

SYMBOL & ABBREVIATION SCHEDULE

NOTES

1. THIS SCHEDULE IS A STANDARD SCHEDULE. CERTAIN SYMBOLS & ABBREVIATIONS INDICATED ON THIS SCHEDULE MAY NOT APPEAR ON THE DRAWINGS.
2. EQUIPMENT SYMBOLS SHOWN DASHED ON THE DRAWINGS INDICATE EXISTING EQUIPMENT.

LIGHTING AND POWER LEGEND

	LIGHTING FIXTURE - RECESSED MOUNTED
	LIGHTING FIXTURE - SURFACE MOUNTED
	LIGHTING FIXTURE - PENDANT MOUNTED
	LIGHTING FIXTURE - WALL MOUNTED
	LIGHTING FIXTURE STRIP
	EMERGENCY LIGHTING FIXTURE
	RECESSED DOWN LIGHT
	LIGHTING FIXTURE - WALL MOUNTED
	FLOOD TYPE LIGHTING FIXTURE OR TRACK HEAD
	EMERGENCY BATTERY PACK LIGHTING FIXTURE - INTERIOR
	EMERGENCY BATTERY PACK LIGHTING FIXTURE - EXTERIOR
	PENDANT MOUNTED LIGHTING FIXTURE
	WALL WASH LIGHTING FIXTURE - RECESSED MOUNTED
	WALL SCONCE LIGHTING FIXTURE - WALL MOUNTED
	POST TOP MOUNTED LUMINAIRE
	POLE MOUNTED AREA LUMINAIRE
NOTE UPPER CASE LETTER DESIGNATES LIGHTING FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION) AND LOWER CASE LETTER DESIGNATES SWITCH CONTROL.	
	EXIT SIGN - BACK SURFACE MOUNTED - SINGLE FACE
	EXIT SIGN - CEILING MOUNTED - SINGLE FACE
	EXIT SIGN - CEILING MOUNTED - DOUBLE FACE
	EXIT SIGN - WALL MOUNTED - SINGLE OR DOUBLE FACE
SEE FLOOR PLANS FOR EXIT AND DESIGNATION SIGNS REQUIRING DIRECTIONAL ARROWS	
	SINGLE POLE SWITCH - MOUNTED 48" AFF UNO
	3-WAY SWITCH - MOUNTED 48" AFF UNO
	4-WAY SWITCH - MOUNTED 48" AFF UNO
	KEY OPERATED SWITCH - MOUNTED 48" AFF UNO
	OCCUPANCY/VACANCY SENSOR SWITCH - DUAL TECHNOLOGY - WALL MOUNTED W/ ON/OFF OVERRIDE - MOUNTED 48" AFF UNO (NUMBER BESIDE DEVICE INDICATES TO NUMBER ON LOW VOLTAGE CONTROL SCHEDULES)
	WEATHERPROOF SWITCH - MOUNTED 48" AFF UNO
	LOW VOLTAGE SWITCH (NUMBER BESIDE DEVICE INDICATES NUMBER ON LOW VOLTAGE CONTROL SCHEDULES)
	SWITCH - LOWER CASE LETTER INDICATES LIGHTING FIXTURE CONTROL DESIGNATION
	POWER PACK (DIGITAL ROOM CONTROLLER) - PLUG LOAD CONTROL
	POWER PACK (DIGITAL ROOM CONTROLLER) - (NUMBER BESIDE DEVICE INDICATES NUMBER ON LOW VOLTAGE CONTROL SCHEDULES)
	PHOTOELECTRIC CELL
	DAY LIGHTING SENSOR - CEILING MOUNTED
	OCCUPANCY SENSOR - DUAL TECHNOLOGY - CEILING MOUNTED (NUMBER BESIDE DEVICE INDICATES NUMBER ON LOW VOLTAGE CONTROL SCHEDULES)
	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL OR CEILING MOUNTED (NUMBER BESIDE DEVICE INDICATES NUMBER ON LOW VOLTAGE CONTROL SCHEDULES)
	SWITCH WITH PILOT LIGHT (PILOT LIGHT IS ON WHEN SWITCH IS IN OFF POSITION) - MOUNTED 48" AFF UNO
	SINGLE PHASE MANUAL MOTOR SWITCH WITH OVERLOADS - MOUNTED 48" AFF UNO
	ON-OFF-STOP PUSHBUTTON
	DUPLEX TAMPER RESISTANT RECEPTACLE - MOUNTED 18" AFF UNO
	QUAD TAMPER RESISTANT RECEPTACLE - MOUNTED 18" AFF UNO
	DUPLEX TAMPER RESISTANT RECEPTACLE - MOUNTED 6" ABOVE BACK SPLASH OF COUNTERTOP
	DUPLEX TAMPER RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE - MOUNTED 18" AFF UNO
	DUPLEX TAMPER RESISTANT WEATHERPROOF TYPE RECEPTACLE - MOUNTED 18" AFF UNO
	TWISTLOCK RECEPTACLE - RATING AS SHOWN ON DRAWINGS
	DUPLEX TAMPER RESISTANT - GROUND FAULT INTERRUPTER TYPE RECEPTACLES - ELECTRIC WATER COOLER - COORDINATE MOUNTING HEIGHT W/ EQUIPMENT MANUFACTURER (PROVIDE TWO RECEPTACLES AT THIS LOCATION - ONE LOW FOR THE COOLER AND ONE HIGH FOR THE DISPENSER)
	TELEVISION TAMPER RESISTANT DUPLEX RECEPTACLE (RECESSED TYPE) - COORDINATE MOUNTING HEIGHT WITH .1 CONTRACTOR
	SPECIAL PURPOSE RECEPTACLE - CONFIGURATION TO MATCH EQUIPMENT SUPPLIED NEMA PLUG
	TIME CLOCK

