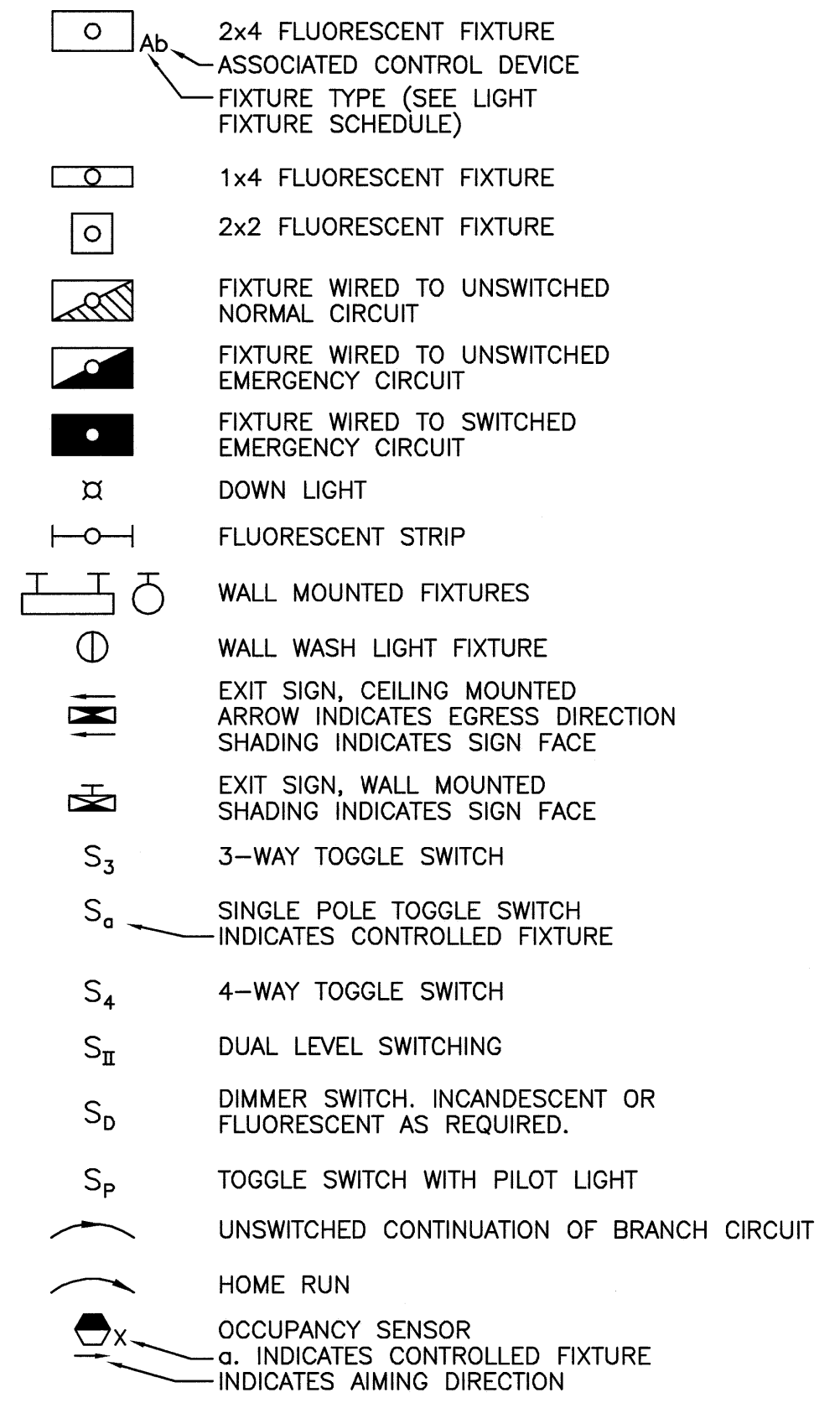
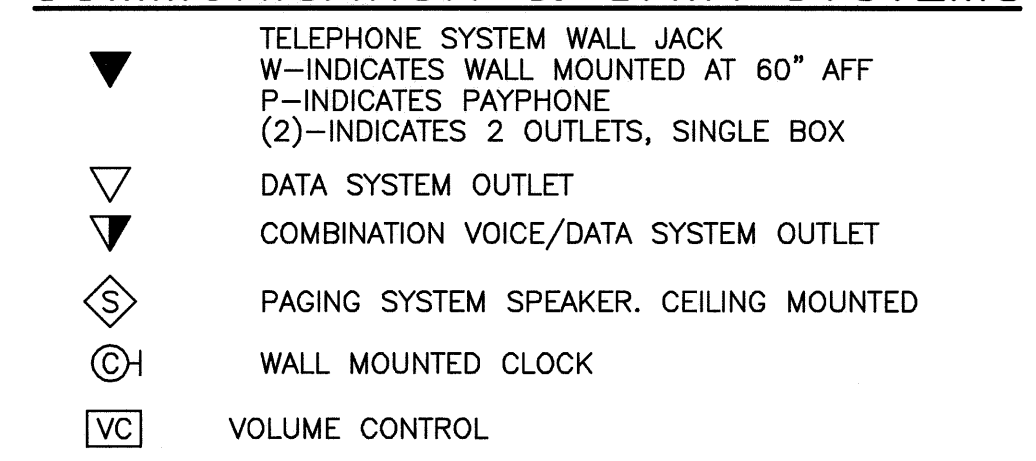


