ELECTRICAL SYMBOLS

HOMERUN ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. DESIGNATION INDICATES HOMERUN TO PANEL "A" INDICATING CIRCUIT NUMBER(S) - ALL WIRING SHALL BE #12 WITH GROUND WIRE UON (INCREASE TO #10 FOR CIRCUITS OVER 75 FT.) - ALL HOMERUNS SHALL BE CONNECTED TO A 20 AMPERE, 1 POLE CIRCUIT BREAKER UON - QUANTITY OF CONDUCTORS AS NECESSARY TO ACCOMMODATE CIRCUITS AND CONTROL INDICATED. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE QUANTITY OF WIRES WITHIN EACH HOMERUN – 3/4" CONDUIT MINIMUM. ANY HOMERUN THAT SERVES AN ISOLATED GROUND RECEPTACLE SHALL BE PROVIDED AN ISOLATED GROUND (SIZED TO MATCH THE EQUIPMENT GROUND) IN ADDITION TO AN EQUIPMENT GROUND. DO NOT ROUTE ISOLATED GROUND CIRCUITS THROUGH SAME CONDUIT AS NORMAL CIRCUITS.

A-1

BRANCH CIRCUIT WIRING ON NORMAL POWER ROUTED CONCEALED IN FINISHED AREAS AND ROUTED EXPOSED IN UNFINISHED AREAS. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE – 3/4" CONDUIT MINIMUM.

CONDUIT INSTALLED BELOW FINISHED GRADE OR ROUTED BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. PROVIDE WIRING AND SIZE CONDUIT AS NOTED FOR HOMERUN SYMBOL ABOVE.

SWITCH - 20 AMPERE, 120/277 VOLT, SINGLE-POLE. MOUNTED AT 46" ABOVE FINISHED FLOOR TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES THE FOLLOWING: 3 = 3-WAY, 4 = 4-WAY, K =KEYED, P = PILOT LIGHT, T = TIMER.

LOW VOLTAGE ON/OFF WALL SWITCH WITH INTEGRAL DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR. MOUNTED AT 46" ABOVE FINISHED FLOOR TO CENTERLINE UNLESS OTHERWISE NOTED.

CEILING-MOUNTED, LOW VOLTAGE, DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR.

WALL MOUNTED , LOW VOLTAGE, DUAL-TECHNOLOGY (PASSIVE INFRARED AND ULTRASONICS/MICROPHONICS) OCCUPANCY SENSOR.

RECESSED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

SURFACE-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

EMERGENCY RECESSED FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

EMERGENCY SURFACE MOUNTED FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

WALL-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

WALL-MOUNTED SCONCE FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

STRIP LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

DOWNLIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

EXTERIOR WALL-MOUNTED LIGHT FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

EMERGENCY BATTERY PACK FIXTURE WITH AIMABLE LAMP HEADS. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

REMOTE EMERGENCY EXIT DISCHARGE FIXTURE WITH AIMABLE LAMP HEADS. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE INFORMATION.

CEILING MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

WALL MOUNTED EXIT SIGN, SHADED AREA INDICATES ORIENTATON OF FACE. REFER TO FLOOR PLANS FOR QUANTITY OF FACES, DIRECTIONAL CHEVRONS, AND MOUNTING REQUIREMENTS. THE SIGN SHALL BE INSTALLED CENTERED OVER EGRESS OPENING (IF POSSIBLE) AND THE BOTTOM OF THE SIGN SHALL BE APPROX. 6" ABOVE THE TOP OF THE EGRESS OPENING. PER NFPA 110, MEANS OF EGRESS, BOTTOM OF THE SIGN SHALL BE INSTALLED A MAXIMUM VERTICAL DISTANCE OF 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGN. REFER TO LIGHTING FIXTURE SCHEDULE FOR MORE DETAILS.

ABBREVIATIONS

AC	SUBSCRIPT "AC" INDICATES DEVICE MOUNTED AT 8" ABOVE COUNTER TO CENTERLINE OF DEVICE
ACH	ABOVE COUNTER, HORIZONTALLY MOUNTED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMEPERES INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM SPECIFIED BY OTHERS
BB	SUBSCRIPT "BB" INDICATES DEVICE MOUNTED IN EXISTING BACKBOX MAINTAINED DURING RENOVATION.
BC	SUBSCRIPT "BC" INDICATES DEVICE MOUNTED BELOW COUNTER AS DIRECTED
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BKR	(CIRCUIT) BREAKER
BMEU	BUSINESS MAIL ENTRY UNIT
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
DC	SUBSCRIPT "DC" INDICATES DROP-CORD-SUSPENDED DEVICE. REFER TO DROP CORD RECEPTACLE DETAIL ON SHEET E-501 FOR MORE INFORMATION.
DE	DUAL ELEMENT (FUSES)
DED	DEDICATED CIRCUIT
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EMB	EMERGENCY VIA BATTERY
EMT	ELECTRICAL METALLIC TUBING
EMV	EMERGENCY VIA INVERTER
EPO	EMERGENCY POWER OFF
ETR	EXISTING DEVICE TO REMAIN
EWC	ELECTRICAL WATER COOLER
EXT	EXTERIOR
FAACP	FIRE ALARM AUXILIARY CONTROL PANEL
FAAP	FIRE ALARM ANNUNICATIOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
GRC	GALVANIZED RIGID CONDUIT
HPF	HIGH POWER FACTOR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
LOG	LOOKOUT GALLERY
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MDF	MAIN DISTRIBUTION FRAME
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTIVE DEVICE
NEC	NATIONAL ELECTRICAL CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OFE	OWNER FURNISHED EQUIPMENT
OSL	OPERATIONAL SYSTEMS LAYOUT
P	POLE(S)
PC	PLUMBING CONTRACTOR
PRT	PRINTER
RF	RETURN FAN
RL	SUBSCRIPT "RL" INDICATES RELOCATED DEVICE
SF	SUPPLY FAN
SM	SUBSCRIPT "SM" INDICATES SURFACE MOUNTED DEVICE
SPD	SURGE PROTECTION DEVICE
SR	SUBSCRIPT "SR" INDICATES DEVICE MOUNTED WITHIN SURFACE RACEWAY
T-STAT	THERMOSTAT
TCC	TEMPERATURE CONTROL CONTRACTOR
UC	UNDERCOUNTER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VMF	VEHICLE MAINTENANCE FACILITY
W	WIRE(S)
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL GENERAL NOTES

GENERAL CONSTRUCTION NOTES

1. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, OR SHAFTS SHALL BE SEALED IN ACCORDANCE WITH SPECIFICATIONS.
2. ROUTING OF ALL SURFACE MOUNTED/EXPOSED CONDUIT IN UNFINISHED AREAS (OR WHERE NOTED ON THE DRAWINGS) SHALL BE COORDINATED WITH, AND SHALL BE APPROVED BY, THE ARCHITECT PRIOR TO INSTALLATION. ALL EXPOSED CONDUIT SHALL BE RIGID IN TYPE EMT OR GRC .
3. FIELD VERIFY EXACT LOCATION OF EQUIPMENT WITH ASSOCIATED EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT'S NAMEPLATE DATA. EC SHALL MAKE APPROPRIATE ADJUSTMENTS TO ASSOCIATED BREAKERS/DISCONNECT SWITCHES, BRANCH CIRCUIT WIRING, AND SIZE FUSES PER MANUFACTURER'S RECOMMENDATIONS.
4. THE PHRASE "PROVIDED BY" USED WITHIN THESE DOCUMENTS SHALL EXPLICITY REPRESENT "FURNISHED AND INSTALLED BY".
5. ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD PROVIDED BY THE EC.
6. PROVIDE VIBRATION ISOLATORS BENEATH EACH TRANSFORMER TO ELIMINATE NOISE OR THE TRANSFERANCE OF VIBRATION TO ADJACENT ITEMS/AREAS.
7. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
8. CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. EC SHALL PROVIDE A TYPED PANELBOARD SCHEDULE AND INSTALL IT ON INSIDE COVER OF EACH PANEL.
9. ANY DEVICES THAT ARE TO BE INSTALLED BACK-TO-BACK IN A COMMON WALL SHALL BE SEPARATED BY 6" MINIMUM TO MINIMIZE SOUND TRANSFER.
10. DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS, HEADROOM, ETC. THAT IS TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY .
11. COORDINATE ALL LOCATIONS OF RECEPTACLES, AND OTHER DEVICE BACKBOXES WITH CASEWORK AND FURNITURE LAYOUTS. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND FIELD VERIFY EXACT LOCATIONS AND CONDUIT ROUTING METHODS WITH ARCHITECT PRIOR TO ROUGH-IN.
12. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. EC SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).
13. EC SHALL PROVIDE 3/4" MINIMUM EMPTY CONDUIT WITH PULLWIRE FOR CONTROL WIRING BETWEEN HVAC EQUIPMENT AND REMOTE LOCATED CONTROL PANELS. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
14. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A SEPARATE NEUTRAL CONDUCTOR. NEUTRALS SHALL NOT BE SHARED PER 2017 NEC 200.4(B)
15. ALL AREAS THAT HAVE TOGGLE-TYPE LIGHT SWITCHES AND RECEPTACLES MOUNTED BESIDE DOOR OPENINGS AT 46" TO CENTERLINE MAY BE FURNISHED WITH A COMMON BACKBOX WITH BARRIERS BETWEEN THE DEVICES AND A COMMON FACEPLATE PER NEC 404.8(B).
16. EC SHALL COORDINATE WITH THE FOLLOWING PRIOR TO ROUGH-IN: MECHANICAL/PLUMBING CONTRACTOR AND MECHANICAL/PLUMBING DRAWINGS. EC SHALL PROVIDE ALL EQUIPMENT, DEVICES, WIRING AND CONDUITS AS SHOWN OR IMPLIED ON THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
17. EC SHALL CONNECT CORD AND PLUG COMPONENTS SHIPPED LOOSE WITH ANY EQUIPMENT FURNISHED BY OTHER TRADES PER MANFACTURER'S INSTALLATION INSTRUCTIONS.
18. REFER TO MECHANICAL 700 SERIES DRAWINGS FOR ELECTRICAL SCOPE REQUIRED TO COMPLETE BUILDING AUTOMATION SYSTEM. INCLUDE BAS INTERFACE WITH ELECTRICAL EQUIPMENT AS INDICATED.

GENERAL DEMOLITION NOTES

1. ALL DEVICES REMOVED DURING DEMOLITION SHALL HAVE ALL ASSOCIATED CONDUIT, WIRING, AND CONTROLS REMOVED BACK TO SOURCE OR NEXT DEVICE THAT REMAINS. FIELD VERIFY EXACT WIRING.
2. REFEED ANY ELECTRICAL DEVICE OR ITEM THAT IS EXISTING TO REMAIN WHOSE WIRING IS INTERRUPTED DUE TO RENOVATION IN ADJACENT AREA.
3. ANY ELECTRICAL DEVICE THAT IS TO REMAIN THAT IS LOCATED ON OR IN A WALL OR CEILING BEING REMOVED SHALL BE RELOCATED AS DIRECTED BY GC IN FIELD AND RECONNECTED AS REQUIRED.
4. NOTIFY THE OWNER AND THE FIRE ALARM MONITORING COMPANY AT LEAST 72 HOURS PRIOR TO COMMENCING ANY WORK ON THE EXISTING FIRE ALARM SYSTEM.
5. DISPOSE OF ANY EXISTING LAMPS WITH MERCURY CONTENT OR OTHER TOXIC CHEMICALS PROPERLY AND PROVIDE CERTIFICATION OF DISPOSAL TO OWNER FOR THEIR RECORDS.
6 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
7. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.

GENERAL RENOVATION NOTES

1. THE EC SHALL VISIT AND EXAMINE CAREFULLY THE AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. NO ADDITIONAL PAYMENTS WILL BE APPROVED REGARDING ADDITIONAL WORK REQUIRED BECAUSE OF EXISTING CONDITIONS. SUBMITTAL OF A BID WILL ACKNOWLEDGE THE ACCEPTANCE OF THIS RESPONSIBILITY.
2. WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE EC SHALL CORE DRILL OR CUT AND CHASE WALLS AND FLOORS AS REQUIRED TO PERMIT PASSAGE OF CONDUITS AND RACEWAYS. AT COMPLETION OF INSTALLATIONS, EC SHALL FILL IN AND WATERPROOF OR FIREPROOF TO RATING OF STRUCTURE PENETRATED. FILL ALL OPENINGS WITH MATERIALS AS DIRECTED BY THE ARCHITECT AND FINISH TO MATCH SURROUNDING AREAS. ALL OPENINGS REQUIRED SHALL BE APPROVED BY THE ARCHITECT PRIOR TO DEMOLITION OR CORE DRILLING.
3. PROVIDE AN UPDATED, TYPED PANELBOARD SCHEDULE AND INSTALL IT ON THE INSIDE COVER OF EACH EXISTING PANEL WHOSE INFORMATION HAS CHANGED DUE TO DEMOLITION OR NEW WORK ASSOCIATED WITH PANEL.
4. AFTER DEMOLITION IS COMPLETE, ANY RECESSED ABANDONED BACKBOX MAY BE REUSED FOR NEW DEVICE INSTALLATION AS APPLICATION PERMITS. PROVIDE A NEW COVERPLATE THAT MATCHES THE SIZE OF THE BACKBOX AND THE CONFIGURATION OF THE DEVICE(S) INSTALLED THEREIN. EXISTING DEVICES, WIRING, OR COVERPLATES WILL NOT BE PERMITTED TO BE REUSED.
5. AFTER DEMOLITION IS COMPLETE, PROVIDE A NEW BLANK COVERPLATE OVER ALL UNUSED BACKBOXES ABANDONED IN PLACE.

LIGHTING FIXTURE SCHEDULE

ENGINEER'S PHOTOMETRICS UTILIZED THE MANUFACTURER ACUITY AS THE BASIS OF DESIGN. A FULL LIST OF ACCEPTABLE MANUFACTURERS IS LISTED IN THE SPECIFICATIONS. MANUFACTURER-PROVIDED PHOTOMETRICS AND CUT SHEETS ARE REQUIRED AS A SUBMITTAL.