	JUNCTION BOX
	ENCLOSED CIRCUIT BREAKER - REFER TO MECHANICAL/PLUMBING/ETC EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
	VARIABLE FREQUENCY DRIVE
	COMBINATION DISCONNECT SWITCH AND STARTER - REFER TO MECHANICAL/PLUMBING/ETC EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
	NON-FUSED DISCONNECT SWITCH - REFER TO MECHANICAL/PLUMBING/ETC EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
	FUSED DISCONNECT SWITCH - REFER TO MECHANICAL/PLUMBING/ETC EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
	MOTOR
	ELECTRICAL PANELBOARD - RECESSED MOUNTED
	ELECTRICAL PANELBOARD - SURFACE MOUNTED
	PHASE
	SWITCH LEG
	SWITCHED CIRCUIT
	BRANCH CIRCUIT
	HOMERUN TO PANELBOARD ARROWS INDICATE NUMBER OF CIRCUITS IN CONDUIT (3#12 FOR EACH CIRCUIT-3/4"C UNLESS NOTED OTHERWISE
	CROSSHATCHING INDICATES EQUIPMENT, CONDUIT/CONDUCTORS AND ASSOCIATED DISCONNECTING MEANS TO BE RENDERED DEAD AND REMOVED UNDER DEMOLITION WORK BACK TO THE SOURCE OR DESTINATION UNLESS NOTED OR SHOWN OTHERWISE
	HORIZONTAL UNIT HEATER
	CABINET UNIT HEATER
	MOTOR OPERATED DAMPER PROVIDED WITH MANUAL MOTOR STARTER
	COMBINATION SMOKE AND FIRE DAMPER PROVIDED WITH MANUAL MOTOR STARTER
	JUNCTION BOX FINAL CONNECTION TO EQUIPMENT
	FINAL CONNECTION TO PROJECTION SCREEN
	CONNECTION TO FAN POWER BOX
	ELECTRIC STRIKE
	POWER OPERATED DOOR - 120V-1Ø, 5A
	PHOTO-ELECTRIC CELL
	LINE VOLTAGE THERMOSTAT
	INDICATES KEYNOTES
	MASTER GROUND BUS
	COMBINATION POWER/TELECOMMUNICATION FLOOR BOX

