LOCATE AND RETAIN POWER TO EXISTING EXTERIOR LIGHTING CIRCUITS. RE-ROUTE ASSOCIATED POWER CONNECTIONS AROUND NEW CONSTRUCTION WHERE REQUIRED TO MAINTAIN OPERATION.
8. PROVIDE NEW 250A PANEL WITH 200A MAIN CIRCUIT BREAKER AND BUSSED SPACE TO ACCOMODATE 30 SPACES IN NEMA-3R ENCLOSURE. PAINT MUNSELL GREEN TO MATCH EXISTING SITE TRANSFORMER. PROVIDE 30" HIGH X 24" WIDE X 8" DEEP CONCRETE PEDESTAL. PANEL IS PROVIDED FOR TEMPORARY POWER AND FUTURE CAR CHARGING STATIONS.
9. PROVIDE 200A FEEDER, (4 #3/0CU, 1 #6CU GND IN 2.5"C) FROM EXISTING TRANSFORMER 'T20'. UTILIZE LUGS MADE AVAILABLE FROM DEMOLITION OF BUILDING 8
10. EXISTING MEDIUM VOLTAGE CAMPUS FEEDER TO REMAIN. PROTECT FEEDER THROUGHOUT CONSTRUCTION.
11. PROVIDE NEW SITE LIGHTING POLE. MATCH EXISTING FIXTURES IN TYPE AND POLE HEIGHT. COORDINATE INSTALLATION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
12. PROVIDE ELECTRICAL CONNECTION AT WATER FEATURE. COORDINATE REQUIREMENTS WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS PRIOR TO ROUGH-IN.

DEDUCTIVE ALTERNATE BID #7 CONSTRUCTION NOTES:

1. OMIT ALL LIGHT FIXTURES FROM SIDEWALK CANOPY.

BID DOCUMENT
NOVEMBER/02/2015

Revisions	ISSUES	Date
	BID DOCUMENT	11/02/2015
	100% CONSTRUCTION DOCUMENT	1/26/2015
		12/30/14
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Drawing Title
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