FIXTURE TAG	LAMP	LUMENS	COLOR TEMP.	DESCRIPTION	VOLTAGE	WATTS	MANUFACTURER	CATALOG NUMBER	FIXTURE COLOR	MOUNTING	REMARKS
A1	LED	5000	4000K	2X4 SWITCHABLE FLAT PANEL	MVOLT	38 VA	LITHONIA	CPX-2X4-USPS	WHITE	RECESSED	COORDINATE MOUNTING HARDWARE WITH EXISTING CEILING TYPE
A5	LED	5000	4000K	10'X4' SWITCHABLE WRAP AROUND FIXTURE	MVOLT	49 VA	LITHONIA	FML4W-USPS	WHITE	SURFACE-MOUNTED	
A6	LED	4800	4000K	5'X4' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	MVOLT	35 VA	LITHONIA	BLWP4-USPS	WHITE	SURFACE-MOUNTED	
A7	LED	4800	4000K	5'X2' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	MVOLT	44 VA	LITHONIA	BLWP2-USPS	WHITE	SURFACE-MOUNTED	
CL1	LED	3000[4000]5000	4000K	4' SWITCHABLE STRIP LIGHT FIXTURE	MVOLT	0 VA	LITHONIA	CSS-L48-USPS	WHITE	SURFACE-MOUNTED	
EM2	LED	220 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	MVOLT	5 VA	LITHONIA	ELM2L-USPS	WHITE	WALL-MOUNTED AT 7'-6"	
EM3	LED	640 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	MVOLT	5 VA	LITHONIA	ELM6L-USPS	WHITE	WALL-MOUNTED AT 7'-6"	
EM4	LED	635	-	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	MVOLT	5 VA	LITHONIA	AFF-USPS	DARK BRONZE TEXTURED	WALL-MOUNTED AT 7'-6"	
PL2	LED		4000K	SWITCHABLE EXTERIOR WALLPACK, GLASS LENS, [INTEGRAL PHOTOCELL]	MVOLT	78 VA	LITHONIA	TWH-LED-ALO-40K-[PE]-DDBTXD	DARK BRONZE TEXTURED	WALL	FIELD VERIFY THAT PHOTOCELL IS REQUIRED
W4	LED	4000	4000K	4' SWITCHABLE VAPOR-TIGHT FIXTURE	MVOLT	35 VA	LITHONIA	CSVT-L48-USPS	WHITE	SURFACE-MOUNTED	
W6	LED	24000	4000K	COMPACT HIGHBAY FIXTURE WITH WIDE DISTRIBUTION	MVOLT	172 VA	LITHONIA	CPHB-24LM-USPS	WHITE	SUSPENDED AT 15'-6"	
X1	LED	-	-	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	MVOLT	2 VA	LITHONIA	LQM-USPS	WHITE	SEE SYMBOL LEGEND	

LIGHTING CONTROL NOTES

LIGHTING CONTROL WALL SWITCH GENERAL NOTES:

A. PROVIDE FACEPLATE TO MATCH MANUFACTURER'S SWITCH COLOR, CONFIGURATION, AND STYLE.

B. EC SHALL REVIEW LABELS INDICATED AND CONTROLS TO BE PROGRAMMED WITH GC PRIOR TO ORDERING SWITCHES OR ASSOCIATED FACEPLATES.

C. CONTRACTOR SHALL CONFIRM WITH MANUFACTURER OF CONTROLS ALL BACKBOX SIZES REQUIRED TO ACCEPT GANGED CONTROLS PRIOR TO COMMENCING ROUGH-IN.

D. BACKBOXES AND ASSOCIATED CONDUIT FOR THE CONTROLS SHALL BE RECESSED WITHIN WALL.

E. REFER TO PRODUCT DATA SHEETS FOR DETAILED WIRING INFORMATION.

F. DEVICE CONTROL FUNCTIONS SHALL BE CLEARLY LABELED. ONLY EMBOSSED, ENGRAVED, AND FACTORY-PRINTED/ETCHED LABELS ARE ACCEPTABLE. STICK-ON LABELS ARE NOT ACCEPTABLE.

LIGHTING CONTROL OCCUPANCY/VACANCY SENSOR GENERAL NOTES:

A. EC SHALL MEET WITH THE LIGHTING CONTROL AND SENSOR MANUFACTURER REPRESENTATIVE(S) FOR A PRE-CONSTRUCTION MEETING TO CONFIRM PROPER INSTALLATION PROCEDURES AND LOCATIONS FOR THE APPROPRIATE OPERATION OF ALL SYSTEM COMPONENTS.

B. LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON FLOOR PLANS ARE APPROXIMATE. EXACT LOCATIONS AND QUANTITIES SHALL BE AS RECOMMENDED BY MANUFACTURER AND SHALL BE COORDINATED WITH OTHER CEILING ELEMENTS SUCH AS DIFFUSERS, LIGHT FIXTURES, PROJECTORS, ETC. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

C. SENSORS SHALL BE PLACED AND PROGRAMMED SUCH THAT THERE IS NO DETECTION OUTSIDE OF THE AREA BEING CONTROLLED TO PREVENT FALSE ACTIVATIONS.

D. SENSORS SHALL NOT BE PLACED WHERE THEY CAN BE COVERED BY ARTWORK, SHELVES, OR OTHER FURNITURE.

E. EC SHALL VERIFY THAT THE SENSOR BILL OF MATERIALS COMPLIES WITH THE SENSOR DESIGN AND LAYOUT SPECIFICATIONS.

F. UNLESS OTHERWISE NOTED IN THE LIGHTING CONTROL MATRIX, ANY ROOM SHOWN WITH MULTIPLE SENSORS SHALL HAVE THE SENSORS INTERWIRED AS REQUIRED SUCH THAT IF ANY OF THE SENSORS DETECT MOTION, THEN ALL OF THE ASSOCIATED LIGHTING SHALL BE ENERGIZED.

LIGHTING CONTROL ADDITIONAL NOTES:

A. ADJUSTMENTS: PROVIDE ADJUSTMENTS TO THE INITIAL LIGHTING CONTROL SETTINGS AS REQUIRED BY THE OWNER FOR A PERIOR OF 12 MONTHS FOLLOWING INITIAL PROGRAMMING OF THE LIGHTING CONTROLS.

B. SHOP DRAWINGS: SUBMIT DIMENSIONED DRAWINGS OF LIGHTING CONTROL SYSTEM AND ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, RELAY PANELS, SWITCHES, SENSORS, POWER PACKS, PHOTOCELLS, AND OTHER INTERFACES. DRAWINGS SHALL INDICATE EXACT LOCATION AND PROGRAMMING OF EACH DEVICE, TIME SCHEDULES, AND SWITCH BUTTON LABELING.

PANELBOARD LOADING NOTE

1. CONTRACTOR IS RESPONSIBLE FOR LOADING ON ALL PANELS AND FEEDERS PER THE N.E.C. CONTRACTOR SHALL KEEP CIRCUIT CONTINUITY TO DEVICES TO REMAIN. E.C. SHALL VERIFY THAT ALL LOADS PLACED ON EXISTING PANELS AND FEEDERS DO NOT EXCEED THE MAXIMUM LOADING REQUIREMENT PER THE LATEST EDITION OF THE NEC. NOTIFY A/E IF OVERLOAD IS POSSIBLE.

ELECTRICAL SYMBOLS

DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT, GROUNDING TYPE -MOUNTED AT 18" AFF TO CENTERLINE OF DEVICE U.O.N.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R. MOUNTED 8" ABOVE TOP OF COUNTER TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTER TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DUPLEX RECEPTACLE - 20 AMPERE, 125 VOLT, GROUNDING TYPE - MOUNTED 8" ABOVE TOP OF COUNTER TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

DOUBLE DUPLEX RECEPTACLE (QUAD) - 20 AMPERE, 125 VOLT, GROUNDING TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #GF20W OR EQUAL.

SINGLE GANG RECEPTACLE - 20 AMPERE, 125 VOLT, GROUND TYPE NEMA 5-20R MOUNTED AT 18" A.F.F. TO CENTERLINE OF DEVICE U.O.N. DEVICE SHALL BE HUBBELL #5361GWWR OR EQUAL.

ELECTRICAL SYMBOLS

LIGHTING CONTROL PANEL.

480/277 VOLT, 3 PHASE, 4 WIRE PANELBOARD

208/120 VOLT, 3 PHASE, 4 WIRE PANELBOARD

DATA DEVICE LOCATION. EC SHALL PROVIDE A SURFACE-MOUNTED 2-GANG BACKBOX WITH SINGLE-GANG RAISED COVERPLATE MOUNTED AT 18" ABOVE FINISHED FLOOR TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED AND 1-1/2" EMPTY CONDUIT WITH PULLSTRING ROUTED FROM BACKBOX AND STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE PLASTIC GROMMET ON CONDUIT ENDS. NUMBER ADJACENT TO DEVICE INDICATES NUMBER OF DATA PORTS. ROUTE (1) CAT6 CABLE PER PORT TO NEAREST IDF PER OSL.

FIRE ALARM SYMBOLS

FIRE ALARM CONTROL PANEL

FIRE ALARM HORN/STROBE (WALL MOUNTED) 80" AFF TO CENTERLINE OF DEVICE

FIRE ALARM STROBE (WALL MOUNTED) 80" AFF TO CENTERLINE OF DEVICE

ADDRESSABLE PULL STATION

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JOB NO. 2022359.19

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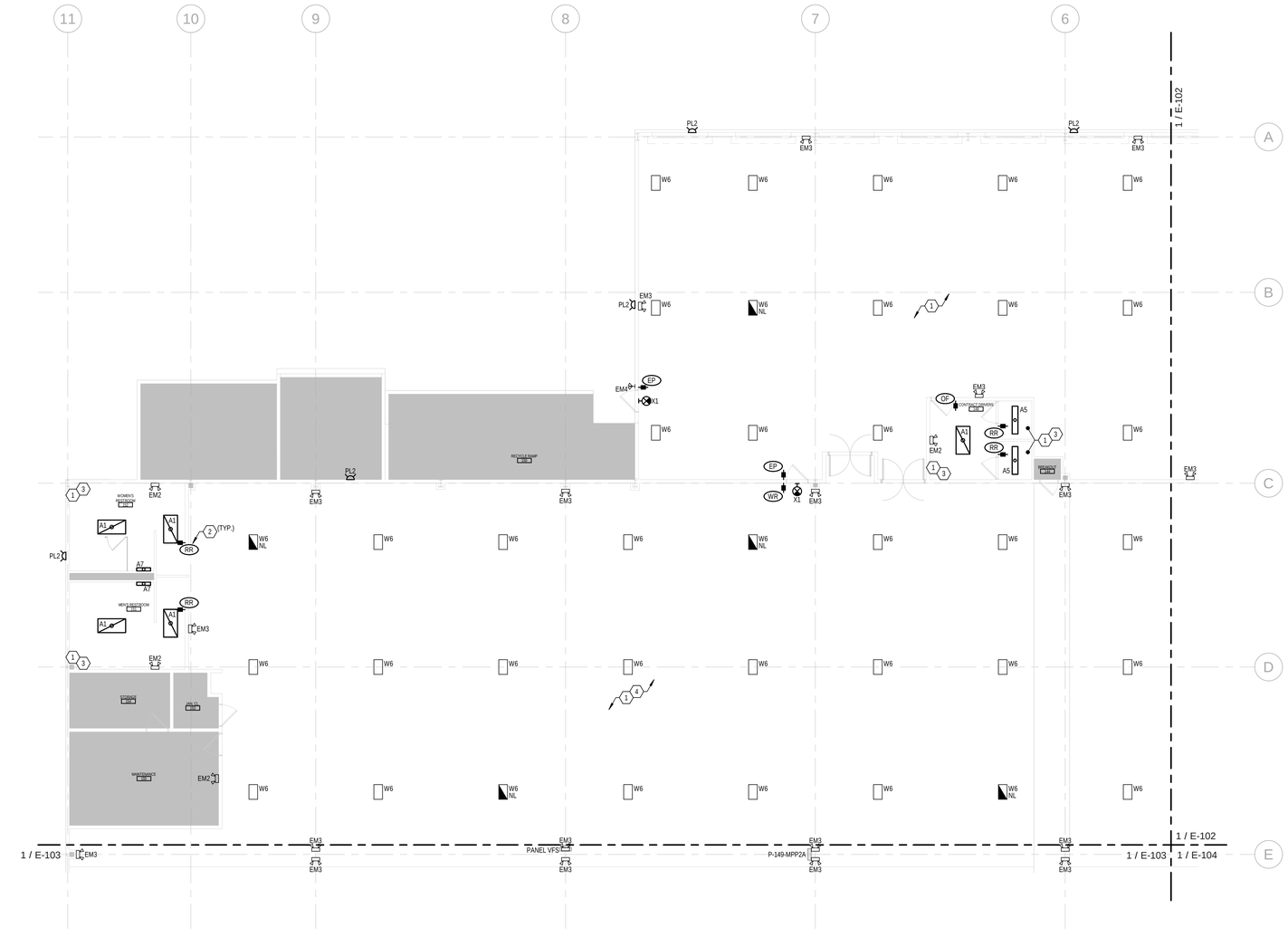
ELECTRICAL LEGEND

E-001

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

Date: 06.06.2023
Revisions: 100% OWNER REVIEW



1 ELECTRICAL LIGHTING PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO E-001 FOR ELECTRICAL SYMBOL LEGEND AND LIGHTING FIXTURE SCHEDULE.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. SHADING INDICATES AREA WITH NO NEW LIGHTING FIXTURES OR LIGHTING CONTROLS.
D. IN SHADED AND UNSHADED AREAS, SPLICE AND EXTEND EXISTING EMERGNECY LIGHTING CIRCUIT CONDUIT AND WIRING TO NEW EMERGENCY LIGHT FIXTURES REPLACING EXISTING EMERGENCY LIGHT FIXTURES. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED. NEW WIRING AND CONDUIT SHALL MATCH EXISTING TYPE AND RATING.
E. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CEILING TYPE WITHIN EACH ROOM/AREA AND PROVIDING LIGHT FIXTURES AND MOUNTING HARDWARE APPROPRIATE FOR THE CEILING TYPE. PRIOR TO ORDERING FIXTURES CONTRACTOR SHALL COORDINATE MOUNTING HARDWARE WITH EXISTING CONDITIONS AND WITH LIGHT FIXTURE SUPPLIER.
F. NEW EXIT SIGNS AND EMERGENCY EGRESS FIXTURES SHALL BE CONNECTED TO EXISTING LOCAL LIGHTING BRANCH CIRCUITS AHEAD OF ANY SWITCHING.

PLAN KEYNOTES

1 SPLICE AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT CONDUIT AND WIRING TO NEW FIXTURES REPLACING EXISTING LIGHT FIXTURES. PROVIDE NEW CONDUIT AND WIRING AS REQUIRED. NEW CONDUIT AND WIRING SHALL MATCH EXISTING IN TYPE AND RATING. REMOVE EXISTING CONTROLS AND RE-WORK CONTROLS PER INTERIOR LIGHTING CONTROL SCHEMES SCHEDULE.
2 INTERIOR LIGHTING CONTROL TAG. SEE INTERIOR LIGHTING CONTROL SCHEMES SCHEDULE ON THIS SHEET FOR LIGHTING CONTROLS TO BE PROVIDED WITHIN ROOM/AREA.
3 ONE-FOR-ONE REPLACEMENT OF EXISTING LIGHT FIXTURES WITHIN THIS ROOM/AREA. VERIFY FIXTURE TYPES AND QUANTITIES WITH EXISTING CONDITIONS.
4 PROVIDE NEW EMERGENCY EXIT SIGNAGE THAT IS CLEARLY VISIBLE THROUGHOUT THE WORK AREA ALONG THE REQUIRED EGRESS PATH. COORDINATE LOCATIONS IN THE FIELD WITH USPS EQUIPMENT, RACKS AND CONVEYOR LOCATIONS. FOR BIDDING PURPOSES, MATCH QUANTITIES OF EXISTING EXIT SIGNS CURRENTLY INSTALLED WITHIN THE SPACE.