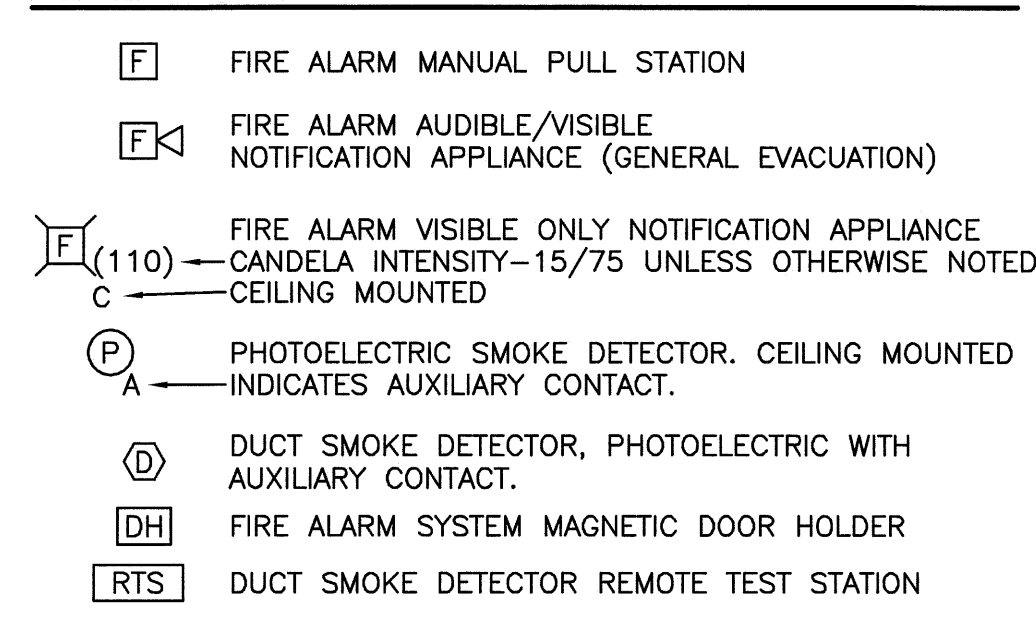
LIGHTING



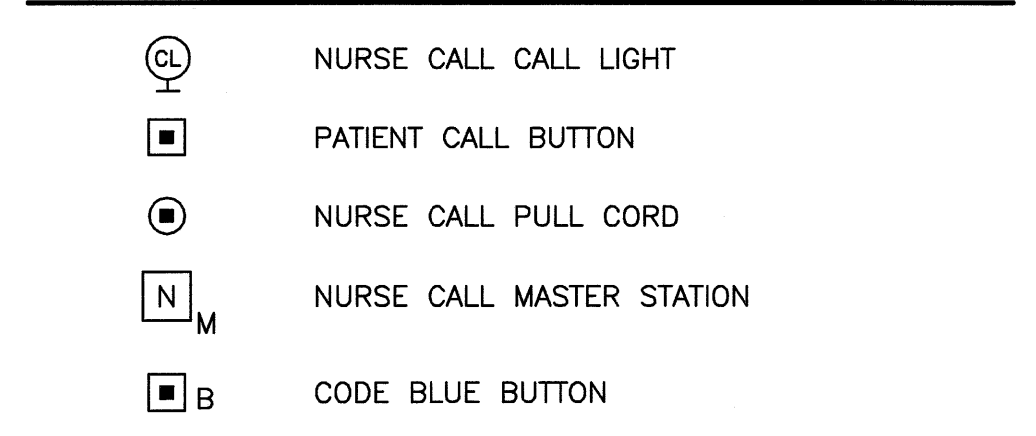
COMMUNICATION & DATA SYSTEMS



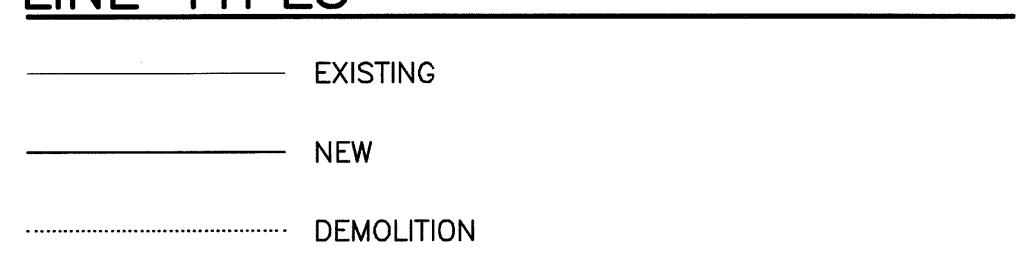
FIRE ALARM



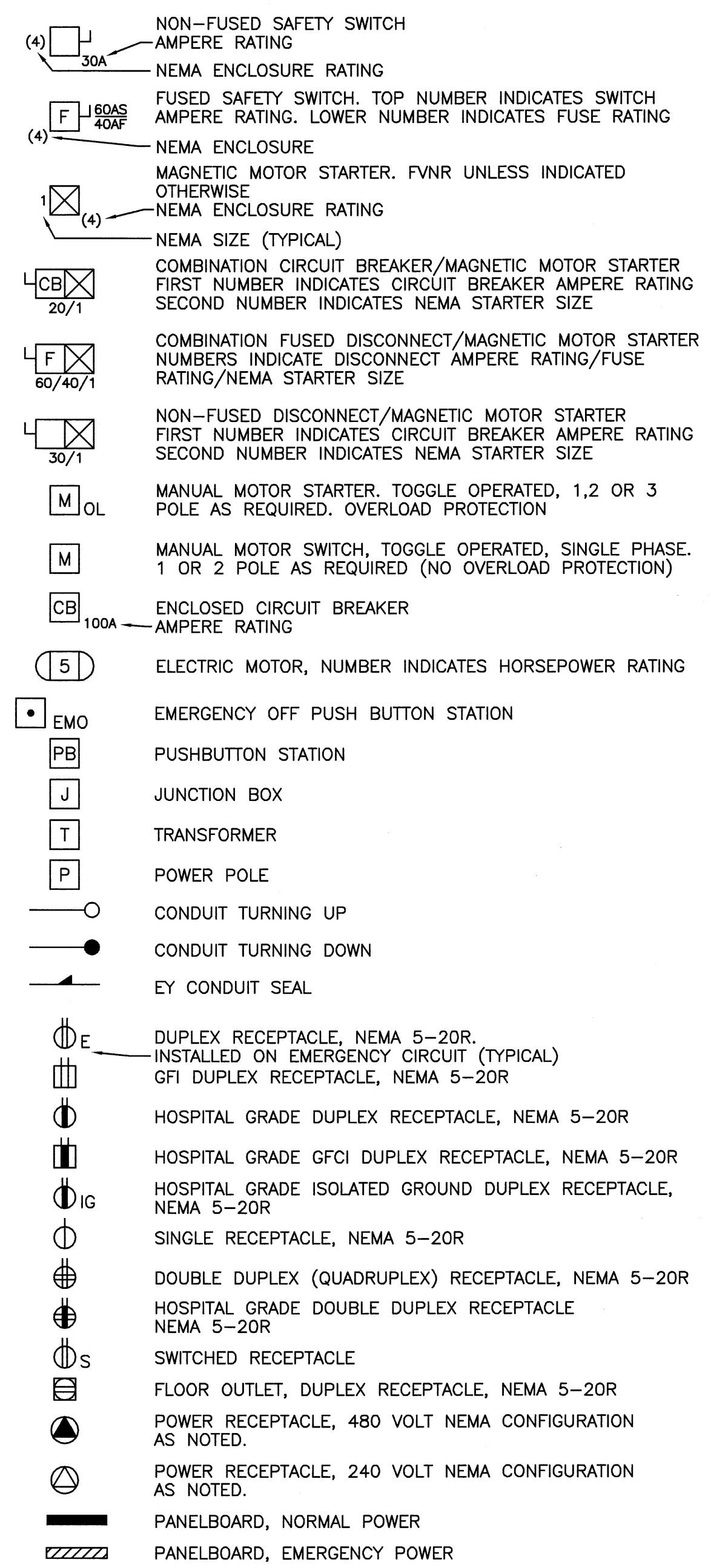
NURSE CALL SYSTEM



LINE TYPES



POWER



LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MFR.	LAMPS	MOUNTING	NOTES
A	2'x4' SEALED AND GASKETED OPERATING ROOM TROFFER W/ ELECTROSTATIC LENS SHIELDING 120/277V	KENALL MS3SEF124	4-F32T8 5000K	CEILING RECESSED	PROVIDE W/ FLANGE TRIM FOR GYPSUM CEILING AND DUAL LEVEL INBOARD/OUTBOARD SWITCHING.
A1	2'x4' SEALED AND GASKETED OPERATING ROOM TROFFER W/ ELECTROSTATIC LENS SHIELDING 120/277V	KENALL MS3SEF124	4-F32T8 5000K	CEILING RECESSED	PROVIDE W/ FLANGE TRIM FOR GYPSUM CEILING AND DUAL LEVEL INBOARD/OUTBOARD SWITCHING. PROVIDE EMERGENCY BATTERY BALLAST FOR OUTBOARD LAMPS.
