ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

SYMBOL	DESCRIPTION
S_a	SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT
	DUPLEX RECEPTACLE
T	TWIST LOCK RECEPTACLE
	SURGE PROTECTION TYPE (TVSS)
	DUPLEX RECEPTACLE WITH EACH HALF ON SEPARATE CIRCUIT (BREAKER SHALL BE TWO POLE WITH COMMON TRIP)
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	DUPLEX SAFETY RECEPTACLE MOUNT COVERPLATES WITH SPANNER HEAD SCREWS
	DUPLEX RECEPTACLE WITH TOP HALF SWITCHED
EWC	SIMPLEX RECEPTACLE (EWC DENOTES ELECTRIC WATER COOLER. COORDINATE WITH EWC INSTALLER FOR MOUNTING HEIGHT)
	GFI RECEPTACLE MOUNTED ABOVE COUNTER
	TWO DUPLEX RECEPTACLES WITH COMMON COVER
	TWO DUPLEX RECEPTACLES WITH COMMON COVER MOUNTED ABOVE COUNTER
IG	ISOLATED GROUND DUPLEX RECEPTACLE, (ORANGE DEVICE)
	DUPLEX RECEPTACLE NOTE: TICK MARKS SHOWN ON ANY DEVICE REPRESENTS RECEPTACLE CONNECTED TO THE EMERGENCY CIRCUIT (RED DEVICE) TYPICAL FOR ANY DEVICE IN LEGEND
	SPECIAL PURPOSE RECEPTACLE, RATING AS NOTED
GND	GROUND BAR
	CABLE TRAY
J	JUNCTION BOX
	CONDUIT SEAL-OFF FITTINGS
SS C3	SURGE SUPRESSOR C3 = SERVICE ENTRANCE DEVICE B3 = DISTRIBUTION BOARD DEVICE A3 = PANELBOARD DEVICE
ST	SHUNT-TRIP BUTTON - FLUSH MOUNTED UNLESS OTHERWISE NOTED NEMA 3R FOR EXTERIOR LOCATIONS
C	POWER CONNECTION TO EQUIPMENT
	MAGNETIC MOTOR STARTER OR CONTACTOR SIZE AS NOTED
EDH-X	ELECTRIC DUCT HEATER
5	MOTOR CONNECTION, NUMBER DENOTES HORSEPOWER
VFD	VARIABLE FREQUENCY DRIVE
DDC	DIRECT DIGITAL CONTROL PANEL
T	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
30AR / NF	NON-FUSED DISCONNECT SWITCH, SIZE AS NOTED NF DENOTES NON-FUSED
30AR / 20AF	FUSED DISCONNECT AR DENOTES AMP RATING OF SWITCH AF DENOTES AMP FUSE SIZE
MCP SIZE; 30/3 / 0 3R; # OF POLES; ENCLOSURE NEMA 1 UNLESS NOTED; NEMA STARTER SIZE	COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED 3 POLE UNLESS OTHERWISE NOTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED
	BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, FLUSH MOUNTED
	BRANCH CIRCUIT CONDUIT CONCEALED ABOVE CEILING OR IN WALL. CONDUIT SHALL INCLUDE PHASE, NEUTRAL AND GROUND CONDUCTORS AS REQUIRED FOR CIRCUITS (UNLESS OTHERWISE NOTED).
	BRANCH CIRCUIT CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR.
	BRANCH CIRCUIT CONDUIT EXPOSED
	GROUND OR GROUND ROD AS NOTED
C	CRITICAL BRANCH CONDUIT
L	LIFE SAFETY BRANCH CONDUIT
EQ	EQUIPMENT BRANCH CONDUIT

BASIC MATERIALS CONT.

SYMBOL	DESCRIPTION
UP	CONDUIT TURNING UP
DN	CONDUIT TURNING DOWN
	CONDUIT STUB
	CONDUIT CONTINUED
	FLEXIBLE CONDUIT
	EXISTING TO BE REMOVED
	EXISTING TO REMAIN
	EXISTING AFFECTED BY THIS PROJECT
	FUTURE
	NEW

LIGHTING

SYMBOL	DESCRIPTION
	LED / FLUORESCENT STRIP FIXTURE
A; 2; a	FIXTURE DESIGNATION LED / FLUORESCENT FIXTURE LOWER CASE LETTER INDICATES CONTROL CIRCUIT SWITCH LEG CIRCUIT NUMBER
	LED / FLUORESCENT FIXTURE DIAGONAL SHADING DENOTES TO LIGHT FIXTURE CONNECTED TO CRITICAL BRANCH.
	LED / FLUORESCENT FIXTURE COMPLETELY SHADED DENOTES LIGHT FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT.
	LED / FLUORESCENT WALL MOUNTED FIXTURE WITH WALL OUTLET BOX
	HID OR LED / FLUORESCEN FIXTURE
	EXIT LIGHT FIXTURE DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)
	WALL MOUNTED EXIT LIGHT FIXTURE