LIGHTING SCOPE OF WORK

A. WITHIN AREA OF WORK, EXISTING LIGHTING TO BE REMOVED AND REPLACED WITH NEW AS SHOWN. COORDINATE WITH EXISTING CONDITIONS. REUSE AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT AS REQUIRED AND PROVIDE NEW LIGHTING CONTROLS AS SHOWN.
B. ALL EXISTING EMERGENCY LIGHTING THROUGHOUT THE ENTIRE BUILDING SHALL BE REMOVED AND REPLACED WITH NEW AS SHOWN. REUSE AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT AS REQUIRED.
C. ALL EXTERIOR WALL PACKS AND CANOPY FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW AS SHOWN. REUSE AND EXTEND EXISTING LIGHTING BRANCH CIRCUIT AS REQUIRED AND PROVIDE NEW CONTROLS IF SHOWN.

INTERIOR LIGHTING CONTROL SCHEMES

TAG	DESCRIPTION
CH	Corridors / Halls •Manual override switch at entrances. •Occupancy sensor (nLight NCMPDT10 / nPP16D) for automatic on / off
EL	Employee Lunchroom •Manual on switch •Dimmer control (nLight nPODMADX) •Occupancy sensor (nLight NCMPDT10 / nPP16D) for automatic off
EP	Enclosed Platform •Networked PIR high-bay occupancy sensors (nLight: MCM6RJB) mounted 30ft on center. Fixtures mounted at same height as fixtures, 15'AFF. •Lighting control panel for programming lighting levels (nLight: ARP) with 32-relays, Eclipse controller, and network bridge. Located in adjacent office (TBD). •Lights to be programmed to provide 50FC average when occupied. •Upon 10 minutes of not occupied, the lighting drops to 12.5FC average. •Upon 20 minutes of not occupied, the lighting shuts off. •All lighting in work room are networked together for controls. •Override switches to be provided at two (2) entrances to the area. •Night light fixture indicated on plan with "NL". Provide power pack as required. Night light levels shall be 12.5 fc Enclosed Platform Alternate •Light fixtures with networkable wireless occupancy sensors are acceptable and must meet the above design performance criteria.
MV	Miscellaneous •Manual on switch •Dimmer control (nLight nPODMADX) •Occupancy sensor (nLight NCMPDT10 / nPP16D) for automatic off
OF	Offices •Manual on switch •Dimmer control (nLight nPODMADX) •Occupancy sensor (nLight NCMPDT10 / nPP16D) for automatic off
RR	Toilet Rooms / Areas •Manual on switch •Occupancy sensor (nLight NCMPDT10 / nPP16D) for automatic off
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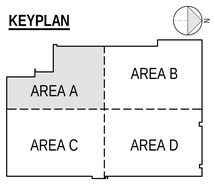
KEYPLAN



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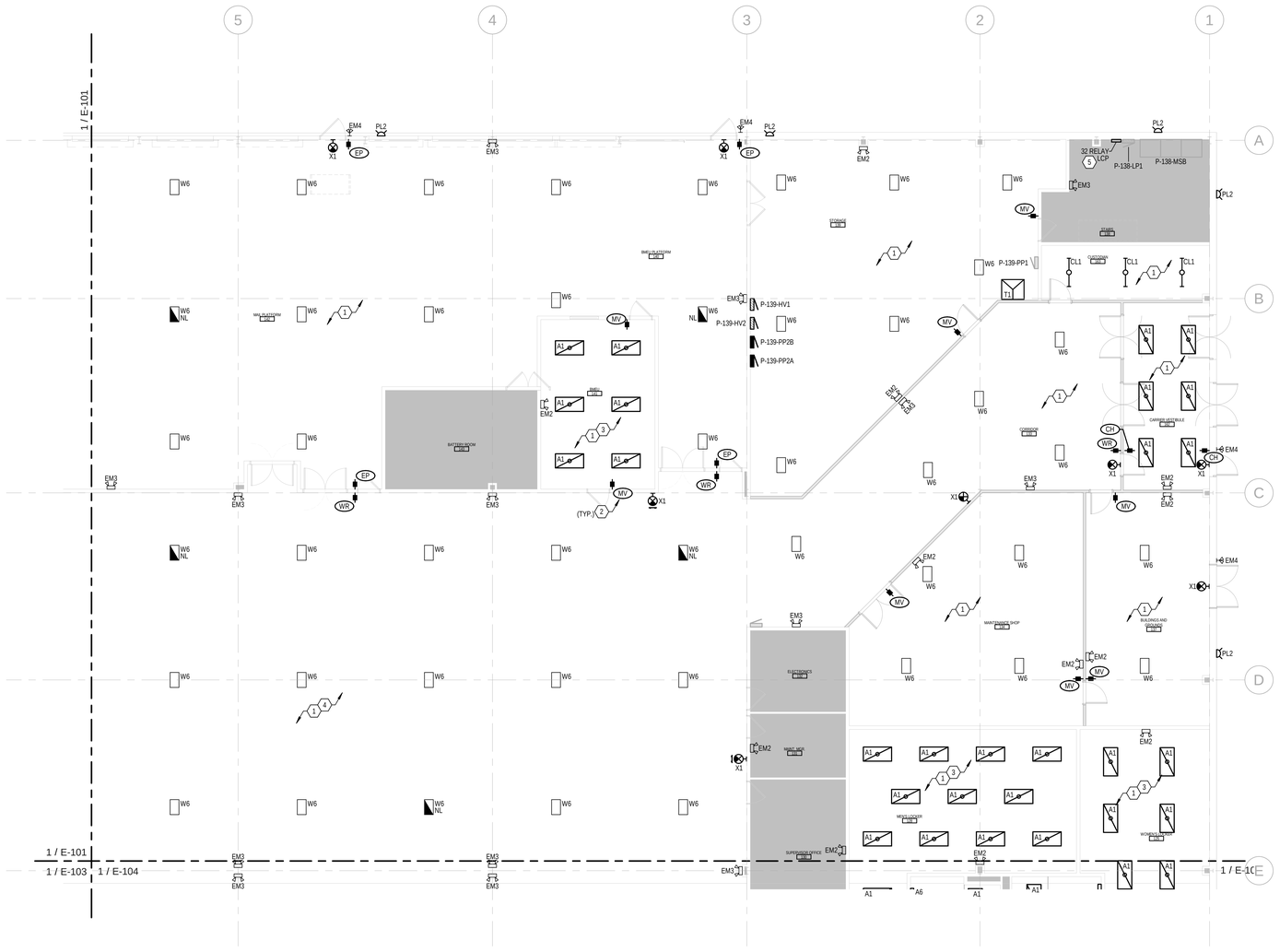
ELECTRICAL - LIGHTING PLAN - AREA A

Revisions: 100% OWNER REVIEW
Date: 09.06.2023

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

E-101



1 ELECTRICAL LIGHTING PLAN - AREA B
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO E-001 FOR ELECTRICAL SYMBOL LEGEND AND LIGHTING FIXTURE SCHEDULE.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. SHADING INDICATES AREA WITH NO NEW LIGHTING FIXTURES OR LIGHTING CONTROLS.
D. IN SHADED AND UNSHADED AREAS, SPLICE AND EXTEND EXISTING EMERGNECY LIGHTING CIRCUIT CONDUIT AND WIRING TO NEW EMERGENCY LIGHT FIXTURES REPLACING EXISTING EMERGENCY LIGHT FIXTURES. PROVIDE NEW WIRING AND CONDUIT AS REQUIRED. NEW WIRING AND CONDUIT SHALL MATCH EXISTING TYPE AND RATING.
E. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CEILING TYPE WITHIN EACH ROOM/AREA AND PROVIDING LIGHT FIXTURES AND MOUNTING HARDWARE APPROPRIATE FOR THE CEILING TYPE. PRIOR TO ORDERING FIXTURES CONTRACTOR SHALL COORDINATE MOUNTING HARDWARE WITH EXISTING CONDITIONS AND WITH LIGHT FIXTURE SUPPLIER.
F. NEW EXIT SIGNS AND EMERGENCY EGRESS FIXTURES SHALL BE CONNECTED TO EXISTING LOCAL LIGHTING BRANCH CIRCUITS AHEAD OF ANY SWITCHING.

PLAN KEYNOTES

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5 NEW LIGHTING CONTROL PANEL REPLACING EXISTING LIGHTING CONTROL PANEL REMOVED DURING DEMOLITION. REUSE EXISTING CIRCUIT. RECONNECT EXISTING LIGHTING BRANCH CIRCUITS PREVIOUSLY SERVED BY DEMOLISHED LIGHTING CONTROL PANEL. COORDINATE WITH EXISTING CONDITIONS.

LIGHTING SCOPE OF WORK

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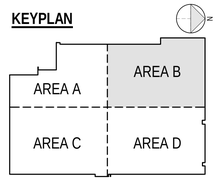

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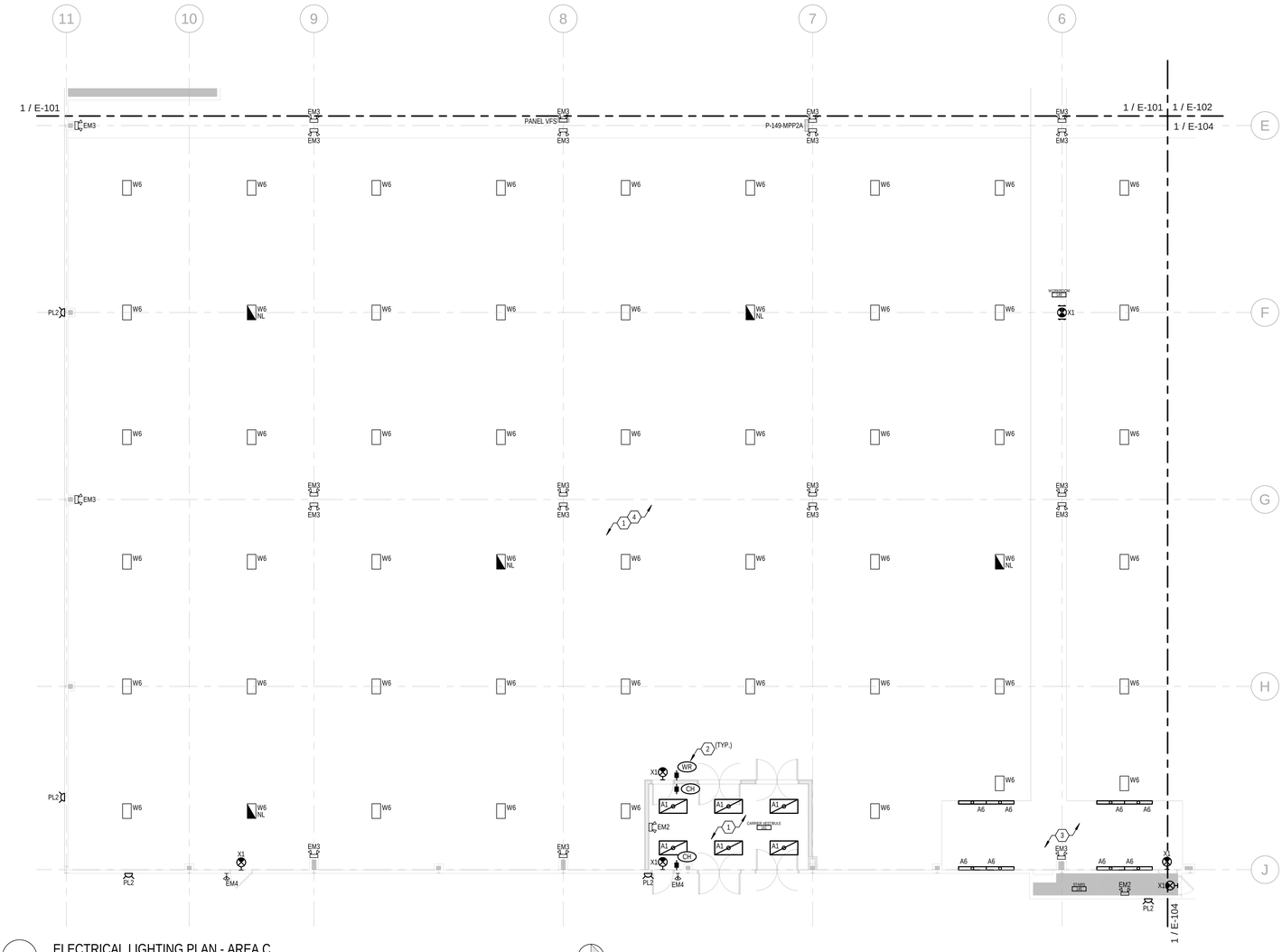
ELECTRICAL - LIGHTING PLAN - AREA B

Revisions: 100% OWNER REVIEW
Date: 09.06.2023

E-102

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03



1 ELECTRICAL LIGHTING PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

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B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
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LIGHTING SCOPE OF WORK

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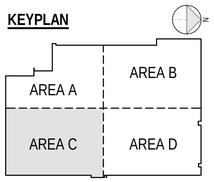

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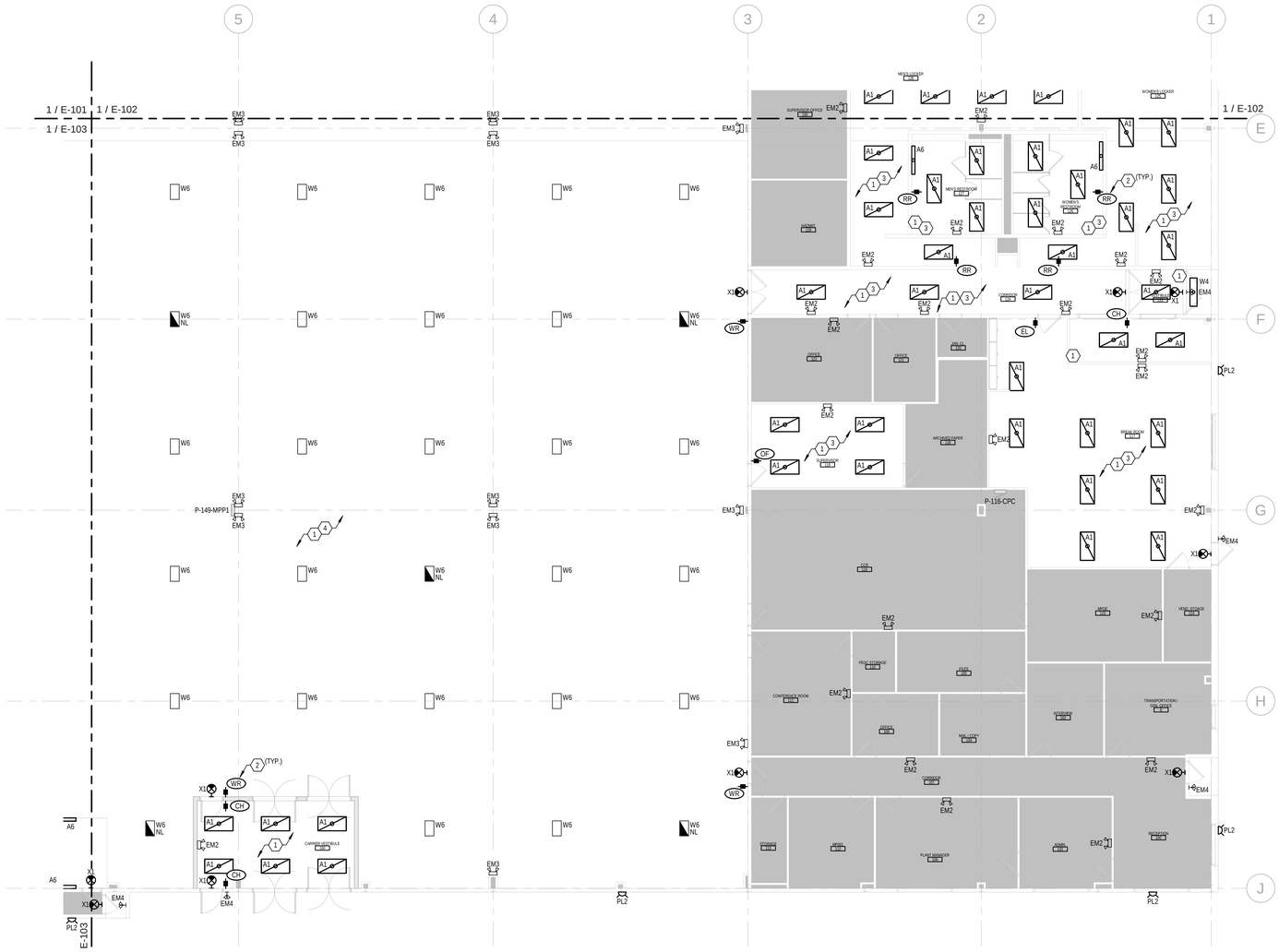
ELECTRICAL - LIGHTING PLAN - AREA C

