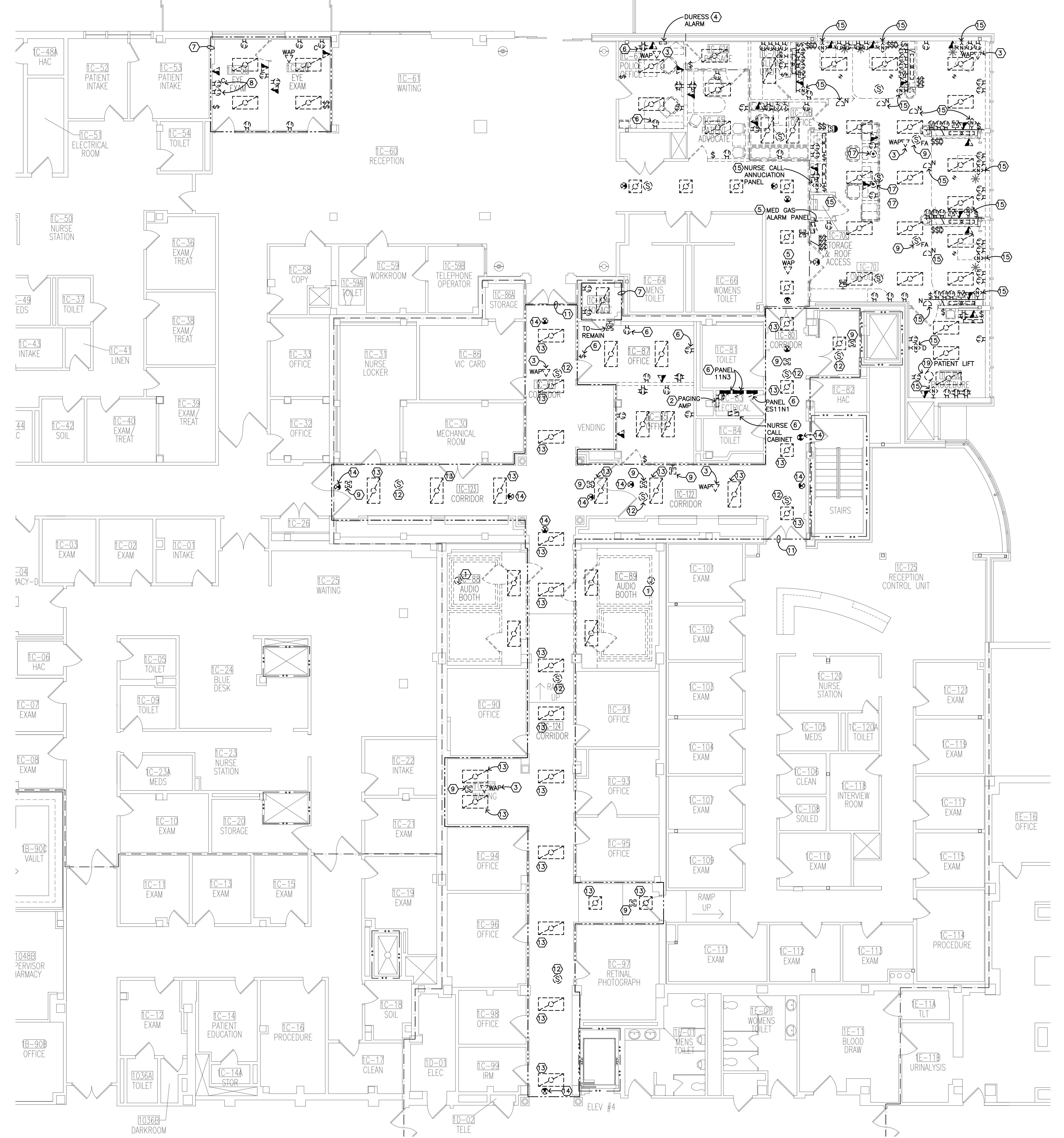


ELECTRICAL SYMBOLS LEGEND														
LIGHTING			POWER			SYSTEMS			FIRE ALARM			MISC/ABBREVIATIONS		
SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
A _O _a	CEILING SURFACE MOUNTED LIGHT FIXTURE, CAPITAL LETTER INDICATES FIXTURE TYPE, SMALL LETTER INDICATES SWITCHING.	6 INCHES ABOVE DOOR FRAME TO BOTTOM	DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	(S)	CEILING MOUNTED RECESSED SPEAKER	48 INCHES	H _E	MANUAL STATION	48 INCHES	Q	CEILING-MOUNTED JUNCTION BOX	18 INCHES	
Ø	RECESSED CEILING MOUNTED LIGHT FIXTURE		DOUBLE DUPLEX RECEPTACLE ("C" INDICATES EMERGENCY CRITICAL BRANCH POWER)	18 INCHES	(S)	CEILING SURFACE MOUNTED SPEAKER		H _T	FIXED TEMPERATURE DETECTOR		W _Ø	WALL JUNCTION BOX		
IO	WALL MOUNTED INCAND. OR H.I.D. LIGHT FIXTURE, SURFACE OR, RECESSED MOUNTED		TYPE L14-30 RECEPTACLE	18 INCHES	(A)	WALL MOUNTED SPEAKER	90 INCHES	G _S	DUCT PHOTOELECTRIC DETECTOR			DASHED LINES INDICATE EXISTING FIXTURES, DEVICES, OR EQUIPMENT		
EO	CEILING EXIT SIGN, SHADED SIDE INDICATES LIGHTED FACE, ARROWS INSTALLED AS SHOWN		TYPE L14-50 RECEPTACLE	18 INCHES	(B)	CLOCK	90 INCHES TO BOTTOM	S _S	PHOTOELECTRIC DETECTOR ('S' INDICATES SLEEPING ROOM WITH AUX. CONTACT, 'G' INDICATES WITH GUARD, 'E' INDICATES FOR ELEVATOR RECALL)			HASH MARKS INDICATE ITEM NOTED TO BE REMOVED		
WE	WALL EXIT SIGN		GFCI TYPE RECEPTACLE	18 INCHES	(C)	CLOCK/SPEAKER UNIT	90 INCHES TO BOTTOM	C	COMBINATION FIRE/SMOKE DAMPER OR SMOKE DAMPER BY DIVISION 15			CONDUIT CONCEALED IN WALL OR CEILING, QUANTITY OF CONDUCTORS NOT SHOWN, PROVIDE AS REQUIRED FOR DEVICE/CIRCUIT NUMBERS SHOWN.		
SF	SUSPENDED FIXTURE		MULTI-OUTLET ASSEMBLY - M.O.A., PROVIDE DEVICES AS SHOWN ON PLANS	18 INCHES	(D)	MICROPHONE OUTLET	18 INCHES	H _F	HORN/STROBE WITH STROBE	BOTTOM OF LENS .80 INCHES		CONDUIT UP		
SF	SURFACE FLUORESCENT		DUPLEX RECEPTACLE, HALF SWITCHED	18 INCHES	(E)	MICROPHONE FLOOR OUTLET		S _F	SPEAKER HORN WITH STROBE	BOTTOM OF LENS .80 INCHES		CONDUIT DOWN		
RF	RECESSED FLUORESCENT		FLOOR OUTLET, 'R' INDICATES RECESSED, 'F' INDICATES FLUSH, 'S' INDICATES SURFACE MOUNT	18 INCHES	(F)	VOLUME CONTROL	48 INCHES	H _S	CHIME WITH STROBE	BOTTOM OF LENS .80 INCHES		CONDUIT CONCEALED IN FLOOR		
FL	FIXTURE CONNECTED TO EMERGENCY LIFE SAFETY POWER WHEN SHADED		TIME SWITCH	18 INCHES	(G)	AMPLIFIER CABINET		H _L	STROBE LIGHT	BOTTOM OF LENS .80 INCHES		UNDERGROUND CONDUIT AT 24 INCHES MINIMUM		
FL	FIXTURE CONNECTED TO EMERGENCY CRITICAL BRANCH POWER		DRY TYPE TRANSFORMER	18 INCHES	(H)	AUXILIARY INPUT OUTLET	18 INCHES	F _A	FIRE ALARM CONDUIT	BOTTOM OF LENS .80 INCHES				
EBL	EMERGENCY BATTERY LIGHT	7 FOOT 6 INCHES	PUSH BUTTON	18 INCHES	(I)	COMPUTER OUTLET (NUMBER INDICATES QUANTITY OF CABLES AND JACKS, NO NUMBER INDICATES ONE)	18 INCHES	F _R	EMERGENCY LIFE SAFETY OR CRITICAL BRANCH POWER CONDUIT CONCEALED IN WALL OR CEILING, QUANTITY OF CONDUCTORS NOT SHOWN, PROVIDE AS REQUIRED FOR DEVICE/CIRCUIT NUMBERS SHOWN.					
ERL	EMERGENCY REMOTE LAMP	7 FOOT 6 INCHES	POWER DOOR HANDICAP PUSH PAD	42 INCHES	(J)	COMBINATION COMPUTER/TELEPHONE OUTLET IN SINGLE GANG OPENING (NUMBER INDICATES QUANTITY OF CABLES AND JACKS, NO NUMBER INDICATES ONE)	18 INCHES	H _M	HOME RUN TO PANELBOARD, QUANTITY OF CONDUCTORS REQUIRED NOT INDICATED, PROVIDED QUANTITY AS REQUIRED FOR CIRCUIT NUMBERS SHOWN, SWITCING ARRANGEMENT, OR NUMBER OF HOME RUNS SHOWN. '#10' INDICATES WIRE SIZE, NO NUMBERS INDICATES #12, 3/4 INCH CONDUIT MINIMUM.					
PC	PHOTO CELL	9 FOOT	EMERGENCY BOILER SHUTDOWN PUSH BUTTON	48 INCHES	(K)	COMPUTER/TELEPHONE OUTLET ("W" INDICATES WALL MOUNTED AT 48 INCHES)	18 INCHES	H _H	MAGNETIC DOOR HOLD OPEN					
CM	CEILING MOUNTED MOTION SENSOR SWITCH		TERMOSTAT - PROVIDE BY DIVISION 16	48 INCHES	(L)	TELEPHONE OUTLET (W" INDICATES WALL MOUNTED AT 48 INCHES)	18 INCHES	S _S	SUPERVISING SWITCH (NUMBER INDICATES NUMBER OF DEVICES AT THIS LOCATION)					
WM	WALL MOUNTED MOTION SENSOR SWITCH	84 INCHES	TERMOSTAT - FURNISHED BY DIVISION 15, INSTALLED BY DIVISION 16	48 INCHES	(M)	FLOOR MOUNTED COMMUNICATIONS OUTLET	18 INCHES	P _S	PRESSURE SWITCH					