GENERAL NOTES - ELECTRICAL

1. REFER TO ARCHITECTURAL DETAILS, ELEVATIONS AND REFLECTED CEILING PLANS FOR LOCATION AND COORDINATION OF LIGHTING FIXTURES IN CEILING CONSTRUCTION.
2. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
3. ALL WIRE, CONDUIT, CONNECTORS, OUTLETS BOXES, ETC. NECESSARY TO ACHIEVE A COMPLETE ELECTRICAL INSTALLATION WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN SHALL BE FURNISHED AND INSTALLED AS THOUGH FULLY SHOWN AND SPECIFIED.
4. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM THE TOP OR BOTTOM CORD OF BAR JOIST, LIGHTING FIXTURES WHICH ARE INSTALLED IN SUSPENDED CEILING SYSTEM MUST BE MECHANICALLY FASTENED TO T-BAR SYSTEM AS PER SPECIFICATIONS.
5. NO CONDUITS SHALL BE RUN THROUGH OR SUPPORTED FROM DUCTWORK.
6. ALL ELECTRICAL WORK, WIRING, CONNECTIONS AND ASSOCIATED EQUIPMENT WITHIN THE AREA OF WORK SHALL BE AS PER APPLICABLE ARTICLES OF THE NATIONAL ELECTRICAL CODE. COORDINATE WITH SPECIFICATIONS FOR DEVICE REQUIREMENTS.
7. IT IS CALLED TO THE CONTRACTOR'S ATTENTION THAT THE ENTIRE INSTALLATION MUST BE GROUNDED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. ALL DEVICES, EQUIPMENT BOXES, ETC. MUST BE CONNECTED TO A STRANDED, INSULATED GREEN, COPPER GROUNDING CONDUCTOR. THIS GROUNDING CONDUCTOR MUST BE CONTINUOUS WITHOUT SPLICES FROM POINT OF ORIGIN IN PANELBOARD TO ALL BOXES AND EQUIPMENT ON EACH BRANCH CIRCUIT. VERIFY GROUNDING VALUES AND SUBMIT A TYPEWRITTEN REPORT TO THE ARCHITECT INDICATING TESTING RESULTS OF EACH CIRCUIT AT THE COMPLETION OF THE PROJECT.
8. FOR SINGLE PHASE CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 2 #12 & 1#12 GROUND IN 3/4" CONDUIT. FOR THREE PHASE CIRCUITS, UNLESS NOTED OTHERWISE, NEW WIRING INDICATED SHALL BE 4 #12 & 1#12 GROUND IN 3/4" CONDUIT. FOR CIRCUITS THAT REQUIRE LONG TRAVEL DISTANCES, REFER TO VOLTAGE DROP NOTE BELOW.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE STOPPING AT ALL FLOOR SLAB/CEILING AND WALL PENETRATIONS WITHIN THE LIMITS OF CONTRACT WORK AREA TO MAINTAIN THE FIRE RATED CONSTRUCTION.
10. AFTER CONSTRUCTION, ALL UNUSED SPACES IN PANELS SHALL BE LABELED AS A 'PROVISION', ALL SPARE BREAKERS SHALL BE PLACED IN THE OFF POSITION AND LABELED AS 'SPARE'.
11. REFER TO "TT" AND "TY" SERIES DRAWINGS FOR ADDITIONAL .4 WORK AND COORDINATION.