Revisions: 100% OWNER REVIEW
Date: 09.06.2023

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-003

E-103



1 ELECTRICAL LIGHTING PLAN - AREA D
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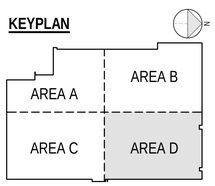

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ELECTRICAL - LIGHTING PLAN - AREA D

Revisions: 100% OWNER REVIEW
Date: 06.06.2023

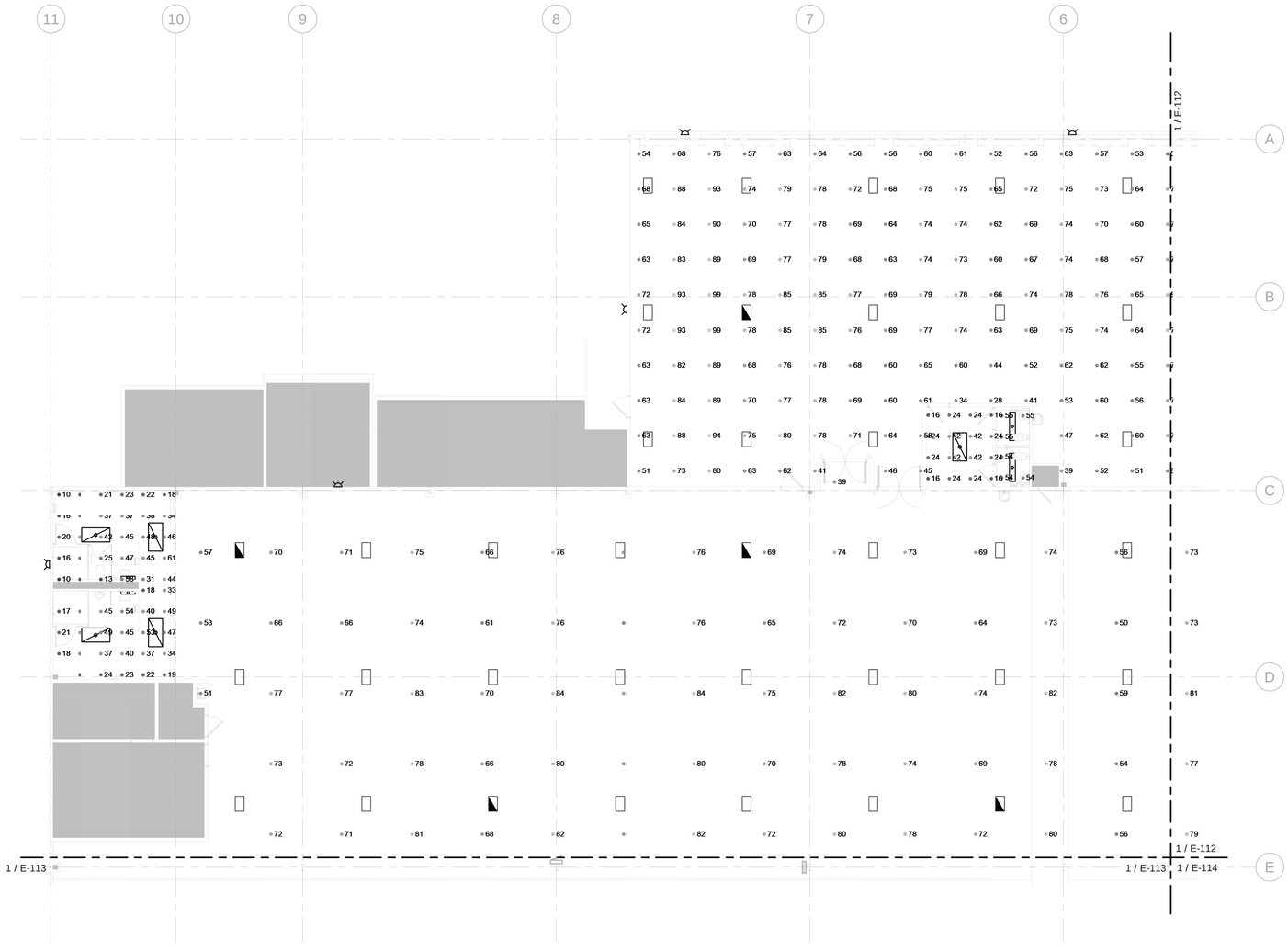
E-104

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

LIGHTING FIXTURE SCHEDULE

ENGINEER'S PHOTOMETRICS UTILIZED THE MANUFACTURER ACUITY AS THE BASIS OF DESIGN AND A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH ACUITY TO EXPEDITE LIGHT FIXTURE AVAILABILITY (770-355-0938). A FULL LIST OF ACCEPTABLE MANUFACTURERS IS LISTED IN THE SPECIFICATIONS. MANUFACTURER-PROVIDED PHOTOMETRICS AND CUT SHEETS ARE REQUIRED AS A SUBMITTAL.

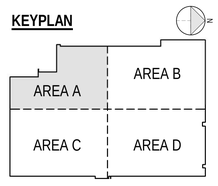
FIXTURE TAG	LAMP	LUMENS	COLOR TEMP.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	PHOTOMETRIC FILE NAME
A1	LED	5000	4000K	2'X4 SWITCHABLE FLAT PANEL	LITHONIA	CPX-2X4-USPS	CPX 2X4 ALO8 SWW7 4000K Med Lumen.ies
A5	LED	5000	4000K	10"X4' SWITCHABLE WRAP AROUND FIXTURE	LITHONIA	FML4W-USPS	FML4W 48 ALO6 SEF 840 MVOLT.ies
A6	LED	4800	4000K	5'X4' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP4-USPS	BLWP4 48L ADP LP840.ies
A7	LED	4800	4000K	5'X2' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP2-USPS	BLWP4 48L ADP LP840.ies
CL1	LED	3000/(4000)/5000	4000K	4' SWITCHABLE STRIP LIGHT FIXTURE	LITHONIA	CSS-L48-USPS	CSS L48 ALO3 MVOLT SWW3 80CRI (4000LM 4000K).ies
EM2	LED	220 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	LITHONIA	ELM2L-USPS	
EM3	LED	640 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	LITHONIA	ELM6L-USPS	
EM4	LED	635	-	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	LITHONIA	AFF-USPS	
PL2	LED		4000K	SWITCHABLE EXTERIOR WALLPACK, GLASS LENS, [INTEGRAL PHOTOCELL]	LITHONIA	TWH-LED-ALO-40K-[PE]-ODBTXD	TWH LED ALO 40K T3M.ies
W4	LED	4000	4000K	4' SWITCHABLE VAPOR-TIGHT FIXTURE	LITHONIA	CSVT-L48-USPS	CSVT L48 ALO3 347 SWW3 80CRI (4000LM 4000K).ies
W6	LED	24000	4000K	COMPACT HIGHBAY FIXTURE WITH WIDE DISTRIBUTION	LITHONIA	CPHB-24LM-USPS	CPHB 24000LM SEF GCL WD 40K 80CRI.ies
X1	LED	-	-	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	LITHONIA	LQM-USPS	



1 ELECTRICAL PHOTOMETRIC PLAN - AREA A
1/8" = 1'-0"

PHOTOMETRIC PLAN SHOWN FOR REFERENCE ONLY

KEYPLAN



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JOB NO. 2022359.19

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ELECTRICAL - PHOTOMETRIC PLAN - AREA A

Revisions: 100% OWNER REVIEW

Date: 09.06.2023

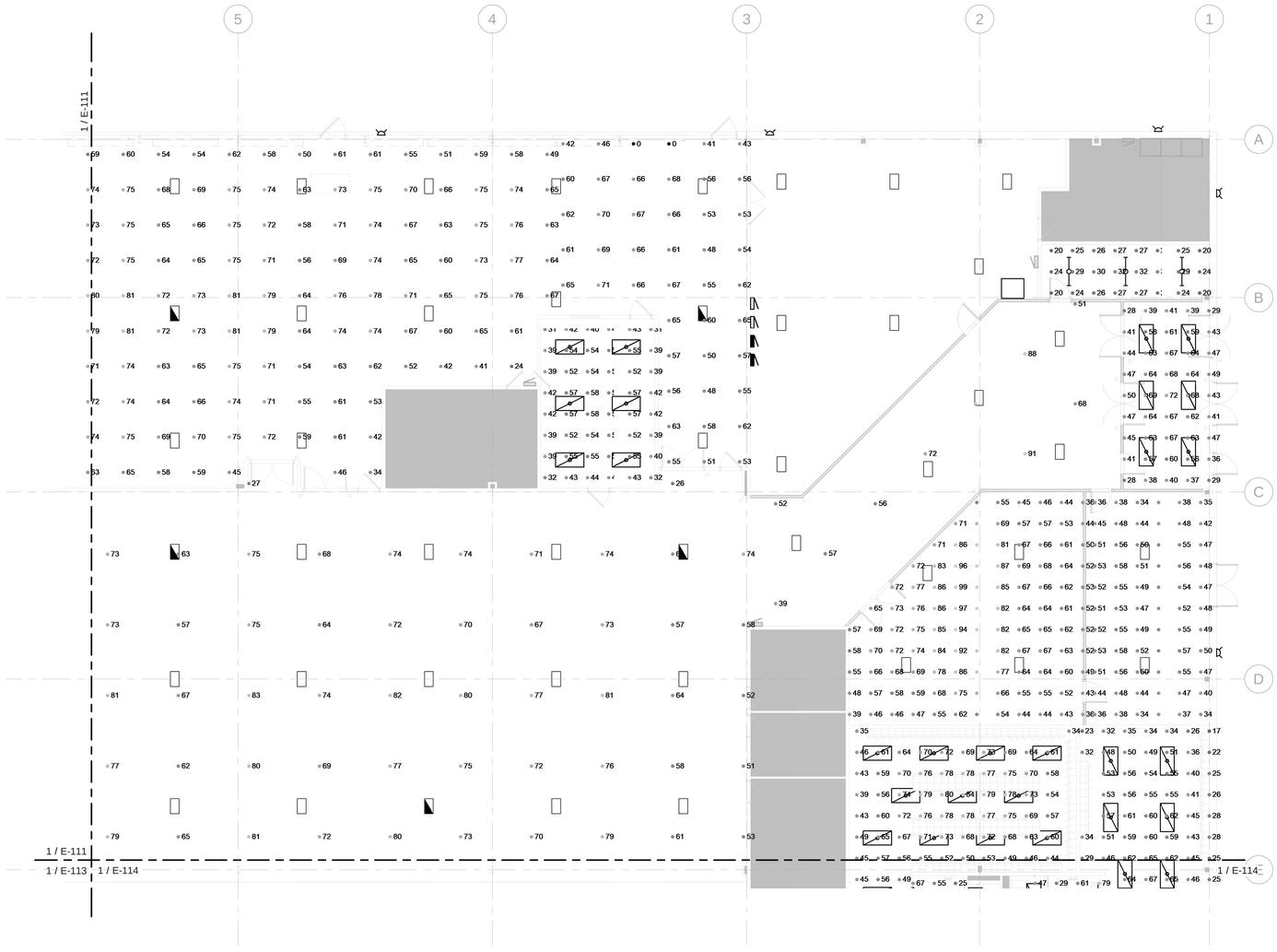
Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

E-111

LIGHTING FIXTURE SCHEDULE

ENGINEER'S PHOTOMETRICS UTILIZED THE MANUFACTURER ACUITY AS THE BASIS OF DESIGN AND A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH ACUITY TO EXPEDITE LIGHT FIXTURE AVAILABILITY (770-355-0938). A FULL LIST OF ACCEPTABLE MANUFACTURERS IS LISTED IN THE SPECIFICATIONS. MANUFACTURER-PROVIDED PHOTOMETRICS AND CUT SHEETS ARE REQUIRED AS A SUBMITTAL.

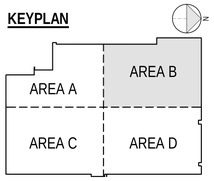
FIXTURE TAG	LAMP	LUMENS	COLOR TEMP.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	PHOTOMETRIC FILE NAME
A1	LED	5000	4000K	2X4 SWITCHABLE FLAT PANEL	LITHONIA	CPX-2X4-USPS	CPX 2X4 ALO8 SWW7 4000K Med Lumen.ies
A5	LED	5000	4000K	10"X4' SWITCHABLE WRAP AROUND FIXTURE	LITHONIA	FML4W-USPS	FML4W 48 ALO6 SEF 840 MVOLT.ies
A6	LED	4800	4000K	5"X4' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP4-USPS	BLWP4 48L ADP LP840.ies
A7	LED	4800	4000K	5"X2' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP2-USPS	BLWP4 48L ADP LP840.ies
CL1	LED	3000/(4000)/5000	4000K	4' SWITCHABLE STRIP LIGHT FIXTURE	LITHONIA	CSS-L48-USPS	CSS L48 ALO3 MVOLT SWW3 80CRI (4000LM 4000K).ies
EM2	LED	220 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	LITHONIA	ELM2L-USPS	
EM3	LED	640 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	LITHONIA	ELM6L-USPS	
EM4	LED	635	-	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	LITHONIA	AFF-USPS	
PL2	LED		4000K	SWITCHABLE EXTERIOR WALLPACK, GLASS LENS, [INTEGRAL PHOTOCELL]	LITHONIA	TWH-LED-ALO-40K-[PE]-ODBTXD	TWH LED ALO 40K T3M.ies
W4	LED	4000	4000K	4' SWITCHABLE VAPOR-TIGHT FIXTURE	LITHONIA	CSVT-L48-USPS	CSVT L48 ALO3 347 SWW3 80CRI (4000LM 4000K).ies
W6	LED	24000	4000K	COMPACT HIGHBAY FIXTURE WITH WIDE DISTRIBUTION	LITHONIA	CPHB-24LM-USPS	CPHB 24000LM SEF GCL WD 40K 80CRI.ies
X1	LED	-	-	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	LITHONIA	LQM-USPS	



1 ELECTRICAL PHOTOMETRIC PLAN - AREA B
1/8" = 1'-0"

PHOTOMETRIC PLAN SHOWN FOR REFERENCE ONLY

KEYPLAN



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ELECTRICAL - PHOTOMETRIC PLAN - AREA B

Date: 09.06.2023
Revisions: 100% OWNER REVIEW

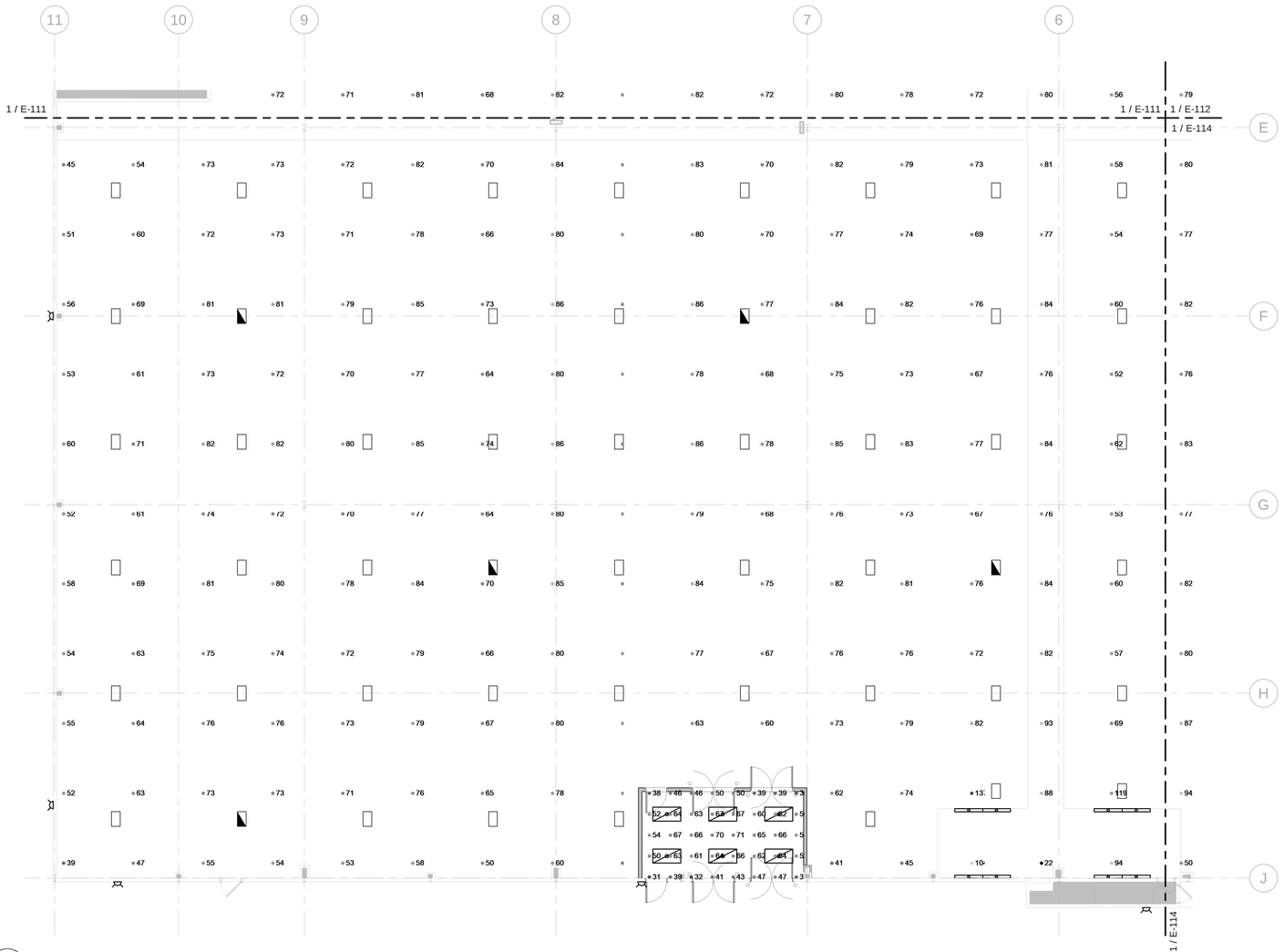
E-112

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

LIGHTING FIXTURE SCHEDULE

ENGINEER'S PHOTOMETRICS UTILIZED THE MANUFACTURER ACUITY AS THE BASIS OF DESIGN AND A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH ACUITY TO EXPEDITE LIGHT FIXTURE AVAILABILITY (770-355-0938). A FULL LIST OF ACCEPTABLE MANUFACTURERS IS LISTED IN THE SPECIFICATIONS. MANUFACTURER-PROVIDED PHOTOMETRICS AND CUT SHEETS ARE REQUIRED AS A SUBMITTAL.

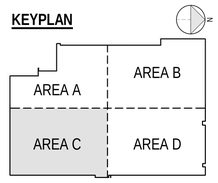
FIXTURE TAG	LAMP	LUMENS	COLOR TEMP.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	PHOTOMETRIC FILE NAME
A1	LED	5000	4000K	2X4 SWITCHABLE FLAT PANEL	LITHONIA	CPX-2X4-USPS	CPX 2X4 ALO8 SWW7 4000K Med Lumen.ies
A5	LED	5000	4000K	10"X4' SWITCHABLE WRAP AROUND FIXTURE	LITHONIA	FML4W-USPS	FML4W 48 ALO6 SEF 840 MVOLT.ies
A6	LED	4800	4000K	5'X4' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP4-USPS	BLWP4 48L ADP LP840.ies
A7	LED	4800	4000K	5'X2' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP2-USPS	BLWP4 48L ADP LP840.ies
CL1	LED	3000/(4000)/5000	4000K	4' SWITCHABLE STRIP LIGHT FIXTURE	LITHONIA	CSS-L48-USPS	CSS L48 ALO3 MVOLT SWW3 80CRI (4000LM 4000K).ies
EM2	LED	220 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	LITHONIA	ELM2L-USPS	
EM3	LED	640 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	LITHONIA	ELM6L-USPS	
EM4	LED	635	-	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	LITHONIA	AFF-USPS	
PL2	LED		4000K	SWITCHABLE EXTERIOR WALLPACK, GLASS LENS, [INTEGRAL PHOTOCELL]	LITHONIA	TWH-LED-ALO-40K-[PE]-ODBTXD	TWH LED ALO 40K T3M.ies
W4	LED	4000	4000K	4' SWITCHABLE VAPOR-TIGHT FIXTURE	LITHONIA	CSVT-L48-USPS	CSVT L48 ALO3 347 SWW3 80CRI (4000LM 4000K).ies
W6	LED	24000	4000K	COMPACT HIGHBAY FIXTURE WITH WIDE DISTRIBUTION	LITHONIA	CPHB-24LM-USPS	CPHB 24000LM SEF GCL WD 40K 80CRI.ies
X1	LED	-	-	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	LITHONIA	LQM-USPS	



1 ELECTRICAL PHOTOMETRIC PLAN - AREA C
1/8" = 1'-0"

PHOTOMETRIC PLAN SHOWN FOR REFERENCE ONLY

KEYPLAN



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ELECTRICAL - PHOTOMETRIC PLAN - AREA C

Revisions: 100% OWNER REVIEW
Date: 09.06.2023

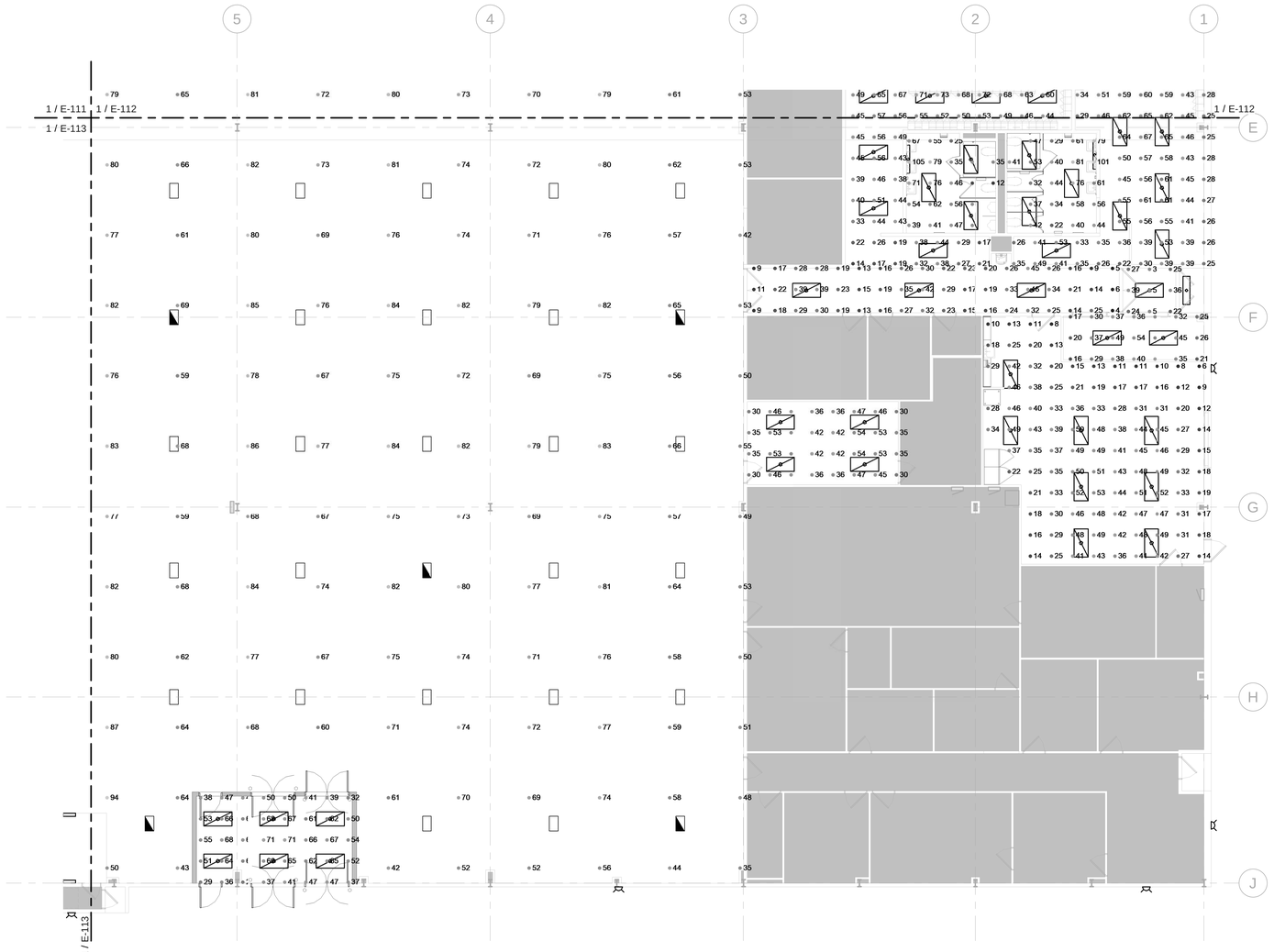
E-113

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-603

LIGHTING FIXTURE SCHEDULE

ENGINEER'S PHOTOMETRICS UTILIZED THE MANUFACTURER ACUITY AS THE BASIS OF DESIGN AND A NATIONAL ACCOUNT HAS BEEN ESTABLISHED WITH ACUITY TO EXPEDITE LIGHT FIXTURE AVAILABILITY (770-355-0938). A FULL LIST OF ACCEPTABLE MANUFACTURERS IS LISTED IN THE SPECIFICATIONS. MANUFACTURER-PROVIDED PHOTOMETRICS AND CUT SHEETS ARE REQUIRED AS A SUBMITTAL.

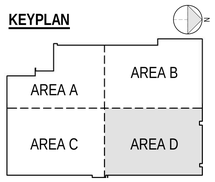
FIXTURE TAG	LAMP	LUMENS	COLOR TEMP.	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	PHOTOMETRIC FILE NAME
A1	LED	5000	4000K	2'X4 SWITCHABLE FLAT PANEL	LITHONIA	CPX-2X4-USPS	CPX 2X4 ALO8 SWW7 4000K Med Lumen.ies
A5	LED	5000	4000K	10"X4' SWITCHABLE WRAP AROUND FIXTURE	LITHONIA	FML4W-USPS	FML4W 48 ALO6 SEF 840 MVOLT.ies
A6	LED	4800	4000K	5'X4' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP4-USPS	BLWP4 48L ADP LP840.ies
A7	LED	4800	4000K	5'X2' WRAP AROUND FIXTURE WITH CURVED RIBBED DIFFUSER	LITHONIA	BLWP2-USPS	BLWP4 48L ADP LP840.ies
CL1	LED	3000/(4000)/5000	4000K	4' SWITCHABLE STRIP LIGHT FIXTURE	LITHONIA	CSS-L48-USPS	CSS L48 ALO3 MVOLT SWW3 80CRI (4000LM 4000K).ies
EM2	LED	220 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, LOW OUTPUT	LITHONIA	ELM2L-USPS	
EM3	LED	640 PER HEAD	-	EMERGENCY LIGHT WITH INTEGRAL BATTERY, HIGH OUTPUT	LITHONIA	ELM6L-USPS	
EM4	LED	635	-	EXTERIOR EMERGENCY LIGHT WITH INTEGRAL BATTERY	LITHONIA	AFF-USPS	
PL2	LED		4000K	SWITCHABLE EXTERIOR WALLPACK, GLASS LENS, [INTEGRAL PHOTOCELL]	LITHONIA	TWH-LED-ALO-40K-[PE]-ODBTXD	TWH LED ALO 40K T3M.ies
W4	LED	4000	4000K	4' SWITCHABLE VAPOR-TIGHT FIXTURE	LITHONIA	CSVT-L48-USPS	CSVT L48 ALO3 347 SWW3 80CRI (4000LM 4000K).ies
W6	LED	24000	4000K	COMPACT HIGHBAY FIXTURE WITH WIDE DISTRIBUTION	LITHONIA	CPHB-24LM-USPS	CPHB 24000LM SEF GCL WD 40K 80CRI.ies
X1	LED	-	-	THERMOPLASTIC EXIT SIGN WITH INTEGRAL BATTERY, RED LETTERS	LITHONIA	LQM-USPS	