MP	MOTION SENSOR SWITCH POWER PACK		TERMINAL SWITCH (MOTOR OVERLOAD TYPE)	48 INCHES	(N)	COMMUNICATIONS FLOOR OUTLET WITH FURNITURE WHIP	18 INCHES	F _C	FLOW SWITCH					
CT	CONTACTOR (NUMBER INDICATES NUMBER OF POLES)		POWER POLE	48 INCHES	(O)	TELEVISION OUTLET	18 INCHES	F _{CP}	FIRE ALARM CONTROL PANEL					
\$1	SINGLE POLE (HORSEPOWER RATED WHEN USED AS MOTOR DISCONNECT)		MOTOR (NUMBER REFERS TO MOTOR AND EQUIPMENT SCHEDULE SEE SCHEDULE FOR WIRING AND CONTROLLER REQUIREMENTS)	48 INCHES	(P)	REQUEST TO EXIT DEVICE	3 INCHES ABOVE DOOR FRAME	ANN	FIRE ALARM ANNUNCIATOR					
\$2	DOUBLE POLE		SURFACE LIGHTING AND APPLIANCE PANELBOARD	48 INCHES	(Q)	DOOR POSITION SWITCH, RECESSED								
\$3	3-WAY		RECESSED LIGHTING AND APPLIANCE PANELBOARD	48 INCHES	(R)	DOOR POSITION SWITCH, SURFACE MOUNT								
\$4	4-WAY		SWITCHBOARD OR MOTOR CONTROL CENTER AS NOTED	48 INCHES	(S)	DOOR POSITION SWITCH								
\$M	OCCUPANCY SENSOR SWITCH		SPECIAL EQUIPMENT CABINET AS NOTED	48 INCHES	(T)	CARD READER								
\$K	KEY OPERATED		ENCLOSED MOLDED CASE CIRCUIT BREAKER	48 INCHES	(U)	SURVEILLANCE CAMERA								
\$P	WITH PILOT LIGHT (CAN BE USED WITH OTHER SWITCH TYPES)		VARIABLE FREQUENCY CONTROLLER WITH DISCONNECT	48 INCHES	(V)	BLUE ALARM LIGHT								
\$D	FLUORESCENT DIMMER		NON-FUSED DISCONNECT	48 INCHES	(W)	EXIT DOOR MONITOR - MOUNTED ABOVE CEILING								
\$MC	MOMENTARY CONTACT		FUSED DISCONNECT	48 INCHES	(X)	ONE AUXILIARY JACK - MOUNTED BELOW PATIENT STATION								
D	DIMMER (600 WATT UNLESS OTHERWISE NOTED)		MAGNETIC STARTER	48 INCHES	(Y)	ONE LOW VOLTAGE LIGHTING RELAY - MOUNTED ABOVE CEILING								
S	LIGHTING INTENSITY SELECTOR PANEL		COMBINATION STARTER-DISCONNECT	48 INCHES	(Z)	WANDERING SYSTEM MONITOR								
SV	LOW VOLTAGE SWITCH													

NOTES:
1. THIS IS A COMPREHENSIVE SYMBOL SCHEDULE, NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.
2. MOUNTING HEIGHT IS TO THE CENTER OF DEVICE UNLESS OTHERWISE INDICATED.
3. FOR DEVICES SHOWN AS 48 INCHES MOUNTING HEIGHT, WHEN INSTALLED IN MASONRY BLOCK WALLS, MOUNTING AT 48 INCHES TO THE TOP OF THE OUTLET BOX IS ACCEPTABLE.

TYPE	MANUFACTURERS	CATALOG INFORMATION	Fixture Description	LUMINAIRE SCHEDULE								
				NO.	Type	No.	Type	INPUT WATTS	VOLTAGE	MOUNTING	REMARKS	
A1	LITHONIA OR EQUAL	2SP8 SERIES	2' X 4' RECESSED FLUORESCENT FIXTURE, REGRESSED ALUMINUM DOOR FRAME HINGED AND LATCHED WITH 0.125 INCH THICK PATTERN #12 DIFFUSER.	3	28W T8 SP41	1	ELECTRONIC	85	120	RECESSED		
A2	LITHONIA OR EQUAL	2SP8 SERIES	2' X 4' RECESSED FLUORESCENT FIXTURE, REGRESSED ALUMINUM DOOR FRAME HINGED AND LATCHED WITH 0.125 INCH THICK PATTERN #12 DIFFUSER.	2	28W T8 SP41	1	ELECTRONIC	58	120	RECESSED		
B1	LITHONIA OR EQUAL	2AV SERIES	2'X4' RECESSED BASKET FIXTURE, STRAIGHT BLADE WHITE LOUVER, ROUND HOLES DIFFUSER.	3	28W T8 SP41	2	ELECTRONIC	85	120	RECESSED		
C1	PORTFOLIO OR EQUAL	LD620 SERIES	6 INCH LED DOWNLIGHT, SEMI SPECULAR REFLECTOR, WHITE TRIM, 2000 DELIVERED LUMENS. COLOR RENDERING INDEX OF 80, 4000 DEGREE COLOR TEMPERATURE.		L.E.D. INCLUDED			36	120	RECESSED		
E1	LITHONIA LE SERIES		SOLID, DIE-CAST ALUMINUM HOUSING, WHITE ALUMINUM FACING WITH WHITE HOUSING. SELF DIAGNOSTICS. UNIVERSAL MOUNTING. AC ONLY.		INCLUDED			1.5	120	UNIVERSAL		
H1	LITHONIA LB SERIES		1" X 4" FLUORESCENT WRAPAROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, WHITE ENAMEL FINISH.	2	28W T8 SP41	1	ELECTRONIC	58	120	SURFACE		
P1	TECH LIGHTING 700 FIRF SERIES		LOW VOLTAGE LED PENDANT WITH GLASS GLOBE. 6 WATT LED MODULE WITH 6 FEET OF FIELD CUTTABLE SUSPENSION CABLE. GLOBE APPROXIMATELY 8 INCHES IN LENGTH. ARCHITECT TO SELECT GLOBE COLOR. VERIFY LENGTH OF CABLE WITH ARCHITECT.		L.E.D. INCLUDED			6	120	PENDANT		
U1	LITHONIA OR EQUAL	N2S SERIES	2 FOOT UNDERCABINET LIGHT WITH SOLID FRONT AND PRISMATIC LENS, WHITE FINISH	1	17W T8 SP41	1	ELECTRONIC	20	120	SURFACE		
W1	LITHONIA OR EQUAL	WP SERIES	2 FOOT WALL MOUNTED FIXTURE. SNAP-IN, ACRYLIC DIFFUSER WITH PRISMATIC PATTERN. GLOSS-WHITE ENAMEL FINISH ON ALL METAL PARTS.	1	17W T8 SP41	1	ELECTRONIC	30	120	WALL		

Project No. 13-061 Date May 10, 2013 10:02am	Dept. of Veterans Affairs Medical Center 2101 Elm Street North Fargo, ND 58102	IMAGE GROUP INC. Architecture & Interiors OBERMILLER NELSON ENGINEERING, Mechanical Engineers MBN ENGINEERING, Electrical Engineers	MBN ENGINEERING MECHANICAL ELECTRICAL CIVIL 503 7th St. N. SUITE 200 Fargo, ND 58102 Phone: 701-274-5230 Fax: 701-274-5240	Drawing Title ELECTRICAL SYMBOLS LEGEND AND LUMINAIRE SCHEDULE	Project Title FARGO VA HEALTH CARE SYSTEM RENOVATE FIRST FLOOR, BUILDING 1	Date MAY 10, 2013
Revisions	Date			Contract No. 437-13-104	Contract No. VA263-P-1217	AS NOTED
				Building No. 1, 46	AutoCAD File Name 13-061El.dwg	Drawn By TP
					Location FARGO VA HEALTH CARE SYSTEM FARGO, ND	Drawing No. E1
						Department of Veterans Affairs



1 E2
FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

Revisions	
Date	

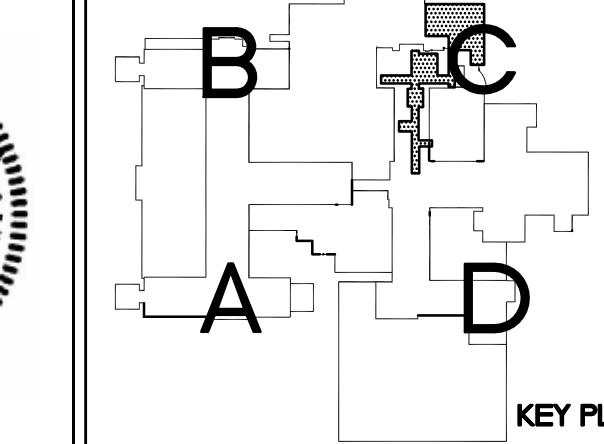


Dept. of Veterans Affairs
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IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
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IMAGE GROUP INC., Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Electrical Engineers



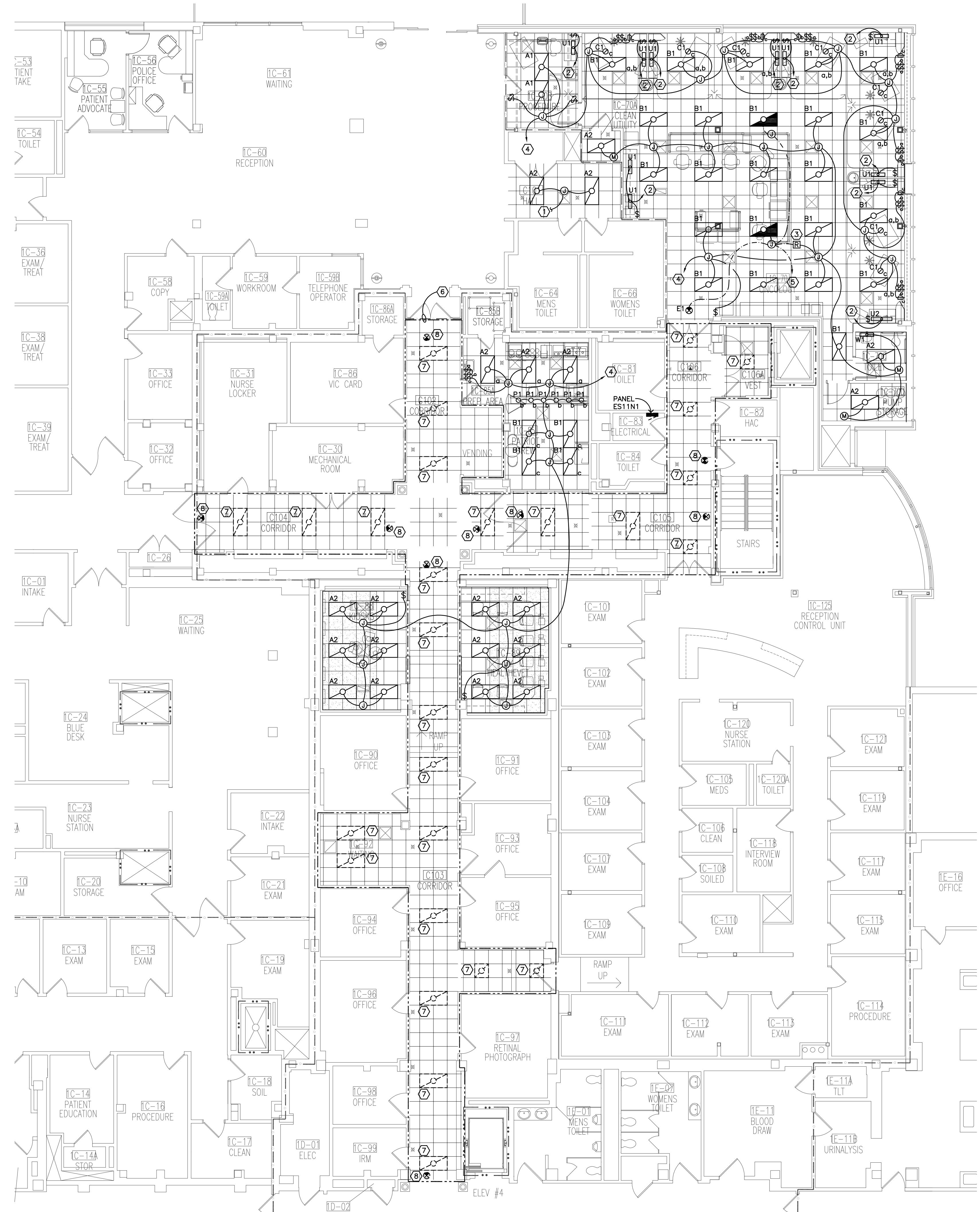
Drawing Title		Project Title	
FIRST FLOOR DEMOLITION PLAN - ELECTRICAL		FARGO VA HEALTH CARE SYSTEM RENOVATE FIRST FLOOR, BUILDING 1	
VA Project No.	Contract No.	Designed By	Date
437-13-104	V263-P-1217 VA263-C	MB	MAY 10, 2013

Building No.	AutoCAD File Name	Location
1, 46	13-061 E2.dwg	FARGO VA HEALTH CARE SYSTEM FARGO, ND

Drawing No.	Checked By	Drawn By	Date
E2	MB	TP	AS NOTED

- GENERAL NOTES:**
1. WORK ON THIS PROJECT IS TO BE COMPLETED IN PHASES, SEE SHEET X2 FOR PHASING PLANS AND DETAILS.
 2. ALL EQUIPMENT, DEVICES, FIXTURES, ET. SHOWN ON THE DEMOLITION PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE.
 3. DISCONNECT POWER, PHONE AND DATA CONNECTIONS FROM AUDIO BOOTH.
 4. PACING AMPLIFIER TO BE RELOCATED WITHIN ROOM, SEE SHEET E5 FOR LOCATION.
 5. DISCONNECT WIRELESS ACCESS ROUTER, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E5.
 6. DISCONNECT DURESS PANEL, AND SALVAGE FOR REINSTALLATION IN NEW POLICE OFFICE.
 7. DISCONNECT MED GAS ALARM PANEL, PANEL TO BE REINSTALLED, SEE SHEET E4.
 8. PANEL FIXTURE OR DEVICE TO REMAIN.
 9. ALL ITEMS WITHIN BOUNDARY ARE TO REMAIN, UNLESS NOTED OTHERWISE.
 10. REMOVE RECEPTEACLES AND CONDUCTORS BACK TO SOURCE OF SUPPLY, PROVIDE BLANK COVER PLATE.
 11. DISCONNECT EXISTING FIRE ALARM DEVICE, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E5.
 12. DISCONNECT EXISTING PATIENT LIFT.
 13. DELETE WORK WITHIN BOUNDARY UNDER DEDUCT ALTERNATE BID 1.
 14. DISCONNECT AND REMOVE EXISTING PAGING SPEAKER, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E5.
 15. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E3.
 16. DISCONNECT AND REMOVE EXISTING EXIT LIGHT, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E3.
 17. DISCONNECT AND REMOVE EXISTING NURSE CALL DEVICE, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E5.
 18. DISCONNECT AND REMOVE EXISTING NURSE CALL MASTER STATION, SALVAGE FOR REINSTALLATION WHERE SHOWN ON SHEET E5.
 19. REMOVE EXISTING FLOOR BOX, PATCH FLOOR.
 20. DISCONNECT EXISTING HANDHELD BCMA DEVICES, TURN DEVICES OVER TO OWNER.
 21. DISCONNECT POWER TO EXISTING PATIENT LIFT, SALVAGE FOR REINSTALLATION.