FIRE ALARM SYSTEM LEGEND

	CONTROL ZONE ADDRESSABLE MODULE
	FIRE ALARM SYSTEM - FLOW SWITCH FOR SPRINKLER SYSTEM FURNISHED AND INSTALLED BY .3 WIRED BY .4
	FIRE ALARM SYSTEM - TAMPER SWITCH (SUPERVISED VALVE) FOR SPRINKLER SYSTEM, FURNISHED AND INSTALLED BY .3, WIRED BY .4
	FIRE ALARM SYSTEM - PRESSURE SWITCH FOR SPRINKLER SYSTEM, FURNISHED AND INSTALLED BY .3, WIRED BY .4
	FIRE ALARM SYSTEM DUCT DETECTOR, FURNISHED AND WIRED BY .4 INSTALLED BY .2 COMPLETE W/ SHUTDOWN RELAY AND TEST STATION - REFER TO 3/E-603 FOR ADDITIONAL INFORMATION
	FIRE ALARM SYSTEM CONTROL PANEL
	FIRE ALARM SYSTEM EXTENDER PANEL
	FIRE ALARM SYSTEM ANNUCIATOR PANEL
	FIRE ALARM SYSTEM PULL STATION
	FIRE ALARM SYSTEM SMOKE DETECTOR - PHOTOELECTRIC TYPE
	FIRE ALARM SYSTEM HEAT DETECTOR - FIXED TEMPERATURE
	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR FOR ELEVATOR RECALL
	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR
	FIRE ALARM SYSTEM AND ADA STROBE (NUMBER IN PARENTHESIS INDICATES CANDELA RATING)
	FIRE ALARM SYSTEM COMBINATION HORN / ADA STROBE (NUMBER IN PARENTHESIS INDICATES CANDELA RATING)
	WEATHERPROOF FIRE ALARM SYSTEM COMBINATION HORN / ADA STROBE (NUMBER IN PARENTHESIS INDICATES CANDELA RATING)
	FIRE ALARM SYSTEM DOOR HOLDER
	INDIVIDUAL ADDRESSABLE MODULE
	FIRE ALARM / MASS NOTIFICATION SYSTEM SPEAKER - CEILING MOUNTED
	FIRE ALARM / MASS NOTIFICATION SYSTEM COMBINATION SPEAKER/STROBE - CEILING MOUNTED
	FIRE ALARM / MASS NOTIFICATION SYSTEM SPEAKER/ - WALL MOUNTED
	FIRE ALARM / MASS NOTIFICATION SYSTEM COMBINATION SPEAKER/STROBE - WALL MOUNTED

NOTE

REFER TO FIRE ALARM RECOMMENDED DEVICE MOUNTING HEIGHTS DETAIL 2/E-603 FOR ADDITIONAL INFORMATION.

MISCELLANEOUS SYMBOLS

	SECTION NUMBER
	DRAWING NUMBER WHERE DRAWN
	DETAIL NUMBER
	DRAWING NUMBER WHERE DRAWN
	NEW CONNECTION TO EXISTING
	DISCONNECT EXISTING EQUIPMENT
	1 = DETAIL DESIGNATION / E-601 = DRAWING NUMBER DETAIL IS SHOWN ON
	DENOTES FEEDER SIZE. REFER TO FEEDER SCHEDULE
	GROUNDING ELECTRODE
	SURGE PROTECTION DEVICE
	EXISTING OVERHEAD ELECTRICAL
	EXISTING UNDERGROUND ELECTRICAL
	UNDERGROUND ELECTRICAL
	UNDERGROUND PRIMARY ELECTRICAL
	UNDERGROUND SECONDARY ELECTRICAL
	MOLDED CASE AIR CIRCUIT BREAKER 600V AND LOWER OR
	FUSED SWITCH VOLTAGE AS INDICATED
	TRANSFORMER

