CIRCUIT WIRING

RP-1	HOME RUN TO PANEL "RP" INDICATES PANEL NO. & "1" INDICATES CIRCUIT NUMBER
	BRANCH CIRCUIT WIRING CONSISTING OF THHN COPPER CONDUCTORS RUN IN CONCEALED RACEWAY. IN AREAS WITH NO CEILING RUN OVERHEAD CONDUCTORS IN EXPOSED EMT. EQUIPMENT GROUNDING CONDUCTOR IS REQUIRED IN ALL CONDUIT/CABLE RUNS. NOTE: CONTRACTOR MAY RUN MC CABLE (WHERE APPROVED BY CODE AND BY OWNER) IN WALLS & ABOVE CEILINGS IN FINISHED AREAS ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITY OF CONDUCTORS IN RACEWAY.
	BRANCH CIRCUIT WIRING CONSISTING OF THHN COPPER CONDUCTORS IN APPROPRIATE RACEWAY. RUN UNDERGROUND, IN FLOOR SLAB, OR UNDER FLOOR.
	LOW VOLTAGE OR CONTROL WIRING CONSISTING OF THHN COPPER CONDUCTORS RUN IN EMT CONDUIT.
	BRANCH CIRCUIT WIRING CONSISTING OF CONDUCTORS RUN IN FLEXIBLE METAL CONDUIT TO LIGHTING FIXTURE OR MOTORIZED EQUIPMENT. RUN IN "SEALTITE" FOR ALL PUMP CONNECTIONS. 6'-0" MAX. UNSUPPORTED LENGTH FOR LIGHTING FIXTURES AND 30" FOR OTHER EQUIPMENT. THIS SYMBOL COULD ALSO REPRESENT A FLEXIBLE CORD FINAL CONNECTION TO LIGHT FIXTURES.

WIRING DEVICES

(ALL WIRING DEVICES SHALL BE AS SPECIFIED OR APPROVED EQUAL, SHOP DRAWINGS ARE REQUIRED FOR ALL DEVICES; COLOR OF WIRING DEVICES AS PER ARCHITECT)

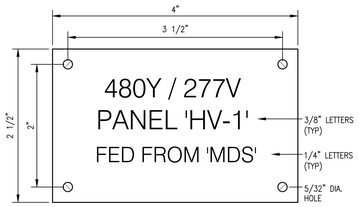
	SINGLE DUPLEX RECEPTACLE NEMA 5-20R (1); HUBBELL #HBL5361I (IVORY) IN TWO GANG BOX
	DUPLEX RECEPTACLE NEMA 5-20R; HUBBELL #HBL5362I (IVORY) IN SINGLE GANG BOX
	DOUBLE DUPLEX RECEPTACLE NEMA 5-20R (2); HUBBELL #HBL5362I (IVORY) IN TWO GANG BOX
	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, NEMA 5-20R; HUBBELL GF5352IA (IVORY) IN SINGLE GANG BOX.
GFI WP	GFCI RECEPTACLE, NEMA 5-20R; HUBBELL #GF5352GYA (GRAY) , WITH CARLON #E9UVCRN WEATHERPROOF COVER PLATE. (UL LISTED FOR "WET LOCATIONS" WHILE IN USE.)
	SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION PER DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT NAMEPLATE REQUIREMENTS.
$	SINGLE POLE TOGGLE SWITCH; HUBBELL #1221, 20A-120/277V IN SINGLE GANG BOX
$M	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A, IN SINGLE GANG BOX
$M2	TWO POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL1392D, 30A, W/ ENCLOSURE
$WP	SINGLE POLE MOTOR RATED TOGGLE SWITCH; HUBBELL #HBL7832D, 30A IN SINGLE GANG WEATHERPROOF BOX WITH WEATHERPROOF COVER