REFER TO SHEET A5 FOR SCOPE OF WORK IN BASEMENT BELOW ONCOLOGY SUITE. WORK INVOLVES REMOVAL AND REPLACEMENT OF ALL CEILING MOUNTED ELECTRICAL FIXTURES AND DEVICES IN NOTED AREA. SEE CEILING SYMBOLS LEGEND ON SHEET A5 FOR IDENTIFIED ITEMS.

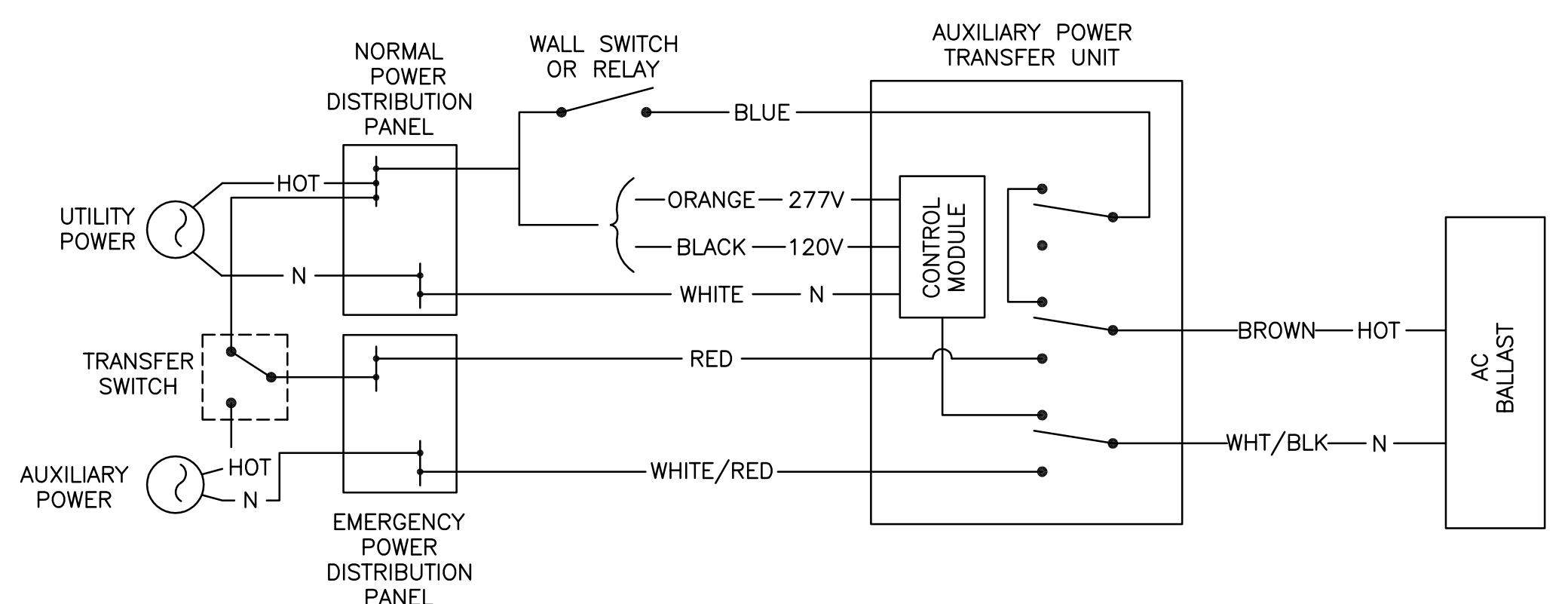


1 FIRST FLOOR REMODELING PLAN - LIGHTING
E3

GENERAL NOTES:
1. WORK ON THIS PROJECT IS TO BE COMPLETED IN PHASES.
SEE SHEET X2 FOR PHASING PLANS AND DETAILS.

2. STARBUCKS 1C-85 AND PRE-AREA 1C-85A IS BUILT ON
A STANCHION. THE POWER CORD IS TO BE PLUGGED
THROUGH BOTH FLOORS IF ANY EQUIPMENT OR DEVICE IS TO BE
MOUNTED FROM BELOW. SEE ARCHITECTURAL PLANS AND
DETAILS FOR EXACT LOCATIONS AND FLOOR DETAILS.

- PLAN NOTES:
 ① CONNECT TO EXISTING SWITCHING AND CIRCUITING.
 ② CONNECT TO NEAREST RECEPTACLE CIRCUIT.
 ③ EMERGENCY LIGHTING RELAY, SEE DETAIL 2/E3.
 ④ CIRCUIT TO (1) 20/1 BREAKER IN EXISTING PANEL 11N3,
PROVIDE NEW BREAKER AS REQUIRED.
 ⑤ CIRCUIT TO (1) 20/1 BREAKER IN EXISTING PANEL
EST111, PROVIDE NEW BREAKER AS REQUIRED.
 ⑥ DELETE WORK WITHIN BOUNDARY UNDER DEDUCT
ALTERNATE BID 1.
 ⑦ INSTALL SALVAGED LIGHT FIXTURE, CONNECT TO EXISTING
SWITCHING AND CIRCUITING.
 ⑧ INSTALL SALVAGED EXIT FIXTURE, CONNECT TO EXISTING
CIRCUITING.



2 EMERGENCY RELAY ONE-LINE DIAGRAM
E3 NO SCALE

Project Log	
Revisions	Date
1	May 10, 2013
2	May 10, 2013
3	May 10, 2013



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102

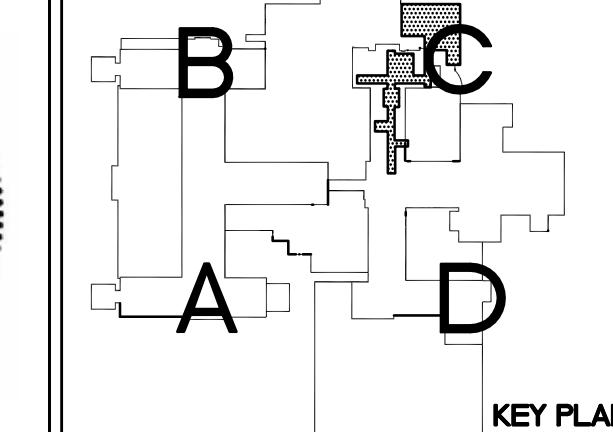


IMAGE GROUP INC.
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Electrical Engineers

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Drawing Title:
FIRST FLOOR REMODELING
PLAN - LIGHTING

VA Project No. 437-13-104 Contract No. VA263-P-1217
Building No. 1, 46 AutoCAD File Name 13-061 E3.dwg
KEY PLAN

Project Title:
FARGO VA HEALTH CARE SYSTEM
RENOVATE FIRST FLOOR,
BUILDING 1

Designed By MB Checked By MB Drawn By TP
Drawing No. E3 Location FARGO VA HEALTH CARE SYSTEM
FARGO, ND

Date MAY 10, 2013
AS NOTED
Drawing No. E3
Dwg. 22 of 25
Department of
Veterans Affairs

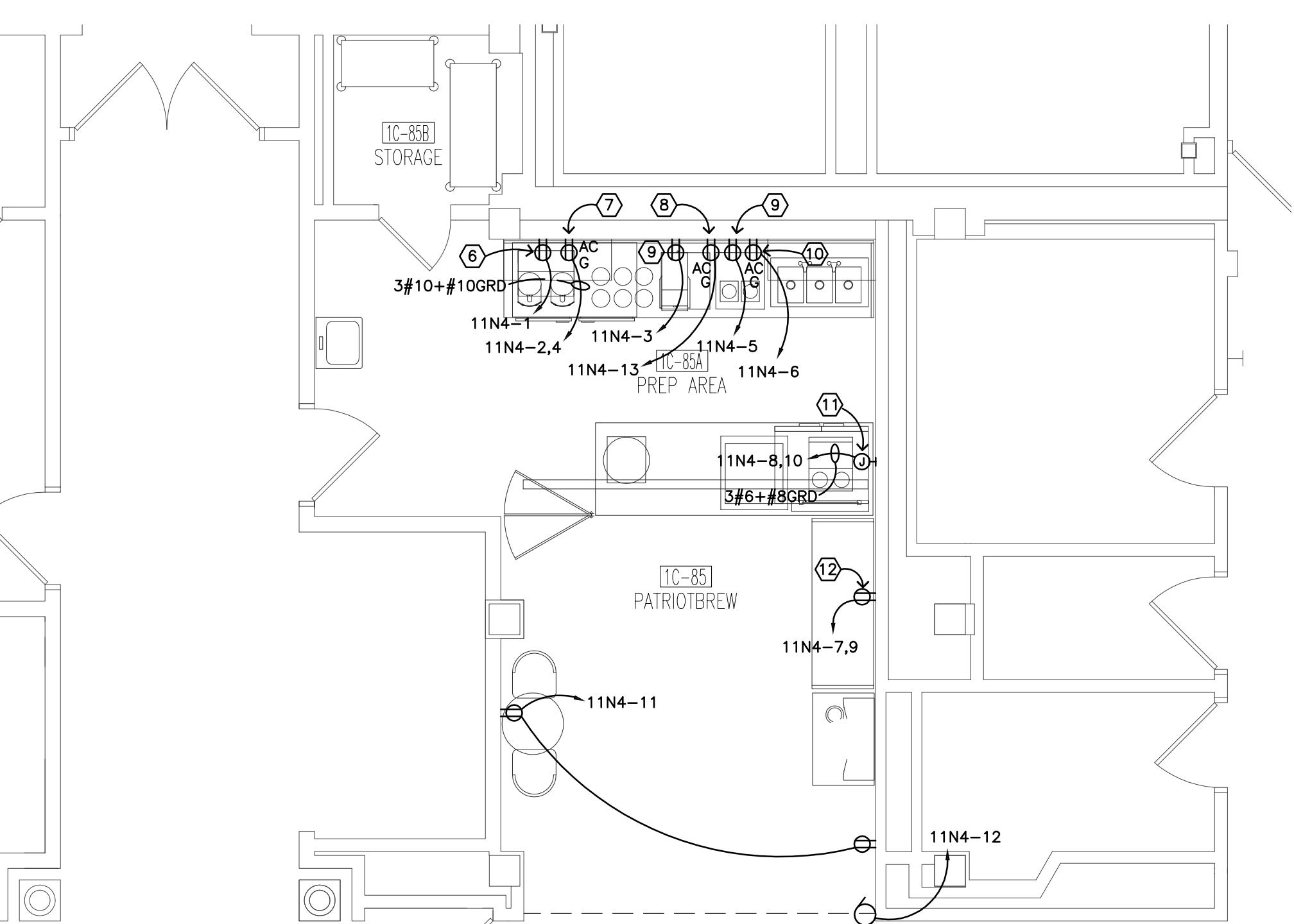
GENERAL NOTES:
 1. WORK ON THIS PROJECT IS TO BE COMPLETED IN PHASES.
 SEE SHEET X2 FOR PHASING PLANS AND DETAILS.

2. PATRIOTBREW 1C-85 AND PREP AREA 1C-85A IS BUILT
 ON A DOUBLE FLUSH FLOOR. PROVIDE CONDUIT
 THROUGH BOTH FLOORS IF ANY EQUIPMENT OR DEVICE IS
 TO BE MOUNTED FROM BELOW. SEE ARCHITECTURAL PLANS
 AND DETAILS FOR EXACT LOCATIONS AND FLOOR DETAILS.

PLAN NOTES:

- ① PROVIDE RECEPTACLE FOR OWNER PROVIDED TELEVISION MOUNTED IN CABINET. VERIFY LOCATION AND MOUNTING HEIGHT WITH VA PROJECT ENGINEER PRIOR TO ROUGH-IN.
- ② PROVIDE 120V NORMA POWER AND CRITICAL POWER CONNECTION TO OMNICELL.
- ③ PROVIDE FLEXIBLE CONNECTION (LIQUIDITE FLEX) TO MODULAR FURNITURE FOR NORMAL POWER.
- ④ PROVIDE FLEXIBLE CONNECTION (LIQUIDITE FLEX) TO MODULAR FURNITURE FOR CRITICAL POWER.
- ⑤ SEE 2/E4 FOR LARGE SCALE PLAN.
- ⑥ PROVIDE RECEPTACLE FOR UNDER COUNTER REFRIGERATOR.
- ⑦ PROVIDE RECEPTACLE AND 208 VOLT CONNECTION TO COFFEE BREWER.
- ⑧ PROVIDE RECEPTACLE FOR ICE TEA BREWER.
- ⑨ PROVIDE RECEPTACLE FOR UNDER COUNTER ICE MAKER.
- ⑩ PROVIDE RECEPTACLE FOR BLENDER.
- ⑪ PROVIDE 208 VOLT SINGLE PHASE CONNECTION TO FABRICATED COUNTER. COUNTER INCLUDES RECEPTACLES FOR UNDER COUNTER REFRIGERATOR, ESPRESSO MACHINE AND CASH REGISTER.
- ⑫ PROVIDE 208 VOLT SINGLE PHASE CONNECTION TO AIR SCOUR REFRIGERATOR. PROVIDE NEMA 6-20 RECEPTACLE.
- ⑬ STUB CONDUIT DOWN WALL FROM CEILING TO FEED RECEPTACLES IN PATIENT STATION(S).
- ⑭ MOUNT ALL RECEPTACLES ALONG WALL BETWEEN FIN TUBE CONDUCTION AND WIRE. ALSO VERIFY MOUNTING HEIGHT WITH VA PROJECT ENGINEER PRIOR TO ROUGH-IN. SEE ARCHITECTURAL ELEVATION 11/4A.
- ⑮ PROVIDE GFCI RECEPTACLE BELOW THE SINK FOR A PLUG IN POWER SUPPLY FOR THE LAVATORY HAN WASH SENSOR.
- ⑯ PROVIDE CONDUIT CONNECTION FROM TRANSFORMER(S) BY MECHANICAL CONTRACTOR TO PLUMBING SENSOR JUNCTION BOXES. MOUNT TRANSFORMERS ABOVE CEILING.
- ⑰ MOUNT RECEPTACLE FOR PAGING AMPLIFIER IN CLEAR SPACE ABOVE PANEL 11N3. PROVIDE MOUNTING BRACKET AND MOUNT PAGING AMPLIFIER NEAR RECEPTACLE.
- ⑲ CIRCUIT TO (1) 20/1 BREAKER IN EXISTING PANEL 11N3. PROVIDE NEW BREAKER AS REQUIRED.
- ⑳ CIRCUIT TO (2) 20/1 BREAKER IN EXISTING PANEL 11N3. PROVIDE NEW BREAKER AS REQUIRED.
- ㉑ MOUNT RECEPTACLE UNDER COUNTER FOR OWNER PROVIDED REFRIGERATOR. PROVIDE BOTH NORMAL AND CRITICAL DEDICATED CIRCUITS.
- ㉒ PROVIDE RECEPTACLE FOR OWNER PROVIDED TELEVISION. VERIFY LOCATION WITH VA PROJECT ENGINEER PRIOR TO ROUGH-IN.
- ㉓ INSTALL CONDUIT RUN FROM FLOOR BOX TO WALL PRIOR TO FLOOR BEING IN-FILLED. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
- ㉔ PROVIDE 120 VOLT CONNECTION TO MOTORIZED GATE, CIRCUIT AS SHOWN. INSTALL CONTROL DEVICE FURNISHED WITH GATE.
- ㉕ PROVIDE NEW RECEPTACLE. CONNECT TO EXISTING CIRCUIT AS SHOWN.
- ㉖ PROVIDE RECEPTACLE FOR PATIENT LIFT. VERIFY HEIGHT AND LOCATION WITH VA PROJECT ENGINEER.
- ㉗ PROVIDE 120 VOLT CONNECTION TO MEDICAL GAS ALARM PANEL CIRCUIT AS SHOWN.
- ㉘ MOUNT RECEPTACLE ON COLUMN BELOW COUNTER.

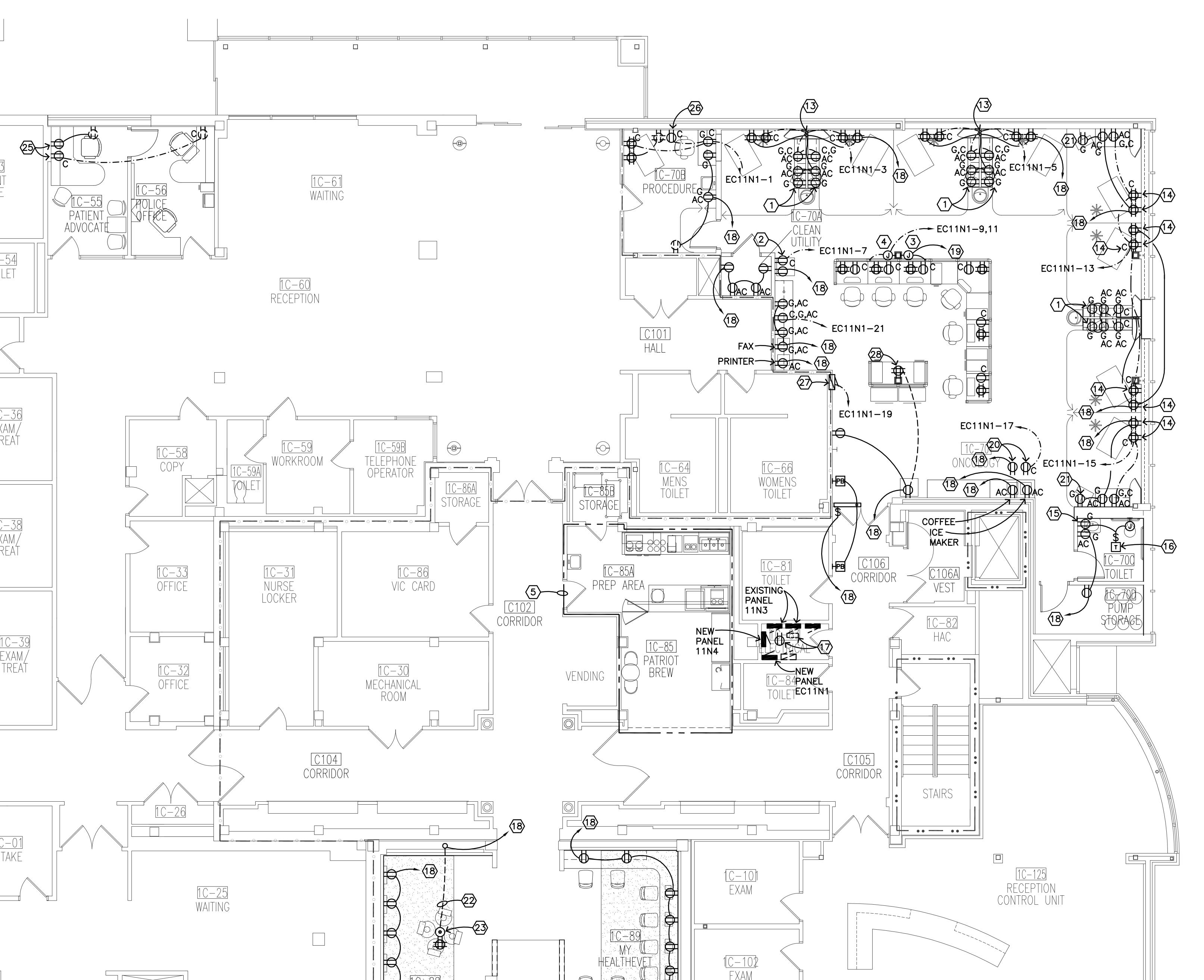
PANELBOARD LOAD SCHEDULE									
PANEL:	EC11N1	MAIN:	MLO	VOLTS:	208Y/120, 3 PH., 4W.	ENCLOSURE:	NEMA 1	LOCATION:	1C-83
RATING:	100 AMP	AIC RATING:	10,000	MOUNTING:	SURFACE	FED FROM:	BLDG 1 SWBD		
CKT # TRIP POLE LOAD IN VOLT-AMPERES PH LOAD DESCRIPTION LOAD IN VOLT-AMPERES TRIP AMPS POLE CKT #									
1	20*	1	400		1C-70B	A	SPARE		20 1 4
3	20	1	1200		1C-70	B	SPARE		20 1 6
5	20	1	500		1C-70 OMNICELL	C	SPARE		20 1 8
7	20	1			1C-70	A	SPARE		20 1 10
9	20	1	1200		1C-70 NURSE STAT	B	SPARE		20 1 12
10	20	1	1200		1C-70 NURSE STAT	C	SPARE		20 1 14
13	20	1	1200		1C-70	A	SPARE		20 1 16
15	20	1	400		1C-70 REF	B	SPARE		20 1 18
19	20	1	500		1C-70 MED GFCI PNL	A	SPARE		20 1 20
21	20	1	200		1C-70	B	SPARE		20 1 22
23	20	1			1C-70	C	SPARE		20 1 24
25	20	1			1C-70	A	SPARE		20 1 26
27	20	1			1C-70	B	SPARE		20 1 28
29	20	1			1C-70	C	SPARE		20 1 30
31	20	1			1C-70	A	SPARE		20 1 32
33	20	1			1C-70	B	SPARE		20 1 34
35	20	1			1C-70	C	SPARE		20 1 36
37	20	1			1C-70	A	SPARE		20 1 38
39	20	1			1C-70	B	SPARE		20 1 40
41	20	1			1C-70	C	SPARE		20 1 42
LOAD CALCULATIONS									
LOAD TYPE	A	B	C	VA	TOTAL VA	Demand Factor	Diversified Load		
LIGHTING	0	0	0	0	0	1.00	0		
RECEPTACLES	1600	3000	1200	5800	2900				
MOTORS & EQUIP.	500	0	1000	1500	1350				
KITCHEN EQUIP.	0	0	0	0	0	0.65	0		
HEAT / AC	0	0	0	0	0	0.90	0		
TOTAL AMPS:	12								
TOTAL VA:	4250								



2 E4
LARGE SCALE PREP AREA PLAN - POWER

PANELBOARD LOAD SCHEDULE									
PANEL:	11N4	MAIN:	MLO	VOLTS:	208Y/120, 3 PH., 4W.	ENCLOSURE:	NEMA 1	LOCATION:	1C-83
RATING:	100 AMP	AIC RATING:	10,000	MOUNTING:	SURFACE	FED FROM:	BLDG 1 SWBD		
CKT # TRIP POLE LOAD IN VOLT-AMPERES PH LOAD DESCRIPTION LOAD IN VOLT-AMPERES TRIP AMPS POLE CKT #									
1	20*	1	650		1C-85A COFFEE	A	1C-85A		30 2 4
3	20*	1	650		1C-85A ICE MAKER	B	1C-85A		2400 20 1 6
5	20*	1	650		1C-85A ICE MAKER	C	1C-85A		1560 20 1 8
7	20	1	1350		1C-85 REF	A	1C-85A		4680 60 2 10
9	20	2	1350		1C-85A	B	1C-85A		4680 60 2 12
11	20	1	400		1C-85A	C	1C-85A		1800 20 1 14
13	20	1	1800		1C-85A	A	1C-85A		1800 20 1 16
15	20	1			1C-85A	B	1C-85A		1800 20 1 18
17	20	1			1C-85A	C	1C-85A		1800 20 1 20
19	20	1			1C-85A	A	1C-85A		1800 20 1 22
21	20	1			1C-85A	B	1C-85A		1800 20 1 24
25	20	1			1C-85A	C	1C-85A		1800 20 1 26
27	20	1			1C-85A	A	1C-85A		1800 20 1 28
29	20	1			1C-85A	B	1C-85A		1800 20 1 30
31	20	1			1C-85A	C	1C-85A		1800 20 1 32
33	20	1			1C-85A	A	1C-85A		1800 20 1 34
35	20	1			1C-85A	B	1C-85A		1800 20 1 36
37	20	1			1C-85A	C	1C-85A		1800 20 1 38
39	20	1			1C-85A	A	1C-85A		1800 20 1 40
41	20	1			1C-85A	B	1C-85A		1800 20 1 42
LOAD CALCULATIONS									
LOAD TYPE	A	B	C	VA	TOTAL VA	Demand Factor	Diversified Load		
LIGHTING	0	0	0	0	0	1.00	0		
RECEPTACLES	1800	0	400	2200	1100				
MOTORS & EQUIP.	6630	6680	2450	15760	0.90				
KITCHEN EQUIP.	2400	2400	1560	6360	0.65				
HEAT / AC	0	0	0	0	0.90				
TOTAL AMPS:	54								
TOTAL VA:	19418								

NOTES:
 1. BREAKER NOTED WITH * TO BE GFCI



1 E4
FIRST FLOOR REMODELING PLAN - POWER

Revisions	Date



Dept. of Veterans Affairs
Medical Center
2101 Elm Street North
Fargo, ND 58102

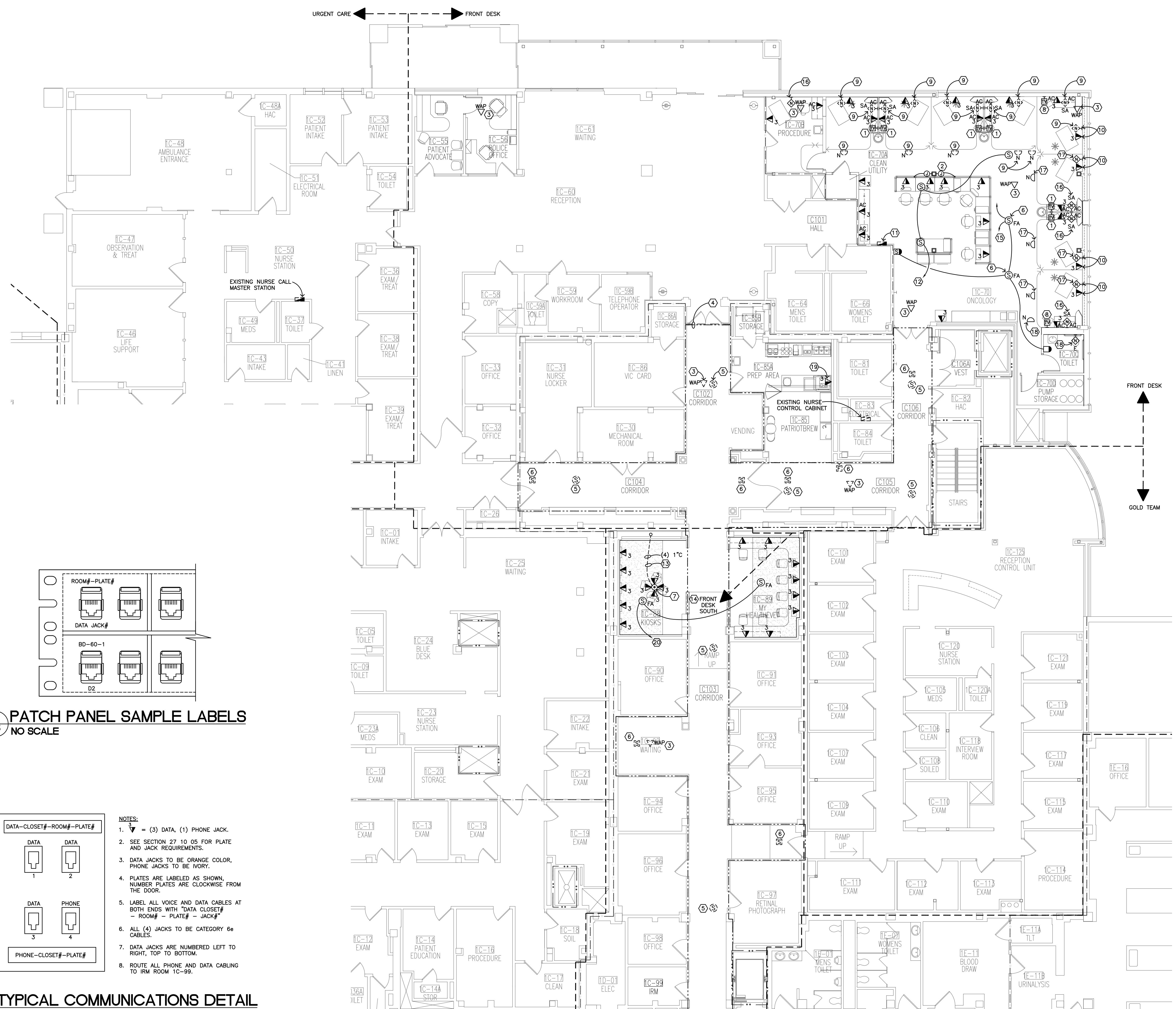
IMAGE GROUP INC. Architecture & Interiors

GENERAL NOTES:

- WORK ON THIS PROJECT IS TO BE COMPLETED IN PHASES, SEE SHEET X2 FOR PHASING PLANS AND DETAILS.
- STARBUCKS IC-85 AND PREP AREA IC-84 ARE TO BE BUILT ON THE NEW FLOOR. EXISTING EQUIPMENT MUST DRAWDOWN THROUGH BOTH FLOORS IF ANY EQUIPMENT OR DEVICE IS TO BE MOUNTED FROM BELOW. SEE ARCHITECTURAL PLANS AND DETAILS FOR EXACT LOCATIONS AND FLOOR DETAILS.
- ROUTE ALL PHONE AND DATA CABLEING TO IRM ROOM 1C-99.

PLAN NOTES:

- PROVIDE RECEPTACLE FOR OWNER PROVIDED TELEVISION, SEE SHEET X2 FOR PHASING PLANS AND DETAILS.
- PROVIDE WIRELESS ACCESS POINT SALVAGED DURING DEMOLITION, VERIFY LOCATION WITH VA PROJECT ENGINEER.
- INSTALL WIRELESS ACCESS ROUTER SALVAGED DURING DEMOLITION, VERIFY LOCATION WITH VA PROJECT ENGINEER.
- DELETE WORK WITHIN BOUNDARY UNDER DEDUCT ALTERNATE BID 1.
- INSTALL SALVAGED PAGING SPEAKER, CONNECT TO EXISTING CIRCUIT.
- INSTALL SALVAGED FIRE ALARM DEVICE, CONNECT TO EXISTING CIRCUIT AND FIRE ALARM ZONE.
- THE FLOOR BOX SHOWN IS THE SAME ONE SHOWN ON SHEET E4.
- PROVIDE WALL MOUNTED RECEPTACLE FOR OWNER PROVIDED TELEVISION, VERIFY LOCATION WITH VA PROJECT ENGINEER PRIOR TO ROUGH-IN, CONNECT TO EXISTING HOSPITAL TELEVISION DISTRIBUTION SYSTEM.
- INSTALL SALVAGED NURSE CALL DEVICE, CONNECT TO EXISTING NURSE CALL SYSTEM.
- MOUNT ALL DEVICES ALONG WALL BETWEEN FIN TUBE RADIATION AND WINDOW SILL VERIFY MOUNTING HEIGHT WITH VA PROJECT ENGINEER PRIOR TO ROUGH-IN.
- INSTALL SALVAGED NURSE CALL ANNUNCIATOR PANEL, CONNECT TO EXISTING NURSE CALL SYSTEM.
- CONNECT TO EXISTING PAGING SYSTEM IN CORRIDOR.
- INSTALL CONDUIT RUN FROM FLOOR BOX TO WALL PRIOR TO FLOOR BEING IN-FILLED. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR.
- REPROGRAM THE FIRE ALARM SYSTEM VOICE COMMUNICATION SYSTEM WITH THE NEW ZONE INDICATED.
- TO NEAREST EXISTING 'FRONT DESK' FIRE ALARM ZONE CIRCUIT.
- PROVIDE NEW NURSE CALL DEVICE. DEVICE MUST BE SIMILAR TO AND BE COMPATIBLE WITH JERON PRO-ALERT 640 DEVICE TO NOTIFY URGENT CARE STAFF OF PATIENT REQUEST FOR ASSISTANCE VIA CEILING NURSE CALL LIGHT. CONNECT DEVICE TO NURSE CALL CONTROL CABINET IN ELECTRICAL ROOM 1C-83 AND NURSE CALL ANNUNCIATOR PANEL.
- PROVIDE NEW NURSE CALL DEVICE. DEVICE MUST BE SIMILAR TO AND BE COMPATIBLE WITH JERON PRO-ALERT 610 DEVICE TO NOTIFY ONCOLOGY STAFF OF PATIENT REQUEST FOR ASSISTANCE VIA CEILING NURSE CALL LIGHT.
- MOUNT DATA RECEPTACLE BELOW COUNTER TO ALLOW BELOW COUNTER CONNECTION TO REGISTER.
- TO NEAREST EXISTING 'FRONT DESK SOUTH' FIRE ALARM ZONE CIRCUIT.



Revisions	Date
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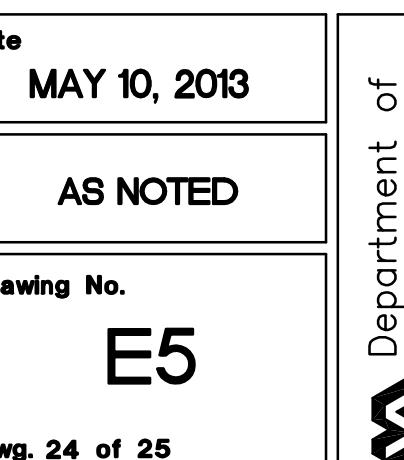
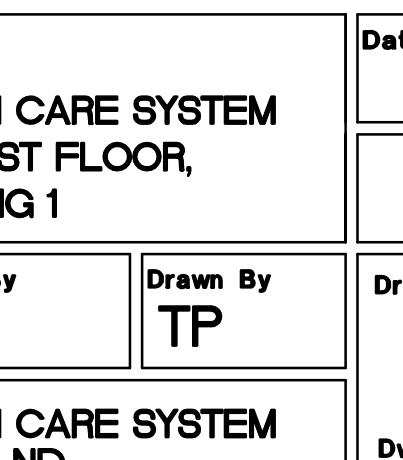
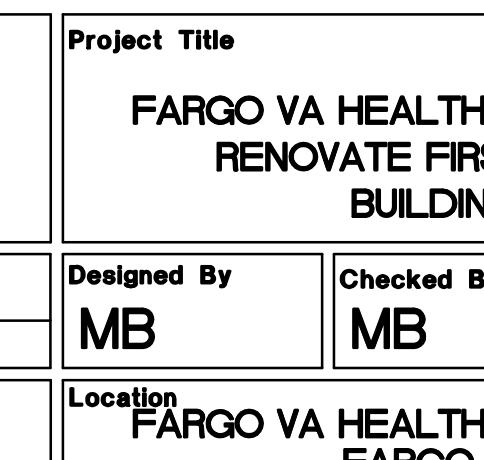
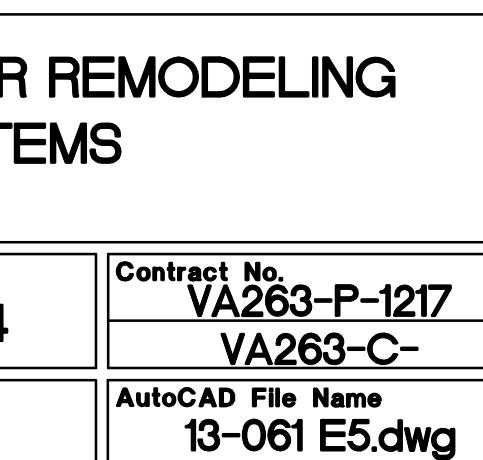
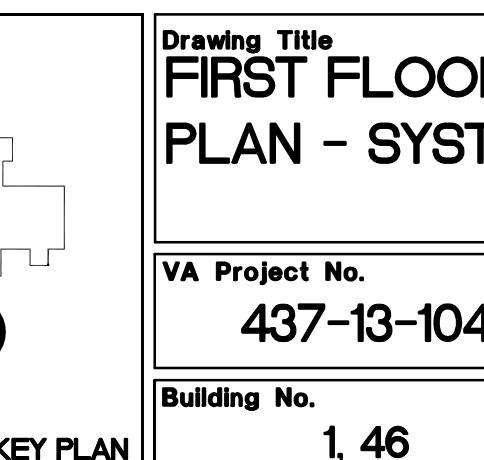
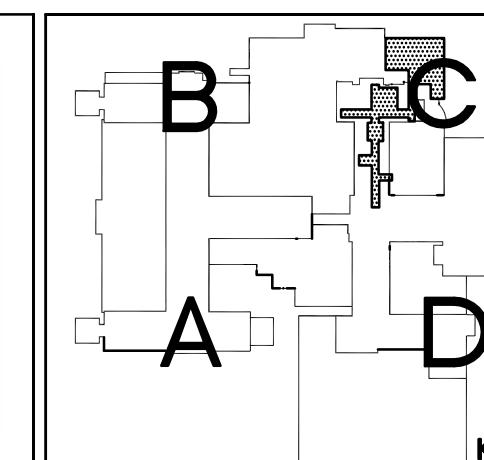


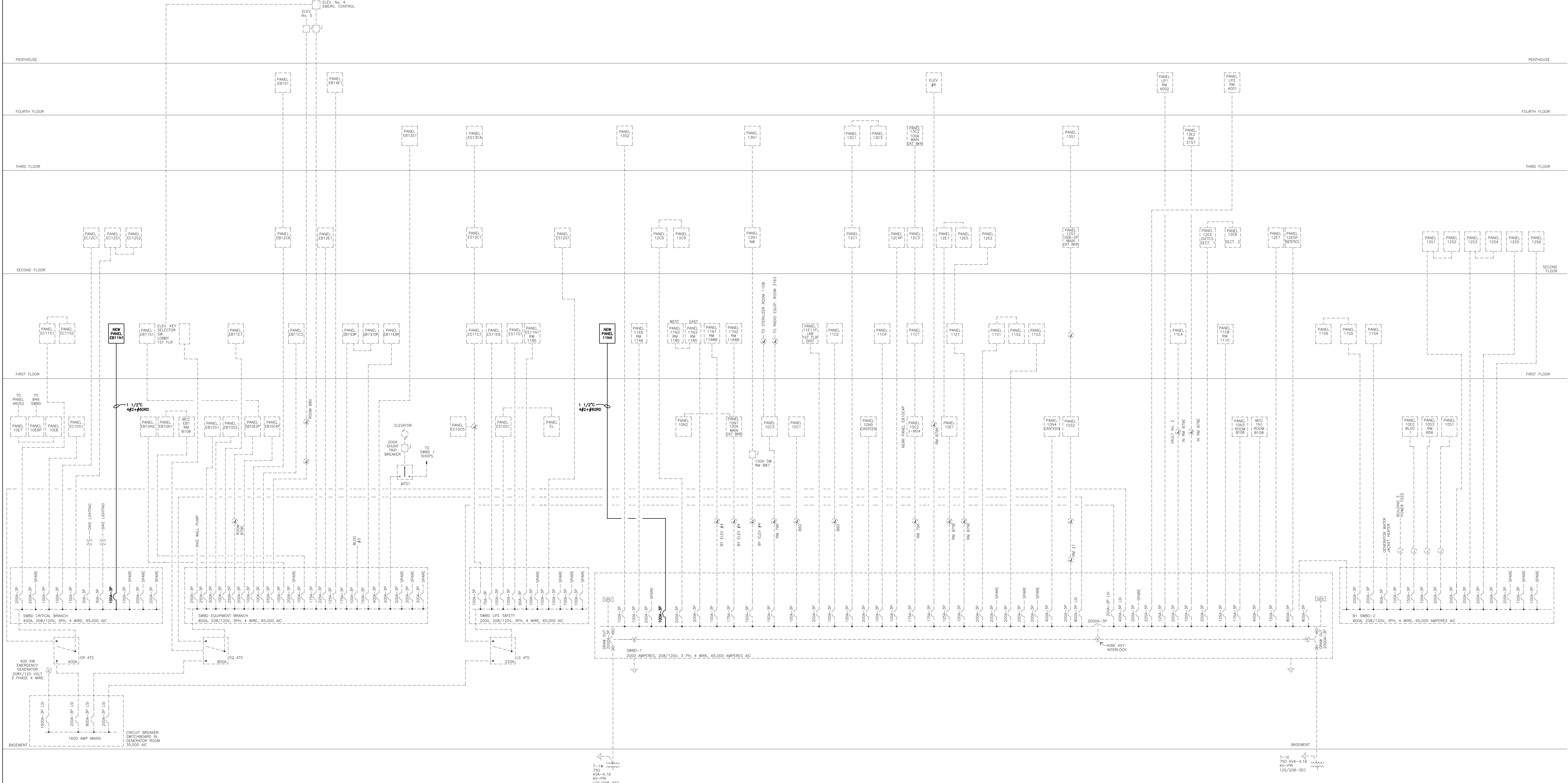
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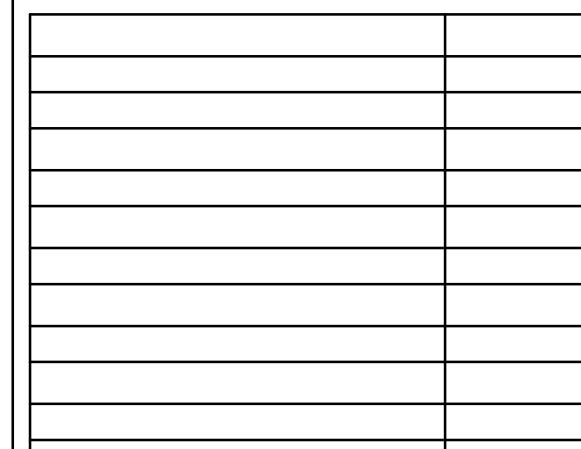
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Architecture & Interiors
OBERMILLER NELSON ENGINEERING, Mechanical Engineers
MBN ENGINEERING, Electrical Engineers





1
E6 **REVISED ELECTRICAL ONE-LINE DIAGRAM – BUILDING 1**
NO SCALE



**Dept. of Veterans Affairs
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2101 Elm Street North
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IMAGE GROUP INC.
403 CENTER AVENUE, SUITE 300
MOORHEAD, MN 56560



Drawing Title REVISED ELECTRICAL ONE-LINE DIAGRAM - BUILDING 1	Project Title FARGO VA HEALTH CARE SYSTEM RENOVATE FIRST FLOOR, BUILDING 1	Date MAY 10, 2013	Department of Veterans Affairs	
VA Project No. 437-13-104	Contract No. VA263-P-1217 VA263-C-	Designed By MB		Checked By MB
Building No. 1 46	AutoCAD File Name 13-061 E6.dwg	Location FARGO VA HEALTH CARE SYSTEM	Drawing No. E6	