B	2'x2' SEALED AND GASKETED OPERATING ROOM TROFFER W/ ELECTROSTATIC LENS SHIELDING 120/277V	KENALL MS3SEF122	4-F17T8 5000K	CEILING RECESSED	PROVIDE W/ FLANGE TRIM FOR GYPSUM CEILING AND DUAL LEVEL INBOARD/OUTBOARD SWITCHING.
C	2'x4' LENSED TROFFER W/ PATTERN A12 ACRYLIC LENS. 120/277V	COLUMBIA 4PS SERIES	3-F32T8 3500K	CEILING RECESSED	PROVIDE W/ FLANGE TRIM FOR GYPSUM CEILING
D	8" RECESSED DOWNLIGHT W/ OPEN APERTURE & PEWTER ALZAK FINISH 120/277V	PRESCOLITE CFB SERIES	2-32W TRIPLE 3500K	CEILING RECESSED	
D1	8" RECESSED DOWNLIGHT W/ OPEN APERTURE & PEWTER ALZAK FINISH 120V	PRESCOLITE INC800 SERIES	100W PAR 38	CEILING RECESSED	
F	4' SURFACE WRAPAROUND W/ PATTERN A12 LENS. 120/277V	COLUMBIA WC SERIES	2-F32T8 3500K	CEILING SURFACE	