POWER DISTRIBUTION

	VARIABLE FREQUENCY DRIVE
	FUSED DISCONNECT SWITCH HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZE, VOLTAGE AND FUSE SIZE. PROVIDE DUAL ELEMENT TIME DELAY TYPE RK5 FUSES
	NON FUSED DISCONNECT SWITCH HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZE AND VOLTAGE
	COMBINATION STARTER AND C/B DISCONNECT HEAVY DUTY TYPE. SEE DRAWINGS FOR SIZES, HP AND VOLTAGE. FURNISHED AND INSTALLED BY E.C. UNLESS NOTED.
	PANEL BOARD SQUARE "D" # NQ FOR 208/120 VOLT 3ø FOR BRANCH CIRCUIT PANEL BOARDS # NF FOR 480/277 VOLT 3ø FOR BRANCH CIRCUIT PANEL BOARDS
J	JUNCTION BOX
J	JUNCTION BOX FOR HARD WIRE CONNECTION TO EQUIPMENT
T1	DRY-TYPE TRANSFORMER, 480-208/120V, 3ø, OR AS NOTED ON DRAWINGS
	TRANSFER SWITCH
	POWER POLE

HVAC EQUIPMENT

M	MOTOR OR MOTORIZED EQUIPMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
WH	WATER HEATER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AC	A/C UNIT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
CU	CONDENSER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
AH	AIR HANDLER - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
HP	HEAT PUMP - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
H	HEATING ELEMENT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
	ELECTRIC BASEBOARD HEAT - SEE DRAWINGS FOR EQUIPMENT POWER REQUIREMENTS (SEE NOTE BELOW)
T	THERMOSTAT - PROVIDE BACKBOX AND 3/4" EMT TO ABOVE ACCESSIBLE CEILING
NOTE:	VERIFY MCA, FLA, MOCP, VOLTAGE & PHASE WITH VENDOR SHOP DRAWINGS PRIOR TO INSTALLATION OF ELECTRICAL FEEDER TO EQUIPMENT AND PRIOR TO MAKING FINAL CONNECTIONS. VERIFY EXACT EQUIPMENT LOCATIONS WITH M.C. PRIOR TO ROUGH-INS.



TYPICAL NAMEPLATE DETAIL

SCALE: NONE

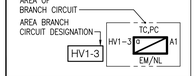
NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE SHALL BE BLACK, ENGRAVED LETTERS SHALL BE WHITE.
3. SECURE NAMEPLATE TO SURFACES WITH (4) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.
4. THIS NAMEPLATE DETAIL IS FOR FACILITIES THAT DO NOT ALREADY HAVE EXISTING PANEL NAMEPLATE NOMENCLATURE & CONTENT REQUIREMENTS; VERIFY NOMENCLATURE REQUIREMENTS WITH AUTHORIZED OWNER REPRESENTATIVE PRIOR TO PURCHASE & CONSTRUCTION.

ELECTRICAL GENERAL NOTES

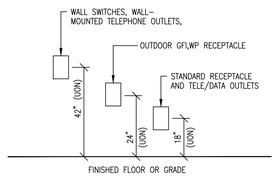
1. ALL BRANCH CIRCUIT WIRING SHALL BE RUN IN EMT CONDUIT, CONCEALED IN WALLS & CEILINGS IN FINISHED AREAS, AND EXPOSED IN UNFINISHED AREAS. MC CABLE MAY BE RUN CONCEALED ABOVE CEILINGS OR IN WALLS WHERE NOT SUBJECT TO PHYSICAL DAMAGE AND ONLY WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION. TYPE "AC" OR "NM" CABLE SHALL NOT BE USED. AN INSULATED EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN IN ALL BRANCH CIRCUITS.
2. ALL PANEL BOARD FEEDERS AND THREE PHASE EQUIPMENT FEEDERS IN EXCESS OF #12 AWG SHALL BE RUN IN EMT, IMC, RGS, OR PVC, & IN ACCORDANCE WITH THE NEC AND THE PROJECT SPECIFICATIONS. CABLE SHALL NOT BE USED.
3. ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL & PERPENDICULAR TO BUILDING STRUCTURE.
4. MINIMUM CONDUIT SIZE SHALL BE 3/4", UNLESS NOTED OTHERWISE. MINIMUM WIRE SIZE SHALL BE #12 AWG TYPE THHN/THWN FOR POWER AND #14 THHN/THWN FOR CONTROL. ALL WIRING TO BE COPPER.
5. REFER TO MECHANICAL & PLUMBING DRAWINGS FOR EXACT LOCATION OF HVAC & PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. E.C. SHALL NOT ROUGH IN FOR CONNECTIONS TO EQUIPMENT WITHOUT VERIFYING LOCATIONS ON MECHANICAL & PLUMBING DRAWINGS, AND WITHOUT VERIFYING FINAL LOCATIONS WITH MECHANICAL & PLUMBING CONTRACTOR.
6. THE E.C. IS RESPONSIBLE FOR VERIFYING VOLTAGE, PHASE, MCA, AND MOCP REQUIRED FOR ALL HVAC EQUIPMENT PRIOR TO PURCHASING AND INSTALLING CONDUCTORS, BREAKERS, DISCONNECTS AND CONDUIT. VERIFY RATINGS WITH MECHANICAL SUBMITTALS, NAMEPLATES AND DIRECTLY WITH MECHANICAL CONTRACTOR.
7. ALL RACEWAYS RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
8. THE E.C. SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT, OWNER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
9. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES. IF THERE IS A CONFLICT BETWEEN ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS (EXAMPLE: LIGHT FIXTURE LOCATION, SWITCH LOCATION OR HEIGHT OF A DEVICE), THE E.C. SHALL CONTACT THIS ENGINEER FOR DIRECTION PRIOR TO ROUGH-IN.
10. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH PUTNAM COUNTY AND THE STATE OF NY ADOPTION OF AND AMENDMENTS TO THE 2017 NATIONAL ELECTRICAL CODE, IFC 2018, IBC 2018, IECC 2018, THE LATEST STATE CODES, AND ALL LOCAL CODES.
11. ALL ELECTRICAL EQUIPMENT, INCLUDING, BUT NOT LIMITED TO CONDUIT, WIRE, BOXES, AND FITTINGS, SHALL BE NEW AND FREE OF DEFECTS, SHALL BEAR THE THE UL LABEL, AND SHALL MEET NEMA AND ANSI STANDARDS.
12. ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE SPACE UNLESS NOTED OTHERWISE IN THE PROJECT SPECIFICATIONS.
13. THE E.C. IS RESPONSIBLE FOR FILING AND PAYING ALL FEES AND OBTAINING NECESSARY PERMITS, CERTIFICATES OF INSPECTION AND SHALL DELIVER ALL CERTIFICATES OF INSPECTION TO OWNER/ CONSTRUCTION MANAGER OR GENERAL CONTRACTOR INCLUDING COPIES WITH MAINTENANCE MANUALS.
14. THE COLORS OF ALL RECEPTACLES, SWITCHES, AND DEVICE PLATES SHALL BE AS SELECTED BY THE ARCHITECT. COLORS SPECIFIED ON ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.
15. E.C SHALL PROVIDE BACK BOX & 1/2" EMT TO NEAREST ACCESSIBLE CEILING FOR ALL THERMOSTATS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
16. FINAL LOCATIONS OF ELECTRICAL EQUIPMENT MUST BE COORDINATED WITH HVAC & PLUMBING CONTRACTORS TO INSURE THAT NO PIPING, DUCTWORK, LEAK PROTECTION APPARATUS OR ANY OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION IS RUN DIRECTLY ABOVE PANELS, SWITCHBOARDS, MCC'S, OR SWITCH GEAR (SEE NEC ARTICLE 110).
17. CONFIRM SERVICE ENTRANCE CONDUIT AND CONDUCTOR QUANTITIES AND SIZES WITH THE LOCAL UTILITY PRIOR TO START OF WORK. INCREASE QUANTITIES AND SIZES AS REQUIRED TO MEET LOCAL UTILITY SERVICE AND INSTALLATION REGULATIONS.
18. ALL FINAL CONNECTIONS TO VIBRATING OR MOTORIZED EQUIPMENT, INCLUDING GENERATORS & DRY-TYPE TRANSFORMERS, SHALL BE MADE WITH FLEXIBLE METAL CONDUIT SUITABLE FOR THE ENVIRONMENT WHICH IT IS TO BE LOCATED (FMC OR LFMC).
19. ALL BRANCH CIRCUITS SHALL CONTAIN DEDICATED NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRAL CONDUCTORS.
20. CONFIRM COLD SEQUENCE METERING VERSUS HOT SEQUENCE METERING WITH THE LOCAL UTILITY PRIOR TO START OF CONSTRUCTION.
21. ALL RECEPTACLES AND DEVICES SHALL BE FLUSH MOUNTED IN BLOCK OR STUD WALLS. FOR EXISTING BLOCK WALLS, CONTRACTOR SHALL PROVIDE SURFACE MOUNTED DEVICES AND RUN WIRE MOLD AS NECESSARY. COLOR OF WIRE MOLD SHALL BE SELECTED BY ARCHITECT.
22. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE FIRE-SEALED TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE SECTION 713.
23. OWNER SHALL FIELD APPLY ARC FLASH WARNING LABELS FOR ALL PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, AND METER SOCKETS, AND INDUSTRIAL CONTROL PANELS PER 2017 NEC 110.16.
24. EACH DISCONNECTING MEANS SHALL BE MARKED TO INDICATE ITS PURPOSE PER 2017 NEC 110.22.
25. FIELD MARK SERVICE EQUIPMENT WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER 2017 NEC 110.24. COORDINATE WITH UTILITY COMPANY TO DETERMINE MAXIMUM AVAILABLE FAULT CURRENT.
26. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A SERVICE AND METER APPLICATION TO THE LOCAL UTILITY COMPANY.
27. CONDUIT INSTALLATION IS TO ACCOUNT FOR 2" OF PERIMETER WALL INSULATION.

LIGHTING ABBREVIATIONS



"HV1-3"	INDICATES PANEL "HV1", CIRCUIT #3
"A1"	INDICATES FIXTURE TYPE
"a"	INDICATES SWITCH/DIMMER CONTROL
"PC"	INDICATES THROUGH PHOTOCELL
"TC"	INDICATES THROUGH TIMECLOCK
"EM"	INDICATES EMERGENCY FIXTURE
"NL"	INDICATES NIGHT LIGHT

NOTE: EM/NL FIXTURES SHALL BE WIRED AHEAD OF LOCAL SWITCHING.



DEVICE MOUNTING HEIGHT ELEVATION

* NOTE: ANY MOUNTING HEIGHT SHOWN ON ARCHITECTS' DRAWINGS SHALL SUPERSEDE THOSE SHOWN ABOVE UNLESS IT CONFLICTS WITH CODE REQUIREMENTS.

ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A, AMP	AMPERES	EM	EMERGENCY	L	LOCKING TYPE/LOAD	QTY	QUANTITY
AA	AMBIENT AIR	EMT	ELECTRICAL METALLIC TUBING	LA	LIGHTNING SURGE ARRESTOR	(R)	EXISTING TO BE REMOVED
AC	ALTERNATING CURRENT	EOL	END OF LINE DEVICE	LAN	LOCAL AREA NETWORK	REC,RECEPT	RECEPTACLE
ACR	ABOVE COUNTER RECEPTACLES	EPO	EMERGENCY POWER OFF	LT	LONG TIME	REQ, REQD	REQUIRED
AF	AMPERE FRAME (CIRCUIT BREAKER)	EQ	EQUAL	LTG	LIGHTING	RM	ROOM
AFF	ABOVE FINISH FLOOR	EQUIP	EQUIPMENT	LP	LIGHTING PANEL	RTU	ROOF TOP UNIT
AFG	ABOVE FINISH GRADE	ERMS	ENERGY REDUCTION MAINTENANCE SWITCH	LSI	LONG TIME. SHORT TIME. INSTANTANEOUS.	RUPS	ROTARY UPS
AFU	AMPERE FUSE	EWC	ELECTRIC WATER COOLER	LSIG	LONG TIME. SHORT TIME. INSTANTANEOUS. GROUND FAULT.	SCA	SHORT CIRCUIT AMPERES
AHU	AIR HANDLING UNIT	F	FUSE			SCCR	SHORT CIRCUIT CURRENT RATING
AIC	AMPERE INTERRUPTING CAPACITY			M	METER	SEC	SECONDARY
AL	ALUMINUM	FA	FIRE ALARM	M.C.	MECHANICAL CONTRACTOR	SP	SPARE
ARCH	ARCHITECT	FA	FORCED AIR	MCB	MAIN CIRCUIT BREAKER	SPD	SURGE PROTECTIVE DEVICE
AT	AMPERE TRIP (CIRCUIT BREAKER)	FAAP	FIRE ALARM ANNUNCIATOR PANEL	MCC	MOTOR CONTROL CENTER	SPEC	SPECIFICATION
ATS	AUTOMATIC TRANSFER SWITCH	FACP	FIRE ALARM CONTROL PANEL	MCCB	MOLDED CASE CIRCUIT BREAKER	SPKR	SPEAKER
AUX	AUXILIARY	FCC	FIRE COMMAND CENTER	MCP	MOTOR CIRCUIT PROTECTOR	ST	SHUNT TRIP
A/V	AUDIO VISUAL	FCU	FAN COIL UNIT	MEP	MECHANICAL, ELECTRICAL, PLUMBING	STD	STANDARD
AWG	AMERICAN WIRE GAUGE	FDR	FEEDER	MECH	MECHANICAL	STP	SHIELDED TWISTED PAIR
BAS	BUILDING AUTOMATION SYSTEM	FLA	FULL LOAD AMPERES	MFR	MANUFACTURER	STS	STATIC TRANSFER SWITCH
BKR	BREAKER	FPB	FAN POWERED BOX	MH	MANHOLE	SW	SWITCH
BLDG	BUILDING	F/S	FUSED SWITCH	MI	MINERAL INSULATED	SWBD	SWITCHBOARD
BYP, BP	BYPASS	FT	FEET	MISC	MISCELLANEOUS	SWGR	SWITCHGEAR
C	CONDUIT - RACEWAY	FU.	FUSES	MLO	MAIN LUGS ONLY	SYM	SYMMETRICAL
CATV, TV	CABLE TELEVISION	FUT	FUTURE	MTD	MOUNTED	SYS	SYSTEM
C/B, CB	CIRCUIT BREAKER	FVR	FULL VOLTAGE REVERSIBLE	MTG	MOUNTING	TB	TERMINAL BLOCK
CCTV	CLOSED CIRCUIT TELEVISON	FVNR	FULL VOLTAGE NON-REVERSIBLE	MTS	MANUAL TRANSFER SWITCH	TEL	TELEPHONE
CKT	CIRCUIT	G	GROUND OR GROUNDING	MV	MEDIUM VOLTAGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
CLG	CEILING	GND, GRD	GROUND OR GROUNDING	N	NEUTRAL/NORMAL	TYP	TYPICAL
COAX	COAXIAL CABLE	GA	GAUGE	N.C.	NORMALLY CLOSED	UC	UNDER COUNTER
C/L	CENTERLINE	GEN	GENERATOR	N.O.	NORMALLY OPEN	UG	UNDERGROUND
COL	COLUMN	GF	GROUND FAULT	NEC	NATIONAL ELECTRICAL CODE	UH, EUH	UNIT HEATER
COMM	COMMUNICATIONS	GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER	N.I.C	NOT IN CONTRACT	UL	UNDERWRITERS LABORATORY
CPT	CONTROL POWER TRANSFORMER	GFS	GENERATOR PARALLELING SWITCHGEAR	NFSS	NON-FUSED SAFETY SWITCH	UON, UNO	UNLESS OTHERWISE NOTED
CPU	CENTRAL PROCESSING UNIT	GRC	GALVANIZED RIGID STEEL CONDUIT	NL	NIGHT LIGHT	UPS	UNINTERRUPTIBLE POWER SUPPLY
CR	CARD READER	HH	HAND HOLE	NTS	NOT TO SCALE	UTP	UNSHELDED TWISTED PAIR
CS	CONTROL SWITCH	HID	HIGH INTENSITY DISCHARGE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	V	VOLT(S)
CU	COPPER	HOA	HAND-OFF-AUTOMATIC SWITCH	OS	OCCUPANCY SENSOR	VAV	VARIABLE AIR VOLUME BOX
CUH	CABINET UNIT HEATER	HP	HORSEPOWER	P	POLE	VFD	VARIABLE FREQUENCY DRIVE
CT	CURRENT TRANSFORMER	HZ	HERTZ	PB	PUSHBUTTON/PULLBOX	VM	VOLTMETER
D	DEDICATED	I/INST	INSTANTANEOUS	PC	PHOTOCELL	VMS	VOLTMETER SWITCH
DC	DIRECT CURRENT	IG	ISOLATED GROUND	PDU	POWER DISTRIBUTION UNIT	W	WIRE/WATT
DDC	DIRECT DIGITAL CONTROL	IMC	INTERMEDIATE METAL CONDUIT	PF	POWER FACTOR	W/	WITH
DEMO	DIRECT DIGITAL CONTROL	JB, JBOX	JUNCTION BOX	PH, ϕ	PHASE	WM	WATTMETER
DIA	DIAMETER	K	KEY LOCK (KEY INTERLOCK SCHEME)	PMS	POWER MONITORING SYSTEM	WP	WEATHERPROOF
DIST	DISTRIBUTION	KA	KILOAMPERES	PNL	PANEL OR PANELBOARD	WG	WITH WIREGUARD
DWG	DRAWING	KCMIL	THOUSAND CIRCULAR MILS	PVC	POLYVINYL CHLORIDE	WT	WATERTIGHT
DN	DOWN	KVA	KILOVOLT AMPERES	PWR	POWER	TRANSF	TRANSFORMER
(E)	EXISTING TO REMAIN	KW	KILOWATTS	PRI	PRIMARY	XFMR	TRANSFORMER
E.C.	ELECTRICAL CONTRACTOR	KWH	KILOWATT HOUR	PS	POWER SUPPLY	△	DELTA
EF	EXHAUST FAN	KV	KILOVOLTS	PT	POTENTIAL TRANSFORMER	⅄	GROUNDED WYE
ELEV	ELEVATOR	KVAR	KVA REACTIVE				

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	LAMPS NO.	LAMPS INPUT WATTS	LAMPS TYPE	MOUNTING	CATALOG NUMBER	REMARKS
•	A	1	321	LED	CABLE/CHAIN	T1 LIGHTING # T1-HBLED_U_321-40-OS	2' X 4' LED W/ INTEGRAL MOTION SENSOR
	B	1	31	LED	SURFACE/CHAIN	HUBBELL # MPS4-35MW-CW-EU	4'-0" LINEAR LED STRIP FIXTURE
	X1	1	2.5	LED	WALL	BEST LIGHTING # LEDCXTEU-2-R-W-RC	UNIVERSAL MOUNT THERMOPLASTIC, COMBINATION EXIT LIGHT WITH TWO INTEGRAL EMERGENCY LAMPS & REMOTE CAPABILITY TO POWER DUAL REMOTE HEADS
	X2	1	2.5	LED	WALL	BEST LIGHTING # RHLED 2 PWP MV HL	DUAL WEATHERPROOF REMOTE HEAD, THERMOPLASTIC

SITE LIGHTING SCHEDULE

SYMBOL	KEY	FIXTURE MANUFACTURER	FIXTURE MODEL	FIXTURE DESCRIPTION	FIXTURE MOUNTING HEIGHT	LAMP	OPTICS	LUMENS	FIXTURE CATALOGUE NO.	POLE MANUFACTURER	POLE DESCRIPTION	POLE LENGTH	POLE CATALOGUE NO.	REMARKS
	A	LITHONIA LIGHTING	RSX2	TWIN MOUNTED FIXTURE COLOR - BLACK	40'-0"	114W LED	FORWARD THROW	14,587 (PER FIXTURE)	RSX2-LED-P2-30K-R4	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	37'-0"	RTS-37-6-5B-DM28AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	B	LITHONIA LIGHTING	RSX2	TWIN MOUNTED FIXTURE COLOR - BLACK	40'-0"	114W LED	TYPE 3 FORWARD THROW	14,587	RSX2-LED-P2-30K-R3-EGS RSX2-LED-P2-30K-R4-EGS	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	37'-0"	RTS-37-6-5B-DM28AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	C	LITHONIA LIGHTING	RSX2	TWIN MOUNTED FIXTURE COLOR - BLACK	40'-0"	114W LED	TYPE 2 FORWARD THROW	14,587	RSX2-LED-P2-30K-R2-EGS RSX2-LED-P2-30K-R4-EGS	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	37'-0"	RTS-37-6-5B-DM28AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	D	LITHONIA LIGHTING	RSX2	TWIN MOUNTED FIXTURE COLOR - BLACK	30'-0"	114W LED	TYPE 5	16,078	RSX2-LED-P2-30K-R5-EGS	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	27'-0"	RTS-27-6-5B-DM28AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	E	LITHONIA LIGHTING	RSX2	SINGLE MOUNTED FIXTURE COLOR - BLACK	30'-0"	114W LED	TYPE 3	13,463	RSX2-LED-P2-30K-R3-EGS	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	27'-0"	RTS-27-6-5B-DM19AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	F	LITHONIA LIGHTING	RSX2	SINGLE MOUNTED FIXTURE COLOR - BLACK	30'-0"	114W LED	FORWARD THROW	15,861	RSX2-LED-P2-30K-R4	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	27'-0"	RTS-27-6-5B-DM19AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	G	LITHONIA LIGHTING	RSX2	SINGLE MOUNTED FIXTURE COLOR - BLACK	30'-0"	114W LED	TYPE 2	14,587	RSX2-LED-P2-30K-R2-EGS	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	27'-0"	RTS-27-6-5B-DM19AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	H	LITHONIA LIGHTING	RSX2	SINGLE MOUNTED FIXTURE COLOR - BLACK	30'-0"	114W LED	TYPE 5	16,072	RSX2-LED-P2-30K-R5	LITHONIA LIGHTING	ROUND TAPERED STEEL; COLOR - BLACK	27'-0"	RTS-27-6-5B-DM19AS-VD-DBLXD	POLE TO BE MOUNTED ON 3' HEIGHT EXPOSED CONCRETE BASE
	J	LITHONIA LIGHTING	RSX2	WALL-MOUNTED SCONCE; COLOR - BLACK	30'-0"	114W LED	FORWARD THROW	15,861	RSX2-LED-P2-30K-R4-WM	-	-	-	-	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS
	K	LITHONIA LIGHTING	RSX2	WALL-MOUNTED SCONCE; COLOR - BLACK	35'-0"	114W LED	FORWARD THROW	15,861	RSX2-LED-P2-30K-R4-WM	-	-	-	-	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS
	L	LITHONIA LIGHTING	RSX2	WALL-MOUNTED SCONCE; COLOR - BLACK	30'-0"	114W LED	TYPE III	6,933	RSX2-LED-P2-30K-R3-WM	-	-	-	-	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS

CURRENT ISSUE:
PERMIT

ELECTRICAL DRAWING LIST

DWG NO.	DRAWING TITLE	A (05.27.22) ISSUE FOR REVIEW	0 (06.10.22) ISSUE FOR PERMIT
E1.0	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS	○	●
E2.0	PARTIAL WAREHOUSE LIGHTING PLAN	○	●
E2.1	PARTIAL WAREHOUSE LIGHTING PLAN	○	●
E3.0	PARTIAL WAREHOUSE POWER PLAN	○	●
E3.1	PARTIAL WAREHOUSE POWER PLAN	○	●
E4.0	ENLARGED LIGHTING & POWER PLANS	○	●
E5.0	ELECTRICAL ONE LINE DIAGRAM	○	●
E6.0	ELECTRICAL PANEL SCHEDULES	○	●
E7.0	ELECTRICAL DETAILS	○	●
E8.0	ELECTRICAL SPECIFICATIONS	○	●
EN1.0	ENERGY COMPLIANCE	○	●
ESP1.0	ELECTRICAL SITE LIGHTING PLAN	○	●

DESIGNER / BUILDER
ARCO DESIGN/BUILD INDUSTRIAL
44 SOUTH BROADWAY, SUITE 1003
WHITE PLAINS, NY 10601
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ADBI | DESIGN SERVICES

PROJECT TITLE
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ARCHITECT
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CIVIL ENGINEER
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NATIONAL DESIGN/ BUILD SERVICES
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ELECTRICAL ENGINEER
FBX ENGINEERING
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PLUMBING ENGINEER
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315 EAST SECOND STREET
BOYERTOWN, PA 19512

FIRE PROTECTION ENGINEER
S A COMUNALE CO. INC.
2900 NEWPARK DRIVE
BARBERTON, OH 44203

SEAL

KEY PLAN

SUBMITTALS

NO.	DATE	DESCRIPTION
A	05.27.22	ISSUE FOR REVIEW
0	06.10.22	ISSUE FOR PERMIT

PROJECT NO. AS286-21/ NY131
DRAWN BY FXB

SHEET TITLE
ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS

SHEET NO.
E1.0

PRINTED ARCH E1 30" x 42" 3/10/2023 9:04:40 AM