ABBREVIATIONS

A	AMPERE	LSI	LONG, SHORT, INSTANTANEOUS	SBC	SUB BRANCH CONTROLLER
AB	ABOVE COUNTER	LSIA	LONG, SHORT, INSTANTANEOUS, ALARM	SEC	SECONDARY
AC	ALTERNATING CURRENT	LSIG	LONG, SHORT, INSTANTANEOUS, GROUND FAULT	SHT	SHEET
ADA	AMERICANS W/ DISABILITIES ACT	LTS	LIGHTS	SMR	SURFACE METAL RACEWAY
AF	AMP FRAME, AMP FUSE	MBC	MAIN BRANCH CONTROLLER	SPECS	SPECIFICATIONS
AFF	ABOVE FINISH FLOOR	MC	METAL CLAD CABLE	SPDT	SINGLE POLE DOUBLE THROW
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPACITY	SSCHP	SPLIT SYSTEM CEILING HEAT PUMP
APPROX	APPROXIMATELY	MCB	MAIN CIRCUIT BREAKER	SSHHP	SPLIT SYSTEM HORIZONTAL HEAT PUMP
ARMS	ARC-FAULT REDUCTION MAINTENANCE SYSTEM	MI	MINERAL INSULATED	SSWHP	SPLIT SYSTEM WALL HEAT PUMP
AS	AMMETER SWITCH	MIN	MINIMUM	STR	STARTER
AT	AMP TRIP	MLO	MAIN LUGS ONLY	SW	SWITCH
@	AT	MMS	MANUAL MOTOR STARTER	SWBD	SWITCHBOARD
ATC	AUTOMATIC TEMPERATURE CONTROL	MOD	MOTOR OPERATED DAMPER	TEMP	TEMPORARY
ATS	AUTOMATIC TRANSFER SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION	T'STAT	THERMOSTAT
AUX	AUXILIARY	MTD	MOUNTED	TV	TELEVISION
C	CONDUIT	N/A	NOT APPLICABLE	TYP	TYPICAL
CB	CIRCUIT BREAKER	NAC	NOTIFICATION APPLIANCE CIRCUIT	UNO	UNLESS NOTED OTHERWISE
CKT	CIRCUIT	NC	NORMALLY CLOSED	UPS	UNINTERRUPTIBLE POWER SUPPLY
CL	CENTER LINE	NE	NORMAL EMERGENCY	UV	UNIT VENTILATOR
CLG	CEILING	NEC	NATIONAL ELECTRICAL CODE	V	VOLT
CT	CURRENT TRANSFORMER	NEUT	NEUTRAL	VVB	VARIABLE VOLUME BOX
CUH	CABINET UNIT HEATER	NF	NON FUSED	W	WIRE
DIA	DIAMETER	NIC	NOT IN CONTRACT	W/	WITH
DIST	DISTRIBUTION	NO	NORMALLY OPEN	WCR	WITHSTAND AND CLOSING RATINGS
DN	DOWN	P	POLE(S)	WP	WEATHERPROOF
DWG	DRAWING	PC	PLUMBING CONTRACTOR		
DWH	DOMESTIC HOT WATER HEATER	PNL	PANEL		
EA	EACH	PRI	PRIMARY		
EF	EXHAUST FAN	PRV	POWER ROOF VENTILATOR		
EHUH	ELECTRIC HORIZONTAL UNIT HEATER	PVC	POLYVINYL CHLORIDE		
ELEV	ELEVATOR	RECPT	RECEPTACLE		
EMT	ELECTRIC METALLIC TUBING	REQ'D	REQUIRED		
EQ	EQUAL	RTU	ROOF TOP UNIT		
ETR	EXISTING TO REMAIN				
EX	EXISTING (EXIST)				
EXH	EXHAUST				
EW	ELECTRIC WATER COOLER				
EW	ELECTRIC WALL HEATER				
FPB	FAN POWERED BOX				
FCU	FAN COIL UNIT				
FCE	FURNACE				
FDR	FEEDER				
FU	FUSE				
GF1	GROUND FAULT INTERRUPTER				
GRD	GROUND				
HP	HORSEPOWER				
JB	JUNCTION BOX				
KCMIL	THOUSAND CIRCULAR MILS				
KV	KILOVOLT				
KVA	KILOVOLT AMPERES				
KW	KILOWATT				

RECORD REVISIONS		
PROFESSIONAL'S SIGNATURE DATE		
UpStreet ARCHITECTS, INC. 541 PHILADELPHIA ST. 911 MENOHER BLVD. INDIANA, PA 15701 JOHNSTOWN, PA 15905		
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES HARRISBURG, PENNSYLVANIA		
D.G.S. PROJECT No: C-0588-0015 PHASE 1		
LOYSVILLE YOUTH DEVELOPMENT CENTER- RENOVATIONS TO ZIMMERMAN- BINGAMAN (ZB) COTTAGE DEPARTMENT OF HUMAN SERVICES LOYSVILLE, TYRONE TOWNSHIP, PERRY COUNTY, PA		
SYMBOLS AND ABBREVIATIONS - ELECTRICAL		
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL.		DRAWN BY S. SMOLKO CHECKED BY S. MULHOLLEN
DATE 27 JUNE 2023 SCALE AS NOTED		SHEET No. E-001

VERIFY SCALE

BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING:
0 1

IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY