

LIGHTING

	FLUORESCENT LIGHTING FIXTURE SYMBOL WITH SHADING INDICATES FIXTURE TO BE ON EMERG. OR NIGHT LIGHTING CIRCUIT.
	FLUORESCENT LIGHTING FIXTURE SYMBOL WITH SHADING INDICATES FIXTURE TO BE ON EMERG. OR NIGHT LIGHTING CIRCUIT.
	WALL OUTLET BOX AND FLOURESCENT LIGHTING FIXTURE. SHADING INDICATES FIXTURE TO BE ON EMERGENCY OR NIGHT LIGHTING CIRCUIT.
	INDUSTRIAL FLUORESCENT LIGHTING FIXTURE. SHADING INDICATES FIXTURE TO BE ON EMERGENCY OR NIGHT LIGHTING CIRCUIT.
	CEILING OUTLET BOX AND H.I.D., INCANDESCENT OR FLUORESCENT LIGHTING FIXTURE. SHADING INDICATES FIXTURE TO BE ON EMERG. OR NIGHT LIGHTING CIRCUIT.
	WALL OUTLET BOX AND H.I.D., INCANDESCENT OR FLUORESCENT LIGHTING FIXTURE. OR WALL WASH FIXTURE.
	CEILING OUTLET BOX AND PENDANT MOUNTED FIXTURE. SHADING INDICATES FIXTURE TO BE ON EMERG. OR NIGHT LIGHTING CIRCUIT.
	WALL OUTLET BOX AND H.I.D., INCANDESCENT OR FLUORESCENT WALL SCONCE.
	CEILING MOUNTED EXIT SIGN (SHADED QUADRANT INDICATES FACE). DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	WALL OUTLET BOX AND ILLUMINATED EXIT SIGN (SHADED QUADRANT INDICATES FACE). DIRECTIONAL ARROWS AS INDICATED ON FLOOR PLANS.
	BATTERY OPERATED EMERGENCY LIGHTING UNIT. NUMBER OF HEADS AS INDICATED ON FLOOR PLANS.
	REMOTE HEAD FOR BATTERY OPERATED EMERGENCY LIGHTING UNIT.
	DUAL REMOTE HEAD FOR BATTERY OPERATED EMERGENCY LIGHTING UNIT.
	EXTERIOR LOW LEVEL BOLLARD LIGHTING FIXTURE
	EXTERIOR POLE MOUNTED AREA LIGHT

SWITCHING

	WALL OUTLET BOX AND SINGLE POLE SWITCH (20 AMP)
	WALL OUTLET BOX AND THREE-WAY SWITCH (20 AMP)
	WALL OUTLET BOX AND FOUR-WAY SWITCH (20 AMP)
	WALL OUTLET BOX AND SINGLE-POLE SWITCH WITH PILOT LIGHT (20 AMP)
	WALL OUTLET BOX AND SINGLE-POLE SWITCH (20 AMP, NON-LOCK, WITH WEATHERPROOF COVER)
	WALL OUTLET BOX AND FAN CONTROL SWITCH (6 AMP ADJUST)
	WALL OUTLET BOX SINGLE POLE SWITCH (20 AMP)
	WALL OUTLET BOX AND THREE-WAY KEY SWITCH (20 AMP)
	WALL OUTLET BOX AND FOUR-WAY KEY SWITCH (20 AMP)
	WALL OUTLET BOX AND DIMMER SWITCH (AS NOTED)
	WALL OUTLET BOX AND THREE-WAY DIMMER SWITCH (AS NOTED)
	WALL OUTLET BOX AND OCCUPANCY SWITCH (AS NOTED)
	LOW VOLTAGE LIGHTING SWITCH
	OCCUPANCY SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR (NO. INDICATES TYPE)

POWER

	208/120V BRANCH CIRCUIT PANELBOARD
	480/277V BRANCH CIRCUIT PANELBOARD
	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS (UNLESS OTHERWISE NOTED)
	PILGOWDER WITH RECEPTACLES SPACED 24" ON CENTER WITH DIVIDER AND TELE/DATA OUTLETS AS SHOWN.
	FLUSH FLOOR DUPLEX RECEPTACLE, 20 AMP, 120V, DUPLEX WITH 3/4"C. TO NEAREST WALL AND UP TO ACCESSIBLE FINISHED CEILING. (PROVIDE PULL CORO). PROVIDE HUBBLE MODEL #B423321 WITH #S3825 COVERS.
	COMBINATION FLUSH FLOOR BOX FOR RECEPTACLE (20 AMP, 120V, DUPLEX) AND DATA/TELEPHONE BOX WITH COVERS. PROVIDE MINIMUM 3/4"C. FOR POWER AND 1"C. FOR TELE/DATA TO NEAREST WALL AND UP TO ABOVE ACCESSIBLE CEILING. (PROVIDE PULL CHORD) UNLESS OTHERWISE NOTED. PROVIDE HUBBLE #B423341 WITH COVERS #S3825 AND #S3425.
	POKE THRU WITH SURFACE MOUNTED OUTLET BOX WITH DUPLEX RECEPTACLE
	FLUSH MOUNTED OUTLET BOX WITH DOUBLE DUPLEX RECEPTACLES
	FLUSH MOUNTED WALL OUTLET BOX, FOR HARDWARE FEED TO PARTITION
	FLUSH MOUNTED WALL OUTLET BOX AND COVER PLATE WITH BUSHED OPENING FOR DATA/VOICE CABLING
	POKE THRU WITH SURFACE MOUNTED FLOOR OUTLET BOX POWER
	SURFACE MOUNTED FLOOR OUTLET BOX WITH BUSHED OPENING FOR PARTITION DATA/VOICE CABLING AND POKE THRU DEVICE IN SLAB
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE, MOUNTED ABOVE COUNTER BACKSPLASH
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE, TAMPER RESISTANT
	WALL OUTLET BOX AND 20 AMP G.F.I. RECEPTACLE WEATHERPROOF COVER
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE WITH LOCKING WEATHERPROOF COVER. PROVIDE TWO KEYS RECEPTACLE MOUNT ABOVE ACCESSIBLE CEILING ON SECURE SIDE OF DOOR
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE-TOP HALF SWITCHED
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE FOR ELECTRICAL WATER COOLER. COORDINATE WITH EMC INSTALLER FOR MOUNTING
	WALL OUTLET BOX AND 20 AMP G.F.I. RECEPTACLE TWO GANG WALL OUTLET BOX AND TWO 20 AMP DUPLEX RECEPTACLES
	WALL OUTLET BOX AND 20 AMP SINGLE RECEPTACLE
	WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE CONNECTED TO EMERGENCY SYSTEM (RED DEVICE AND COVERPLATE)
	WALL OUTLET BOX AND 20 AMP ISOLATED GROUND DUPLEX RECEPTACLE (ORANGE DEVICE)
	FLOORBOX WITH DUPLEX RECEPTACLE
	FLOORBOX WITH TELE/DATA OUTLET
	PHOTO CELL
	WALL OUTLET BOX AND SPECIAL PURPOSE RECEPTACLE
	TRANSFORMER
	MOTOR CONNECTION. NUMBER INDICATES HORSEPOWER OVERLOADS (UNLESS OTHERWISE NOTED)
	MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT AND OVERLOADS (UNLESS OTHERWISE NOTED)
	UNUSED DISCONNECT SWITCH. SIZE AS NOTED
	FUSED DISCONNECT SWITCH. SIZE AS NOTED
	COMBINATION DISCONNECT SWITCH AND MAGNETIC MOTOR CONTROLLER. SIZE AS NOTED
	MAGNETIC MOTOR STARTER OR CONTACTOR. AS NOTED
	MOTORIZED DAMPER LOCATION (FURNISHED UNDER DIVISION 15)
	WALL OUTLET BOX AND 15 AMP CLOCK RECEPTACLE (STAINLESS STEEL) 'X' INDICATES TYPE
	MECHANICAL EQUIPMENT TAG - SEE MECHANICAL DRAWINGS FOR DESCRIPTION
	FLUSH WALL JUNCTION BOX OR JUNCTION BOX ABOVE CEILING
	TIME CLOCK