DIRECTORY	KVA LOAD		CKT NO.	BKR AMPS	A	B	CKT NO.	BKR AMPS	KVA LOAD	DIRECTORY			
	A	B									A	B	
MED GAS COLUMN DROPS	0.4		1	20			20	2	0.4	WEST WALL QUAD RECEPT			
WEST WALL QUAD RECEPT		0.4	3	20			20	4	0.4	NORTH WALL QUAD RECEPT			
EAST WALL QUAD RECEPT	0.4		5	20			20	6	0.4	FLOOR PEDESTAL QUAD RECEPT			
BOOM VIDEO MONITOR POWER		0.4	7	20			20	8	0.4	SOUTH WALL QUAD RECEPT			
SURGICAL LIGHTS - ENDO. TABLE	1.0		9	20			20	10	0.5	CONTROL ROOM DOWNLIGHTS			
SPARE			11	20			20	12		SPARE			
SUB-TOTAL			1.8	0.8	NEUTRAL BUS		GROUND BUS		1.3	0.8	SPARE		
VOLTAGE: 277V-120V			1	PHASE	3	WIRE	60	AMP BUS	TOTAL KVA	A	3.1	PANEL NO.	IPS-B-17
MAIN BREAKER:			35		AMP TRIP	TOTAL KVA	B	11.6	LOCATION		OR 17		
MOUNTING: FLUSH MOUNT DUPLEX TUB WITH IPS-B-17a			TOTAL KVA		4.7	LOCATION		OR 17					
SC RATING: 10,000 AIC			NOTES:										

