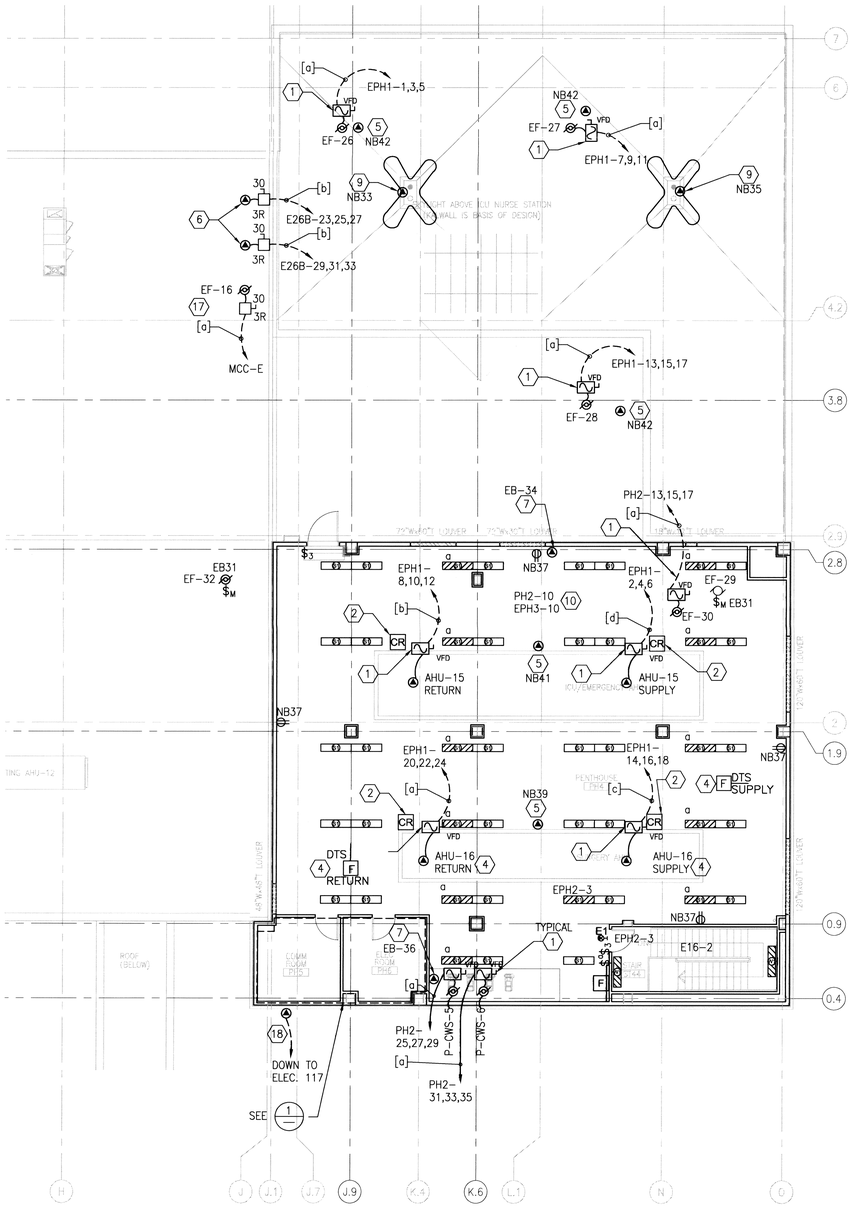
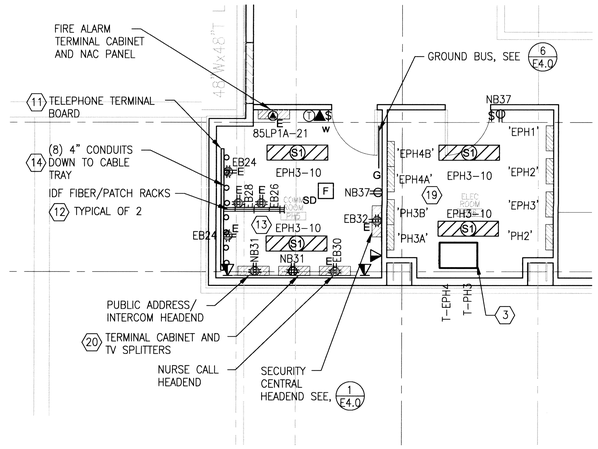


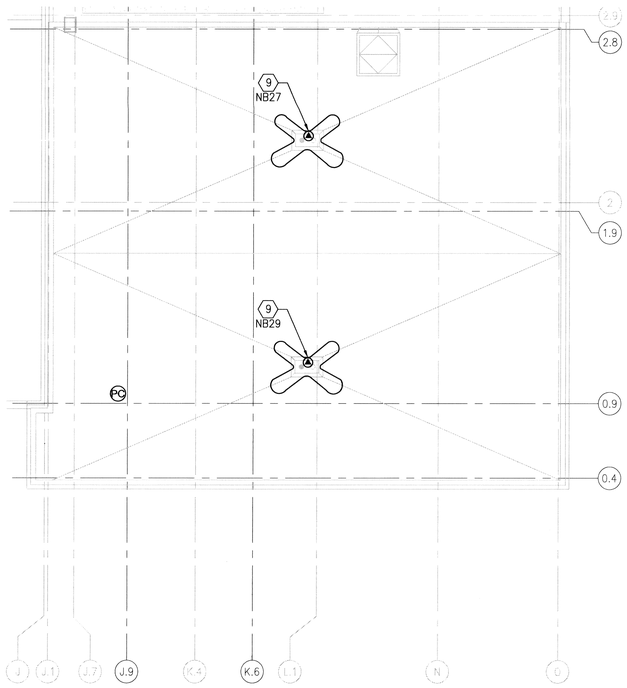
PENTHOUSE AND ROOF ELECTRICAL PLAN
1/8"=1-0"

0 4' 8' 16'



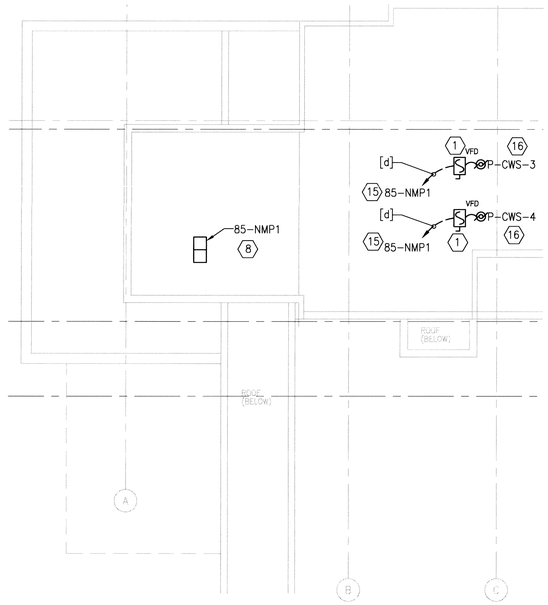
1 ENLARGED ELEC/COMM ELECTRICAL PLANS
1/4"=1-0"

0 2' 4' 8'



3 PENTHOUSE ROOF PLAN
1/8"=1-0"

0 4' 8' 16'



2 EXISTING PENTHOUSE ELECTRICAL PLAN
1/8"=1-0"

0 4' 8' 16'

CIRCUIT SCHEDULE:
[a] – 3/4"C, 3#12, 1#12G
[b] – 3/4"C, 3#10, 1#10G
[c] – 3/4"C, 3#8, 1#10G
[d] – 3/4"C, 3#6, 1#8G

17. RELOCATE EXHAUST FAN EF-16. EXHAUST FAN TO BE REMOVED BY MECHANICAL CONTRACTOR AFTER CONSTRUCTION IS COMPLETE; REMOVE EXISTING ELECTRICAL CONNECTION AND DEMOLISH ALL ASSOCIATED CONDUIT AND CONDUCTORS.

18. RELOCATED ANTENNA FOR ADVANCE ELECTRICAL METERING SYSTEM. PROVIDE 1" CONDUIT WITH ANTENNA CABLING DOWN TO METERING SYSTEM IN ELECTRICAL 117.

19. PROVIDE #8 AWG COPPER BONDING BETWEEN NORMAL AND ESSENTIAL BRANCH CIRCUIT PANELS PER NEC 517.14.

20. PROVIDE 1"C WITH TELEVISION BACKBONE CABLING FROM TV TERMINAL CABINET TO EXISTING BLDG 85 TV DISTRIBUTION HEADEDND.

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR EQUIPMENT SCHEDULE. SEE DRAWINGS E3.1, E3.2, AND E3.3 FOR PANEL SCHEDULES.

B. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75–FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

C. RECEPTACLES SHOWN AT COUNTERS ADJACENT TO SINKS SHALL BE MOUNTED 6–INCHES ABOVE COUNTER SURFACE UNLESS OTHERWISE NOTED.

D. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS.

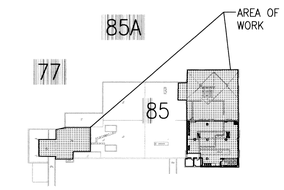
E. FOR TYPICAL POWER AND COMMUNICATION BACK BOX INSTALLATION, SEE DETAIL 1/DRAWING E4.1.

F. CONNECT LIFE SAFETY BRANCH CIRCUITS TO EXISTING LIFE SAFETY PANEL IN ELECTRICAL 117. CONNECT TO EXISTING 20 AMP, 1 POLE SPARE BREAKERS, UNLESS OTHERWISE NOTED. FIELD VERIFY CIRCUIT NUMBERS.

G. GENERAL NOTE: CIRCUIT NUMBERS BEGINNING WITH "N" REFER TO NORMAL BRANCH AND "E" REFER TO EMERGENCY CRITICAL BRANCH. CIRCUITS ON THIS FLOOR SHALL BE ROUTED TO THE FOLLOWING PANELS:
NA = PH3A EA = EPH4A
NB = PH3B EB = EPH4B

SHEET KEYNOTES

1. VARIABLE FREQUENCY DRIVE AND DISCONNECT SWITCH FURNISHED WITH MECHANICAL EQUIPMENT, AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. FIRE ALARM CONTROL MODULE FOR AIR HANDLING UNIT SHUTDOWN. SHUT DOWN AIR HANDLING UNIT UPON DETECTION OF SMOKE BY DUCT SMOKE DETECTOR.
3. STACK TRANSFORMERS. MOUNT T–EPH4 ON CHANNEL RACK ABOVE T–PH3.
4. DEDUCT ALTERNATE #6: OMIT ELECTRICAL WORK ASSOCIATED WITH AIR HANDLER AHU–16.
5. PROVIDE 120 VOLT CONNECTION TO PRE–WIRED LIGHTING/RECEPTACLE CIRCUIT.
6. RELOCATED REFRIGERATION UNITS FOR SECOND FLOOR LAB BLOOD STORAGE REFRIGERATOR.
7. HVAC CONTROL PANEL.
8. REFEED EXISTING MOTOR CONTROL CENTER '85–NMP1'. SEE ONE LINE DIAGRAM E3.0, FOR CIRCUIT INFORMATION, AND ELECTRICAL SITE PLAN, DRAWING E0.4, FOR CIRCUIT ROUTING INFORMATION.
9. PROVIDE SELF–REGULATING HEAT TRACE IN STAR PATTERN ON ROOF, AND 6" INTO ROOF DRAIN.
10. PANEL AND CIRCUIT FOR ALL LUMINAIRES IN ROOM, EXCEPT AS NOTED.
11. PROVIDE FIRE RATED PLYWOOD, FULL LENGTH OF NORTH WALL OF COMM. PH5, FROM FLOOR TO CEILING. PAINT TO MATCH INTERIOR ROOM FINISH (TAPE OFF AND PRESERVE FIRE RATED STAMP).
12. FURNISH AND INSTALL NEW TELECOMMUNICATIONS RACKS AND EQUIPMENT. SEE DETAIL 5, DRAWING E4.0.
13. FURNISH AND INSTALL (1) 4"C, WITH 200 PAIR COPPER, AND (1) 4"C, WITH (2) 12 STRAND 62.5 MM MULTI–MODE FIBER OPTIC CABLES, FROM COMM ROOM PH5 TO BUILDING 67 PBX ROOM. COORDINATE BACKBONE CABLING REQUIREMENTS WITH VA IT DEPARTMENT PRIOR TO INSTALLATION.
14. SPACE CONDUITS 12" APART ALONG TELEPHONE TERMINAL BOARD.
15. FURNISH AND INSTALL 100 AMP/3 POLE BREAKER IN EXISTING MOTOR CONTROL CENTER 85–NMP1 IN PENTHOUSE. MATCH EXISTING BREAKER TYPE AND AIC RATING.
16. REMOVE EXISTING ELECTRICAL CONNECTIONS AND CIRCUITS TO CHILLED WATER PUMPS. PROVIDE NEW AS SHOWN.