SPECIAL SYSTEMS

	COMBINATION TELE-DATA WALL OUTLET BOX AND BLANK PLATE WITH MINIMUM 1" C. TO ABOVE ACCESSIBLE FINISHED CEILING. SEE DETAIL AND NOTES DRAWING 1-ES.
	INTERCOM STATION. PROVIDE WALL OUTLET BOX AND 3/4"C. (WITH PULLSTRING AND END BUSHING) TO ABOVE ACCESSIBLE CEILING (UNLESS OTHERWISE NOTED)
	SPRINKLER SYSTEM TAMPER SWITCH CONNECTION
	SPRINKLER SYSTEM FLOW SWITCH CONNECTION
	CEILING MOUNTED SMOKE DETECTOR (LETTER 'A' DENOTES AUXILIARY CONTACTS)
	CEILING MOUNTED HEAT DETECTOR
	DUCT MOUNTED SMOKE DETECTOR, PHOTOELECTRIC TYPE WITH REMOTE INDICATOR LIGHT WHERE INACCESSIBLE
	DUCT DETECTOR - SUPPLY DUCT
	DUCT DETECTOR - RETURN DUCT
	FIRE ALARM SYSTEM REMOTE INDICATOR
	DOOR HOLD OPEN DEVICE (ELECTRO-MAGNETIC RELEASE)
	WALL MOUNTED ADA COMPLIANT FLUSH MANUAL PULL STATION (MOUNT TOP @ 42" AFF)
	WALL MOUNTED ADA COMPLIANT AUDIO/VISUAL UNIT (MOUNT TOP 80" AFF)
	WALL MOUNTED ADA COMPLIANT VISUAL ONLY UNIT (MOUNT TOP 80" AFF)
	FIRE ALARM SYSTEM CONTROL PANEL
	FIRE ALARM SYSTEM TRANSPONDOR PANEL
	FIRE ALARM SYSTEM GRAPHIC ANNUNCIATOR PANEL
	EMERGENCY POWER "OFF" BUTTON
	FIREMAN'S PHONE JACK (MOUNTED 54" AFF)
	PANIC SWITCH
	CONTROLLED ACCESS SYSTEM BADGE READER WITH 3/4"C. TO POWER SOURCE.
	DOOR BUZZER PUSH BUTTON
	DOOR STATUS SWITCH
	ELECTRIC DOOR STRIKE
	CAMERA
	MOTION SECURITY SENSOR
	POST INDICATOR VALVE LOCATION
	PUSH BUTTON CONTROL. PROVIDE WALL BOX AND 3/4"C. TO ABOVE ACCESSIBLE CEILING (U.O.N.)
	DOOR RELEASE BUTTON - PROVIDE BOX AND 3/4"C. TO DOOR OPERATOR (U.O.N.)
	AMPLIFIER/SOUND SYSTEM HEAD END/SHELF MOUNT
	TELEVISION CABLE OUTLET FLUSH, WALL MOUNTED
	MICROPHONE OUTLET FLUSH, FLOOR MOUNTED
	AUXILIARY LINE LEVEL SIGNAL INPUT JACK FLUSH, WALL MOUNTED
	CEILING MOUNTED SPEAKER
	VOLUME CONTROL FLUSH, WALL MOUNTED
	PROJECTOR JACK FLUSH, WALL MOUNTED
	PROJECTOR JACK IN FLUSH FLOOR BOX
	VIDEO PROJECTOR CEILING MOUNT
	VIDEO PROJECTOR CONTROL FLUSH, WALL MOUNTED
	MOTOR OPERATED SCREEN CONTROL FLUSH, WALL MOUNTED

ONE-LINE

	FUSE (SIZE AS INDICATED ON DRAWINGS)
	FUSED SWITCH
	CIRCUIT BREAKER
	POWER TRANSFORMER
	CURRENT TRANSFORMER
	RELAY COIL
	RELAY CONTACT (NORMALLY OPEN) (TYPE A)
	RELAY CONTACT (NORMALLY CLOSED) (TYPE B)
	AUTOMATIC TRANSFER SWITCH
	POTENTIAL TRANSFORMERS
	TIME OVERCURRENT RELAY (PHASE)
	AMMETER SWITCH
	AMMETER
	VOLTMETER SWITCH
	VOLTMETER
	SOLENOID OR CIRCUIT BREAKER COIL

ABBREVIATIONS

AMP /A	AMPERE
AC.	ALTERNATING CURRENT
A/C.	AIR CONDITION
AFG	ABOVE FINISHED FLOOR
ALC.	ABOVE FINISHED GRADE
AL.	ALUMINUM
ARCH.	ARCHITECTURAL
AR.F.	ABOVE RASSED FLOOR
AST.	ASTRONOMICAL
A.T.C.	ATMOSPHERIC TEMPERATURE CONTROL
A.T.S.	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
B.F.C.	BELOW FINISHED CEILING
BLDG.	BUILDING
BKR.	BREAKER
BSMT.	BASMENT
C.	CENTIGRADE DEGREES
C.C.	CIRCUIT
CKT.	CIRCUIT BREAKER
CB	CLOCKWISE
CO	COLUMN
COL.	CONCRETE
CONC.	CLOSED CIRCUIT
CCTV	TELEVISION
C.	CONDUCTOR
CO.	CUBIC FEET
CU.F.T.	CUBIC FEET
CONT.	CONTROLLER
COOP.	COOPER
CONSTR.	CONSTRUCTION
COAX.	COAXIAL
COORD.	COORDINATE
CONT.	CONTINUATE
C.I.T.	CURRENT TRANSFORMER
DISC.	DISCONNECT SWITCH
DIV.	DIVISION
DN.	DOWN
EA	EACH
E.F.	EXHAUST FAN
ELEC. CL.	ELECTRICAL CLOSET
ELEC.	ELECTRICAL
E.C.	ELECTRICAL CONTRACTOR
ELEV/EL.	ELEVATION/ELEVATOR
E.M.T.	ELECTRICAL METALLIC TUBING
ENT.	ENTRANCE
ENCL.	ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
EXT.	EXTERNAL/EXTERIOR
F.A.	FIRE ALARM
F.	FAHRENHEIT DEGREES
FC	FOOTCANDLE
FEET	FEET
F.E.	FIRE EXTINGUISHER
FDN.	FOUNDATION
FIN.	FINISH/FINISHED
FIXT.	FIXTURE
FLEX.	FLEXIBLE
FLA	FULL LOAD AMPERES
FLA	FULL LOAD AMPERES
FLUOR.	FULL LOAD AMPERES
GA.	GAGE/GAUGE
GEN.	GENERATOR
GEN.	GENERATOR
G.F.I.	GROUND FAULT INTERRUPTER
G.R.S.C.	GALVANIZED RIGID STEEL CONDUIT
HT.	HEIGHT
H.I.D.	HIGH INTENSITY DISCHARGE
HORNZ.	HORIZONTAL
H.O.A.	HAND OFF AUTO
HP.	HORSEPOWER
H.P.S.	HIGH PRESSURE SODIUM
HZ.	HERTZ
INC.	INCANDESCENT
IMC	INTERMEDIATE CONDUIT
ISOL.	ISOLATED
INSUL.	INSULATION/INSULATED
JB	JUNCTION BOX
KHZ	KILOHERTZ
KW	KILOWATT
KWH	KILOWATT HOUR
KVA	KILOVOLT-AMPERE
KVAR	KILOVAR
KV	KILOVOLT
LAN	LOCAL AREA NETWORK
LG	LENGTH
LF	LINEAR FEET
LT	LIGHT
LTC	LIGHTING
LRA	LOADED ROTOR AMPERES
LG	LONG
MCC	MOTOR CONTROL CENTER
M.C.	MECHANICAL CONTRACTOR
M/C	MULTI-CONDUCTOR
MDS	MAIN DISTRIBUTION SWITCHBOARD
MD	MAIN DISTRIBUTION PANEL
MANUF.	MANUFACTURER
MF	MAINTENANCE FACTOR
MAX.	MAXIMUM
MB	MAIN BREAKER
MECH.	MECHANICAL
MECH. HOURS	MECHANICAL HOURS
MG	MOTOR GENERATOR
MTD	MOUNTED
MIN.	MINIMUM
M.L.O.	MAIN LUGS ONLY
N.	NEUTRAL
N.C.	NORMAL CLOSED
N.E.C.	NATIONAL ELECTRICAL CODE
NEMANATIONAL	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION CONTRACT
NO	NORMALLY OPEN
N.TS	NOT TO SCALE
NO./#	NUMBER
%	PERCENT
ø	PHASE
NO.V.C.	POLYVINYLCHLORIDE
PB	PULL BOX
P.NL	PANELBOARD
P.C.	PLUMBING CONTRACTOR
PRI.	PRIMARY
R.	RADIUS
R.F.	RADIO-FREQUENCY
REAR.	REAR
RECEPT.	RECEPTACLE
REO.D.	REQUIRED
REV.	REVISION
REC. RECESSED	RECESSED
R.S.W.	REMOTE CONTROL SWITCH
RGS	RIGID GALVANIZED STEEL CONDUIT
SECT.	SECTION
SEC.	SECONDARY
SERV.	SERVICE
1/C	SINGLE CONDUCTOR
SK.	SKETCH
SPECS.	SPECIFICATIONS
S.T.	SOLENOID
ST.	STATION
SW.	SWITCH
S.S.	STAINLESS STEEL
SWBD.	SWITCHBOARD
SYM.	SYMMETRICAL
SUSP.	SUSPENDED
SEP.	SEPARATE
SHT.	SHEET
SG.	SIGNAL
SN	SOLID NEUTRAL
SURF.	SURFACE
THRU	THROUGH
TEL.	TELEPHONE
TRANSF.	TRANSFORMER
TP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
U.R.F.	UNDER RAISED FLOOR
VS.	VERSUS
VERT.	VERTICAL
VD	VOLTAGE DROP
V.	VOLTAGE/VOLTS
WP	WEATHERPROOF
W.	WIDE
W/O	WITHOUT
W/I	WROUGHT IRON

Revisions

No.	Date

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Drawing Title

ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS

Project Title

NEW GENERATOR BUILDING 24

Building No.

24

Location

BATH, NEW YORK

Drawn

D.L.E.

Checked

E.O.

Date

03/22/2013

Project No.

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DRAWING 1-E1

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