1 ELECTRICAL PHOTOMETRIC PLAN - AREA D
1/8" = 1'-0"

PHOTOMETRIC PLAN SHOWN FOR REFERENCE ONLY

KEYPLAN



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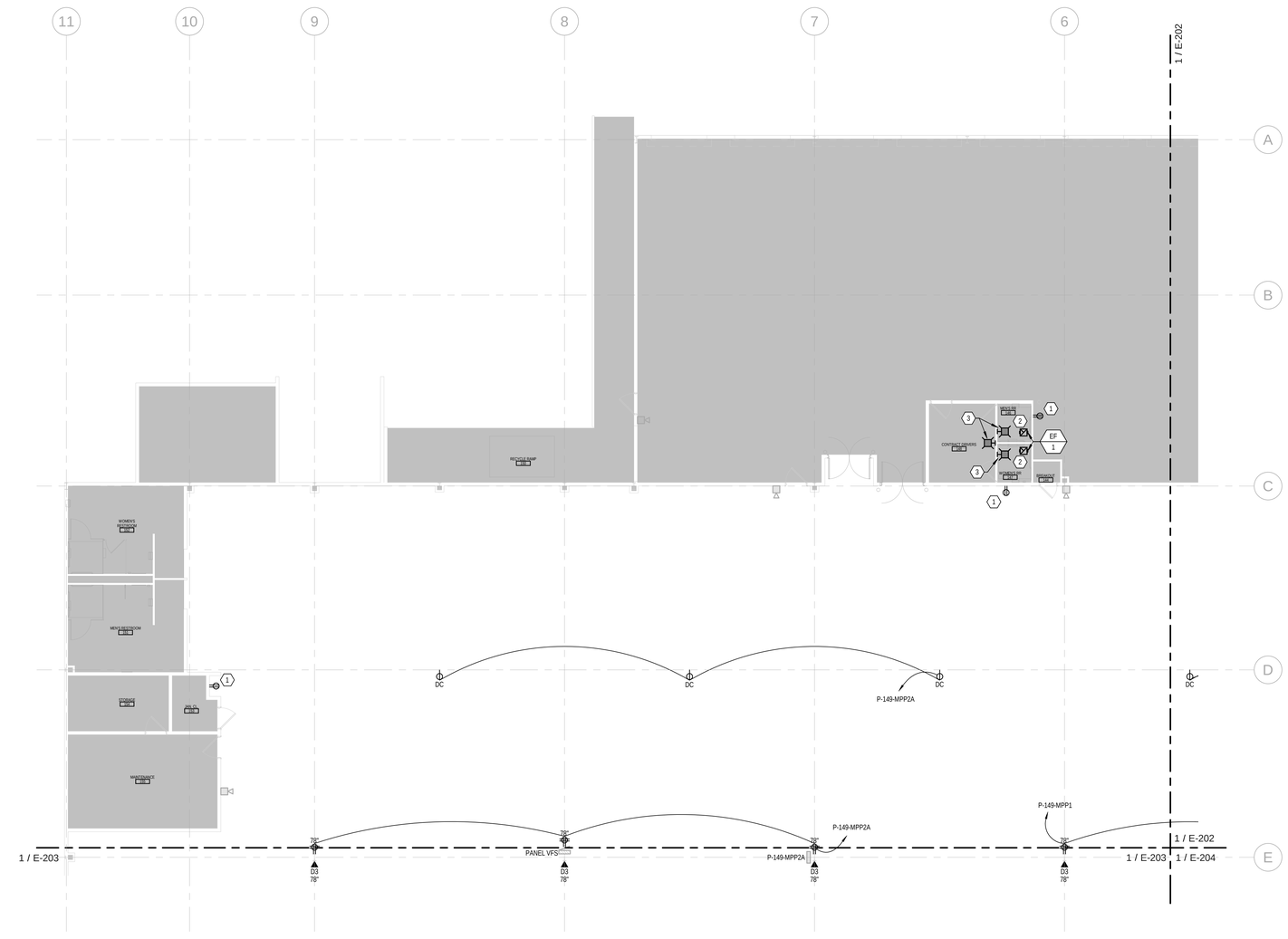
ELECTRICAL - PHOTOMETRIC PLAN - AREA D

Date: 09.06.2023
Revisions: 100% OWNER REVIEW

E-114

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03



1 ELECTRICAL POWER PLAN - AREA A
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOL LEGEND AND PANELBOARD SCHEDULES.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. COORDINATE CIRCUIT, DISCONNECT, AND STARTER SIZE(S) AND TERMINATION LOCATION(S) PRIOR TO ROUGH-IN.
D. SHADING INDICATES AREAS WITH NO WORK.
E. NOT ALL EXISTING DEVICES ARE SHOWN ON PLAN.
F. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING, AND CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW DEVICES.
G. NEW CIRCUITS, UNLESS OTHERWISE NOTED, SHALL BE WIRED WITH (2)#12, (1)#12G IN 3/4"C (INCREASE TO #10s FOR CIRCUITS OVER 75 FEET). TO A SPARE 20A/1P BREAKER (OR NEW 20A/1P BREAKER IF NO SPARES EXIST) IN THE NEAREST EXISTING 208/120V PANELBOARD WITH AVAILABLE CAPACITY.
H. NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING IN MANUFACTURER, TYPE, AND AIC RATING.
I. NEW DEVICES ON DRYWALL SHALL BE FLUSH-MOUNTED. CUT AND PATCH OR FISH WALLS AS REQUIRED.
J. NEW DEVICES ON CONCRETE OR BLOCK WALL SHALL BE SURFACE-MOUNTED. REFER TO SPECIFICATIONS FOR RACEWAY APPLICATIONS.

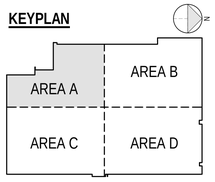
PLAN KEYNOTES

1 EXISTING WATER COOLER TO BE REMOVED AND REPLACED WITH NEW. REPLACE EXISTING GFCI RECEPTACLE WITH A REGULAR DUPLEX RECEPTACLE, AND PROVIDE A 5mA GFCI BREAKER FOR THE CIRCUIT SERVING THE WATER COOLER.
2 EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW (120V, 1Φ, FRACTIONAL HORSEPOWER). DISCONNECT FROM AND RECONNECT TO EXISTING CIRCUIT. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
3 NEW FIRE ALARM NOTIFICATION DEVICE. TIE IN TO NEAREST EXISTING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.

TECHNOLOGY GENERAL NOTES

A. PROVIDE (1) CAT6 CABLE PER DATA PORT TO NEAREST IDF/MDF. MATCH FACILITY'S EXISTING CABLING COLOR CODE.
B. TERMINATE EACH CABLE WITH AN RJ45 KEYSTONE JACK MOUNTED IN A DECORA-STYLE INSERT. PROVIDE FACEPLATES TO MATCH RECEPTACLE FACEPLATES. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
C. TERMINATE EACH CABLE WITH AN RJ45 CONNECTOR AT THE PATCH PANEL. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
D. PROVIDE TESTING, WITH CERTIFIED RESULTS INCLUDING BUT NOT LIMITED TO DISTANCE, OF EACH DATA LOCATION.
E. PROVIDE 48-PORT PATCH PANELS AS REQUIRED TO ACCOMMODATE NEW DATA DEVICES.
F. PROVIDE PATCH CABLES FROM NEW PATCH PANELS TO EXISTING SWITCHES.

KEYPLAN



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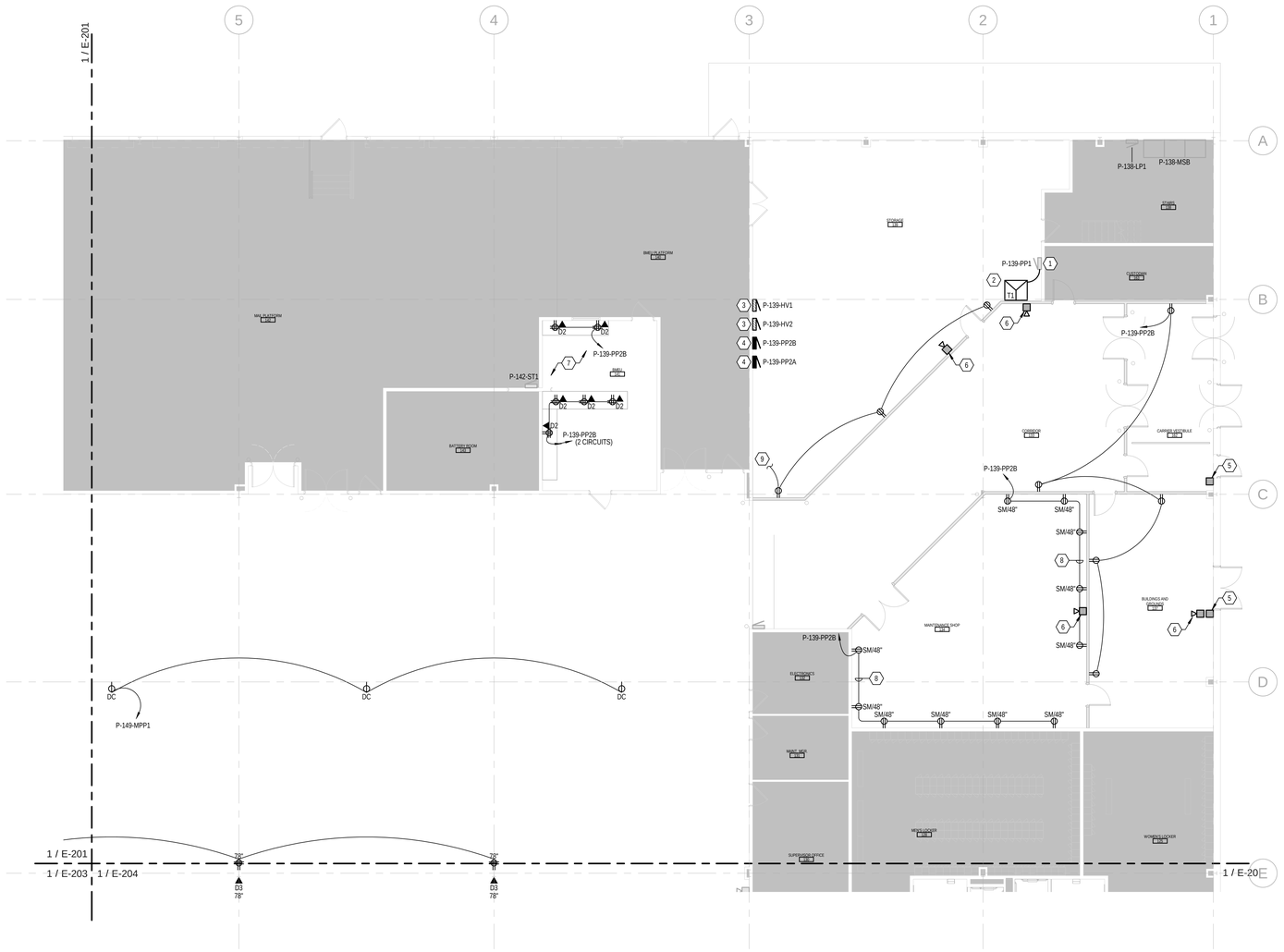
ELECTRICAL - POWER PLAN - AREA A

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-503
Date: 09.06.2023
Revisions: 100% OWNER REVIEW

E-201



1 ELECTRICAL POWER PLAN -AREA B
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOL LEGEND AND PANELBOARD SCHEDULES.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. COORDINATE CIRCUIT, DISCONNECT, AND STARTER SIZE(S) AND TERMINATION LOCATION(S) PRIOR TO ROUGH-IN.
D. SHADING INDICATES AREAS WITH NO WORK.
E. NOT ALL EXISTING DEVICES ARE SHOWN ON PLAN.
F. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING, AND CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW DEVICES.
G. NEW CIRCUITS, UNLESS OTHERWISE NOTED, SHALL BE WIRED WITH (2)#12, (1)#12G IN 3/4"C (INCREASE TO #10s FOR CIRCUITS OVER 75 FEET). TO A SPARE 20A/1P BREAKER (OR NEW 20A/1P BREAKER IF NO SPARES EXIST) IN THE NEAREST EXISTING 208/120V PANELBOARD WITH AVAILABLE CAPACITY.
H. NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING IN MANUFACTURER, TYPE, AND AIC RATING.
I. NEW DEVICES ON DRYWALL SHALL BE FLUSH-MOUNTED. CUT AND PATCH OR FISH WALLS AS REQUIRED.
J. NEW DEVICES ON CONCRETE OR BLOCK WALL SHALL BE SURFACE-MOUNTED. REFER TO SPECIFICATIONS FOR RACEWAY APPLICATIONS.

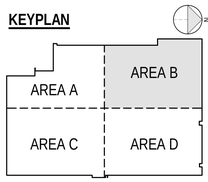
PLAN KEYNOTES

1 EXISTING PANEL "P-139-PP1" TO REMAIN.
2 RELOCATED TRANSFORMER "T1". EXTEND EXISTING PRIMARY FEEDER TO NEW LOCATION OR PROVIDE A NEW PRIMARY FEEDER FROM MAIN SWITCHBOARD. PROVIDE A NEW SECONDARY FEEDER TO PANEL "P-139-PP1". NEW FEEDERS SHALL MATCH EXISTING IN RATING. COORDINATE WITH EXISTING CONDITIONS.
3 RELOCATED PANELS "P-139-HV1" AND "P-139-HV2". EXTEND EXISTING FEEDERS TO NEW LOCATION OR PROVIDE NEW FEEDERS FROM MAIN SWITCHBOARD. NEW FEEDERS SHALL MATCH EXISTING IN RATING. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL LOCATION. NEW BRANCH CIRCUIT CONDUIT AND WIRING SHALL MATCH EXISTING IN RATING. COORDINATE WITH EXISTING CONDITIONS.
4 RELOCATED PANELS "P-139-PP2A" AND "P-139-PP2B". PROVIDE NEW 200A FEEDERS FROM PANEL "P-139-PP1". FEEDERS SHALL BE (4)#3/0, (1)#6G IN 2"C. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL LOCATION. NEW BRANCH CIRCUIT CONDUIT AND WIRING SHALL MATCH EXISTING IN RATING. COORDINATE WITH EXISTING CONDITIONS.
5 NEW FIRE ALARM MANUAL PULL STATION. TIE IN TO NEAREST EXISTING FIRE ALARM SIGNALLING LINE CIRCUIT (SLC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
6 NEW FIRE ALARM NOTIFICATION DEVICE. TIE IN TO NEAREST EXISTING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
7 NEW POWER AND DATA OUTLETS SURFACE-MOUNTED UNDER NEW CASEWORK. ROUTE WIRING THROUGH SURFACE-MOUNTED EMT CONDUIT.
8 NEW RECEPTACLES WITHIN THE MAINTENANCE SHOP SHALL BE SURFACE-MOUNTED. ROUTE WIRING THROUGH SURFACE-MOUNTED EMT CONDUIT. EACH CIRCUIT SHALL BE WIRED WITH (3)#1/0, (1)#10G IN 3/4"C TO A NEW 30A/2P BREAKER IN PANELBOARD INDICATED. PROVIDE COST FOR (4) NEMA 6-20R RECEPTACLES IN BID. NEMA 6-20R RECEPTACLES ARE TO BE LOCATED BY MAINTENANCE SHOP PERSONNEL WHERE 208V POWER IS REQUIRED FOR SHOP EQUIPMENT. AT THESE LOCATIONS, CONTRACTOR SHALL SWAP NEMA 5-20R RECEPTACLE FOR NEMA 6-20R RECEPTACLE AND CONNECT TO THE SECOND HOT CONDUCTOR PROVIDED.
9 TIE-IN TO NEAREST EXISTING CONVENIENCE RECEPTACLE BRANCH CIRCUIT. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.

TECHNOLOGY GENERAL NOTES

A. PROVIDE (1) CAT6 CABLE PER DATA PORT TO NEAREST IDF/MDF. MATCH FACILITY'S EXISTING CABLING COLOR CODE.
B. TERMINATE EACH CABLE WITH AN RJ45 KEYSTONE JACK MOUNTED IN A DECORA-STYLE INSERT. PROVIDE FACEPLATES TO MATCH RECEPTACLE FACEPLATES. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
C. TERMINATE EACH CABLE WITH AN RJ45 CONNECTOR AT THE PATCH PANEL. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
D. PROVIDE TESTING, WITH CERTIFIED RESULTS INCLUDING BUT NOT LIMITED TO DISTANCE, OF EACH DATA LOCATION.
E. PROVIDE 48-PORT PATCH PANELS AS REQUIRED TO ACCOMMODATE NEW DATA DEVICES.
F. PROVIDE PATCH CABLES FROM NEW PATCH PANELS TO EXISTING SWITCHES.

KEYPLAN



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PROJECT MANAGER	DESIGNER	JOB NO.
DL	NH	2022359.19

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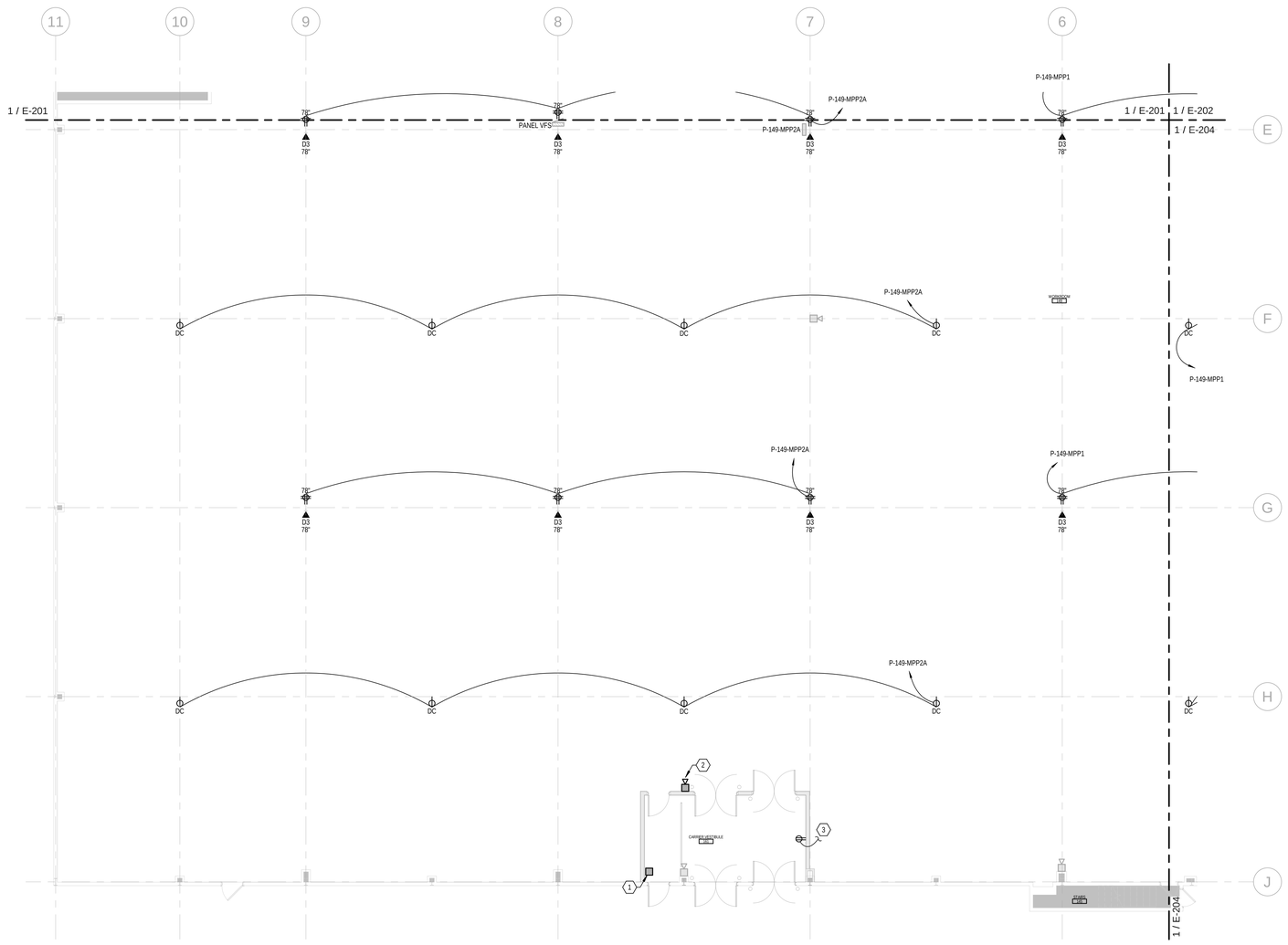
ELECTRICAL - POWER PLAN - AREA B

Revisions: 100% OWNER REVIEW
Date: 09.06.2023

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-603

E-202



1 ELECTRICAL POWER PLAN - AREA C
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOL LEGEND AND PANELBOARD SCHEDULES.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. COORDINATE CIRCUIT, DISCONNECT, AND STARTER SIZE(S) AND TERMINATION LOCATION(S) PRIOR TO ROUGH-IN.
D. SHADING INDICATES AREAS WITH NO WORK.
E. NOT ALL EXISTING DEVICES ARE SHOWN ON PLAN.
F. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING, AND CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW DEVICES.
G. NEW CIRCUITS, UNLESS OTHERWISE NOTED, SHALL BE WIRED WITH (2)#12, (1)#12G IN 3/4"C (INCREASE TO #10s FOR CIRCUITS OVER 75 FEET). TO A SPARE 20A/1P BREAKER (OR NEW 20A/1P BREAKER IF NO SPARES EXIST) IN THE NEAREST EXISTING 208/120V PANELBOARD WITH AVAILABLE CAPACITY.
H. NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING IN MANUFACTURER, TYPE, AND AIC RATING.
I. NEW DEVICES ON DRYWALL SHALL BE FLUSH-MOUNTED. CUT AND PATCH OR FISH WALLS AS REQUIRED.
J. NEW DEVICES ON CONCRETE OR BLOCK WALL SHALL BE SURFACE-MOUNTED. REFER TO SPECIFICATIONS FOR RACEWAY APPLICATIONS.

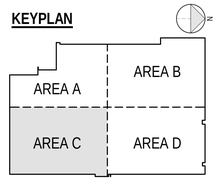
PLAN KEYNOTES

1 NEW FIRE ALARM MANUAL PULL STATION. TIE IN TO NEAREST EXISTING FIRE ALARM SIGNALLING LINE CIRCUIT (SLC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
2 NEW FIRE ALARM NOTIFICATION DEVICE. TIE IN TO NEAREST EXISTING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
3 TIE-IN TO NEAREST EXISTING CONVENIENCE RECEPTACLE BRANCH CIRCUIT. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.

TECHNOLOGY GENERAL NOTES

A. PROVIDE (1) CAT6 CABLE PER DATA PORT TO NEAREST IDF/MDF. MATCH FACILITY'S EXISTING CABLING COLOR CODE.
B. TERMINATE EACH CABLE WITH AN RJ45 KEYSTONE JACK MOUNTED IN A DECORA-STYLE INSERT. PROVIDE FACEPLATES TO MATCH RECEPTACLE FACEPLATES. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
C. TERMINATE EACH CABLE WITH AN RJ45 CONNECTOR AT THE PATCH PANEL. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
D. PROVIDE TESTING, WITH CERTIFIED RESULTS INCLUDING BUT NOT LIMITED TO DISTANCE, OF EACH DATA LOCATION.
E. PROVIDE 48-PORT PATCH PANELS AS REQUIRED TO ACCOMMODATE NEW DATA DEVICES.
F. PROVIDE PATCH CABLES FROM NEW PATCH PANELS TO EXISTING SWITCHES.

KEYPLAN



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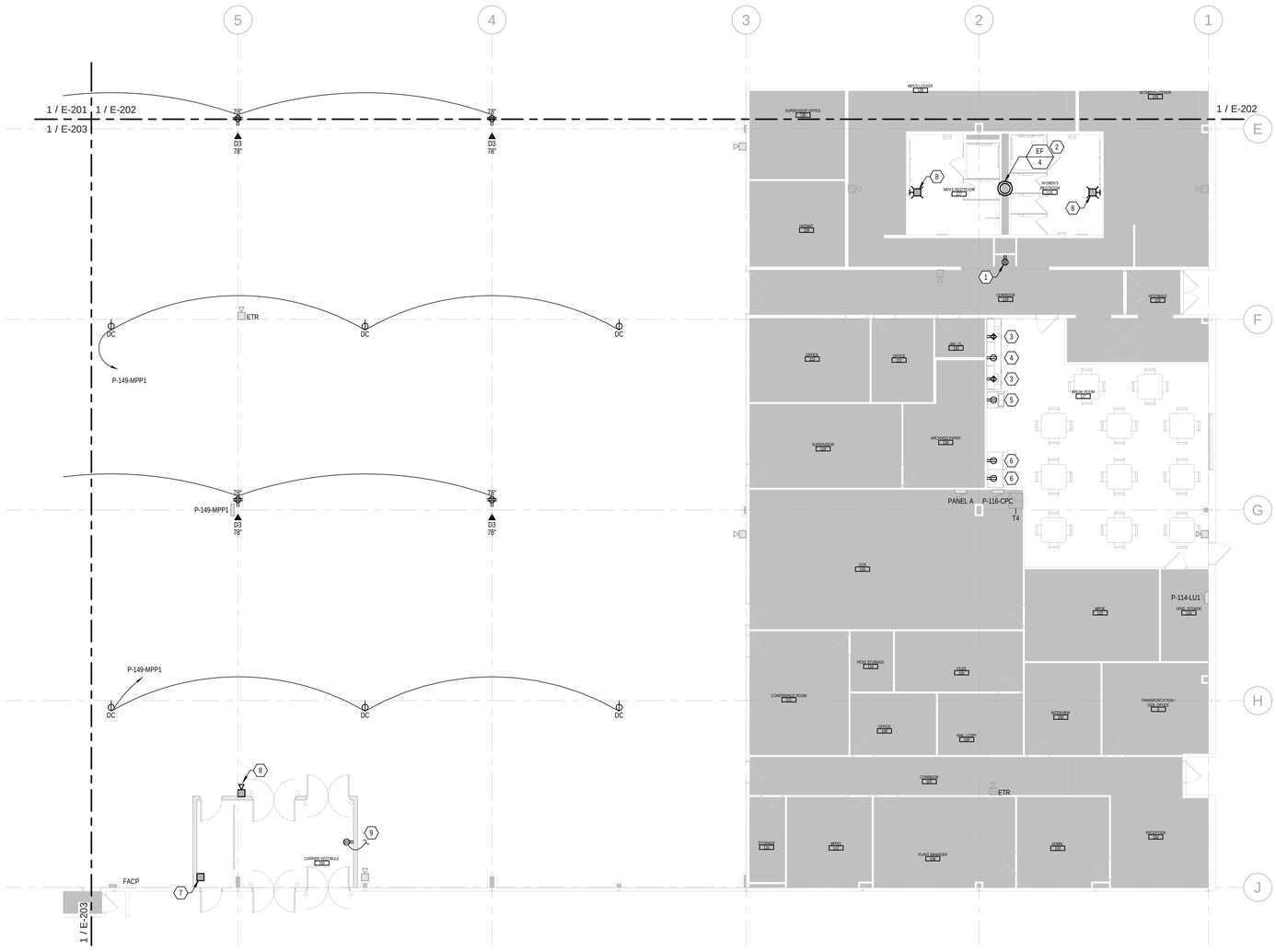
ELECTRICAL - POWER PLAN - AREA C

Scale:	NTS	Date:	09.06.2023
Project:	USPS - OLYMPIA, WA - SDC	Revisions:	100% OWNER REVIEW
USPS File Number:	546148-603		

E-203



1 ELECTRICAL POWER PLAN - AREA D
1/8" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOL LEGEND AND PANELBOARD SCHEDULES.
B. REFER TO E-500 SERIES FOR ELECTRICAL DETAILS.
C. COORDINATE CIRCUIT, DISCONNECT, AND STARTER SIZE(S) AND TERMINATION LOCATION(S) PRIOR TO ROUGH-IN.
D. SHADING INDICATES AREAS WITH NO WORK.
E. NOT ALL EXISTING DEVICES ARE SHOWN ON PLAN.
F. CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING, AND CIRCUIT BREAKERS AS REQUIRED TO SERVE NEW DEVICES.
G. NEW CIRCUITS, UNLESS OTHERWISE NOTED, SHALL BE WIRED WITH (2)#12, (1)#12G IN 3/4"C (INCREASE TO #10s FOR CIRCUITS OVER 75 FEET). TO A SPARE 20A/1P BREAKER (OR NEW 20A/1P BREAKER IF NO SPARES EXIST) IN THE NEAREST EXISTING 208/120V PANELBOARD WITH AVAILABLE CAPACITY.
H. NEW CIRCUIT BREAKERS TO BE INSTALLED IN EXISTING PANELBOARDS SHALL MATCH EXISTING IN MANUFACTURER, TYPE, AND AIC RATING.
I. NEW DEVICES ON DRYWALL SHALL BE FLUSH-MOUNTED. CUT AND PATCH OR FISH WALLS AS REQUIRED.
J. NEW DEVICES ON CONCRETE OR BLOCK WALL SHALL BE SURFACE-MOUNTED. REFER TO SPECIFICATIONS FOR RACEWAY APPLICATIONS.

PLAN KEYNOTES

1 EXISTING WATER COOLER TO BE REMOVED AND REPLACED WITH NEW. REPLACE EXISTING GFCI RECEPTACLE WITH A REGULAR DUPLEX RECEPTACLE, AND PROVIDE A 5mA GFCI BREAKER FOR THE CIRCUIT SERVING THE WATER COOLER.
2 EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW (120V, 1Φ, FRACTIONAL HORSEPOWER). DISCONNECT FROM AND RECONNECT TO EXISTING CIRCUIT. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.
3 NEW ABOVE-COUNTER GFCI RECEPTACLE.
4 NEW GARBAGE DISPOSAL. PROVIDE A 5mA GFCI BREAKER AND A TOGGLE SWITCH ABOVE COUNTER.
5 NEW ICE MACHINE. PROVIDE A 5mA GFCI BREAKER.
6 NEW REFRIGERATOR. PROVIDE A 5mA GFCI BREAKER.
7 NEW FIRE ALARM MANUAL PULL STATION. TIE IN TO NEAREST EXISTING FIRE ALARM SIGNALLING LINE CIRCUIT (SLC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
8 NEW FIRE ALARM NOTIFICATION DEVICE. TIE IN TO NEAREST EXISTING FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT (NAC) AND TEST. COORDINATE WITH USPS FIRE ALARM VENDOR PRIOR TO BIDDING.
9 TIE-IN TO NEAREST EXISTING CONVENIENCE RECEPTACLE BRANCH CIRCUIT. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED.

TECHNOLOGY GENERAL NOTES

A. PROVIDE (1) CAT6 CABLE PER DATA PORT TO NEAREST IDF/MDF. MATCH FACILITY'S EXISTING CABLING COLOR CODE.
B. TERMINATE EACH CABLE WITH AN RJ45 KEYSTONE JACK MOUNTED IN A DECORA-STYLE INSERT. PROVIDE FACEPLATES TO MATCH RECEPTACLE FACEPLATES. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
C. TERMINATE EACH CABLE WITH AN RJ45 CONNECTOR AT THE PATCH PANEL. MATCH FACILITY'S EXISTING TERMINATION COLOR CODE. LABEL ALL TERMINATIONS.
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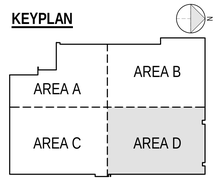
E. PROVIDE 48-PORT PATCH PANELS AS REQUIRED TO ACCOMMODATE NEW DATA DEVICES.
F. PROVIDE PATCH CABLES FROM NEW PATCH PANELS TO EXISTING SWITCHES.

KEYPLAN



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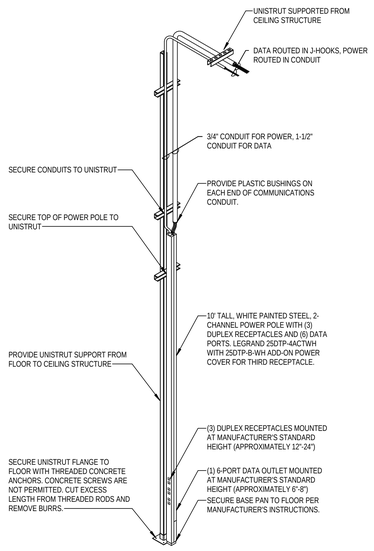
ELECTRICAL - POWER PLAN - AREA D

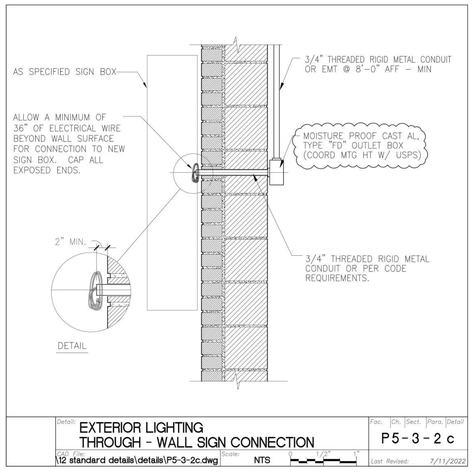
E-204

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-G03

Revisions: 100% OWNER REVIEW
Date: 09.06.2023



1 DUAL-CHANNEL POWER POLE DETAIL
N.T.S.



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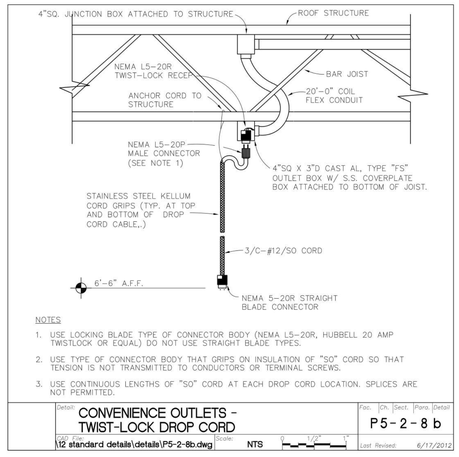
2 USPS STANDARD DETAIL P5-3-2C
N.T.S.



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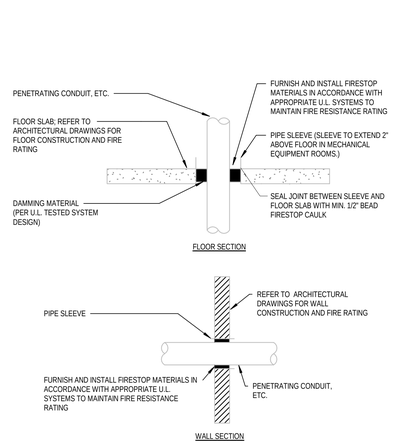
3 USPS STANDARD DETAIL P5-2-8B
N.T.S.



NOTES:

1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES

SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL < 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL < 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (< 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008

4 FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION
N.T.S.

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PROJECT MANAGER	DESIGNER
DL	NH

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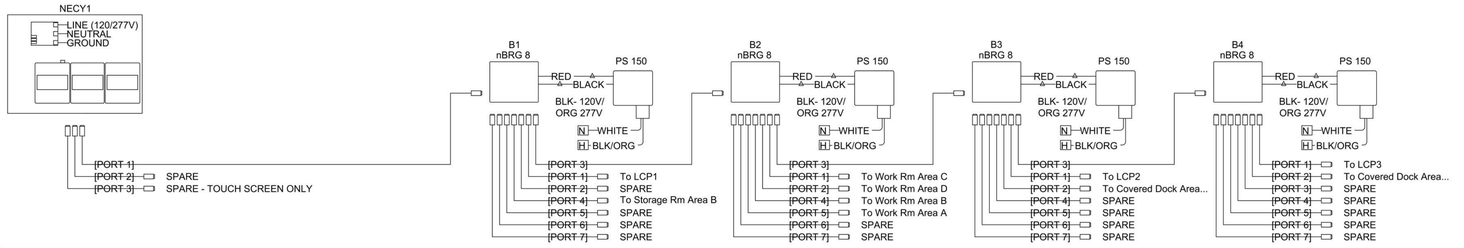
ELECTRICAL DETAILS

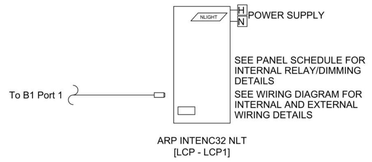
Revisions: 100% OWNER REVIEW
Date: 09.06.2023

E-501

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-603



1 TYPICAL NETWORK RISER
N.T.S.



2 TYPICAL LIGHTING CONTROL PANEL
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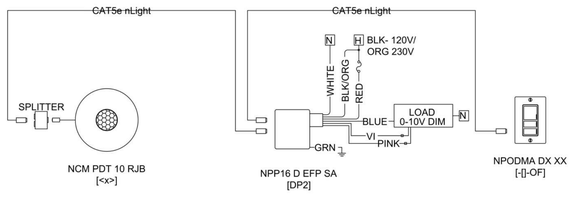
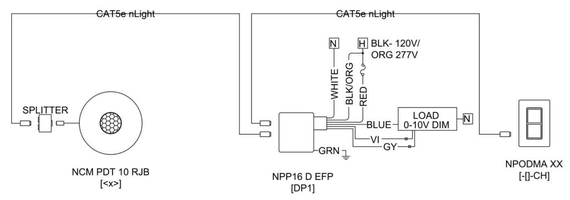
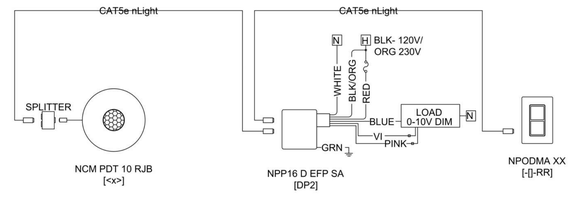


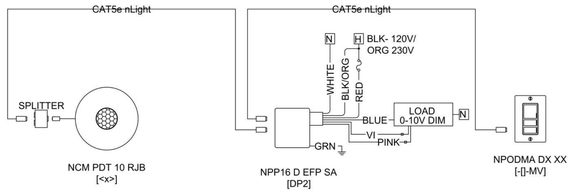
5 TYPICAL LIGHTING CONTROL SCHEME - "OF"
N.T.S.



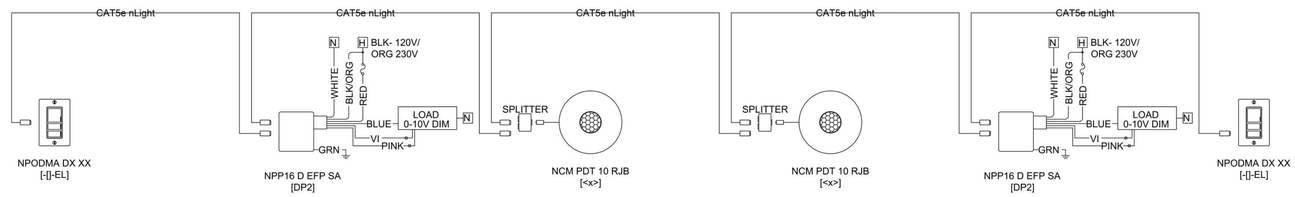
6 TYPICAL LIGHTING CONTROL SCHEME - "CH"
N.T.S.



7 TYPICAL LIGHTING CONTROL SCHEME - "RR"
N.T.S.



8 TYPICAL LIGHTING CONTROL SCHEME - "MV"
N.T.S.



9 TYPICAL LIGHTING CONTROL SCHEME - "EL"
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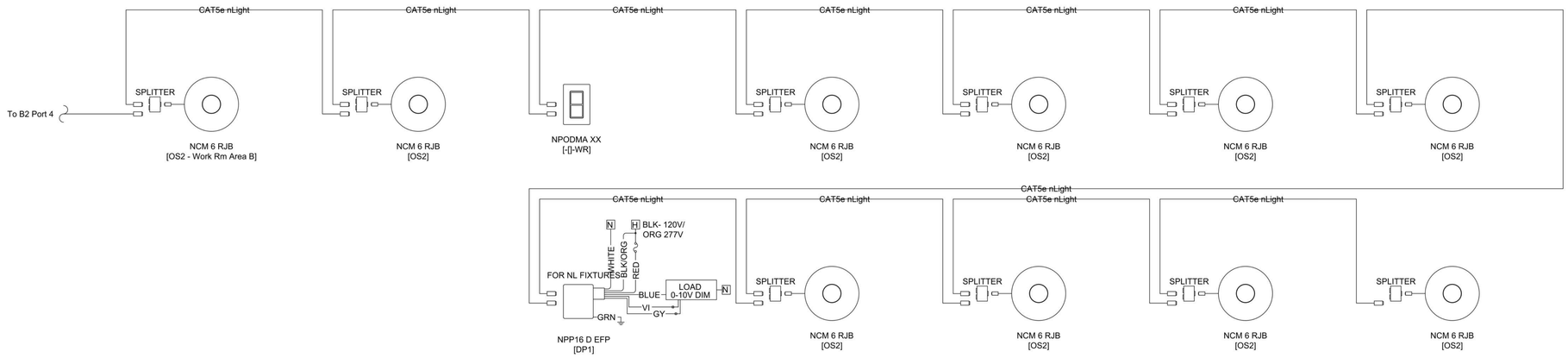

10 TYPICAL LIGHTING CONTROL SCHEME - "WR"
N.T.S.

LIGHTING CONTROL DETAILS REPRESENT TYPICAL CONTROL SCHEMES. COORDINATE PROJECT-SPECIFIC REQUIREMENTS WITH DRAWINGS, LIGHTING VENDOR, AND EXISTING CONDITIONS.

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DL	NH

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ELECTRICAL DETAILS

Revisions: 100% OWNER REVIEW
Date: 09.06.2023
Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-003

E-502

1 ELECTRICAL DEMOLITION PLAN
1/16" = 1'-0"

GENERAL NOTES

A. ALL DEVICES REMOVED DURING DEMOLITION SHALL HAVE ALL ASSOCIATED CONDUIT, WIRING, AND CONTROLS REMOVED BACK TO SOURCE OR NEXT DEVICE THAT REMAINS. FIELD VERIFY EXACT WIRING.

B. REFEED ANY ELECTRICAL DEVICE OR ITEM THAT IS EXISTING TO REMAIN WHOSE WIRING IS INTERRUPTED DUE TO RENOVATION IN ADJACENT AREA.

C. ANY ELECTRICAL DEVICE THAT IS TO REMAIN THAT IS LOCATED ON OR IN A WALL OR CEILING BEING REMOVED SHALL BE RELOCATED AS DIRECTED BY G.C. IN FIELD AND RECONNECTED AS REQUIRED.

D. NOTIFY THE OWNER AND THE FIRE ALARM MONITORING COMPANY AT LEAST 72 HOURS PRIOR TO COMMENCING ANY WORK ON THE EXISTING FIRE ALARM SYSTEM.

E. DISPOSE OF ANY EXISTING LAMPS WITH MERCURY CONTENT OR OTHER TOXIC CHEMICALS PROPERLY AND PROVIDE CERTIFICATION OF DISPOSAL TO OWNER FOR THEIR RECORDS.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.

G. EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING WORK.

PLAN KEYNOTES

1 EXISTING WALL TO BE REMOVED. REMOVE ALL EXISTING ELECTRICAL ITEMS (RECEPTACLES, DATA DEVICES, FIRE ALARM DEVICES, ETC.) LOCATED ON WALL. COORDINATE WITH EXISTING CONDITIONS.

2 EXISTING ELECTRIC WATER COOLER TO BE REPLACED. SEE POWER PLANS FOR MORE INFORMATION.

3 EXISTING LIGHTING FIXTURES WITHIN THIS ROOM/AREA ARE TO BE REPLACED ONE-FOR-ONE.

4 EXISTING TRANFORMER AND PANELBOARDS TO BE RELOCATED. SEE SHEET E-202 FOR MORE INFORMATION.

5 EXISTING COMPRESSOR SHED TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL ITEMS BACK TO SOURCE OR NEXT DEVICE TO REMAIN. COORDINATE WITH EXISTING CONDITIONS.

6 EXISTING HOME OFFICE FURNITURE TO BE REMOVED. REMOVE ANY SURFACE-MOUNTED ELECTRICAL DEVICES SERVING HOME OFFICE FURNITURE. RECESSED ELECTRICAL DEVICES ARE EXISTING TO REMAIN. COORDINATE WITH EXISTING CONDITIONS.

7 EXISTING CAGED AREA TO BE REMOVED. REMOVE ALL ASSOCIATED ELECTRICAL ITEMS BACK TO SOURCE OR NEXT DEVICE TO REMAIN. COORDINATE WITH EXISTING CONDITIONS.

8 EXISTING LIGHTING CONTROL PANEL SERVING EXTERIOR, DOCK, AND WORKROOM LIGHTING TO BE REPLACED. SEE LIGHTING PLANS FOR MORE INFORMATION.

DEMOLITION SCOPE LEGEND

WITHIN EACH ROOM/AREA, EC SHALL REMOVE ALL EXISTING LIGHTING FIXTURES (INCLUDING EXIT SIGNS AND EMERGENCY EGRESS FIXTURES) AND ASSOCIATED CONDUIT, WIRING, AND CONTROLS BACK TO EXISTING LIGHTING BRANCH CIRCUIT JUNCTION BOX(ES) SERVING THE ROOM/AREA. EXISTING LIGHTING BRANCH CIRCUITS TO BE EXTENDED TO NEW LIGHTING FIXTURES AND CONTROLS AS SHOWN ON LIGHTING PLANS.

WITHIN EACH ROOM/AREA, EC SHALL REMOVE EXISTING EXIT SIGNS AND EMERGENCY EGRESS FIXTURES AND ASSOCIATED CONDUIT AND WIRING BACK TO EXISTING LIGHTING BRANCH CIRCUIT JUNCTION BOX(ES) SERVING THE ROOM/AREA. EXISTING LIGHTING BRANCH CIRCUITS TO BE EXTENDED TO NEW EXIT SIGNS AND EMERGENCY EGRESS FIXTURES AS SHOWN ON LIGHTING PLANS.

SEE KEYNOTES FOR ADDITIONAL DEMOLITION SCOPE WITHIN SPECIFIC ROOMS/AREAS.

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DL	NH

JOB NO. 2022359.19

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ELECTRICAL - DEMOLITION PLAN

ED-101

Scale: NTS
Project: USPS - OLYMPIA, WA - SDC
USPS File Number: 546148-603

Date: 09.06.2023
Revisions: 100% OWNER REVIEW