PAGING SYSTEM & BACKGROUND MUSIC

SYMBOL	DESCRIPTION
S	LOUDSPEAKER/ TRANSFORMER/ BAFFLE/ SUPPORT TRUSS. (CEILING MOUNTED) W = WALL MOUNTED
PAEC	PAGING SYSTEM EQUIPMENT CABINET
PATC	PAGING SYSTEM TERMINAL CABINET
P	PAGING SYSTEM CONDUIT AND WIRING
VC	VOLUME CONTROL

NURSE CALL SYSTEMS

SYMBOL	DESCRIPTION
N	SINGLE PATIENT STATION
N_2	DUAL PATIENT STATION
D	DUTY STATION
S	STAFF STATION
SE	STAFF EMERGENCY STATION
SA	STAFF EMERGENCY ANNUNCIATOR
E	EMERGENCY STATION
T	TOILET EMERGENCY STATION
SH	SHOWER EMERGENCY STATION
CB	CODE BLUE EMERGENCY STATION
P	DUAL STAFF PRESENCE INDICATOR STATION
C	CORRIDOR DOME LIGHT WALL MOUNTED
Z	CORRIDOR ZONE LIGHT
CBAP	CODE BLUE ANNUNCIATOR PANEL WALL MOUNTED
NCEC	NURSE CALL EQUIPMENT CABINET
NCMS	NURSE CALL MASTER STATION
N	NURSE CALL SYSTEM CONDUIT AND WIRING

FIRE ALARM/DETECTION SYSTEM

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
	CEILING SMOKE DETECTOR, PHOTO-ELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS I = IONIZATION
	DUCT SMOKE DETECTOR R = RETURN S = SUPPLY
R	SUPERVISED CONTROL RELAY
R	DUCT SMOKE REMOTE ALARM INDICATING LAMP, W/ TEST SWITCH, WALL MOUNTED 72" AFF
RT	REMOTE FIRE ALARM WITH TEST SWITCH
F XXCD	COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE CHIME/FLASHING "FIRE" LIGHT CD = CANDELA RATING
F XXCD	COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICE CD = CANDELA RATING
F	FIRE ALARM SPEAKER WITH STROBE CD = CANDELA RATING
F	VISUAL SIGNALING UNIT, WALL MOUNTED (NO AUDIO DEVICE)
P	FIREMAN'S PHONE JACK
TS	SPRINKLER TAMPER SWITCH CONNECTION
FS	SPRINKLER WATERFLOW SWITCH CONNECTION
	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE
H	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE CONNECTION TO CLOSURE/ HOLDER
H	ELECTROMAGNETIC DOOR HOLD OPEN DEVICE CONNECTION TO CLOSURE/ HOLDER INCLUDES DETECTOR
H	CEILING HEAT DETECTOR 135° UNLESS OTHERWISE INDICATED.
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FAAP	FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
F	FIRE ALARM SYSTEM CONDUIT AND WIRING
E	FIREMAN'S ELEVATOR WARNING LIGHT

DEMOLITION

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE TO BE REMOVED
	DUPLEX RECEPTACLE TO REMAIN
	FLOOR OUTLET TO BE REMOVED
	FLOOR OUTLET BOX TO REMAIN
	TWO DUPLEX RECEPTACLES TO REMAIN
	TWO DUPLEX RECEPTACLES TO BE REMOVED
J	JUNCTION BOX TO REMAIN
	BRANCH CIRCUIT PANELBOARD TO BE REMOVED
	BRANCH CIRCUIT PANELBOARD TO REMAIN
	EXISTING LED / FLUORESCENT FIXTURE TO BE REMOVED
	EXISTING LED / FLUORESCENT FIXTURE TO REMAIN
	EXISTING LED / FLUORESCENT WALL MOUNTED FIXTURE TO BE REMOVED
	SINGLE POLE SWITCH TO BE REMOVED
	SINGLE POLE SWITCH TO REMAIN
F	VISUAL SIGNALING UNIT, WALL MOUNTED TO REMAIN (NO AUDIO DEVICE)
S	LOUDSPEAKER/ TRANSFORMER/ BAFFLE/ SUPPORT TRUSS. (CEILING MOUNTED) TO REMAIN
(ETR)	EXISTING TO REMAIN

DOOR CONTROL SYSTEM

SYMBOL	DESCRIPTION
ML	MAGNETIC LOCK
M	MOTION DETECTOR 360°
DC	DOOR CONTROL
ML	MAGNETIC LOCK
CR	CARD READER
	BALANCED MAGNETIC DOOR CONTACT
	BALANCED MAGNETIC DOOR CONTACT
	DOOR PUSHBUTTON STATION

TELEPHONE/COMPUTER RACEWAY SYSTEM

SYMBOL	DESCRIPTION
X N N N N ROOM # - OUTLET # C = ABOVE THE COUNTER W = WALL MOUNTED	X = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE ADAPTOR (P)OLE, F(L)OOR, & (R)ACEWAY N = # OF VOICE JACKS N = # OF DATA JACKS N = # OF FIBER PORTS N = # OF VIDEO PORTS COMMUNICATIONS "INFORMATION OUTLET" MTD. AT RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR MANUFACTURER'S PART NUMBER.
	TELEPHONE OUTLET FLOOR MOUNTED
	TELEPHONE OUTLET CEILING MOUNTED
	TELEPHONE OUTLET PEDESTAL MOUNTED
TTB	TELEPHONE/COMPUTER TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
CTC	COMPUTER TERMINAL CABINET
T	TELEPHONE SYSTEM RACEWAY
CM	COMPUTER SYSTEM RACEWAY

GENERAL DEMOLITION NOTES:

1. ALL DEVICES SHOWN ON DEMOLITION PLANS ARE EXISTING. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
2. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVEN.
3. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
4. ALL CONDUITS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED WITH BONDING BUSHING IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
5. ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
6. THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE ARCHITECT. REFER TO ARCHITECTURAL PHASING PLAN. TEMPORARY ELECTRICAL SERVICES (E.G. LIGHTING, NURSE CALL, FIRE ALARM, ETC) SHALL BE PROVIDED WHEN NEW WORK AFFECTS SERVICES NEEDED TO REMAIN ACTIVE. IF FIRE ALARM SYSTEM CANNOT BE MAINTAINED IN THE CONSTRUCTION AREA, A FIRE WATCH SHALL BE PROVIDED.
7. UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT AND WIRE IN THE PROJECT AREA SHALL BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
8. CONTRACTOR SHALL PROVIDE MEANS OF AUTOMATIC SMOKE DETECTION VIA INSTALLED SMOKE DETECTORS CONNECTED TO THE FACITLITY FIRE ALARMS SYSTEM FOR COVERAGE DURING NON-OCCUPIED PERIODS WITHIN THE CONSTRUCTION AREA, IF DESIRED, A DOCUMENTED FIRE WATCH OF THE ENTIRE AREA PERFORMED IN INCREMENTS NO GREATER THAN ONE HOUR MAY BE PERFORED PROVIDED THAT IT IS DOCUMENTED IN FULL ACCORDANCE WITH NPFA 72. COORDINATE ACTIVITY IN FIELD WITH GENERAL CONTRACTOR.
9. "ETR" DENOTES EXISTING ELECTRICAL DEVICE TO REMAIN.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

GENERAL NOTES:

1. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
2. RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE.
3. THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND ESSENTIAL ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME PATIENT VICINITY SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN NUMBER 10.
4. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
5. A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.

   B. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.
6. CRITICAL AND LIFE SAFETY LIGHT SWITCHES SHALL BE ROUTED IN CONDUIT AND BOXES OTHER THAN THAT FOR THE NORMAL BRANCH. ESSENTIAL SYSTEM SWITCHES SHALL BE RED IN COLOR.
7. PATIENT CARE AREAS SHALL BE PROVIDED WITH GROUNDING IN ACCORDANCE WITH NEC 517.
8. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:

   A. ALL ELECTRICAL BOXES SHALL BE METALLIC.

   B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.

   C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.

   D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).

   E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.

   F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.

   G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.

   H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.

   I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
9. NON-METALLIC RACEWAYS SHALL NOT BE USED TO SERVE ANY PATIENT CARE SPACE. ALL WIRING SHALL BE MECHANICALLY PROTECTED BY INSTALLATION IN METAL RACEWAYS.
10. ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.
11. ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
12. THE NUMBER OF ARROWHEADS ON THE HOMERUN DENOTES THE NUMBER OF CIRCUITS.
13. ALL NEW AND EXISTING PANELS AFFECTED BY THIS PROJECT SHALL BE PROVIDED WITH A NEW TYPE WRITTEN DIRECTORY.

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E403B	LEVEL 3 FLOOR PLAN - EAST - FIRE ALARM
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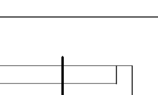

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No.	Description	Date
1	DD - GMP	2019-07-03

Project No: 18.16013.00

Sheet Title

GENERAL INFORMATION - ELECTRICAL

Original is 30 x 42. Do not scale contents of this drawing.

Sheet Number

E001

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