PENTHOUSE KEY PLAN
NOT TO SCALE

PLAN NORTH

PLAN NORTH

REVISIONS | DATE

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PROFESSIONAL ENGINEER REGISTRATION 9777 STATE OF IDAHO JOHN HATTEN

ZGA. Architects and Planners, Chartered
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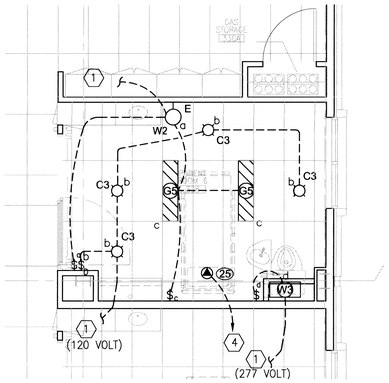
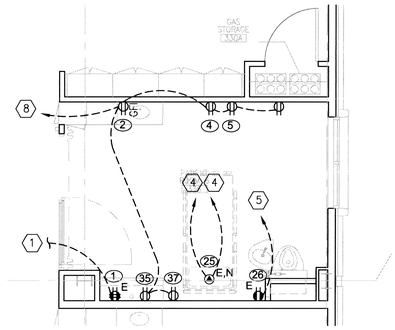
CAD FILE NAME: 531–317_E2.4.DWG
XREF FILE NAME: 85APH KEY PLAN.DWG, 85_GRID.DWG, 531–317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: PENTHOUSE AND ROOF ELECTRICAL PLAN
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO.: 531–317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC
DRAWING NO.: E2.4
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION: VAMC BOISE, IDAHO
DWG 176 OF 188

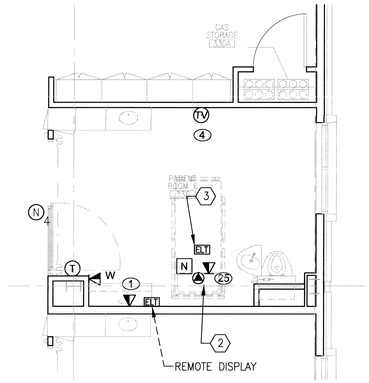
FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS



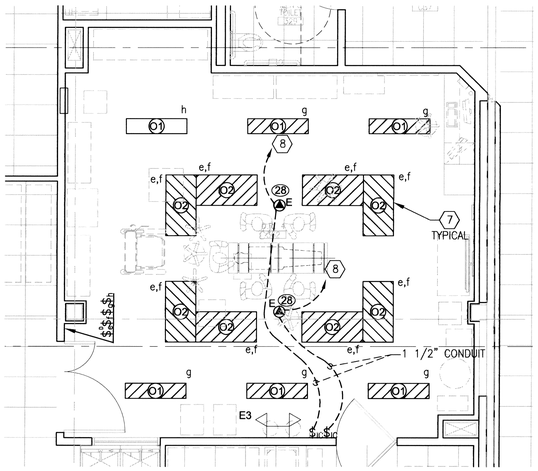
1 THIRD FLOOR – ICU LIGHTING PLAN
1/4"=1-0" (SIMILAR FOR ICU ROOMS 1-10)



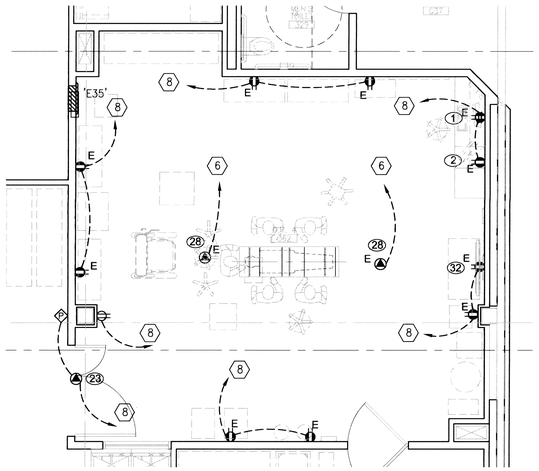
2 THIRD FLOOR – ICU POWER PLAN
1/4"=1-0" (SIMILAR FOR ICU ROOMS 1-10)



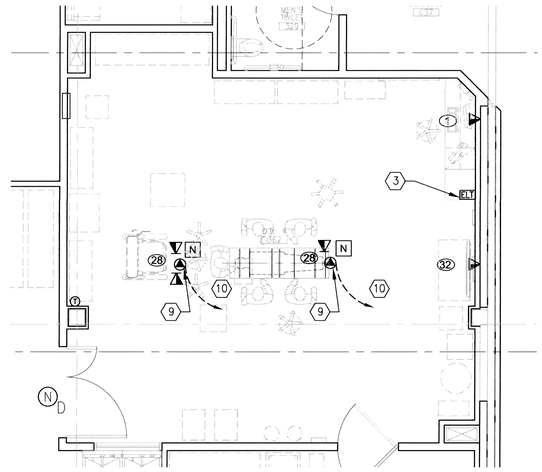
3 THIRD FLOOR – ICU COMM PLAN
1/4"=1-0" (SIMILAR FOR ICU ROOMS 1-10)



4 THIRD FLOOR – O.R. LIGHTING PLAN
1/4"=1-0" (SIMILAR FOR OR#3 AND OR#4)



5 THIRD FLOOR – O.R. POWER PLAN
1/4"=1-0" (SIMILAR FOR OR#3 AND OR#4)



6 THIRD FLOOR – O.R. COMM PLAN
1/4"=1-0" (SIMILAR FOR OR#3 AND OR#4)

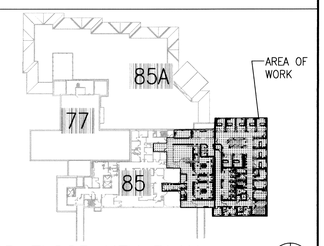
PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1, E0.2, AND E0.3 FOR ELECTRICAL AND TELECOMMUNICATIONS LEGENDS, ABBREVIATIONS, AND GENERAL NOTES.

SHEET KEYNOTES

1. CIRCUITING CONTINUES TO OTHER PATIENT ROOMS AS SHOWN ON THE 1/8" SCALE PLANS. SEE DRAWINGS EL2.3 AND EP2.3.
2. MOUNT NURSE CALL, ELAPSED TIMER, AND TELEPHONE/DATA COMMUNICATION OUTLET ON ICU BOOM.
3. CONNECT ELAPSED TIMER TO ONE OF THE EMERGENCY CRITICAL CIRCUITS ON BOOM.
4. PROVIDE (3) 20 AMP, 120 VOLT, EMERGENCY CRITICAL CIRCUITS ((1) FOR EXAMINATION LIGHT, (2) FOR EMERGENCY RECEPTACLES) AND (1) 20 AMP, 120 VOLT NORMAL POWER CIRCUIT TO ICU BOOM.
5. PROVIDE DEDICATED CIRCUIT TO DIALYSIS PUMP.
6. PROVIDE (3) 20 AMP, 120 VOLT, EMERGENCY CRITICAL CIRCUITS TO OR BOOM.
7. PROVIDE DIMMING BALLAST FOR (4) INNER LAMPS OF TYPE 02 LIGHT FIXTURES (SWITCH GROUP e).
8. HOME RUN CIRCUIT TO PANEL. SEE 1/8" SCALE PLANS FOR CIRCUIT IDENTIFICATION.
9. MOUNT NURSE CALL AND TELEPHONE/DATA COMMUNICATION OUTLETS ON OR BOOM.
10. 2" CONDUIT FROM BOOM TO CABLE TRAY FOR VIDEO INTEGRATION.



THIRD FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

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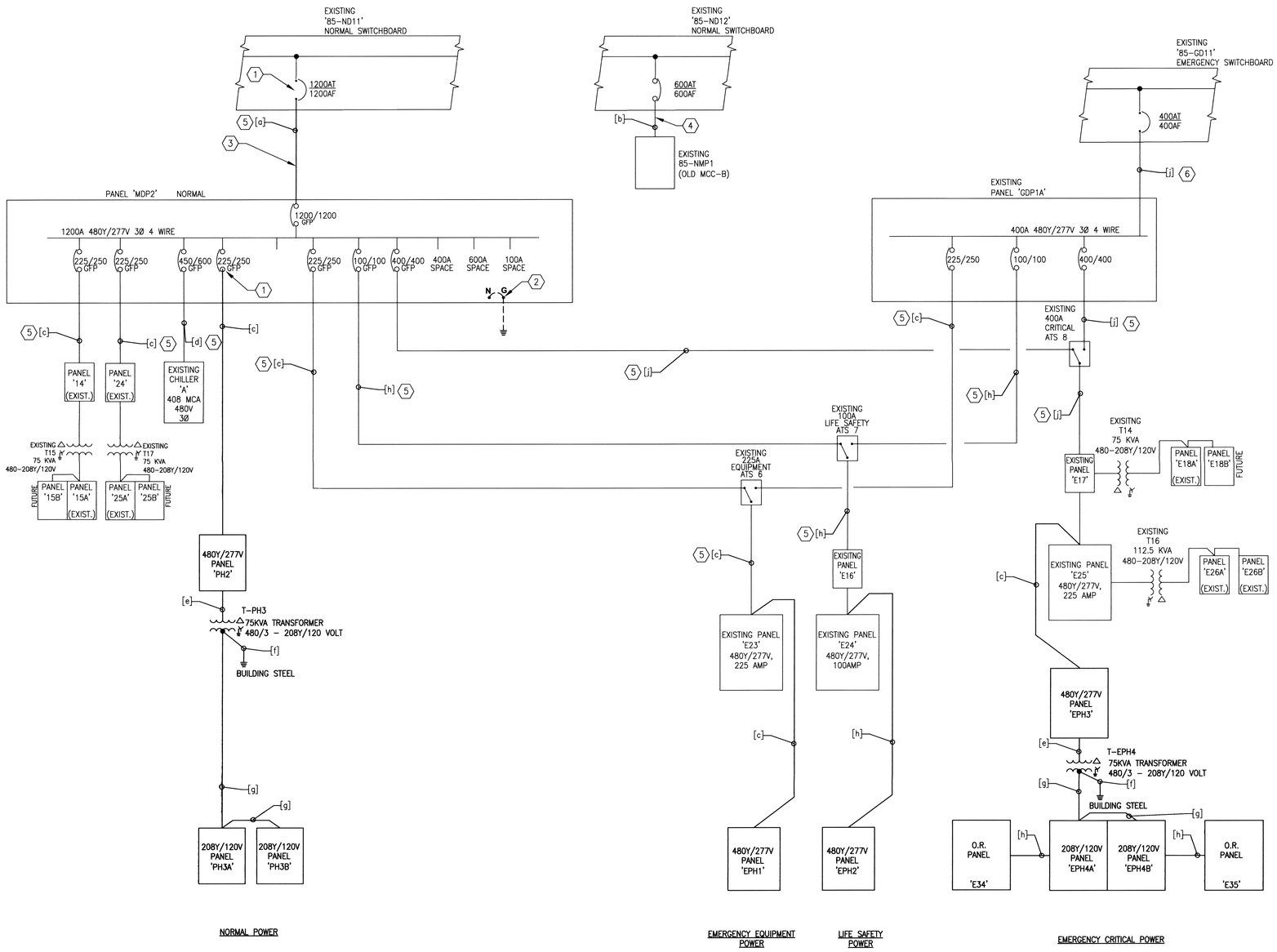
PROFESSIONAL ENGINEER REGISTRATION 9777 STATE OF IDAHO JOHN HATTEN 11/01/11

Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

CAD FILE NAME: 531-317_EP2.5.DWG
XREF FILE NAME: 85A3FL.DWG, 85A3FL KEY PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: ENLARGED ELECTRICAL PLANS
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO.: 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC
DRAWING NO.: E2.5
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION: VAMC BOISE, IDAHO
DWG 177 OF 188
DEPARTMENT OF VETERANS AFFAIRS



LOAD INFORMATION
B85 EXISTING MAX. DEMAND = 352A
SPECIALTY CARE TOWER 'MDP2'
EXISTING MAX. DEMAND = 473A
835A
x 1.25
1031A
ADDED DEMAND LOAD = 275A
TOTAL LOAD = 1306A (PER NEC 220.87)
BUILDING SERVICE = 1600A

GENERAL SHEET NOTES

A. COORDINATE WORK TO MINIMIZE ELECTRICAL DOWNTIME. SCHEDULE POWER SHUTDOWNS DURING WEEKENDS OR OFF HOURS – COORDINATE WITH VA COTR.

SHEET KEYNOTES

1. CONNECT NEW FEEDER INTO EXISTING SPARE BREAKER.
2. REMOVE EXISTING NEUTRAL TO GROUND BONDING JUMPER, AND CONNECTION TO GROUNDING ELECTRODE (PANEL 'MDP2' WILL NO LONGER BE SERVICE ENTRANCE EQUIPMENT, AND WILL BE CONNECTED TO NORMAL SWITCHBOARD 85-ND11).
3. PROVIDE NEW 1200 AMP FEEDER FROM NORMAL SWITCHBOARD '85-ND11' TO 'MDP-2'.
4. PROVIDE NEW 600 AMP FEEDER FROM NORMAL SWITCHBOARD '85-ND11' TO '85-NMP1' (OLD 'MCC-B'). SEE ELECTRICAL SITE PLAN, DRAWING E0.4, FOR CIRCUIT ROUTING INFORMATION.
5. EXTEND EXISTING FEEDER TO TEMPORARY 'MDP2' AND 'ATS' LOCATIONS. RESTORE TO PERMANENT LOCATION AFTER COMPLETION OF STRUCTURAL AND ARCHITECTURAL WORK IN ELECTRICAL 112G.
6. PROVIDE NEW 400 AMP FEEDER FROM EMERGENCY SWITCHBOARD '85-GD11' TO 'GDP1A'.

CIRCUIT SCHEDULE:
[a] – (4) 3"C, EACH WITH 4#350, 1#3/0G
[b] – (2) 3"C, EACH WITH 3#350, 1#1G
[c] – 2 1/2"C, 4#4/0, 1#4G
[d] – (2) 2 1/2"C, EACH WITH 3#4/0, 1#2G
[e] – 1 1/2"C, 3#1, 1#6G
[f] – 3/4"C, 1#2G TO BUILDING STEEL
[g] – 2 1/2"C, 4#4/0, 1#2G
[h] – 1 1/4"C, 4#3, 1#8G
[j] – 3 1/2"C, 4#500, 1#3G

REVISIONS	DATE

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CAD FILE NAME: 531-317_E3.0.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ONE LINE DIAGRAM
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO. 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER 85
CHECKED JH
DRAWN CLC
DRAWING NO. E3.0
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION VAMC BOISE, IDAHO
DWG 178 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS

VA SURGERY/ICU LUMINAIRE SCHEDULE

10/27/2011 11:36

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	WATTS	VOLTS	MOUNTING	COMMENTS
C1	LITHONIA (ALT: CAPRI, INDY, HUBBELL, PORTFOLIO)	AF 2/13DTT 6MB MVOLT	(2) 13W / DTT / 841	30	277	RECESSED	6" DOWNLIGHT; OPEN BLACK BAFFLE CONE
C3	LITHONIA (ALT: INDY, WILA)	ECSR 35/14 6AR 120	LED INCLUDED	38	120	RECESSED	6" DOWNLIGHT; DIMMABLE LED LAMPS
C4	LITHONIA (ALT: CAPRI, INDY, HUBBELL, PORTFOLIO)	LGFLP 1/32TRT 6DFR MVOLT TRW	(1) 32W / TRT / 841	32	277	RECESSED	6" DOWNLIGHT; REGRESSED LENS; WITH WHITE PAINTED FLANGE; WET LOCATI
C5	LITHONIA (ALT: CAPRI, INDY, HUBBELL, PORTFOLIO)	LGF 1/42TRT 8RW T73 MVOLT CW20	(1) 42W / TRT / 841	42	277	RECESSED	DOWNLIGHT, WET LOCATION, PRISMATIC LENS, COLD WEATHER BALLAST
CL1	BORDEN LIGHTING	109-24-CF1/42-277-OXBZ	(1) 42W / TRT / 841	42	277	SURFACE	24" LUMINOUS DRUM, OXIDIZED BRONZE FINISH
E1	LITHONIA (ALT: LIGHTGUARD, EXTRONIX, SURE-LITES)	LE S 1 R 120/277	LAMPS INCLUDED	1	277	SURFACE	EXIT SIGN; SINGLE FACE (RED L.E.D.'S)
E2	LITHONIA (ALT: LIGHTGUARD, EXTRONIX, SURE-LITES)	LE S 2 R 120/277	LAMPS INCLUDED	1	277	SURFACE	EXIT SIGN; DOUBLE FACE (RED L.E.D.'S)
E3	LITHONIA (ALT: LIGHTGUARD, EXTRONIX, SURE-LITES)	ELM2 SD	LAMPS INCLUDED	12	277	SURFACE	EMERGENCY LIGHT, TWO HEADS, SELF-DIAGNOSTICS, LEAD CALCIUM BATTERY
F2	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2WRHT F232 A12125 MVOLT GEB10IS	(2) FO32/841/XP/ECO	58	277	RECESSED	FLANGED FLUORESCENT, ACRYLIC LENS, 2x4; 2-LAMP; WET LOCATION
F5	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	SP8F 232 RW A12 MVOLT GEB10IS	(2) FO32/841/XP/ECO	58	277	RECESSED	FLANGED FLUORESCENT, ACRYLIC LENS, 1x4; 2-LAMP
G2	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2GT8 2 32 RW A12 MVOLT GEB10IS	(2) FO32/841/XP/ECO	58	277	RECESSED	ACRYLIC LENS, 2x4; 2-LAMP
G3	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2GT8 3 32 RW A12 MVOLT GEB10IS	(3) FO32/841/XP/ECO	85	277	RECESSED	ACRYLIC LENS, 2x4; 3-LAMP, **NOTE 5**
G4	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2GT8 4 32 RW A12 MVOLT GEB10IS	(4) FO32/841/XP/ECO	116	277	RECESSED	ACRYLIC LENS, 2x4; 4-LAMP
G5	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	SP8G 232 RW A12 MVOLT GEB10IS	(2) FO32/841/XP/ECO	58	277	RECESSED	ACRYLIC LENS, 1x4; 2-LAMP
G7	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2GT8 3 17 RW A12 MVOLT GEB10IS	(3) FO17/841/XP/ECO	47	277	RECESSED	ACRYLIC LENS, 2x2; 3-LAMP
O1	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	SP8 G 3 32 A12 MVOLT GEB10IS 1/3 PAF	(3) FO32/841/XP/ECO	85	277	RECESSED	SYMM ACRYLIC LENS WITH RADIO FILTER GRID; 1x4, 3-LAMP
O2	LITHONIA (ALT: DAY-BRITE, LSI, METALUX, HUBBELL, COLUMBIA)	2SP8 G 6 32 SYAR MVOLT 1/4 DIM 1/2 GEB10IS PAF DGA24	(6) FO32/841/XP/ECO	170	277	RECESSED	ASYMM, TYPE IV W/RF GRID; 2x4, 6-LAMP; WITH 4 LAMP DIMMING BALLASTS, **NOTE 8**
P1	BORDEN LIGHTING	356-CF1/26-277-OXBZ	(1) 26W / DTT / 841	30	277	PENDANT	LUMINOUS CYLINDER PENDANT, OXIDIZED BRONZE FINISH
R1	LITHONIA (ALT: DAY-BRITE, HEWILLIAMS, METALUX, HUBBELL,)	2RT5S 28T5 MVOLT GEB95S LPM841P	(2) FP28/841/ECO	60	277	RECESSED	VOLUMETRIC, 2x4, 2-LAMP; STEP-DIMMING; **NOTE 7**
S1	LITHONIA (ALT: DAY-BRITE, HEWILLIAMS, METALUX, HUBBELL)	AF 2 32 MVOLT GEB10IS HC36 WGAFPV	(2) FO32/841/XP/ECO	58	277	+96"AFF	CHAIN HANG, UNLESS OTHERWISE NOTED
W1	PRUDENTIAL (ALT: CORELITE, HEWILLIAMS, HUBBELL)	WAL14 P 2T8 04 TMW SC 277 WM 10THD	(2) FO32/841/XP/ECO	58	277	WALL	48"W; MOUNT 6" ABOVE MIRROR, 6'-6" AFF IF NO MIRROR; **NOTE 6**
W2	KENALL (ALT: ALKCO, COLE, MORLITE, FCL, VISTA)	MSL L O GW CP WLL 277 2	4100k LED	1	277	WALL, +12" TO BOT.	L.E.D. NIGHTLIGHT
W3	KENALL (ALT: FAIL-SAFE, HEWILLIAMS, HUBBELL, COLUMBIA)	MWUD 24 MW FA 02 14 RS 277	(2) FP14/841/ECO	30	277	WALL	MOUNT 6" ABOVE MIRROR, 6'-6" AFF IF NO MIRROR; 24" WIDE
W4	PEERLESS (ALT: NATIONAL, PALADIA, CORELITE)	LDDW 010003 T5 X RXX 277 GEB10 SCT LP841 C100 DU	(1) FP28/841/ECO	300	277	WALL	EXTRUDED INDIRECT; WITH DUST COVER; **NOTE 9**

LUMINAIRE SCHEDULE NOTES:

1. GENERAL NOTE: DESIGN IS BASED ON FIRST NAMED MANUFACTURER. THE ALTERNATE MANUFACTURERS ARE ACCEPTABLE, SUBJECT TO COMPLIANCE WITH THE SPECIFIED REQUIREMENTS, MODEL NUMBER, TYPE, AND/OR CATALOG NUMBER.
2. GENERAL NOTE: CONTRACTOR SHALL PROVIDE REQUIRED FIXTURE QUANTITIES, INSTALLATION FEATURES, AND COORDINATE ALL FIXTURE MOUNTING ACCESSORIES.
3. GENERAL NOTE: ALL LAMPS ARE TO BE TCLP COMPLIANT.
4. GENERAL NOTE: REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS, FOR SPECIFIC MOUNTING LOCATIONS, HEIGHTS, AND OTHER REQUIREMENTS..
5. PROVIDE DUAL BALLASTS FOR FIXTURES WHICH REQUIRE DUAL LEVEL SWITCHING. SEE LIGHTING PLANS FOR FIXTURE LOCATIONS AND QUANTITIES.
6. PROVIDE MOUNTING IN STAIR LOCATIONS AT +84" AFF.
7. PROVIDE SWITCH CONDUCTORS FOR STEP DIMMING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, TYPICAL.
8. PROVIDE MOUNTING COORDINATION WITH ARCHITECTURAL DETAILS; PROVIDE LITHONIA DGA 24 FRAME KIT (OR COMPARABLE).
9. WALL MOUNT NEAR BOTTOM OF SKYLIGHT OPENING IN LOCATON SHOWN ON PLANS; PROVIDE CUSTOM LENGTH CONTINUOUS FIXTURE WITH CORNER PIECES. PROVIDE (1) T5 LAMP PER CROSS SECTION, LENGTH AS REQUIRED.

EQUIPMENT SCHEDULE

1	MOUNT IN KNEE SPACE (GROMMETS BY OTHERS)
2	MOUNT 4" ABOVE BACKSPLASH, OR 4" ABOVE COUNTERTOP IF NO BACKSPLASH
3	VCR OR DVD PLAYER +34" AFF (UON)
4	TV, +84" AFF (UON)
5	UNDER COUNTER REFRIGERATOR
6	REFFRIGERATOR, +48" AFF (UON)
7	MICROWAVE +60"AFF (UON)
8	COFFEE MAKER
9	PAC'S WORKSTATION
10	EKG
11	OMNI CELL
12	P-TUBE
13	X-RAY IMAGER
14	CRASH CART
15	ACCUDOSF
16	AUTO-CLAVE
17	BLANKET WARMER
18	DESKTOP FAX PRINTER COPIER
19	FLOOR MOUNT COPIER
20	CLOCK
21	SHREDDER
22	MED GAS ALARM PANEL
23	MOTORIZED DOOR OPERATOR WITH INTERNAL DISCONNECT (UON)
24	FIRE ALARM CONTROL PANEL
25	ICU BOOM
26	DIALYSIS PUMP, +36" AFF, GFI
27	DISHWASHER
28	OPERATING ROOM BOOM
29	C-ARM
30	DRINKING FOUNTAIN
31	WATER DISPENSER
32	WALL MOUNT MONITOR, +60"AFF (UON)
33	ROOM PRESSURE MONITOR, +60" AFF (UON)
34	VENDING MACHINE
35	PATIENT LIFT. WALL MOUNT 6" BELOW LAY-IN CEILING.
36	AUTOMATIC FAUCET
37	OTOSCOPE / OPTHALMOSCOPE
38	VERNACARE
39	MUILT-OUTLET ASSEMBLY

PANELBOARD SCHEDULE

PANEL: 14 | PROJECT: VA SURGERY/ICU
VOLTAGE: 480Y/277 | PHASE: 3 | WIRE: 4 | AMPERE RATING: 225 | SC RATING: 14000
ENTRY: | MOUNTING: SURFACE | PRIMARY MAIN: 225A MAIN C.B.
LOADS: PHASE A: 12270, PHASE B: 12140, PHASE C: 13561, TOTAL: 37971
LOAD TYPES: 1 = LIGHTING, 2 = RECEPTACLE, 3 = MISC, 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 57.1
REMARKS: EXISTING PANEL - NORMAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
640	EXISTING LTG: EXTERIOR	1	20 1	1	A	2	20 1		SPARE	
690	EXISTING LTG: CORRIDOR, VESTIBULE	1	20 1	3	B	4	20 1		SPARE	
2111	LTG: ADMITTING, HALLS	1	20 1	5	C	6	20 1		SPARE	
180	LTG: SHELL	1	20 1	7	A	8	20 1		SPARE	
	SPARE		20 1	9	B	10	20 1		SPARE	
	SPARE		20 1	11	C	12	20 1		SPARE	
	SPARE		20 1	13	A	14	20 1		SPARE	
	SPARE		20 1	15	B	16	20 1		SPARE	
	SPARE		20 1	17	C	18	20 1		SPARE	
	SPARE		20 1	19	A	20	20 1		SPARE	
	SPACE		-- 1	21	B	22	-- 1		SPACE	
	SPACE		-- 1	23	C	24	-- 1		SPACE	
	SPACE		-- 1	25	A	26	-- 1		SPACE	
	SPACE		-- 1	27	B	28	-- 1		SPACE	
	SPACE		-- 1	29	C	30	-- 1		SPACE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	125 3	3	EXISTING TRANSFORMER T15	11450
	SPACE		-- 1	39	B	40	-- --	3	--	11450
	SPACE		-- 1	41	C	42	-- --	3	--	11450

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	3,621	0	34,350	0	37,971
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	3,621	0	34,350	0	37,971
LOADING FOR O.C.P.*	4,526	0	42,938	0	47,464

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: 15A | PROJECT: VA SURGERY/ICU
VOLTAGE: 208Y/120 | PHASE: 3 | WIRE: 4 | AMPERE RATING: 225 | SC RATING: 10000
ENTRY: | MOUNTING: SURFACE | PRIMARY MAIN: 225A MAIN C.B.
LOADS: PHASE A: 10820, PHASE B: 8250, PHASE C: 7260, TOTAL: 26330
LOAD TYPES: 1 = LIGHTING, 2 = RECEPTACLE, 3 = MISC, 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 72.8
REMARKS: EXISTING PANEL - NORMAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
1080	RCP: VESTIBULE, CORRIDOR	2	20 1	1	A	2	20 1	2	EXISTING RCP: EXAM ROOM	1440
720	RCP: WAITING	2	20 1	3	B	4	20 1	2	EXISTING RCP: EXAM ROOM	1260
900	RCP: ADMITTING	2	20 1	5	C	6	20 1	2	EXISTING RCP: EXAM ROOM	1260
1080	RCP: ADMITTING	2	20 1	7	A	8	20 1	2	EXISTING RCP: EXAM ROOM	1440
1200	RCP: COPIER	3	20 1	9	B	10	20 1	2	EXISTING RCP: EXAM ROOM	1260
360	RCP: HOUSEKEEPING	2	20 1	11	C	12	20 1	2	EXISTING RCP: OFFICE	1260
900	RCP: TRIAGE	2	20 1	13	A	14	20 1	2	EXISTING RCP: OFFICE	1260
180	RCP: SHELL	2	20 1	15	B	16	20 1	2	EXISTING RCP: EXAM ROOM	1260
	SPARE	2	20 1	17	C	18	20 1	2	EXISTING RCP: EXAM ROOM	1260
360	RCP: EXTERIOR	2	20 1	19	A	20	20 1	2	EXISTING RCP: ADMITTING	1260
750	RCP: REFRIGERATOR, BREAK ROOM	3	20 1	21	B	22	20 1	2	EXISTING RCP: VESTIBULE	1080
1500	RCP: COFFEE, BREAK ROOM	3	20 1	23	C	24	20 1	3	EXISTING HVAC CONTROL PANEL	180
1500	RCP: MICROWAVE, BREAK ROOM	3	20 1	25	A	26	-- 1		SPACE	
360	RCP: BREAK ROOM	2	20 1	27	B	28	-- 1		SPACE	
540	RCP: BREAK ROOM	2	20 1	29	C	30	-- 1		SPACE	
500	FAN COIL UNIT FCU-48	4	20 1	31	A	32	-- 1		SPACE	
180	RCP: RELIEF AIR SHAFT	2	20 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	-- 1		SPACE	
	SPACE		-- 1	39	B	40	-- 1		SPACE	
	SPACE		-- 1	41	C	42	-- 1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	0	20,700	5,130	500	26,330
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	0	15,350	5,130	625	21,105
LOADING FOR O.C.P.*	0	19,188	6,413	625	26,225

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: E16 | PROJECT: VA SURGERY/ICU
VOLTAGE: 480Y/277 | PHASE: 3 | WIRE: 4 | AMPERE RATING: 100 | SC RATING: 14000
ENTRY: | MOUNTING: SURFACE | PRIMARY MAIN: 100A MAIN C.B.
LOADS: PHASE A: 1120, PHASE B: 790, PHASE C: 0, TOTAL: 1910
LOAD TYPES: 1 = LIGHTING, 2 = RECEPTACLE, 3 = MISC, 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 2.9
REMARKS: EXISTING PANEL - LIFE SAFETY BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
	SPARE		20 1	1	A	2	20 1	1	LTG: HALL, EXITS, STAIR	1120
580	EXISTING LTG: HALL, EXITS, STAIR	1	20 1	3	B	4	20 1	1	LTG: EXTERIOR EXIT	210
	SPARE		20 1	5	C	6	20 1		SPARE	
	SPARE		20 1	7	A	8	20 1		SPARE	
	SPARE		20 1	9	B	10	20 1		SPARE	
	SPARE		20 1	11	C	12	20 1		SPARE	
	SPARE		20 1	13	A	14	20 1		SPARE	
	SPARE		20 1	15	B	16	20 1		SPARE	
	SPARE		20 1	17	C	18	20 1		SPARE	
	SPARE		20 1	19	A	20	20 1		SPARE	
	SPACE		-- 1	21	B	22	-- 1		SPACE	
	SPACE		-- 1	23	C	24	-- 1		SPACE	
	SPACE		-- 1	25	A	26	-- 1		SPACE	
	SPACE		-- 1	27	B	28	-- 1		SPACE	
	SPACE		-- 1	29	C	30	-- 1		SPACE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	100 3	3	EXISTING PANEL E24	0
	SPACE		-- 1	39	B	40	-- --	3	--	0
	SPACE		-- 1	41	C	42	-- --	3	--	0

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	1,910	0	0	0	1,910
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	1,910	0	0	0	1,910
LOADING FOR O.C.P.*	2,388	0	0	0	2,388

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

REVISIONS | DATE

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CAD FILE NAME: 531-317_E3.1.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL SCHEDULES
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO. 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER 85 | CHECKED JH | DRAWN CLC
DRAWING NO. E3.1
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION VAMC BOISE, IDAHO
DWG 179 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS

PANELBOARD SCHEDULE

PANEL: E17 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 480Y/277 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 400 **SC RATING:** 14000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 400A MAIN C.B.
LOADS: PHASE A: 24550 PHASE B: 20260 PHASE C: 20040 TOTAL: 64850
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 97.5
REMARKS: EXISTING PANEL - EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
1750	EXISTING LTG: EXAM ROOMS, ELEC	1	20	1	1	A	2	20	1		SPARE	
1300	EXISTING LTG: CANOPY, AMBULANCE SIGN	1	20	1	3	B	4	20	1		SPARE	
240	LTG: ADMITTING, DECON	1	20	1	5	C	6	20	1		SPARE	
	SPARE		20	1	7	A	8	20	1		SPARE	
	SPARE		20	1	9	B	10	20	1		SPARE	
	SPARE		20	1	11	C	12	20	1		SPARE	
	SPARE		20	1	13	A	14	20	1		SPARE	
	SPARE		20	1	15	B	16	20	1		SPARE	
	SPARE		20	1	17	C	18	20	1		SPARE	
	SPARE		20	1	19	A	20	20	1		SPARE	
	SPACE		--	1	21	B	22	--	1		SPACE	
	SPACE		--	1	23	C	24	--	1		SPACE	
	SPACE		--	1	25	A	26	--	1		SPACE	
	SPACE		--	1	27	B	28	--	1		SPACE	
	SPACE		--	1	29	C	30	--	1		SPACE	
	SPACE		--	1	31	A	32	--	1		SPACE	
	SPACE		--	1	33	B	34	--	1		SPACE	
	SPACE		--	1	35	C	36	--	1		SPACE	
21000	EXISTING PANEL E25	3	225	3	37	A	38	100	3	3	EXISTING TRANSFORMER T14	1800
18000	--	3	--	--	39	B	40	--	--	3	--	960
18000	--	3	--	--	41	C	42	--	--	3	--	1800

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	3,290	0	61,560	0	64,850
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	3,290	0	61,560	0	64,850
LOADING FOR O.C.P.*	4,113	0	76,950	0	81,063

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: 85LP1A **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B.
LOADS: PHASE A: 1200 PHASE B: 1600 PHASE C: 800 TOTAL: 3600
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 12.5
REMARKS: EXISTING PANEL - LIFE SAFETY BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
500	MED GAS ALARM PANEL	3	20	1	1	A	2	20	1		SPARE	
500	FIRE ALARM CONTROL PANEL	3	20	1	3	B	4	20	1		SPARE	
200	DOOR OPERATOR	3	20	1	5	C	6	20	1		SPARE	
	SPARE		20	1	7	A	8	20	1		SPARE	
100	DOOR OPERATOR	3	20	1	9	B	10	20	1		SPARE	
100	DOOR OPERATOR	3	20	1	11	C	12	20	1		SPARE	
500	MED GAS ALARM PANEL	3	20	1	13	A	14	20	1		SPARE	
500	MED GAS ALARM PANEL	3	20	1	15	B	16	20	1		SPARE	
500	MED GAS ALARM PANEL	3	20	1	17	C	18	20	1		SPARE	
200	DOOR OPERATOR	3	20	1	19	A	20	20	1		SPARE	
500	FIRE ALARM CONTROL PANEL	3	20	1	21	B	22	20	1		SPARE	
	SPARE		20	1	23	C	24	20	1		SPARE	
	SPARE		20	1	25	A	26	20	1		SPARE	
	SPARE		20	1	27	B	28	20	1		SPARE	
	SPARE		20	1	29	C	30	20	1		SPARE	
	SPARE		20	1	31	A	32	20	1		SPARE	
	SPARE		20	1	33	B	34	20	1		SPARE	
	SPARE		20	1	35	C	36	20	1		SPARE	
	SPARE		20	1	37	A	38	100	3	3	EXISTING PANEL 85LPPA	0
	SPARE		20	1	39	B	40	--	--	3	--	0
	SPARE		20	1	41	C	42	--	--	3	--	0

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	0	0	3,600	0	3,600
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	0	0	3,600	0	3,600
LOADING FOR O.C.P.*	0	0	4,500	0	4,500

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: PH2 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 480Y/277 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 14000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 12213
LOADS: PHASE A: 31218 PHASE B: 31247 PHASE C: 30550 TOTAL: 93015
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 105.2
REMARKS:

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
	SPARE		20	1	1	A	2	20	1	1	LTG: ICU PATIENT ROOMS	1870
	SPARE		20	1	3	B	4	20	1	1	LTG: ICU NURSE STATION, CORRIDORS	1853
	SPARE		20	1	5	C	6	20	1	1	LTG: ICU OFFICE, LOUNGE, CONF., STORAGE	1670
	SPARE		20	1	7	A	8	20	1	1	LTG: OR CORRIDORS, SUPPORT SPACES	1978
	SPARE		20	1	9	B	10	20	1	1	LTG: PENTHOUSE	1856
	SPARE		20	1	11	C	12	20	1		SPARE	
	SPARE		15	3	13	A	14	20	1		SPARE	
	--		--	--	15	B	16	20	1		SPARE	
	--		--	--	17	C	18	20	1		SPARE	
1330	EXHAUST FAN EF-30	4	15	3	19	A	20	125	3		TRANSFORMER T-PH3	21830
1330	--	4	--	--	21	B	22	--	--		--	21998
1330	--	4	--	--	23	C	24	--	--		--	23340
2105	PUMP P-CWS-5	4	20	3	25	A	26	--	1		SPACE	
2105	--	4	--	--	27	B	28	--	1		SPACE	
2105	--	4	--	--	29	C	30	--	1		SPACE	
2105	PUMP P-CWS-6	4	20	3	31	A	32	--	1		SPACE	
2105	--	4	--	--	33	B	34	--	1		SPACE	
2105	--	4	--	--	35	C	36	--	1		SPACE	
	SPACE		--	1	37	A	38	--	1		SPACE	
	SPACE		--	1	39	B	40	--	1		SPACE	
	SPACE		--	1	41	C	42	--	1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	10,975	50,320	15,100	16620	93,015
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	10,975	30,160	15,100	17146	73,381
LOADING FOR O.C.P.*	13,719	37,700	18,875	17146	87,440

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: PH3A **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 5679
LOADS: PHASE A: 21830 PHASE B: 21998 PHASE C: 23340 TOTAL: 67168
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 163.1
REMARKS: SECTION 1 OF 2. PROVIDE FEED THROUGH LUGS TO FEED SECTION 2.

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
1080	RCP: ICU ROOM 6	2	20	1	1	A	2	20	1	2	RCP: ICU ROOM 1	1080
720	RCP: BOOM - ICU ROOM 6	2	20	1	3	B	4	20	1	2	RCP: BOOM - ICU ROOM 1	720
1080	RCP: ICU ROOM 7	2	20	1	5	C	6	20	1	2	RCP: ICU ROOM 2	1080
720	RCP: BOOM - ICU ROOM 7	2	20	1	7	A	8	20	1	2	RCP: BOOM - ICU ROOM 2	720
1080	RCP: ICU ROOM 8	2	20	1	9	B	10	20	1	2	RCP: ICU ROOM 3	1080
720	RCP: BOOM - ICU ROOM 8	2	20	1	11	C	12	20	1	2	RCP: BOOM - ICU ROOM 3	720
1080	RCP: ICU ROOM 9	2	20	1	13	A	14	20	1	2	RCP: ICU ROOM 4	1080
720	RCP: BOOM - ICU ROOM 9	2	20	1	15	B	16	20	1	2	RCP: BOOM - ICU ROOM 4	720
1080	RCP: ICU ROOM 10	2	20	1	17	C	18	20	1	2	RCP: ICU ROOM 5	1080
720	RCP: BOOM - ICU ROOM 10	2	20	1	19	A	20	20	1	2	RCP: BOOM - ICU ROOM 5	720
900	RCP: ICU NURSE STATION	2	20	1	21	B	22	20	1	3	RCP: FRIDGE - STAFF LOUNGE	750
540	RCP: ICU NURSE STATION	2	20	1	23	C	24	20	1	3	RCP: COFFEE - STAFF LOUNGE	1200
900	RCP: ICU NURSE STATION	2	20	1	25	A	26	20	1	3	RCP: MICROWAVE - STAFF LOUNGE	1500
1200	RCP: COPIER, ICU NURSE STATION	3	20	1	27	B	28	20	1	3	RCP: COFFEE - STAFF LOUNGE	1200
720	RCP: ICU CORRIDORS	2	20	1	29	C	30	20	1	2	RCP: STAFF LOUNGE	720
360	RCP: X-RAY IMAGER, ALCOVE	2	20	1	31	A	32	20	1	2	RCP: CONFERENCE	1080
1080	RCP: CLEAN UTILITY, CLEAN LINEN, MED STOR.	2	20	1	33	B	34	20	1	1	LTG: CONFERENCE	228
1080	RCP: HEAD NURSE OFFICE	2	20	1	35	C	36	20	1	1	LTG: CAN LIGHTS ICU ROOMS 1-5	760
	SPARE		20	1	37	A	38	20	1	1	LTG: CAN LIGHTS ICU ROOMS 6-10	760
	SPARE		20	1	39	B	40	20	1		SPARE	
	SPARE		20	1	41	C	42	20	1		SPARE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	1,748	50,320	15,100	0	67,168
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	1,748	30,160	15,100	0	47,008
LOADING FOR O.C.P.*	2,185	37,700	18,875	0	58,760

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: PH3B **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MLO **MAX AVAILABLE FAULT CURRENT:** 5679
LOADS: PHASE A: 10030 PHASE B: 11600 PHASE C: 12560 TOTAL: 34190
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 92.7
REMARKS: SECTION 2 OF 2

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
720	RCP: NOURISHMENT	2	20	1	1	A	2	20	1	2	RCP: PACU BED	900
1200	RCP: COFFEE - NOURISHMENT	3	20	1	3	B	4	20	1	2	RCP: PACU BED	900
1500	RCP: MICROWAVE - NOURISHMENT	3	20	1	5	C	6	20	1	2	RCP: PACU BED	900
750	RCP: FRIDGE - NOURISHMENT	3	20	1	7	A	8	20	1		SPARE	
540	RCP: SOILED UTILITY	2	20	1	9	B	10	20	1		SPARE	
1260	RCP: STAFF WORK ROOM	2	20	1	11	C	12	20	1		SPARE	
1260	RCP: STAFF WORK ROOM	2	20	1	13	A	14	20	1	2	RCP: PACU	540
900	RCP: ICU CORRIDORS, HSKP	2	20	1	15	B	16	20	1	2	RCP: COFFEE - ICU WAITING ROOM	1200
540	RCP: STAFF LOCKERS, TOILET	2	20	1	17	C	18	20	1	2	RCP: MICROWAVE - ICU WAITING ROOM	1500
900	RCP: EQUIPMENT STORAGE	2	20	1	19	A	20	20	1	2	RCP: ICU WAITING ROOM	1080
720	RCP: EQUIPMENT STORAGE	2	20	1	21	B	22	20	1	2	RCP: CLASSROOM	900
1080	RCP: CLINICAL NURSE SPECIALIST	2	20	1	23	C	24	20	1	2	RCP: CLASSROOM	1080
	SPARE		20	1	25	A	26	20	1	2	RCP: OR CORRIDORS	720
1200	MISC: HEAT TRACE	3 ■	20	1	27	B	28	20	1	2	RCP: MENS, WOMENS, DRINKING FOUNTAIN	540
1200	MISC: HEAT TRACE	3 ■	20	1	29	C	30	20	1	2	RCP: CONSULT	720
720	RCP: PUBLIC ADDRESS, TV - COMM PH6	2	20	1	31	A	32	20	1	2	RCP: CLEAN SUPPLY	720
1200	MISC: HEAT TRACE	3 ■	20	1	33	B	34	20	1	2	RCP: STORAGE, ANESTHESIA WORKROOM	1080
1200	MISC: HEAT TRACE	3 ■	20	1	35	C	36	20	1	2	RCP: ANESTHESIA WORKROOM	540
720	RCP: PENTHOUSE	2	20	1	37	A	38	20	1	3	RCP: C-ARM - ORTHO STORAGE	1000
500	RCP/LTS: AIR HANDLER AHU-16	2	20	1	39	B	40	20	1	2	RCP: OPERATING ROOMS, SUB-STERILE	720
500	RCP/LTS: AIR HANDLER AHU-15	2	20	1	41	C	42	20	1	2	RCP: EXHAUST FANS EF-26, EF-27, EF-28	540

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	0	24,940	9,250	0	34,190
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	0	17,470	9,250	0	26,720
LOADING FOR O.C.P.*	0	21,838	11,563	0	33,400

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.
3. ■ INDICATES EQUIPMENT GFI CIRCUIT BREAKER

PANELBOARD SCHEDULE

PANEL: EPH1 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 480Y/277 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 14000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 9168
LOADS: PHASE A: 30000 PHASE B: 30000 PHASE C: 30000 TOTAL: 90000
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 112.8
REMARKS: EMERGENCY EQUIPMENT BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES		CKT NO	PHASE	CKT NO	AMPS/ POLES		LOAD TYPE	LOAD SERVED	LOAD (VA)
582	EXHAUST FAN EF-26	4	15	3	1	A	2	70	3	4	AIR HANDLER AHU-15 SUPPLY	14958
582	--	4	--	--	3	B	4	--	--	4	--	14958
582	--	4	--	--	5	C	6	--	--	4	--	14958
582	EXHAUST FAN EF-27	4	15	3	7	A	8	25	3	4	AIR HANDLER AHU-15 RETURN	4432
582	--	4	--	--	9	B	10	--	--	4	--	4432
582	--	4	--	--	11	C	12	--	--	4	--	4432
582	EXHAUST FAN EF-28	4	15	3	13	A	14	35	3	4	AIR HANDLER AHU-16 SUPPLY	6648
582	--	4	--	--	15	B	16	--	--	4	--	6648
582	--	4	--	--	17	C	18	--	--	4	--	6648
	SPARE		20	3	19	A	20	15	3	4	AIR HANDLER AHU-16 RETURN	2216
	--		--	--	21	B	22	--	--	4	--	2216
	--		--	--	23	C	24	--	--	4	--	2216
	SPARE		20	3	25	A	26	35	3		SPARE	
	--		--	--	27	B	28	--	--		--	
	--		--	--	29	C	30	--	--		--	
	SPARE		25	3	31	A	32	20	3		SPARE	
	--		--	--	33	B	34	--	--		--	
	--		--	--	35	C	36	--	--		--	
	SPARE		15	3	37	A	38	15	3		SPARE	
	--		--	--	39	B	40	--	--		--	
	--		--	--	41	C	42	--	--		--	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	0	0	0	90000	90,000
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	0	0	0	93740	93,740
LOADING FOR O.C.P.*	0	0	0	93740	93,740

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

REVISIONS | DATE

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PROFESSIONAL ENGINEER REGISTERED 9777 11/01/11 STATE OF IDAHO JOHN HATTEN

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CAD FILE NAME: 531-317_E3.2.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL SCHEDULES
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO.: 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER: 85
CHECKED: JH
DRAWN: CLC
DRAWING NO.: E3.2
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION: VAMC BOISE, IDAHO
DWG 180 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS

PANELBOARD SCHEDULE

PANEL: EPH2 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 480Y/277 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 100 **SC RATING:** 14000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 100A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 5341
LOADS: PHASE A: 870 PHASE B: 60 PHASE C: 0 TOTAL: 930
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 1.4
REMARKS: LIFE SAFETY BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
870	LTG: 3RD FLOOR ICU, CORRIDORS EMERGENCY	1	20 1	1	A	2	20 1		SPARE	
60	LTG: PENTHOUSE EMERGENCY	1	20 1	3	B	4	20 1		SPARE	
	SPARE		20 1	5	C	6	20 1		SPARE	
	SPARE		20 1	7	A	8	20 1		SPARE	
	SPARE		20 1	9	B	10	20 1		SPARE	
	SPARE		20 1	11	C	12	20 1		SPARE	
	SPARE		20 1	13	A	14	20 1		SPARE	
	SPARE		20 1	15	B	16	20 1		SPARE	
	SPARE		20 1	17	C	18	20 1		SPARE	
	SPARE		20 1	19	A	20	20 1		SPARE	
	SPARE		20 1	21	B	22	20 1		SPARE	
	SPARE		20 1	23	C	24	20 1		SPARE	
	SPACE		-- 1	25	A	26	-- 1		SPACE	
	SPACE		-- 1	27	B	28	-- 1		SPACE	
	SPACE		-- 1	29	C	30	-- 1		SPACE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	-- 1		SPACE	
	SPACE		-- 1	39	B	40	-- 1		SPACE	
	SPACE		-- 1	41	C	42	-- 1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	930	0	0	0	930
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	930	0	0	0	930
LOADING FOR O.C.P.*	1,163	0	0	0	1,163

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: EPH3 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 480Y/277 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 14000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 10483
LOADS: PHASE A: 28374 PHASE B: 21444 PHASE C: 26150 TOTAL: 75968
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 91.3
REMARKS: EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
	SPARE		20 1	1	A	2	20 1	1	LTG: ICU ROOMS, NURSE STATION	1572
	SPARE		20 1	3	B	4	20 1	1	LTG: PACU, OR SUPPORT SPACES	1550
	SPARE		20 1	5	C	6	20 1	1	LTG: OPERATING ROOM 3	1870
	SPARE		20 1	7	A	8	20 1	1	LTG: OPERATING ROOM 4	1870
	SPARE		20 1	9	B	10	20 1	1	LTG: PENTHOUSE	754
	SPARE		20 1	11	C	12	20 1		SPARE	
	SPARE		20 1	13	A	14	20 1		SPARE	
	SPARE		20 1	15	B	16	20 1		SPARE	
	SPARE		20 1	17	C	18	20 1		SPARE	
	SPARE		20 1	19	A	20	125 3		TRANSFORMER T-EPH4	24932
	SPARE		20 1	21	B	22	-- --		--	19140
	SPARE		20 1	23	C	24	-- --		--	24280
	SPACE		-- 1	25	A	26	-- 1		SPACE	
	SPACE		-- 1	27	B	28	-- 1		SPACE	
	SPACE		-- 1	29	C	30	-- 1		SPACE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	-- 1		SPACE	
	SPACE		-- 1	39	B	40	-- 1		SPACE	
	SPACE		-- 1	41	C	42	-- 1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	11,816	39,960	22,800	1392	75,968
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	11,816	24,980	22,800	1392	60,988
LOADING FOR O.C.P.*	14,770	31,225	28,500	1392	75,887

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: EPH4A **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 5591
LOADS: PHASE A: 24932 PHASE B: 19140 PHASE C: 24280 TOTAL: 68352
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 184.2
REMARKS: SECTION 1 OF 2. PROVIDE FEED THROUGH LUGS TO FEED SECTION 2. EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
720	RCP: BOOM - ICU ROOM 1	2	20 1	1	A	2	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 1	2	20 1	3	B	4	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
1000	RCP: DIALYSIS PUMP - ICU ROOM 1	3	20 1	5	C	6	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 2	2	20 1	7	A	8	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 2	2	20 1	9	B	10	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
1000	RCP: DIALYSIS PUMP - ICU ROOM 2	3	20 1	11	C	12	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 3	2	20 1	13	A	14	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 3	2	20 1	15	B	16	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
1000	RCP: DIALYSIS PUMP - ICU ROOM 3	3	20 1	17	C	18	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 4	2	20 1	19	A	20	20 1	1	LTG: ICU BOOM EXAM LIGHT	300
720	RCP: BOOM - ICU ROOM 4	2	20 1	21	B	22	20 1		SPARE	
1000	RCP: DIALYSIS PUMP - ICU ROOM 4	3	20 1	23	C	24	20 1		SPARE	
720	RCP: BOOM - ICU ROOM 5	2	20 1	25	A	26	20 1	2	RCP: PCs, ICU ROOM 1,2,3	1080
720	RCP: BOOM - ICU ROOM 5	2	20 1	27	B	28	20 1	2	RCP: PCs, ICU ROOM 4,5	720
1000	RCP: DIALYSIS PUMP - ICU ROOM 5	3	20 1	29	C	30	20 1	2	RCP: PCs, ICU ROOM 6,7,8	1080
720	RCP: BOOM - ICU ROOM 6	2	20 1	31	A	32	20 1	2	RCP: PCs, ICU ROOM 9,10	720
720	RCP: BOOM - ICU ROOM 6	2	20 1	33	B	34	20 1		SPARE	
1000	RCP: DIALYSIS PUMP - ICU ROOM 6	3	20 1	35	C	36	20 1		SPARE	
400	MISC: ROOM PRESSURE MONITORS, ICU	3	20 1	37	A	38	100 3		OPERATING ROOM PANEL 'E34'	4060
	SPARE		20 1	39	B	40	-- --		--	2960
	SPARE		20 1	41	C	42	-- --		--	3580

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	4,200	39,960	22,800	1392	68,352
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	4,200	24,980	22,800	1392	53,372
LOADING FOR O.C.P.*	5,250	31,225	28,500	1392	66,367

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: EPH4B **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 225 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 225A MLO **MAX AVAILABLE FAULT CURRENT:** 5591
LOADS: PHASE A: 13152 PHASE B: 10240 PHASE C: 12720 TOTAL: 36112
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 105.5
REMARKS: SECTION 2 OF 2 EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
720	RCP: BOOM - ICU ROOM 7	2	20 1	1	A	2	20 1	2	RCP: OMNICELL - CLEAN UTILITY	360
720	RCP: BOOM - ICU ROOM 7	2	20 1	3	B	4	20 1	2	RCP: OMNICELL - CLEAN UTILITY	180
1000	RCP: DIALYSIS PUMP - ICU ROOM 7	3	20 1	5	C	6	20 1	3	RCP: UNDERCOUNTER FRIDGE - MED STORAGE	500
720	RCP: BOOM - ICU ROOM 8	2	20 1	7	A	8	20 1	3	RCP: VERNACARE - SOILED UTILITY	1200
720	RCP: BOOM - ICU ROOM 8	2	20 1	9	B	10	20 1	2	RCP: CONFERENCE	360
1000	RCP: DIALYSIS PUMP - ICU ROOM 8	3	20 1	11	C	12	20 1	2	RCP: PACU BED	720
720	RCP: BOOM - ICU ROOM 9	2	20 1	13	A	14	20 1	2	RCP: PACU BED	720
720	RCP: BOOM - ICU ROOM 9	2	20 1	15	B	16	20 1	2	RCP: PACU BED	720
1000	RCP: DIALYSIS PUMP - ICU ROOM 9	3	20 1	17	C	18	20 1	2	RCP: EKG, PC - PACU	540
720	RCP: BOOM - ICU ROOM 10	2	20 1	19	A	20	20 1	2	RCP: OMNICELL, ACCUDOSE - PACU	360
720	RCP: BOOM - ICU ROOM 10	2	20 1	21	B	22	20 1	3	MISC: DOOR OPERATORS - PACU	200
1000	RCP: DIALYSIS PUMP - ICU ROOM 10	3	20 1	23	C	24	20 1	2	RCP: TELEPHONE TERMINAL BOARD - COMM	720
720	RCP: ICU NURSE STATION	2	20 1	25	A	26	20 1	2	RCP: TELECOMM RACK, COMM PH6	360
720	RCP: ICU NURSE STATION	2	20 1	27	B	28	20 1	2	RCP: TELECOMM RACK, COMM PH6	360
1080	RCP: ICU NURSE STATION	2	20 1	29	C	30	20 1	3	RCP: NURSE CALL HEAD END	500
1392	EXHAUST FANS EF-29, EF-32	4	20 1	31	A	32	20 1	3	RCP: SECURITY HEAD END	500
360	RCP: ACCUDOSE, CRASH CART - ALCOVE	2	20 1	33	B	34	20 1	3	MISC: HVAC DDC CONTROL PANEL	750
540	RCP: EKG, PC - ALCOVE	2	20 1	35	C	36	20 1	3	MISC: HVAC DDC CONTROL PANEL	750
600	MISC: P-TUBE - ICU, PACU	3	20 1	37	A	38	100 3		OPERATING ROOM PANEL 'E35'	4060
750	MISC: HVAC DDC CONTROL PANEL	3	20 1	39	B	40	-- --		--	2960
750	MISC: HVAC DDC CONTROL PANEL	3	20 1	41	C	42	-- --		--	2620

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	600	21,420	12,700	1392	36,112
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	600	15,710	12,700	1740	30,750
LOADING FOR O.C.P.*	750	19,638	15,875	1740	38,003

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: E34 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 100 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 100A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 2826
LOADS: PHASE A: 4060 PHASE B: 2960 PHASE C: 3580 TOTAL: 10600
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 36.8
REMARKS: OPERATING ROOM PANEL WITH STAINLESS STEEL FRONT COVER. EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
720	RCP: OR BOOM	2	20 1	1	A	2	20 1	1	LTG: OPERATING ROOM BOOM SURGERY LIGHT	300
720	RCP: OR BOOM	2	20 1	3	B	4	20 1	1	LTG: OPERATING ROOM BOOM SURGERY LIGHT	300
720	RCP: OR BOOM	2	20 1	5	C	6	20 1		SPARE	
720	RCP: OR BOOM	2	20 1	7	A	8	20 1	3	MISC: AUTOCLAVE - SUB-STERILE	1500
720	RCP: OR BOOM	2	20 1	9	B	10	20 1	3	MISC: ACCUDOSE - SUB-STERILE	500
720	RCP: OR BOOM	2	20 1	11	C	12	20 1	3	MISC: BLANKET WARMER - SUB-STERILE	1500
360	RCP: OPERATING ROOM	2	20 1	13	A	14	20 1	3	MISC: ROOM PRESSURE MONITORS, OR	100
360	RCP: OPERATING ROOM	2	20 1	15	B	16	20 1		SPARE	
540	RCP: OPERATING ROOM	2	20 1	17	C	18	20 1		SPARE	
360	RCP: OPERATING ROOM	2	20 1	19	A	20	20 1		SPARE	
360	RCP: OPERATING ROOM	2	20 1	21	B	22	20 1		SPARE	
100	DOOR OPERATOR - OR	3	20 1	23	C	24	20 1		SPARE	
	SPARE		20 1	25	A	26	20 1		SPARE	
	SPARE		20 1	27	B	28	20 1		SPARE	
	SPARE		20 1	29	C	30	20 1		SPARE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	-- 1		SPACE	
	SPACE		-- 1	39	B	40	-- 1		SPACE	
	SPACE		-- 1	41	C	42	-- 1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	600	6,300	3,700	0	10,600
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	600	5,300	3,700	0	10,600
LOADING FOR O.C.P.*	750	7,875	4,625	0	13,250

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

PANELBOARD SCHEDULE

PANEL: E35 **PROJECT:** VA SURGERY/ICU
VOLTAGE: 208Y/120 **PHASE:** 3 **WIRE:** 4 **AMPERE RATING:** 100 **SC RATING:** 10000
ENTRY: **MOUNTING:** SURFACE **PRIMARY MAIN:** 100A MAIN C.B. **MAX AVAILABLE FAULT CURRENT:** 2826
LOADS: PHASE A: 4060 PHASE B: 2960 PHASE C: 2620 TOTAL: 9640
LOAD TYPES: 1 = LIGHTING 2 = RECEPTACLE 3 = MISC 4 = MOTOR
TOTAL CALCULATED O.C.P. AMPS: 33.4
REMARKS: OPERATING ROOM PANEL WITH STAINLESS STEEL FRONT COVER. EMERGENCY CRITICAL BRANCH

LOAD (VA)	LOAD SERVED	LOAD TYPE	AMPS/ POLES	CKT NO	PHASE	CKT NO	AMPS/ POLES	LOAD TYPE	LOAD SERVED	LOAD (VA)
720	RCP: OR BOOM	2	20 1	1	A	2	20 1	1	LTG: OPERATING ROOM BOOM SURGERY LIGHT	300
720	RCP: OR BOOM	2	20 1	3	B	4	20 1	1	LTG: OPERATING ROOM BOOM SURGERY LIGHT	300
720	RCP: OR BOOM	2	20 1	5	C	6	20 1		SPARE	
720	RCP: OR BOOM	2	20 1	7	A	8	20 1	3	MISC: AUTOCLAVE - SUB-STERILE	1500
720	RCP: OR BOOM	2	20 1	9	B	10	20 1	3	MISC: OMNICELL - SUB-STERILE	500
720	RCP: OR BOOM	2	20 1	11	C	12	20 1	2	RCP: CLEAN SUPPLY	540
360	RCP: OPERATING ROOM	2	20 1	13	A	14	20 1	3	MISC: ROOM PRESSURE MONITORS, OR	100
360	RCP: OPERATING ROOM	2	20 1	15	B	16	20 1		SPARE	
540	RCP: OPERATING ROOM	2	20 1	17	C	18	20 1		SPARE	
360	RCP: OPERATING ROOM	2	20 1	19	A	20	20 1		SPARE	
360	RCP: OPERATING ROOM	2	20 1	21	B	22	20 1		SPARE	
100	DOOR OPERATOR - OR	3	20 1	23	C	24	20 1		SPARE	
	SPARE		20 1	25	A	26	20 1		SPARE	
	SPARE		20 1	27	B	28	20 1		SPARE	
	SPARE		20 1	29	C	30	20 1		SPARE	
	SPACE		-- 1	31	A	32	-- 1		SPACE	
	SPACE		-- 1	33	B	34	-- 1		SPACE	
	SPACE		-- 1	35	C	36	-- 1		SPACE	
	SPACE		-- 1	37	A	38	-- 1		SPACE	
	SPACE		-- 1	39	B	40	-- 1		SPACE	
	SPACE		-- 1	41	C	42	-- 1		SPACE	

	LIGHTING	RECPT	MISC.	MOTOR	TOTAL LOAD
CONNECTED VA	600	6,840	2,200	0	9,640
DEMAND FACTOR	1.00	SEE NOTE 1	1.00	SEE NOTE 2	
DEMAND VA	600	6,840	2,200	0	9,640
LOADING FOR O.C.P.*	750	8,550	2,750	0	12,050

*EQUALS DEMAND VA AT 125% (FOR MOTOR LOADS, SEE NOTE 2)

NOTES
1. DEMAND FACTOR: 1ST 10kVA AT 100%; OVER 10KVA AT 50%.
2. LARGEST MOTOR LOAD AT 125%; ALL OTHERS AT 100%.

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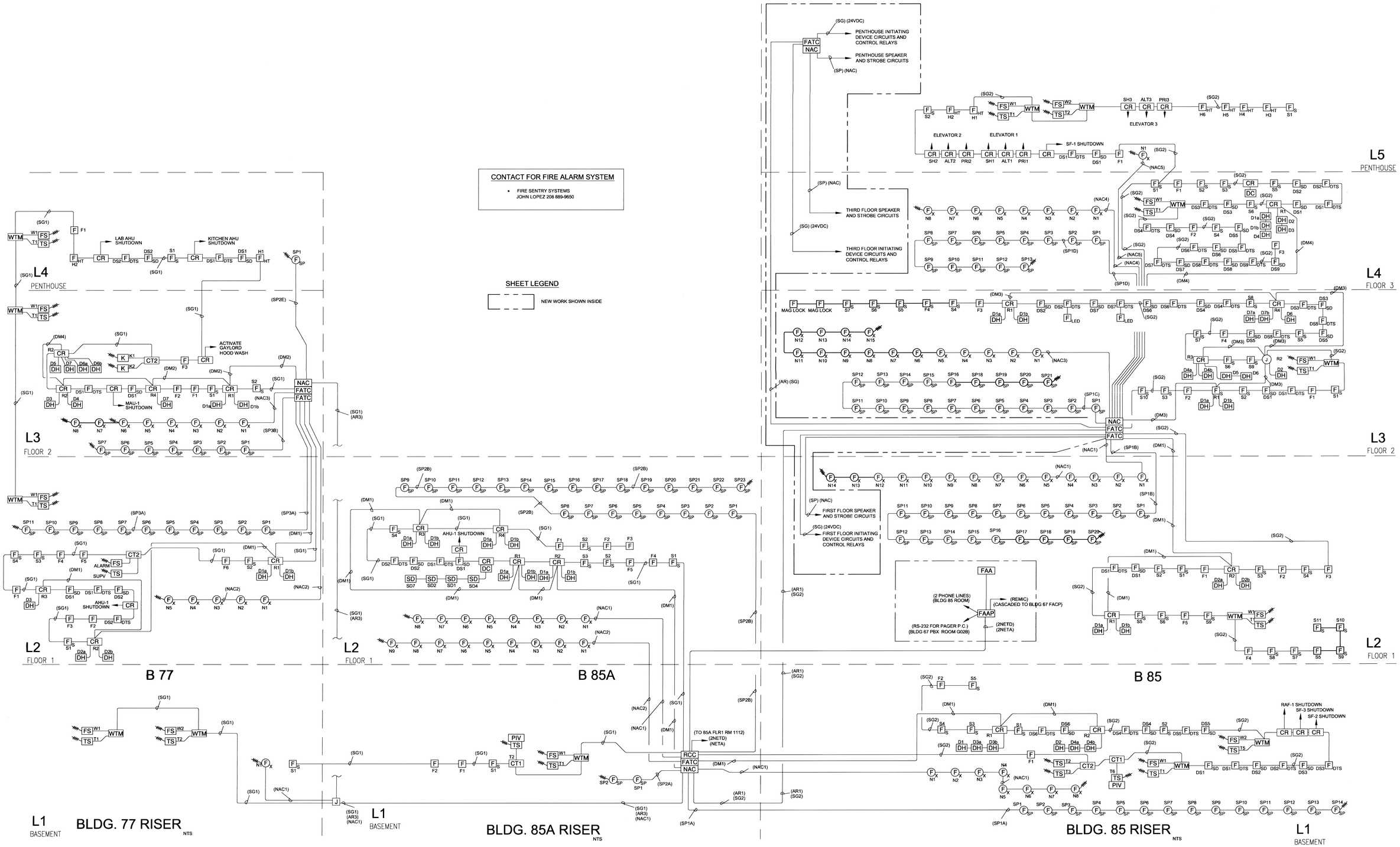
CAD FILE NAME: 531-317_E3.3.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL SCHEDULES
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
DATE: 11/01/2011
PROJECT NO.: 531-317
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC
DRAWING NO.: E3.3
APPROVED: MEDICAL CENTER DIRECTOR
LOCATION: VAMC BOISE, IDAHO
DWG 181 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS



CONTACT FOR FIRE ALARM SYSTEM

- FIRE SENTRY SYSTEMS
  JOHN LOPEZ 208 889-9650

SHEET LEGEND

NEW WORK SHOWN INSIDE

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CAD FILE NAME: 531-317_E3.4.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: FIRE ALARM RISER

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

DATE: 11/01/2011

PROJECT NO.: 531-317

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

DRAWING NO.: E3.4

APPROVED: MEDICAL CENTER DIRECTOR

LOCATION: VAMC BOISE, IDAHO

DWG 182 OF 188

FOR CONSTRUCTION

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SEQUENCE OF OPERATIONS	FACP ANNUNCIATION							SYSTEM OUTPUT				EXISTING FACP			FIRE ALARM ANNUNCIATOR		
VA BUILDING 85 - REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT	ACTIVATE COMMON ALARM INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPV SIGNAL INDIC.	ACTIVATE AUDIBLE SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE COMMON TROUBLE SIGNAL	TEXT DISPLAY OF DEVICE LOCATION AND DESCRIPTION	CONTROL MODULE SHUT DOWN AIR HANDLER	CONTROL MODULE: CLOSE SMOKE DAMPER	ACTIVATE CLEAR STROBE VISUAL EVACUATION SIGNAL	ACTIVATE AUDIBLE EVACUATION SIGNAL	FIRE ALARM, ALARM SIGNAL	SYSTEM SUPERVISORY SIGNAL	SYSTEM TROUBLE SIGNAL	FIRE ALARM, ALARM SIGNAL	SYSTEM SUPERVISORY SIGNAL	SYSTEM TROUBLE SIGNAL
SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1 MANUAL PULL STATIONS	X	X					X			X	X	X			X		
2 PHOTOELECTRIC DUCT DETECTOR (AIR HANDLER)			X	X			X	X	X				X			X	
3 PHOTOELECTRIC DUCT DETECTOR (SMOKE DAMPER)			X	X			X		X				X			X	
4 PHOTOELECTRIC SMOKE DETECTOR	X	X					X			X	X	X			X		
5 HEAT DETECTOR	X	X					X			X	X	X			X		
6 SPRINKLER FLOW SWITCH	X	X					X			X	X	X			X		
7 SPRINKLER TAMPER SWITCH			X	X			X						X			X	
8 POST INDICATING VALVE			X	X			X						X			X	
9 NAC BOOSTER POWER SUPPLY TROUBLE					X	X	X							X			X
10 FACP AC POWER FAILURE					X	X	X							X			X
11 FACP SYSTEM SILENCE			X				X						X			X	
12 FACP SYSTEM LOW BATTERY					X	X	X							X			X
13 SIGNALING LINE CIRCUIT FAULT					X	X	X							X			X
14 GROUND FAULT					X	X	X							X			X
15 NOTIFICATION APPLIANCE CIRCUIT FAULT					X	X	X							X			X
16 EXISTING FACP ALARM SIGNAL	X	X					X			X	X	X			X		
17 EXISTING FACP SUPERVISORY SIGNAL			X	X			X						X			X	
18 EXISTING FACP TROUBLE SIGNAL					X	X	X							X			X

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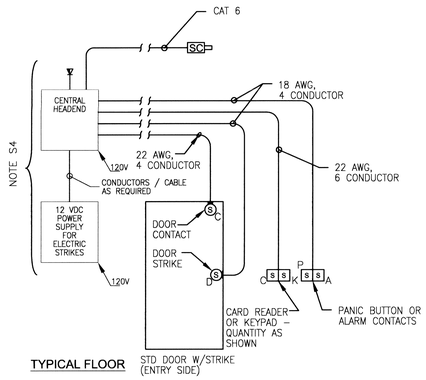
CAD FILE NAME: 531-317_E3.5.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: FIRE ALARM MATRIX
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC
LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011
PROJECT NO.: 531-317
DRAWING NO.: E3.5
DWG 183 OF 188

FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS



TYPICAL FLOOR

SECURITY BLOCK DIAGRAM NOTES:

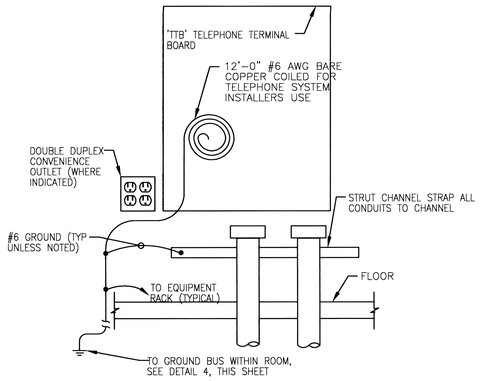
S1. GENERAL NOTE: MANUFACTURER'S STANDARD CONDUCTOR TYPES SHALL BE USED FOR WIRING, EXCEPT #18 AWG IS MINIMUM SIZE. (COMMUNICATIONS WIRING MAY BE #22 AWG). CONDUCTOR TYPES SHOWN ARE BASED ON FIRST-NAMED MANUFACTURER OF SPECIFICATIONS. VERIFY ALL WIRING TYPES WITH SECURITY SYSTEM SUBCONTRACTOR PRIOR TO PURCHASE.

S2. GENERAL NOTE: THE CONDUCTORS FOR THIS SYSTEM SHALL BE ROUTED IN CONDUIT, MINIMUM OF 3/4"C, SEE SHEET E1.0 FOR GENERAL REQUIREMENTS.

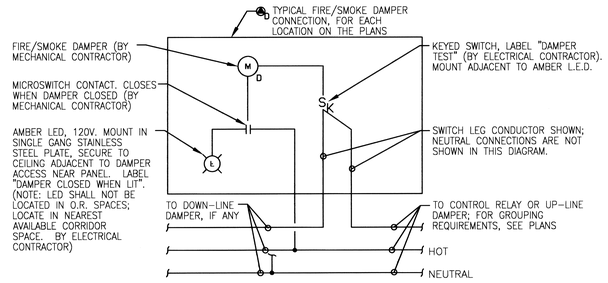
S3. GENERAL NOTE: THIS IS A TYPICAL WIRING DETAIL; NOT ALL DEVICES SHOWN MAY BE REQUIRED FOR THIS PROJECT. ALSO, VERIFY ALL WIRING REQUIREMENTS TO THE DEVICES.

S4. SEE PENTHOUSE ELECTRICAL PLAN, FOR LOCATION OF SECURITY HEADEND EQUIPMENT.

1 SECURITY SYSTEM BLOCK/WIRING DIAGRAM
NTS

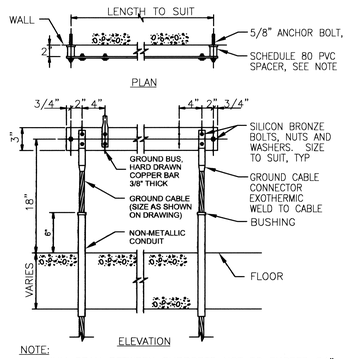


2 COMMUNICATIONS SYSTEM GROUNDING
NTS



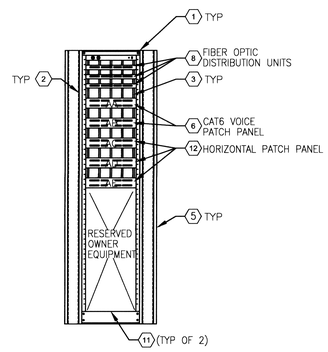
NOTE:
ALL WIRING BY ELECTRICAL CONTRACTOR

3 FIRE/SMOKE DAMPER CONNECTION DETAIL
NTS



NOTE:
MAXIMUM SPAN BETWEEN SUPPORTS NOT TO EXCEED 24".

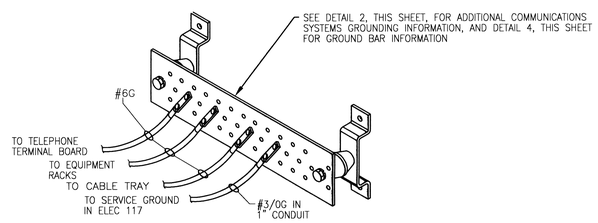
4 GROUND BUS DETAIL
NTS



ITEM DESCRIPTION TABLE		
ITEM	DESCRIPTION	PART INFORMATION
1	EQUIPMENT RACK	19"x3"x84", PANDUIT NO. CMR 19X84S
2	HORIZONTAL WIRE MANAGER	1RMU, PANDUIT NO. WMPFSE
3	HORIZONTAL WIRE MANAGER	2RMU, PANDUIT NO. WMPF1E
4	NOT USED	
5	VERTICAL WIRE MANAGER	4.9", PANDUIT NO. WMPV45E
6	48 PORT PATCH PANEL VOICE	CAT6, PANDUIT NO. NK6PPG48Y
7	NOT USED	
8	FIBER OPTIC DISTRIBUTION UNIT	PANDUIT NO. FT1W12ST
9	NOT USED	
10	NOT USED	
11	POWER STRIP	
12	48 PORT PATCH PANEL	CAT6, PANDUIT NO. NK6PPG48Y

PROVIDE WITH HORIZONTAL CABLE MANAGER D-RINGS, PANDUIT NO CMPH2.

5 TELECOMM ROOM RACK
NTS



6 TELECOMMUNICATIONS GROUND BUSBAR
NTS

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CAD FILE NAME: 531-317_E4.0.DWG
XREF FILE NAME: 531-317xVAbord.DWG

DRAWING TITLE: ELECTRICAL DETAILS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

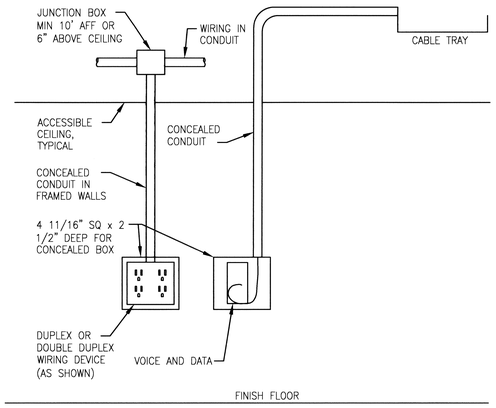
PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

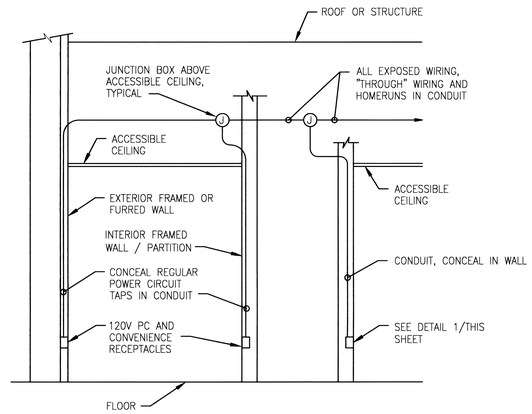
LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011
PROJECT NO.: 531-317
DRAWING NO.: E4.0
DWG 184 OF 188

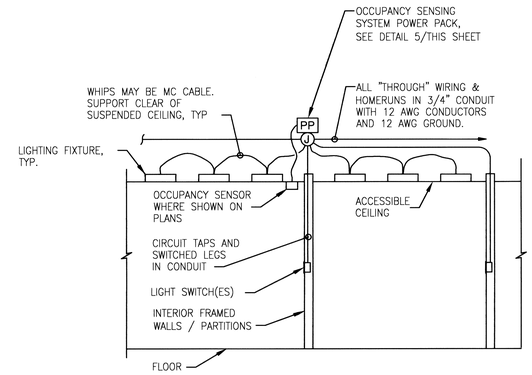
FOR CONSTRUCTION
DEPARTMENT OF VETERANS AFFAIRS



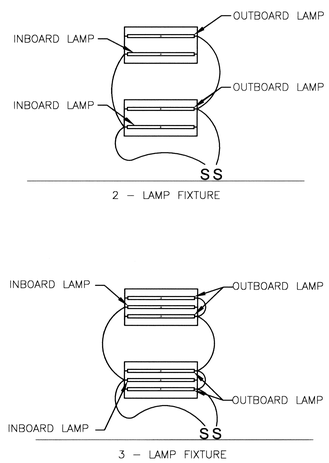
1 TYPICAL OUTLET CLUSTER
NTS



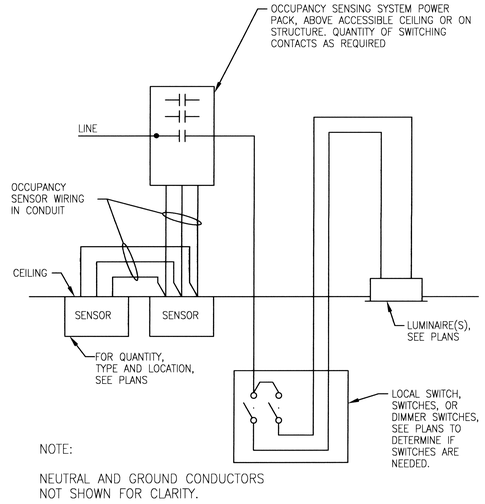
2 POWER WIRING METHODS
NTS



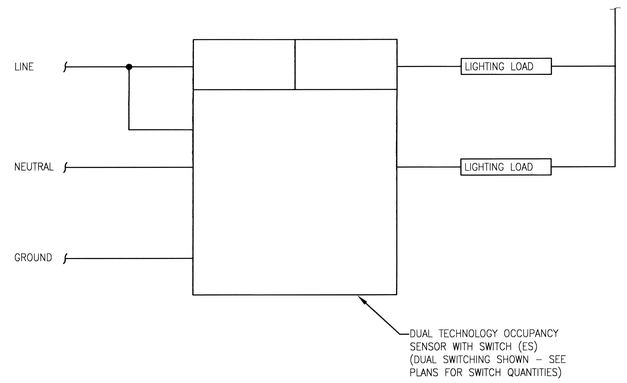
3 LIGHTING WIRING METHODS
NTS



4 LIGHTING CONTROL DETAIL
NTS



CEILING MOUNT SENSOR



WALL SWITCH SENSOR

5 OCCUPANCY SENSOR WIRING
NTS

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CAD FILE NAME: 531–317_E4.1.DWG
XREF FILE NAME: 531–317xVAbord.DWG

DRAWING TITLE: ELECTRICAL DETAILS
APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE
APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT
BUILDING NUMBER: 85
CHECKED: JH
DRAWN: CLC
LOCATION: VAMC BOISE, IDAHO

DATE: 11/01/2011
PROJECT NO.: 531–317
DRAWING NO.: E4.1
DWG 185 OF 188

FOR CONSTRUCTION
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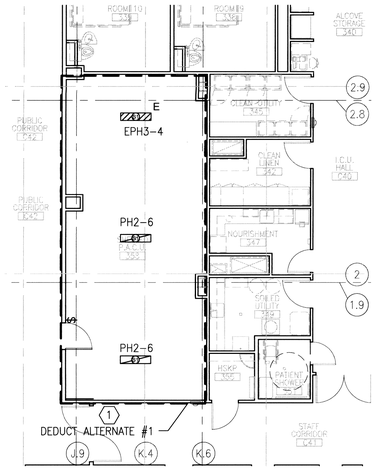
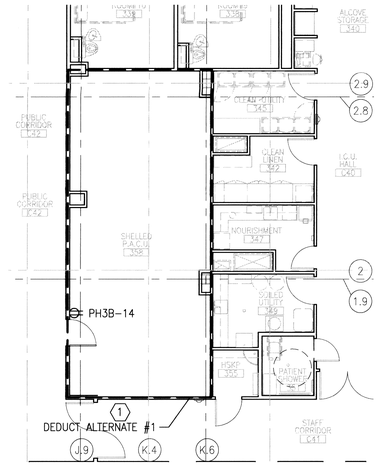


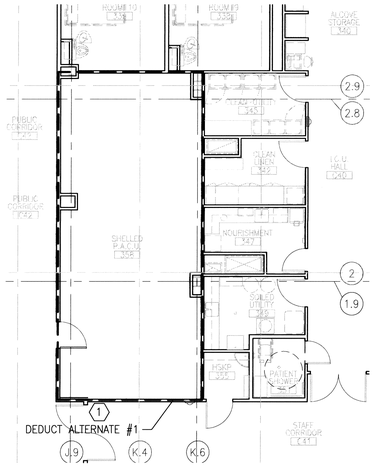
1 THIRD FLOOR – DEDUCT ALTERNATE #7 SHELLED PACU LIGHTING PLAN
1/8"=1-0"

0 4' 8' 16'



2 THIRD FLOOR – DEDUCT ALTERNATE #7 SHELLED PACU POWER PLAN
1/8"=1-0"

0 4' 8' 16'



3 THIRD FLOOR – DEDUCT ALTERNATE #7 SHELLED PACU COMM. PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE AND EQUIPMENT SCHEDULES. SEE DRAWINGS E3.1, E3.2, AND E3.3 FOR PANEL SCHEDULES.

B. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75–FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

C. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH SHOWN.

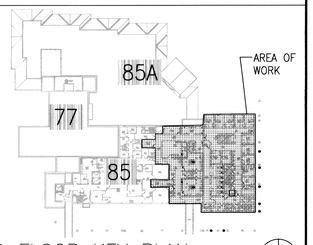
D. COORDINATE LOCATION AND INSTALLATION OF LIGHTING FIXTURES WITH OTHER CONSTRUCTION THAT PENETRATES OR IS SUPPORTED BY CEILINGS.

E. COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

F. FORSTANDARD LIGHTING WIRING METHODS, SEE DETAIL 3/DRAWING E4.1.

SHEET KEYNOTES

1. DEDUCT ALTERNATE #7: OMIT ELECTRICAL WORK SHOWN IN PACU 358 ON DRAWINGS EL2.3, EP2.3, AND EC2.3. FURNISH AND INSTALL ELECTRICAL IN SHELLED PACU 358 AS SHOWN.



THIRD FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531–317_E10.3A.DWG

XREF FILE NAME: 85A3FL_ALT.DWG, 85A3FL_KEY_PLAN.DWG, 85_GRID.DWG, 531–317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: DEDUCT ALTERNATE #7 SHELLED PACU LIGHTING, POWER AND COMM. PLANS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

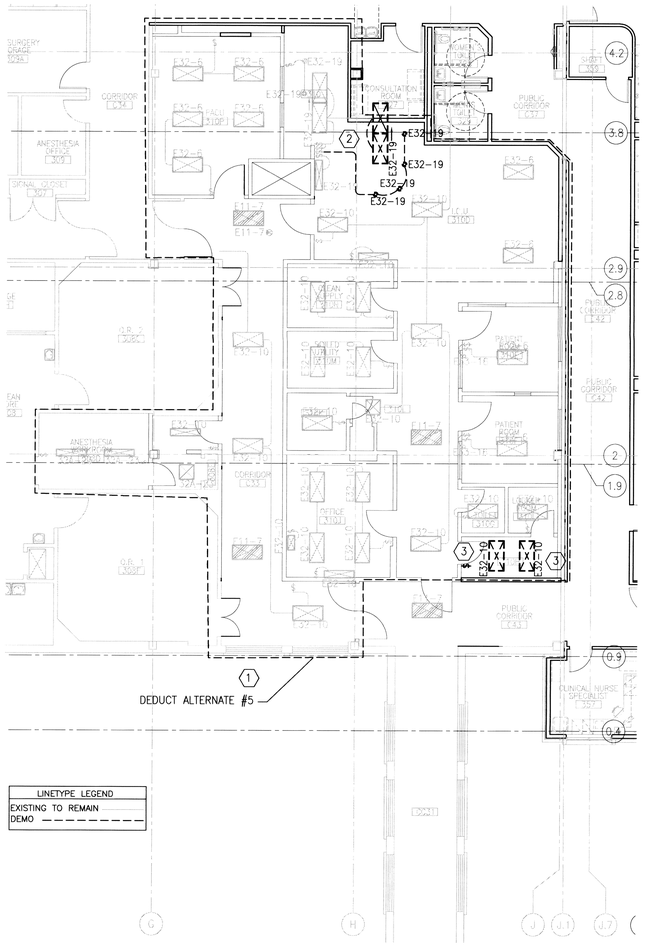
DATE: 11/01/2011

PROJECT NO.: 531–317

DRAWING NO.: E10.3A

DWG 186 OF 188

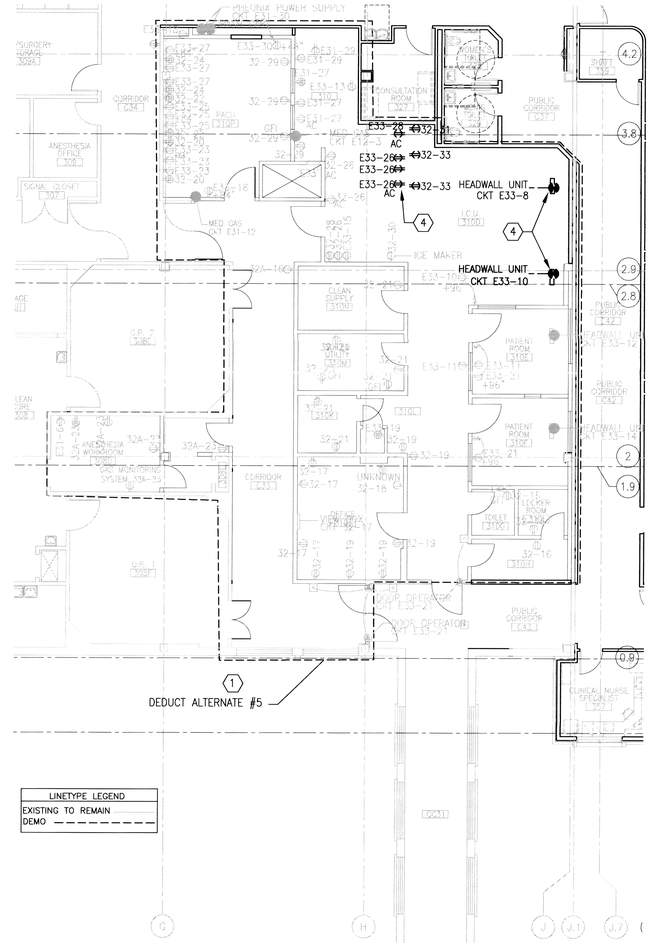
DEPARTMENT OF VETERANS AFFAIRS



1 THIRD FLOOR – DEDUCT ALTERNATE #5 LIGHTING PLAN
1/8"=1-0"

PLAN NORTH

0 4' 8' 16'



2 THIRD FLOOR – DEDUCT ALTERNATE #5 POWER PLAN
1/8"=1-0"

0 4' 8' 16'

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE AND EQUIPMENT SCHEDULES. SEE DRAWINGS E3.1, E3.2, AND E3.3 FOR PANEL SCHEDULES.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

E. CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. PROVIDE, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED TO THE BRANCH CIRCUITS SHOWN. PROVIDE 12 AWG PHASE AND INDIVIDUAL NEUTRAL CONDUCTORS WITH #12 AWG GROUND FOR 20 AMP CIRCUIT LENGTHS LESS THAN 75 FEET. PROVIDE # 10 AWG CONDUCTORS FOR PHASE, NEUTRAL AND GROUND ON 20 AMP CIRCUITS GREATER THAN 75–FEET. SEE ALSO DETAIL 2/DRAWING E4.1.

F. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS IN CONDUIT AS REQUIRED FOR THE COMBINATIONS OF LIGHTS AND LIGHT SWITCHES ASSIGNED TO THE BRANCH SHOWN.

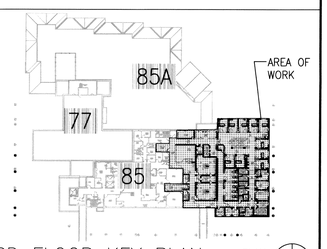
G. COORDINATE LOCATION AND INSTALLATION OF LIGHTING FIXTURES WITH OTHER CONSTRUCTION THAT PENETRATES OR IS SUPPORTED BY CEILINGS.

H. COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.

I. FOR STANDARD LIGHTING WIRING METHODS, SEE DETAIL 3/DRAWING E4.1.1

SHEET KEYNOTES

1. DEDUCT ALTERNATE #5: OMIT ELECTRICAL WORK SHOWN WITHIN ALTERNATE #5 BOUNDARY ON DRAWINGS EL2.3, EP2.3, EC2.3 AND FA2.3. RETAIN AND PROTECT EXISTING ELECTRICAL WITHIN ALTERNATE #5 BOUNDARY, EXCEPT AS SHOWN ON DRAWINGS E10.3B AND E10.3C.
2. REMOVE EXISTING LIGHTING ABOVE ICU NURSE STATION, AND ALL ASSOCIATED CONDUIT AND CONDUCTORS.
3. RELOCATE EXISTING LIGHT FIXTURE; EXTEND AND RECONNECT EXISTING CIRCUIT.
4. REMOVE EXISTING ELECTRICAL AT ICU NURSE STATION AND HEADWALL UNITS, AND ALL ASSOCIATED CONDUIT AND CONDUCTORS.



THIRD FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

REVISIONS	DATE

CH2MHILL®
322 EAST FRONT STREET, SUITE 200, BOISE, ID 83702

PROFESSIONAL ENGINEER REGISTERED 9777 11/01/11 STATE OF IDAHO JOHN HATTEN

Architects and Planners, Chartered
565 W. Myrtle Street, Suite 225 Boise, Idaho 83702-7606

CAD FILE NAME: 531–317_E10.3B.DWG

XREF FILE NAME: 85A3FL_ALT.DWG, 85A3FL_KEY PLAN.DWG, 85_GRID.DWG, 531–317xVAbord.DWG, _COLUMS.DWG

DRAWING TITLE: DEDUCT ALTERNATE #5 LIGHTING AND POWER PLANS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

LOCATION: VAMC BOISE, IDAHO

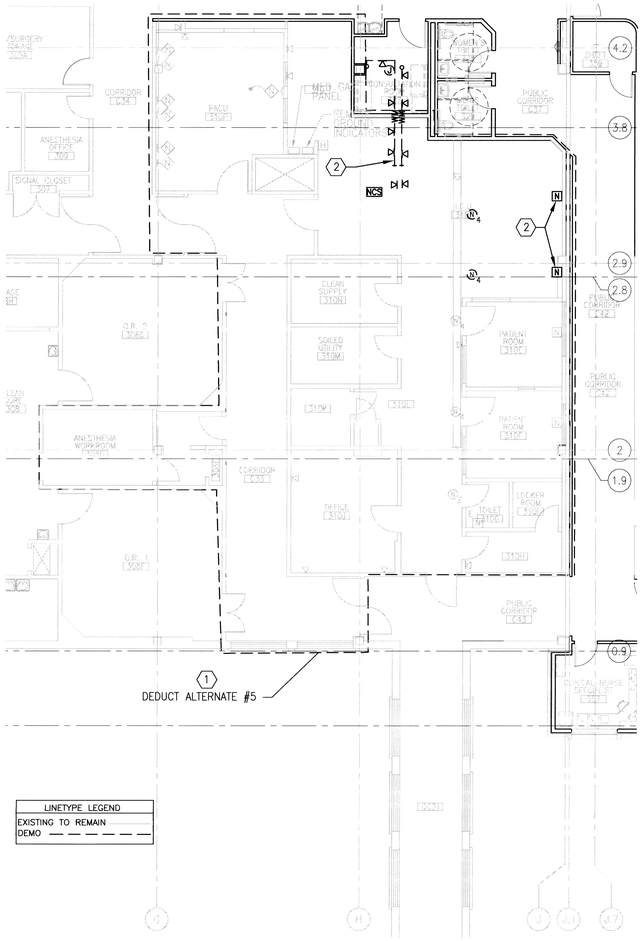
DATE: 11/01/2011

PROJECT NO. 531–317

DRAWING NO. E10.3B

DWG 187 OF 188

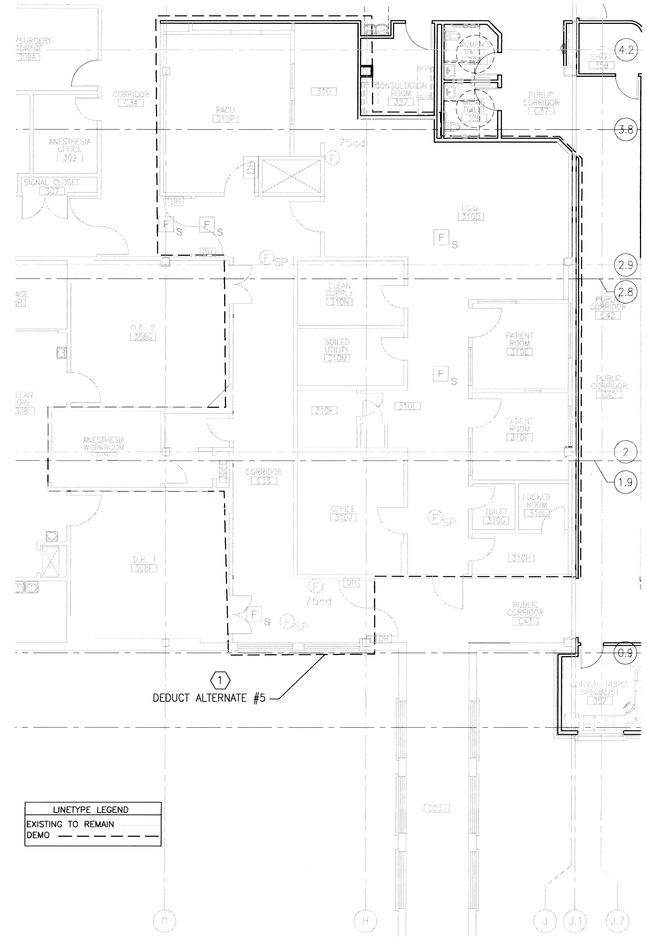
DEPARTMENT OF VETERANS AFFAIRS



1 THIRD FLOOR DEDUCT ALTERNATE #5 COMM. PLAN
1/8"=1-0"

0 4' 8' 16'

PLAN NORTH



2 THIRD FLOOR DEDUCT ALTERNATE #5 FIRE ALARM PLAN
1/8"=1-0"

0 4' 8' 16'

GENERAL SHEET NOTES

A. SEE DRAWINGS E0.1 AND E0.2 FOR ELECTRICAL LEGENDS, ABBREVIATIONS, AND GENERAL NOTES. SEE DRAWING E3.1 FOR LUMINAIRE AND EQUIPMENT SCHEDULES. SEE DRAWINGS E3.1, E3.2 AND E3.3 FOR PANEL SCHEDULES.

B. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.

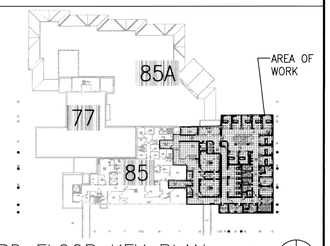
C. EXISTING CONDUIT FOUND TO BE REUSABLE MAY BE USED. ALL OTHER MATERIAL SHALL BE REMOVED FROM THE JOB SITE UNLESS OTHERWISE DIRECTED BY THE VA.

D. EXISTING ELECTRICAL WORK TO REMAIN OUTSIDE THE AREA OF WORK, UNLESS OTHERWISE NOTED. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.

SHEET KEYNOTES

1. DEDUCT ALTERNATE #5: OMIT ELECTRICAL WORK SHOWN WITHIN ALTERNATE #5 BOUNDARY ON DRAWINGS EL2.3, EP2.3, EC2.3 AND FA2.3. RETAIN AND PROTECT EXISTING ELECTRICAL WITHIN ALTERNATE #5 BOUNDARY, EXCEPT AS SHOWN ON DRAWINGS E10.3B AND E10.3C.

2. REMOVE EXISTING NURSE CALL AND TELECOMMUNICATIONS OUTLETS AT ICU NURSE STATION AND HEADWALL UNITS, AND ALL ASSOCIATED CONDUIT AND CABLING.



THIRD FLOOR KEY PLAN
NOT TO SCALE

PLAN NORTH

FOR CONSTRUCTION

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CAD FILE NAME: 531-317_E10.3C.DWG
XREF FILE NAME: 85A3FL_ALT.DWG, 85A3FL_KEY_PLAN.DWG, 85_GRID.DWG, 531-317xVAbord.DWG, _COLUMNS.DWG

DRAWING TITLE: DEDUCT ALTERNATE #5 COMM AND FIRE ALARM PLANS

APPROVED: CHIEF OF FACILITY MANAGEMENT SERVICE

APPROVED: MEDICAL CENTER DIRECTOR

PROJECT TITLE: REPLACE AND MODERNIZE SURGERY / INTENSIVE CARE UNIT

BUILDING NUMBER: 85 | CHECKED: JH | DRAWN: CLC

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DATE: 11/01/2011

PROJECT NO. 531-317

DRAWING NO. E10.3C

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DEPARTMENT OF VETERANS AFFAIRS