DIRECTORY	KVA LOAD		CKT NO.	BKR AMPS	A	B	CKT NO.	BKR AMPS	KVA LOAD	DIRECTORY			
	A	B									A	B	
MED GAS COLUMN DROPS	0.4		1	20			20	2	0.4	WEST WALL QUAD RECEPT			
NORTH WALL QUAD RECEPT		0.4	3	20			20	4	0.4	NORTH WALL QUAD RECEPT			
SOUTH WALL QUAD RECEPT	0.4		5	20			20	6	0.4	FLOOR PEDESTAL QUAD RECEPT			
WALL MONITOR POWER		0.8	7	20			20	8	1.0	SURGICAL LIGHTS - SURG. TABLE			
OR 17 DOWNLIGHTS	0.8		9	20			20	10		SPARE			
SPARE			11	20			20	12		SPARE			
SUB-TOTAL			1.6	1.2	NEUTRAL BUS		GROUND BUS		0.8	1.4	SPARE		
VOLTAGE: 277V-120V			1	PHASE	3	WIRE	60	AMP BUS	TOTAL KVA	A	2.4	PANEL NO.	IPS-B-17A
MAIN BREAKER:			35		AMP TRIP	TOTAL KVA	B	2.6	LOCATION		OR 17		
MOUNTING: FLUSH MOUNT DUPLEX TUB WITH IPS-B-17			TOTAL KVA		5.0	LOCATION		OR 17					
SC RATING: 10,000 AIC			NOTES:										

DIRECTORY	KVA LOAD			CKT NO.	BKR AMPS	A	B	C	CKT NO.	BKR AMPS	KVA LOAD	DIRECTORY	
	A	B	C										A
AC-1	0.4			1	20				20	2	0.4	CONTROL ROOM RECEPT	
CU-1		1.5		3	30				20	4	0.4	CONTROL ROOM RECEPT	
EQUIPMENT ROOM RECEPT			1.5	5	30				20	6	0.6	OR 17 CONTROL ROOM MONITOR	
EQUIPMENT ROOM RECEPT	0.6			7	20				20	8	0.8	UV STERILIZER	
EQUIPMENT ROOM RECEPT		1.0		9	20				20	10		SPARE	
SPACE				11	20				20	12		SPACE	
SPACE				13					14			SPACE	
SPACE				15					16			SPACE	
SPACE				17					18			SPACE	
SUB-TOTAL			1.0	2.5	1.8	NEUTRAL BUS		GROUND BUS		1.2	0.4	0.6	SPARE
VOLTAGE: 208Y/120V			3	PHASE	4	WIRE	100	AMP BUS	TOTAL KVA	A	2.2	PANEL NO.	LCPB-3A
MAIN LUGS ONLY			40		AMP LUGS	TOTAL KVA	B	2.9	LOCATION		ELECTRICAL CLOSET		
MOUNTING: SURFACE			TOTAL KVA		2.4	LOCATION		ELECTRICAL CLOSET					
SC RATING: 10,000 AIC			TOTAL KVA		7.5	LOCATION		ELECTRICAL CLOSET					
NOTES:													

ABBREVIATIONS

A,AMP	AMPERE	LA	LIGHTNING ARRESTER
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
AFG	ABOVE FINISHED GRADE	MC	METAL CLAD
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAUGE	MI	MINERAL INSULATED
BFG	BELOW FINISHED GRADE	MLO	MIN LUG ONLY
BOS	BOTTOM OF STEEL	MTD	MOUNTED
C	CONDUIT, CONDUCTOR	MV	MEDIUM VOLTAGE
CATV	CABLE TELEVISION	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
COTV	CLOSED CIRCUIT TELEVISION	NEG	NEGATIVE
CPT	CONTROL POWER TRANSFORMER	NEUT	NEUTRAL
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NO	NORMALLY OPEN
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER	NTS	NOT TO SCALE
DB	DIRECT BURIED	PF	POWER FACTOR
DISC	DISCONNECT	PH	PHASE
DN	DOWN	PVC	POLYVINYL CHLORIDE
EMT	ELECTRICAL METALLIC TUBING	RGS	RIGID STEEL CONDUIT
ENC	ELECTRIC WATER COOLER	RSC	RIGID STEEL CONDUIT
FAA	FIRE ALARM ANNUNCIATOR	RTD	RESISTANCE TEMPERATURE DETECTOR
FACP	FIRE ALARM CONTROL PANEL	SN	SOLID NEUTRAL
FBO	FURNISHED BY OTHERS	STP	SHIELDED TWISTED PAIR
FU	FUSE	STT	SHIELDED TWISTED TRIPLET
FWE	FURNISHED WITH EQUIPMENT	SWBD	SWITCHBOARD
GEN	GENERATOR	SWGR	SWITCHGEAR
GFCI	GROUND FAULT CIRCUIT BREAKER	TOS	TOP OF STEEL
GND	GROUND	TRANSF	TRANSFORMER
HP	HORSEPOWER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HTR	HEATER	V	VOLT
IG	ISOLATED GROUND	VA	VOLT-AMPERE
IMC	INTERMEDIATE METAL CONDUIT	VAR	VOLT-AMPERE REACTIVE
K	KILO	WM	WATT METER
KCMIL	THOUSAND CIRCULAR MILS	WP	WEATHER PROOF
KV	KILOVOLT	XFMR	TRANSFORMER
KVA	KILOVOLT-AMPERE	XP	EXPLOSION PROOF
KVAR	KILOVOLT-AMPERE REACTIVE		
KW	KILOWATT		
KWH	KILOWATT-HOUR		

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE PROVIDED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- UNLESS OTHERWISE NOTED CONVENIENCE RECEPTACLES SHALL BE MOUNTED 18-INCHES AFF, LIGHTING TOGGLE SWITCHES 48-INCHES AFF, DATA SYSTEM OUTLETS 18-INCHES AFF, FIRE ALARM NOTIFICATION DEVICES 80-INCHES AFF OR 6-INCHES BELOW CEILING, WHICHEVER IS LOWER, AND FIRE ALARM MANUAL PULL STATIONS 48-INCHES TO TOP OF DEVICE.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH EVERY FEEDER AND BRANCH CIRCUIT.
- UNLESS OTHERWISE NOTED WIRING SHALL BE #12 AWG CONDUCTORS AND #12 GND. HOME RUNS FED FROM 20A-1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10 AWG.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, UNLESS OTHERWISE NOTED.
- LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE 120/277 VOLT, SIDE WIRED AND PROVIDED WITH GROUNDING SCREW. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- CONVENIENCE RECEPTACLES SHALL BE HOSPITAL GRADE GROUNDING TYPE NEMA 5-20R, SIDE WIRED. LEVITON, PASS AND SEYMOUR OR APPROVED EQUAL. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE WALL PLATES FOR ALL WIRING DEVICES, NYLON SMOOTH TYPE IN FINISHED AREAS AND GALVANIZED IN UNFINISHED AREAS.
- ALL WIRING SHALL BE 600V, COPPER WITH THHN/THWN INSULATION.
- ALL TEL/DATA DEVICES INDICATED SHALL INCLUDE ROUGH IN, DEVICES, CABLING AND TERMINATIONS PER MAINE MEDICAL CENTER TELECOMMUNICATIONS NETWORK SERVICES 16600 SPECIFICATIONS. FOR EACH LOCATION PROVIDE 4" SQUARE BACKBOX W/ SINGLE GANG PLASTER RING W/ 3/4" CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING IN CORRIDOR, PROVIDE RUBBER GASKETS BETWEEN CONDUITS AND BACKBOXES. PROVIDE DEVICES AND CABLING AS INDICATED ON PLANS. FURNISH AND INSTALL NEW RJ45 PATCH PANELS IN EXISTING TELECOMMUNICATIONS RACK IN ROOM B032 WITH CAPACITY FOR ALL NEW DEVICES PLUS 25% SPARE. COORDINATE ALL WORK WITH MMC IS STAFF PRIOR TO WORK.

GENERAL NOTE

1. ALL GENERAL NOTES, SYMBOL LISTS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.

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 NO. 9838
 8/25/04

MAINE MEDICAL CENTER
 ENDOSCOPY & VASCULAR DEPT. RENOVATION
 PORTLAND, ME

ISSUED FOR CONSTRUCTION
 2-24-09

REV	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	2-24-09

GRAPHIC SCALE:
 0" 1"

SCALE: NONE
 PROJECT MANAGER: DNY
 I/C/DRAWN BY: CDS
 A/E OF RECORD: DIT
 CAD FILE: E-001-05169
 PROJECT NO: 05169
 DATE: 2-24-09
 SHEET TITLE:
 LEGEND AND GENERAL NOTES
 SHEET No. E-001