

**CIRCUITS LIGHT FIXTURES**

- LOWER-CASE LETTER DENOTES SWITCH LEG
- RECESSED, DTS
- SURFACE-MOUNTED, DTS
- STRIP, LTS
- WALL-MOUNTED, LTS
- RECESSED DOWNLIGHT, DTS
- SURFACE-MOUNTED DOWNLIGHT, DTS
- PENDANT-MOUNTED, DTS
- LINEAR PENDANT-MOUNTED, LTS
- WALL-MOUNTED, NTS
- WALL-MOUNTED, VERTICALLY ORIENTED, NTS
- CONTINUOUS LED TAPE-LIGHT, LTS
- EXIT SIGN, FILLED SIDE ILLUMINATED, DIRECTIONAL ARROWS AS INDICATED, NTS
- EMERGENCY BATTERY PACK, NTS
- EXIT WITH EMERGENCY BATTERY PACK, NTS

**LIGHTING CONTROLS**

- LOWER-CASE LETTER DENOTES CIRCUIT CONTROLLED
- SINGLE-POLE SWITCH
- DIMMER SWITCH
- DOUBLE-POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- KEY-OPERATED SWITCH
- MOMENTARY CONTACT, LOW-VOLTAGE SWITCH
- OCCUPANCY SENSOR SWITCH
- TIMECLOCK
- PHOTOCELL SWITCH
- OCCUPANCY SENSOR, CEILING-MOUNTED
- PHOTOCELL CONTROL, WALL-MOUNTED & CEILING-MOUNTED
- PHOTO SENSOR CONTROL, CEILING-MOUNTED

**FIRE ALARM**

- FIRE SERVICE PHONE STATION
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- MANUAL PULL STATION
- STROBE, WALL-MOUNTED & CEILING-MOUNTED
- SPEAKER, WALL-MOUNTED & CEILING-MOUNTED
- HORN, WALL-MOUNTED & CEILING-MOUNTED
- SPEAKER WITH STROBE, WALL-MOUNTED & CEILING-MOUNTED
- HORN WITH STROBE, WALL-MOUNTED & CEILING-MOUNTED
- CONTROL PANEL
- REMOTE ANNUCIATOR
- REMOTE PANEL
- TERMINAL CABINET
- SPRINKLER FLOW SWITCH
- SPRINKLER TAMPER SWITCH

**SECURITY**

- CCTV CAMERA, WALL-MOUNTED & CEILING-MOUNTED
- AI CAMERA, (2) CAT-6
- AUTO OPEN, HANDS FREE
- CARD READER, WITH AUTO OPEN FUNCTIONALITY
- KEYPAD
- MAGNETIC HOLD OPEN
- MAGNETIC HOLD OPEN WITH TIMER SWITCH
- DURESS ALARM BUTTON

**ONE-LINE DIAGRAM**

- AVAILABLE FAULT CURRENT IDENTIFICATION
- AMMETER
- ARRESTOR, SURGE
- ARRESTOR, LIGHTNING
- AUTOMATIC TRANSFER SWITCH (ATS)
- BUSWAY END TAP
- BUSWAY PLUG
- CAPACITOR
- CIRCUIT BREAKER
- CIRCUIT BREAKER, NETWORK PROTECTOR
- CIRCUIT BREAKER, GFI
- CIRCUIT BREAKER, DRAWOUT
- CIRCUIT BREAKER, DRAWOUT, MEDIUM VOLTAGE
- CIRCUIT BREAKER, THERMAL OVERLOAD
- CIRCUIT BREAKER, MAGNETIC OVERLOAD
- CONTACT, NORMALLY OPEN & NORMALLY CLOSED
- CONTACTOR
- DELTA CONNECTED
- ENGINE-GENERATOR
- FUSE (ISOLATING)
- FUSE OR CURRENT LIMITER
- FUSED SWITCH
- GROUND
- KEY INTERLOCK
- METER
- POWER METER
- PUSHBUTTON
- RELAY
- RELAY, GFI
- SURGE PROTECTIVE DEVICE
- SWITCH, 2-POLE
- SWITCH, 3-POLE
- THERMAL ELEMENT
- TRANSFORMER
- TRANSFORMER, CURRENT
- VOLTMETER
- WATT HOUR METER
- WYE CONNECTED

**EQUIPMENT**

- EQUIPMENT CONNECTION
- GROUND BAR, LENGTH TO SCALE
- MOTOR CONNECTION, SINGLE-PHASE
- MOTOR CONNECTION, THREE-PHASE
- SURGE PROTECTIVE DEVICE
- TRANSFORMER

**CONTROLS**

- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- MANUAL MOTOR STARTER
- COMBINATION MOTOR STARTER FUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER
- PUSH BUTTON CONTROL STATION
- AUTO DOOR PUSHPLATE
- HANDWAIVE DOOR OPENER
- EMERGENCY POWER OFF (EPO)
- MOTOR-RATED TOGGLE SWITCH
- VARIABLE FREQUENCY DRIVE

**TELECOM**

- ROUGH-IN FOR AV CONNECTION
- VOICE OUTLET - WALL PHONE, (1) CAT-6
- COMBINATION DATA AND VOICE OUTLET (2) CAT-6 UNO
- DATA OUTLET, FLUSH FLOOR BOX
- DATA OUTLET, CEILING MOUNTED
- COMBINATION DATA AND POWER OUTLET, FLUSH FLOOR BOX
- COMBINATION DATA AND POWER OUTLET, CEILING MOUNTED
- TELECOMMUNICATIONS GROUNDING BAR, LENGTH TO SCALE
- TELECOMMUNICATIONS MAIN GROUNDING BAR, LENGTH TO SCALE
- CABLE TRAY
- CEILING MOUNTED WIRELESS ACCESS POINT, (1) CAT-6A

**RECEPTACLES**

- SINGLE, 120V
- DUPLEX, 120V
- DOUBLE DUPLEX, 120V
- SPLIT-WIRED DUPLEX, TOP SWITCHED
- SPLIT-WIRED DOUBLE DUPLEX, LEFT SWITCHED
- 208V OR 240V, SINGLE-PHASE
- 208V OR 240V, THREE-PHASE
- COMBINATION 120/208V OR 120/240V, SINGLE-PHASE
- 480V, SINGLE-PHASE
- 480V, THREE-PHASE
- SINGLE, 120V, TWIST LOCK
- DUPLEX, 120V, TWIST LOCK
- 208V OR 240V, SINGLE-PHASE, TWIST LOCK
- 208V OR 240V, THREE-PHASE, TWIST LOCK
- COMBINATION 120/208V OR 120/240V, SINGLE-PHASE, TWIST LOCK
- 480V, SINGLE-PHASE, TWIST LOCK
- 480V, THREE-PHASE, TWIST LOCK
- SINGLE, 120V, FLUSH FLOOR BOX
- DUPLEX, 120V, FLUSH FLOOR BOX
- DOUBLE DUPLEX, 120V, FLUSH FLOOR BOX
- SPLIT-WIRED, 120V, FLUSH FLOOR BOX
- SINGLE, 120V, CEILING MOUNTED
- DUPLEX, 120V, CEILING MOUNTED
- DOUBLE DUPLEX, 120V, CEILING MOUNTED
- SPLIT-WIRED, 120V, CEILING MOUNTED

**POLES & POKE-THROUGHS**

- POWER POKE-THROUGH
- DATA POKE-THROUGH
- COMBINATION POWER & DATA POKE-THROUGH
- POWER POLE
- DATA POLE
- COMBINATION POWER & DATA POLE

**RECEPTACLE TYPES**

- MOUNTED 3" ABOVE COUNTER BACKSPASH
- DEDICATED CIRCUIT
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
- GFCI AND TAMPER RESISTANT
- ISOLATED GROUND
- TAMPER RESISTANT
- GFCI WITH WEATHER PROOF COVER

**PANELBOARDS**

- 208V SYSTEM PANELBOARD
- 480V SYSTEM PANELBOARD

**CIRCUITS**

- RACEWAY CONCEALED IN CEILING OR WALL
- EXISTING RACEWAY
- RACEWAY BELOW SLAB OR UNDERGROUND
- RACEWAY UP
- RACEWAY DOWN
- RACEWAY STUB-OUT WITH BUSHING
- CIRCUIT CONTINUATION
- HOMERUN
- JUNCTION BOX
- PULL BOX

**WORK DEFINITION**

- FLAG NOTE
- REVISION IDENTIFICATION
- EQUIPMENT IDENTIFICATION
- DETAIL REFERENCE
- SECTION REFERENCE
- PROJECT NORTH REFERENCE
- NEW WORK
- EXISTING CONDITIONS
- FUTURE WORK
- DEMOLISH EXISTING

**STANDARD MOUNTING HEIGHTS**

LOCATE DEVICES AS NOTED BELOW UNLESS OTHERWISE INDICATED. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18" VERTICALLY MOUNTED
SWITCHES	43" VERTICALLY MOUNTED
CLOCK OUTLET	80"
PANELBOARDS	72" TO TOP OF PANELBOARD IN BOX IS <68" HIGH, OTHERWISE PER NEC 404.8
INTERCOM	43"
CARD READER	43"
TELECOM OUTLET, DESK HANDSET	18" VERTICALLY MOUNTED
TELECOM OUTLET, WALL HANDSET	43" VERTICALLY MOUNTED
VOLUME CONTROLLER	43"
FIRE ALARM PULL STATION	43"
FIRE ALARM AUDIBLE NOTIFICATION DEVICES	TOP EDGE 90" AFF MINIMUM & 6" BELOW CEILING MINIMUM. (6" MINIMUM BELOW CEILING TAKES PRECEDENCE WHERE BOTH REQUIREMENTS CANNOT BE MET.)
FIRE ALARM VISUAL & COMBINATION AUDIBLE/VISUAL NOTIFICATION DEVICES	BOTTOM EDGE 80" AFF MINIMUM & TOP EDGE 96" AFF MINIMUM.
FIRE ALARM CONTROL PANEL	72" TO TOP OF PANEL

**GENERAL NOTES:**

- ALL ELECTRICAL WORK AND MATERIALS ARE TO COMPLY WITH THE LATEST REQUIREMENTS OF ALL APPLICABLE CITY, COUNTY, AND STATE CODES AS WELL AS THE NATIONAL ELECTRICAL CODE AS ADOPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- FOR EXACT LOCATIONS OF ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES, REFER TO THE ARCHITECTURAL DRAWINGS.

**PROJECT DETAILS**

**PROJECT DETAILS:**

THIS PROJECT RENOVATES AND EXPANDS THE EXISTING KITCHEN AT GOOD SAMARITAN HOSPITAL TO ALLOW FOR FUTURE CAMPUS GROWTH. THE PROJECT IS DONE ON A PHASED APPROACH AS OUTLINED IN THIS DRAWING SET.

**ELECTRICAL ENGINEERING CONTACT:**

EBD SERVICES  
RASHPAL, BASSI, PE  
253-204-1225  
RASHPAL.BASSI@EBD-SERVICES.COM

**ELECTRICAL CONTRACTOR CONTACT:**

PRECISION ELECTRIC GROUP INC.  
BRANDON PICCINI  
206-949-0471  
BRANDONP@PRECISIONELECTRICGROUP.COM

**ABBREVIATIONS**

A/AMP	AMPERE	LTS	LENGTH ONLY TO SCALE
ABV	ABOVE	LV	LOW VOLTAGE
AC	3" ABOVE COUNTER BACKSPASH	MAG	MAGNETIC
ACH	ABOVE COUNTER HEIGHT	MAX	MAXIMUM
AFCI	ARC-FAULT CIRCUIT INTERRUPTING ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFFC	ARC-FAULT CIRCUIT INTERRUPTING ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AG	ABOVE GRADE	MH	MANHOLE
AHJ	AUTHORITY HAVING JURISDICTION	MLO	MAIN LUGS ONLY MULTIMODE
AIC	AMPERE INTERRUPTING CAPACITY	MTD	MOUNTED
AL	ALUMINUM	MW	MICROWAVE
AM	AMMETER	N	NEUTRAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NC	NORMALLY CLOSED
A/V	AUDIO/VISUAL	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM	NIC	NOT IN CONTRACT
BKR	BREAKER	NO	NORMALLY OPEN
CATV	COMMUNITY ACCESS TELEVISION	NOT	NOT TO SCALE
C	CONDUIT	OSP	OVERCURRENT PROTECTION
CO	CONDUIT ONLY	OCPD	OVERCURRENT PROTECTIVE DEVICE
CB	CIRCUIT BREAKER	OPER	OPERATED/OPERABLE
CCTV	CLOSED CIRCUIT TELEVISION	OPOI	OWNER PROVIDED
CKT	CIRCUIT	PB	OWNER INSTALLED
CLG	CEILING	PBL	PULLBOX
CM	CEILING MOUNTED COMMUNICATIONS	PNL	PANEL/PANELBOARD
COMM	COMMUNICATIONS	POS	POSITION/POINT OF SALE
CTRL	CONTROL	PR	PAIR
CU	COPPER	PTS	PNEUMATIC TUBE STATION
D	DATA	PWR	POWER
DC	DIRECT CURRENT	QTY	QUANTITY
DED	DEDICATED	R	RACEWAY
DEV	DEVICE	RO	RACEWAY ONLY REFLECTED CEILING PLAN
DIV	DIVISION	RCP	RECEPTACLE
DN	DOWN	REF	REFRIGERATOR
DTS	DRAWN TO SCALE	SLV	SLEEVE
DW	DISHWASHER	SMR	SINGLEMODE SURFACE MOUNTED RACEWAY
DWG	DRAWING	SPECS	SPECIFICATIONS
EC	ELECTRICAL CONTRACTOR	SW	SWITCH
EDP	ENGINEERING DESIGN PROCESS	SWBD	SWITCHBOARD
EF	ENTRANCE FACILITY EQUIPMENT	TELECOM	TELECOMMUNICATIONS
ER	ROOM EMERGENCY SWITCH	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
EWC	ELECTRIC WATER COOLER	TP	TRAP PRIMER
FA	FIRE ALARM	TR	TELECOMMUNICATIONS ROOM
FB	FLOOR BOX	TV	TELEVISION
FBOIC	FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR	TYP	TYPICAL
FI	FILM ILLUMINATOR	UC	UNDER COUNTER
FO	FIBER OPTIC(AL)	UF	UNDER FLOOR
FOC	FACE OF COLUMN	UG	UNDER GROUND
G.GND	GROUND	UL	UNDERWRITERS' LABORATORIES
GD	GARBAGE DISPOSAL	UN	UNLESS OTHERWISE NOTED
GEN	GENERATOR	UTP	UNSHIELDED TWISTED PAIR
GFI,GFCI	GROUND FAULT CIRCUIT INTERRUPTER	V	VOLT OR VOICE
HH	HAND HOLE	VEL	VERIFY EXACT LOCATION
HP	HORSEPOWER	W	WIRE, WATT, OR WALLPHONE
HTR	HEATER	WAP	WIRELESS ACCESS POINT
IDF	INTERMEDIATE DISTRIBUTION FRAME	WP	WEATHERPROOF
IHW	INSTA-HOT WATER DISPENSER	WFM	TRANSFORMER
JB,J-BOX	JUNCTION BOX	Ø	PHASE
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LED	LIGHT EMITTING DIODE		
LS	LIFE SAFETY		
LTG	LIGHTING		

**SHEET LIST - PHASE 2**

DRAWINGS SHEET LIST	
SHEET NUMBER	SHEET NAME
E00-00	SYMBOLS AND ABBREVIATIONS
E00-01	SPECIFICATIONS
E00-02	WSEC COMPLIANCE FORMS
E10-00	OVERALL PHASING PLAN
E20-10	PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01
E20-11	PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01
E20-12	PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01
E21-10	PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01
E21-11	PHASE 2 - LIGHTING RCP - LEVEL 01
E21-12	PHASE 2 - POWER PLAN - LEVEL 01
E50-00	ONE-LINE DIAGRAM - EXISTING 12.47KV
E50-01	ONE-LINE DIAGRAM - EXISTING ESSENTIAL SYSTEM & FACILITY
E50-03-2	PHASE 2 - ONE-LINE DIAGRAM - D & TWING
E50-04-2	PHASE 2 - ONE-LINE DIAGRAM - NORTH CENTRAL & SOUTH WINGS
E50-07	EXISTING CAMPUS ONE-LINE FEEDER SCHEDULE
E80-02	PHASE 2 - EQUIPMENT COORDINATION SCHEDULES
E80-04	PHASE 2 - PANEL SCHEDULES & OVERALL LOAD CALCULATIONS

**Perkins&Will**

1301 5th Ave  
#2300, Seattle, WA 98101  
1-12063818000  
www.perkinswill.com

**CONSULTANTS**

FOOD SERVICE  
INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209

CIVIL  
AHL  
1200 6th Ave #1620,  
Seattle, WA 98101

STRUCTURAL  
PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104

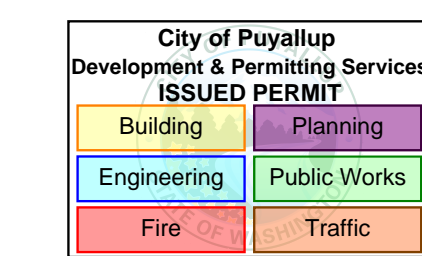
CONTRACTOR  
SELLEN  
227 Westlake Ave,  
Seattle, WA 98109

PLUMBING  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

MECHANICAL  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

ELECTRICAL  
EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168

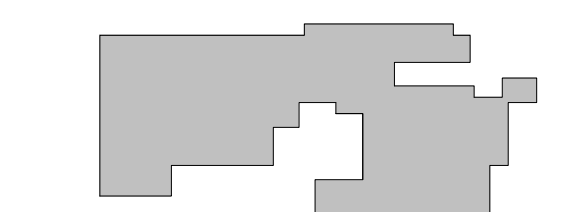
PROJECT MANAGER  
TURNER & TOWNSEND  
920 5th Avenue,  
Seattle, WA 98104



**MultiCare Good Samaritan Hospital Kitchen**  
401 15th Ave SE,  
Puyallup, WA 98372

MultiCare Good Samaritan Hospital  
**MULTICARE**

**KEY PLAN**



**ISSUE CHART**

0	PHASE 2 Revision 1	4/26/2026
1	CITY OF PUYALLUP POH SET	11/13/2025
2	AS1 01	11/14/25
1	LNI Correction Response	7/11/25
	ISSUE	DATE

Job Number B24-1111  
TITLE

**SYMBOLS AND ABBREVIATIONS**

**SHEET NUMBER**

**E00-00**

PRCT120251049  
REVISION (1) 4/29/2026  
Provide with original plans for reference.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.  
Full sized legible color plans are required to be provided by the permittee on site for inspection.

# ELECTRICAL SPECIFICATIONS:

## PART 1 - GENERAL

### 1.1 GENERAL CONDITIONS

- A. THE WORK UNDER THIS DIVISION INCLUDES FURNISHING ALL PERMITS, MATERIALS, EQUIPMENT, LABOR, SUPERVISION, TOOLS, EXPENSES, TRAVEL, AND ITEMS NECESSARY FOR THE CONSTRUCTION, INSTALLATION, CONNECTION, TESTING AND OPERATION OF ALL ELECTRICAL WORK FOR THIS PROJECT, AS INTENDED BY THE CONTRACT DOCUMENTS.
- B. THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND SPECIAL CONDITIONS ARE A PART OF THIS CONTRACT AND APPLY TO THIS SECTION AS FULLY AS IF REPEATED HEREIN.

### 1.2 SCOPE

- A. THE SCOPE OF THIS PROJECT INCLUDES A PHASED REMODEL OF EXISTING KITCHEN WHICH WILL INCLUDE ELECTRICAL CONNECTIONS TO NEW KITCHEN APPLIANCES, LIGHTING FIXTURES, AND HVAC EQUIPMENT IN AN EXISTING BUILDING, LIGHTING CONTROLS AND LOW VOLTAGE SYSTEMS WILL BE UPDATED IN THE REMODEL AREAS AS NECESSARY, AS A PART OF THIS EFFORT NEW ELECTRICAL DISTRIBUTION WILL BE ADDED AS NECESSARY TO SUPPORT ADDED LOAD.
- B. PROVIDE BRANCH POWER AND ASSOCIATED BRANCH CIRCUITING AND CONTROLS.
- C. PROVIDE ALL ASSOCIATED ELECTRICAL WORK AS REQUIRED TO EXTEND POWER CONNECTIONS TO NEW MECHANICAL EQUIPMENT.

### 1.3 CODES AND REGULATIONS

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND THE UTILITY FURNISHING SERVICES FOR THE SPECIFIC FACILITY LOCATION.
- B. CODES GOVERNING THIS WORK INCLUDE BUT ARE NOT LIMITED TO THE LATEST ADOPTED EDITION OF THE FOLLOWING:
- NFPA 70 (NATIONAL FIRE PROTECTION ASSOCIATION) NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY WASHINGTON CITIES (2023 WCC)
  - NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION) NATIONAL FIRE ALARM AND SIGNALING CODE
  - NFPA 101 (NATIONAL FIRE PROTECTION ASSOCIATION) LIFE SAFETY CODE
  - CITY OF PORT ORCHARD ORDINANCES AND REGULATIONS
  - WSEC - 2021 CIRCULARS

### 1.4 STANDARDS

- A. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE UNDERWRITER'S LABORATORIES LISTED AND INSTALLED IN ACCORDANCE WITH THE LISTING AND LABELING OF THE EQUIPMENT.
- B. INSTALLATION SHALL CONFORM TO THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) STANDARD OF INSTALLATION.

### 1.5 SUBMITTALS

- A. ELECTRONIC COPIES, IN .PDF FORMAT, OF MATERIALS LIST, SHOP DRAWINGS AND DATA SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. SUBMITTALS SHALL BE MADE, AND FAVORABLE REVIEW SECURED BEFORE MATERIAL AND EQUIPMENT IS INSTALLED.
- B. MATERIALS LIST SHALL INCLUDE: DEVICES, DISCONNECTS, LIGHT FIXTURES, LIGHTING CONTROL DEVICES AND OTHER ITEMS SPECIFIED OR CALLED FOR ON THE DRAWING. THE LIST SHALL INCLUDE MANUFACTURE, TYPE AND SUCH OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED TO DETERMINE THE ACCEPTABILITY OF EACH ITEM.
- C. SHOP DRAWINGS AND DATA SHEETS FOR EQUIPMENT AND SYSTEMS SHALL BE SUBMITTED WHERE REQUIRED IN THE SPECIFICATIONS FOR THOSE ITEMS, INCLUDE INFORMATION ON EACH COMPONENT, WIRING DIAGRAMS, LAYOUTS, DIMENSIONS AND SUFFICIENT OTHER DATA TO ESTABLISH COMPLIANCE WITH THE SPECIFICATIONS AND ACCEPTABILITY OF THE EQUIPMENT OR SYSTEM.
- D. SHOP DRAWINGS SHALL BE SUBMITTED IN EITHER HALF OR FULL SIZE AS FOLLOWS:

- HALF SIZE SHALL BE 18 INCHES BY 24 INCHES MINIMUM. MINIMUM HALF SIZE FONT HEIGHT SHALL BE 1/16 INCH. WIDTH SHALL BE PROPORTIONAL NO LESS THAN 70 PERCENT OF THE HEIGHT.
- FULL SIZE SHALL BE 30 INCHES BY 42 INCHES MINIMUM. MINIMUM FULL-SIZE FONT HEIGHT SHALL BE 1/8 INCH. WIDTH SHALL BE PROPORTIONAL NO LESS THAN 70 PERCENT OF THE HEIGHT.

- E. PROVIDE CLEARLY MARKED AND LEGIBLE DATA SHEETS FOR EACH ITEM OF EQUIPMENT BEING INSTALLED ON THE PROJECT. THIS SHALL INCLUDE EACH MAJOR REPLACEMENT COMPONENT THAT IS PART OF A LARGER ASSEMBLY. DATA SHEETS SHALL CLEARLY INDICATE:
- EQUIPMENT MANUFACTURER, MAKE, MODEL NUMBER, SIZE, NAMEPLATE DATA, ETC.
  - UL, FM, AND ETL LISTING AND CATEGORY.

- F. PROVIDE PRODUCT DATA AND SHOP DRAWINGS FOR THE FOLLOWING:
- PANELBOARDS
  - WIRING DEVICES
  - CIRCUIT BREAKERS AND DISCONNECTS
  - LIGHTING FIXTURES
  - LOW VOLTAGE LIGHTING CONTROLS

- 5.1. SHOW INSTALLATION DETAILS FOR OCCUPANCY AND LIGHT-LEVEL SENSORS.
- 5.2. LIGHTING PLAN SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH SENSOR. THIS PLAN SHALL TAKE INTO CONSIDERATION THE SIZE AND USE OF EACH SPACE AS WELL AS THE SPECIFIC CAPABILITIES OF SUBMITTED MANUFACTURER'S EQUIPMENT TO PROVIDE PROPER COVERAGE TO THE AREAS OF CONTROL.
- 5.3. INTERCONNECTION DIAGRAMS SHALL SHOW FIELD-INSTALLED WIRING.

- G. COMMISSIONING RESULTS: SUBMIT A COPY OF THE COMPLETED COMMISSIONING DOCUMENTS.

### 1.6 SUBSTITUTIONS

- A. NO SUBSTITUTIONS ARE ALLOWED. ALTERNATIVE MANUFACTURERS WILL BE CONSIDERED FOR ELECTRICAL EQUIPMENT SPECIFIED AND SHOWN HEREIN. THE SPECIFIED MANUFACTURER'S EQUIPMENT SETS THE LEVEL OF QUALITY FOR THE WORK. WORK AND EQUIPMENT NOT MEETING THE LEVEL OF QUALITY SHALL BE REJECTED. THE ENGINEER HAS DISCRETION TO ACCEPT OR REJECT THE ALTERNATIVE MANUFACTURER'S EQUIPMENT.

### 1.7 PERMITS AND DRAWINGS

- A. PERMITS AND INSPECTIONS SHALL BE OBTAINED, COORDINATED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- B. THE CONTRACTOR SHALL PAY ALL FEES AND TAXES FOR THE TOTAL COST OF CONSTRUCTION, INCLUDING CONTRACTOR AND OWNER FURNISHED MATERIALS AND EQUIPMENT AS SHOWN AND SPECIFIED.
- C. THE CONTRACTOR SHALL OBTAIN AND PAY THE PLAN REVIEW FEE.
- D. THE CONTRACTOR SHALL PAY FOR PLAN REVIEW FEES AND RE-INSPECTIONS RESULTING FROM SUBSTITUTIONS. FEES DUE TO SUBSTITUTIONS SHALL BE AT NO COST TO THE OWNER.
- E. THE CONTRACTOR SHALL INCLUDE APPLICABLE PLAN REVIEW FEES AND RE-INSPECTION FEES IN CHANGE ORDER PROPOSALS.

### 1.8 RECORD DRAWINGS

- A. ON A SET OF CONTRACT DRAWINGS KEPT AT THE SITE DURING CONSTRUCTION, MARK ALL WORK THAT IS INSTALLED DIFFERENTLY FROM THAT SHOWN, INCLUDE ANY REVISED CIRCUITRY, MATERIAL OR EQUIPMENT. UPON CONCLUSION OF THE WORK, DELIVER TO THE OWNER REPRESENTATIVE A SET OF SIGNED AND DATED "AS-BUILT" DRAWINGS IN CAD/REVIT AND PDF FORMAT.

### 1.9 WARRANTY

- A. ALL WORK SHALL INCLUDE A WARRANTY FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY THE OWNER. THE WARRANTY PERIOD FOR CERTAIN ITEMS SHALL BE LONGER, AS INDICATED IN THE SPECIFICATIONS FOR THOSE ITEMS.
- B. SHOULD ANY MALFUNCTION DEVELOP DURING THE WARRANTY TIME PERIOD DUE TO DEFECTIVE MATERIAL, FAULTY WORKMANSHIP, OR NON-COMPLIANCE WITH PLANS, SPECIFICATIONS, CODE OR DIRECTIONS OF THE OWNER OR OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE MALFUNCTION AT NO ADDITIONAL COST TO THE OWNER.

## PART 2 - PRODUCTS

### 2.1 MATERIAL

- A. MATERIALS SHALL BE NEW, FREE OF DEFECTS AND OF CURRENT MANUFACTURE. EXISTING MATERIALS SHALL NOT BE REUSED UNLESS SPECIFICALLY NOTED OTHERWISE.

### 2.2 WIRE AND CABLE (600 VOLT AND LESS)

- A. PRODUCTS SHALL COMPLY WITH UL 44 AND UL 83 SINGLE CONDUCTOR INSULATED WIRE.
- B. WIRE AND CABLE FOR USE ON SYSTEMS OF 600 VOLTS AND LESS SHALL BE 600 VOLT WITH NEC TYPE THHN/THWN OR XHHW INSULATION FOR BRANCH CIRCUITS AND FEEDERS. 75 DEGREE INSULATION SHALL BE USED TO DETERMINE AMPACITY FOR #2AWG AND LARGER FEEDER CONDUCTORS.
- USE TYPE THHN/THWN CONDUCTORS FOR ALL BRANCH POWER AND LIGHTING CIRCUITS.
  - USE TYPE XHHW IN AMBIENT TEMPERATURES BELOW 32°F. USE TYPE XHHW-2 FOR ALL WIRING CONNECTED TO GFCI BREAKERS
  - USE OF MC OR HCF-MC CABLE NOT ALLOWED.

- C. ALL CONDUCTORS SMALLER THAN 100A SHALL BE COPPER.

- D. ALL GROUNDING CONDUCTORS SHALL BE INSULATED.

### 2.3 RACEWAY AND BOXES

- A. RIGID STEEL CONDUIT, ZINC COATED; ANSI C80.1: ALL FITTINGS SHALL BE SCREW THREAD TYPE, COUPLINGS, LOCKNUTS, BUSHINGS, ETC. SHALL BE HOT DIPPED GALVANIZED.
- B. ELECTRICAL METALLIC TUBING, ZINC COATED; ANSI C80.3: COUPLINGS AND CONNECTORS SHALL BE STEEL GALVANIZED, COMPRESSION TYPE WITH GLAND SEALING RINGS.
- C. FLEXIBLE METAL CONDUIT: UL 1: FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED STEEL OR ALUMINUM, WHERE EXPOSED TO DAMP OR WET LOCATIONS FLEXIBLE CONDUIT SHALL BE LIQUID-TIGHT WITH OUTER SUITABLE LIQUID-TIGHT FITTINGS LISTED FOR THE PURPOSE.
- D. OUTLET AND JUNCTION BOXES: OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED, ONE-PIECE PRESSED OR WELDED STEEL, KNOCKOUT TYPE EXCEPT AS OTHERWISE NOTED OR SPECIFIED.
- E. PROVIDE FIRE-STOPPING WHERE CONDUIT PASSES THROUGH A RATED ASSEMBLY.

### 2.4 WIRING DEVICES (PROVIDE DEVICES PER DRAWINGS)

- A. RECEPTACLES:
- PROVIDE 20 AMP RECEPTACLES IN ALL CONVENIENCE AND DEDICATED LOCATIONS, PLUG TAIL ACCEPTABLE.
  - ALL RECEPTACLES SHALL BE HOSPITAL GRADE.
  - RECEPTACLES COVERS TO BE STAINLESS STEEL TYPE OR AS APPROVED BY OWNER.
4. GROUND PINEUTRAL LOCATION TO BE CONSISTENT WITH FACILITY IN ALL RENOVATION OR EXPANSION PROJECTS, AND FOR NEW PROJECTS SHALL BE GROUND PIN DOWN.
- HEAVY DUTY SPECIFICATION GRADE.
  - TAMPER PROOF IN PUBLIC AREAS.

- B. SWITCH COVER PLATES TO BE STAINLESS STEEL TYPE OR AS APPROVED BY OWNER.

### C. CIRCUITING:

- CONVENIENCE DUPLEX RECEPTACLES - MAXIMUM OF SIX PER 20A CIRCUIT.
- HOMERUN CONDUIT - MAXIMUM 4 CIRCUITS.
- POWER AND LIGHTING SHALL NOT BE ON THE SAME CIRCUITS (EXCEPT UNDER-CABINET LIGHTING).
- 480/277V BRANCH CIRCUIT WIRING SHALL BE IN SEPARATE CONDUITS FROM 208/120V CIRCUIT WIRING.

### 2.5 FUSIBLE SWITCHES

- A. TYPE GD, GENERAL DUTY, SINGLE THROW, 100 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CARTRIDGE FUSE INTERIORS, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

- B. TYPE HD, HEAVY DUTY, SINGLE THROW, LARGER THAN 100 AMP: UL 98 AND NEMA KS 1, HORSEPOWER RATED, WITH CLIPS OR BOLT PADS TO ACCOMMODATE FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

- C. ACCESSORIES:
- CLASS R FUSE KIT: PROVIDES REJECTION OF OTHER FUSE TYPES WHEN CLASS R FUSES ARE SPECIFIED.

### 2.6 NONFUSIBLE SWITCHES

- A. TYPE GD, GENERAL DUTY, SINGLE THROW, 100 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

- B. TYPE HD, HEAVY DUTY, SINGLE THROW, LARGER THAN 100 AMP: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

- C. TYPE HD, HEAVY DUTY, DOUBLE THROW, 1200 A AND SMALLER: UL 98 AND NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

### 2.7 TOGGLE SWITCHES

- A. COMPLY WITH NEMA WD 1, UL 20, AND FS W-S-896.
- B. SWITCHES, 120/277V, 20A:

- DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS.
- THREE-WAY DIMMER: PROVIDES MULTI-LOCATION CAPABILITY USING STANDARD 3-WAY AND 4-WAY MECHANICAL SWITCHES.
- CONTROL: CONTINUOUSLY ADJUSTABLE PADDLE SWITCH WITH SINGLE-POLE OR 3-WAY SWITCHING, COMPLY WITH UL 1472.
- LED LAMP DIMMER SWITCHES: MODULAR; COMPATIBLE WITH DRIVERS AND FIXTURE LOAD. TRIM POTENTIOMETER TO ADJUST LOW-END DIMMING; DIMMER-DRIVER INTEGRATION CAPABLE OF CONSISTENT DIMMING WITH LOW END DESCRIBED IN THE FIXTURE SCHEDULE.

### 2.8 INDOOR OCCUPANCY SENSORS

- A. GENERAL OPERATION
- OCCUPANCY SENSOR SYSTEM SHALL SENSE THE PRESENCE OF HUMAN ACTIVITY WITHIN THE DESIRED SPACE AND FULLY CONTROL THE ON/OFF FUNCTION OF THE LOADS AUTOMATICALLY. SENSORS SHALL TURN ON THE LOAD WITHIN 2 FEET OF ENTRANCE AND SHALL NOT INITIATE "ON" OUTSIDE OF ENTRANCE.

### B. SWITCH-BOX OCCUPANCY SENSORS

#### 1. GENERAL

- SENSOR MUST NOT PROTRUDE OUT FROM THE COVER PLATE MORE THAN 0.37 INCHES, AND RECESS INTO THE SWITCH BOX MORE THAN 1 INCH. SENSOR MUST SURFACE MOUNT TO SINGLE GANG SWITCH BOX AND ACCEPT ACCESSORY PLATES FOR MULTI-GANG INSTALLATIONS. SENSOR MUST PROVIDE AN OFF/AUTO OVERRIDE SWITCH (2 SWITCHES IF 2-POLE DEVICE).
  - OPTIONAL 2-POLE UNITS MUST BE AVAILABLE. MANUAL OR AUTO ON SHALL BE CONFIGURABLE FOR BOTH POLES.
2. DUAL TECHNOLOGY (DT)
- SENSING MUST INCORPORATE PIR WITH ULTRASONIC MONITORING. BOTH PIR AND ULTRASONIC MOTION SENSING SHALL INITIATE AN ON CONDITION AND EITHER TECHNOLOGY SENSING MOTION SHALL KEEP THE ON STATE.
  - EITHER TECHNOLOGY SHALL BE ABLE TO BE DISABLED DURING COMMISSIONING IF NECESSARY FOR THE SPECIFIC APPLICATION.

#### A. CEILING OR WALL MOUNTED OCCUPANCY SENSORS

##### 1. GENERAL

- SENSOR SHALL BE CEILING OR WALL MOUNTED DEVICE, MOUNTED TO EITHER A SINGLE GANG ENCLOSURE, OR SURFACE MOUNTED TO A ROUND SURFACE RACEWAY PANCAKE BOX.
  - DETECTION COVERAGE OPTIONS SHALL INCLUDE COVERAGE AREAS OF A RANGE OF CIRCULAR AREAS FROM 600 SQ. FT. TO 2000 SQ. FT.
2. DUAL TECHNOLOGY (DT)
- SENSING MUST INCORPORATE PIR WITH ULTRASONIC. BOTH PIR AND ULTRASONIC MOTION SENSING SHALL INITIATE AN ON CONDITION AND EITHER TECHNOLOGY SENSING MOTION SHALL KEEP THE ON STATE.

### 2.9 DAYLIGHT-HARVESTING DIMMING CONTROLS

- A. SYSTEM DESCRIPTION: SENSING DAYLIGHT AND ELECTRICAL LIGHTING LEVELS, THE SYSTEM SHALL ADJUST THE INDOOR ELECTRICAL LIGHTING LEVELS. AS DAYLIGHT INCREASES, THE LIGHTS SHALL BE DIMMED.
- B. PHOTO SENSORS SHALL PROVIDE AN ON-SET POINT AND A SEPARATE OFF SET POINT, THEREBY CREATING A DEAD BAND TO PREVENT UNNECESSARY CYCLING OF THE ELECTRIC LIGHTS. SET POINT SETTING SHALL BE VERIFIED WITH A DIGITAL VOLT METER CONNECTED TO TEST LEADS PROVIDED BY THE SENSOR. SENSOR SHALL SEND AN ELECTRONIC, LOW VOLTAGE SIGNAL TO A REMOTE POWER PACK OR OTHER CONTROL DEVICE WHICH IS DIRECTLY CONNECTED TO THE LOAD. FOOTCANDLE LEVEL SHALL BE SET 30 FC (300 LUX) OR AS NOTED IN DOCUMENTS.

### 2.10 STAND ALONE ROOM AUTOMATIC CONTROLS

#### A. INTELLIGENT ROOM CONTROLLERS

- ROOM CONTROLLERS MUST BE DESIGNED TO POWER AND ACCEPT SIGNALS FROM REMOTE LOW VOLTAGE SENSORS, OR OTHER CONTROL DEVICES, AND DIRECTLY SWITCH THE LINE VOLTAGE OF THE DESIRED LOAD CONTROLLED.
- ROOM CONTROLLERS MUST ACCEPT 120, 240, OR 277 VAC UTILIZING A DIAL TAP TRANSFORMER.
- ROOM CONTROLLERS SHALL ALLOW POWER FOR AUXILIARY DEVICES, DEPENDING ON MODEL.
- ROOM CONTROLLER SHALL EMPLOY ZERO CROSS CIRCUITRY FOR EACH LOAD, AND SHALL BE CAPABLE OF SWITCHING A 20A LOAD AND DIMMING 0-10V LOADS. IN ADDITION, CONTROLLERS SHALL BE CAPABLE OF DIMMING ALTERNATE METHODS, INCLUDING BUT NOT LIMITED TO INCANDESCENT DIMMING, MAGNETIC LOW VOLTAGE, FORWARD PHASE OR REVERSE PHASE LED DRIVERS, AND DIMMABLE TWO-WIRE AND ONE-WIRE LOADS.
- ROOM CONTROLLERS SHALL HAVE 1, 4, BUT NO MORE THAN A 20A LOAD PER DEVICE.

#### B. ROOM CONTROL COMPONENTS

- PROVIDE ALL COMPONENTS, (INCLUDING BUT NOT LIMITED TO) OCCUPANCY SENSORS, PHOTOCELLS AND WALL CONTROLS AS SHOWN ON DRAWINGS AND/OR IN CONTROLS MATRIX.

### 2.11 UL 924 BI-PASS DEVICE

- A. THE EMERGENCY LIGHTING CONTROL UNIT (ELCU) SHALL PROVIDE ALL REQUIRED FUNCTIONALITY TO ALLOW ANY STANDARD LIGHTING CONTROL DEVICE TO CONTROL EMERGENCY LIGHTING IN CONJUNCTION WITH NORMAL LIGHTING IN ANY AREA WITHIN A BUILDING.

- B. THE DEVICE SHALL HAVE AN INTEGRAL TOP MOUNTED MOMENTARY TEST SWITCH. PRESSING AND HOLDING THIS SWITCH SHALL INSTANTLY FORCE THE UNIT INTO EMERGENCY MODE AND TURN ON EMERGENCY LIGHTING. RELEASING THE TEST SWITCH SHALL IMMEDIATELY RETURN THE UNIT TO NORMAL OPERATION.

- C. UNIT HOUSING SHALL BE UL94 V-0 PLENUM RATED AND SHALL BE EQUIPPED WITH COMPRESSION WIRE TERMINALS RATED FOR #14 - #12 SOLID OR STRANDED COPPER WIRE.

- D. THE UNIT SHALL BE UL AND CUL LISTED AND LABELED FOR CONNECTION TO BOTH NORMAL AND EMERGENCY LIGHTING POWER SOURCES.

### 2.12 PHOTO SENSORS

- A. THE PHOTO SENSOR SHALL INTERFACE WITH MULTI-INPUT DIGITAL ADDRESSABLE DIMMING DRIVERS. DIMMING SENSOR SHALL CONNECT DIRECTLY TO THE DRIVER OR MODULE WITH A LOW VOLTAGE WIRES. PHOTO SENSING ELEMENT SHALL BE A PHOTOELECTRIC SENSOR. SENSORS SHALL BE CLOSED LOOP FOR SINGLE ZONE CONTROL OR OPEN LOOP FOR MULTI-ZONE CONTROL.

### 2.13 CONDUCTORS AND CABLES

- A. POWER WIRING TO SUPPLY SIDE OF REMOTE-CONTROL POWER SOURCES: NOT SMALLER THAN NO. 12 AWG, COMPLYING WITH SECTION 26819.9 - LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.
- B. CLASSES 2 AND 3 CONTROL CABLE: MULTICONDUCTOR CABLE WITH STRANDED COPPER CONDUCTORS NOT SMALLER THAN NO. 22 AWG, COMPLYING WITH SECTION 26819.9 - LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES. PROVIDE PLENUM RATED AS REQUIRED.

### 2.14 ENCLOSURES

- A. ENCLOSED SWITCHES AND CIRCUIT BREAKERS: NEMA AB 1, NEMA KS 1, NEMA 250, AND UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
- INDOOR, DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1.
  - OUTDOOR LOCATIONS: NEMA 250, TYPE 3R.
  - WASH-DOWN AREAS: NEMA 250, TYPE 4X, STAINLESS STEEL.
  - OTHER WET OR DAMP, INDOOR LOCATIONS: NEMA 250, TYPE 4.
  - INDOOR LOCATIONS SUBJECT TO DUST, FALLING DIRT, AND DRIPPING NONCORROSIVE LIQUIDS: NEMA 250, TYPE 12.

### 2.15 GROUNDING

- A. PROVIDE COPPER GROUNDING.
- B. PROVIDE DEDICATED NEUTRAL (NO SHARED NEUTRALS) WITH ALL BRANCH CIRCUITS IN EACH CONDUIT. USE OF MULTI-POLE BREAKERS OR BREAKER TIES IN LIEU OF DEDICATED NEUTRALS IS NOT PERMITTED.

- C. ALL CONDUITS WILL BE PROPERLY BONDED WITH INSULATED GROUND WIRE RUN WITH CONDUCTORS.

- D. ALL PANELS AND TRANSFORMERS MUST HAVE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR IN ADDITION TO ELECTRODE OR BUILDING GROUNDS AS REQUIRED PER CODE.

### 2.16 CIRCUIT BREAKERS

- D. CIRCUIT BREAKERS SHALL BE THE SAME MANUFACTURER AS THE PANELBOARD OR SWITCHBOARD IN WHICH THEY ARE INSTALLED.
- E. CIRCUIT BREAKERS SHALL BE MOLDED-CASE BOLT-ON TYPE. PLUG-IN TYPES ARE NOT ACCEPTABLE. MULTI-POLE BREAKERS SHALL HAVE INTERNAL TRIP AND SINGLE HANDLE OPERATION.
- F. PROVIDE ALL NECESSARY MOUNTING HARDWARE, ACCESSORIES AND CLOSURE DEVICES AS NECESSARY.
- G. SHORT CIRCUIT INTERRUPTING CAPACITY SHALL BE AS INDICATED ON PLANS OR TO MATCH RATING OF THE EXISTING PANELBOARD INTO WHICH THE CIRCUIT BREAKER IS TO BE INSTALLED.

### 2.17 PANELBOARDS

#### A. MANUFACTURERS:

- SCHNEIDER ELECTRIC (SQARE-D)
- EATON (CUTLER-HAMMER)
- SIEMENS
- GENERAL ELECTRIC
- ABB

- B. CONSTRUCTION: GALVANIZED STEEL ENCLOSURE, MANUFACTURES STANDARD GRAY PAINT, BOLT ON CIRCUIT BREAKER, COPPER BUS. SURFACE MOUNTED WITH DOOR-IN-DOOR COVER.

- C. CIRCUIT BREAKERS: MOLDED CASE, NEMA AB 1, BOLT ON TYPE WITH INTEGRAL THERMAL AND INSTANTANEOUS TRIP IN EACH POLE (COMMON TRIP).

- D. PROVIDE ARC FLASH STICKERS ON ALL NEW EQUIPMENT.

### 2.18 EQUIPMENT IDENTIFICATION

- A. PANELBOARDS: PER BUILDING STANDARDS. MATCH EXISTING NAMING CONVENTION

- B. RECEPTACLES AND LIGHT SWITCHES: PRINTED LABEL WITH (PANEL) NAME AND CIRCUIT NUMBER. (EXAMPLE: "PP4-23" FOR PANEL PP4, CIRCUIT 23) NORMAL POWER: 1/4" BLACK LETTERS EMERGENCY POWER: 1/4" RED LETTERS

## PART 3 - EXECUTION

### 3.1 INSTALLATION OF ELECTRICAL EQUIPMENT

- A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, NECA STANDARD OF INSTALLATION AND IN ACCORDANCE WITH THE UL LISTING FOR THE EQUIPMENT OR MATERIAL.
- ALL DISCONNECTS, FUSES, CIRCUIT BREAKERS SHALL BE PROVIDED AS INDICATED AND FOR PROPER PROTECTION OF THE EQUIPMENT SERVED. PROVIDE ALL FLEXIBLE CONDUIT, BOXES, PULL BOXES, FITTINGS, SEALS, AND OTHER MATERIALS REQUIRED FOR A COMPLETE AN OPERATIONAL SYSTEM. THE WORK UNDER THIS DIVISION INCLUDES FURNISHING ALL PERMITS, MATERIALS, EQUIPMENT, LABOR, SUPERVISION, TOOLS AND ITEMS NECESSARY FOR THE CONSTRUCTION, INSTALLATION, CONNECTION, TESTING AND OPERATION OF ALL ELECTRICAL WORK FOR THIS PROJECT, AS INTENDED BY THE CONTRACT DOCUMENTS.

### 3.2 INSTALLATION OF RACEWAY AND FITTINGS

- A. INSTALL RIGID STEEL CONDUIT WHERE EXPOSED TO WEATHER, PLACED UNDERGROUND, IN OR UNDER CONCRETE OR MASONRY CONSTRUCTION, IN CONTACT WITH EARTH AND AS INDICATED ON PLANS.

- B. EMT MAY BE USED IN ABOVE GRADE INTERIOR DRY LOCATIONS AND WHERE PROTECTED FROM PHYSICAL DAMAGE.

- C. FLEXIBLE METAL CONDUIT SHALL BE USED WHERE REQUIRED TO MAKE CONNECTIONS TO VIBRATING OR ROTATING EQUIPMENT.

- D. ALL RIGID STEEL CONDUIT INSTALLED IN CONTACT WITH EARTH SHALL BE PVC COATED OR OTHERWISE PROTECTED WITH A BITUMATOUS MATERIAL.

- E. MINIMUM SIZE OF CONDUIT SHALL BE CODE SIZE FOR THE NUMBER AND SIZE OF CONDUCTORS UNLESS A LARGER SIZE IS INDICATED ON THE PLANS.

- F. WHERE PENETRATIONS ARE MADE THROUGH PARTITIONS, PROVIDE SEALING MATERIAL TO MAINTAIN THE FIRE RATING OF THE PARTITION. FOR EXTERIOR WALLS PROVIDE SLEEVES AND SEALING TO PREVENT WATER AND MOISTURE PENETRATION AND TO PREVENT VERMIN AND INSECT INTRUSION.

### 3.3 INSTALLATION OF CONDUCTORS AND EQUIPMENT CONNECTIONS

- A. ALL WIRING SHALL BE INSTALLED IN CONDUIT, WIREWAYS, OR GUTTERS EXCEPT WHERE OTHER RACEWAY SYSTEMS ARE SPECIFICALLY CALLED FOR.

- B. INSTALL WIRING ONLY AFTER RACEWAY INSTALLATION HAS BEEN COMPLETED CLEANED AND DRIED.

- C. PULLING LUBRICANTS APPROVED BY THE WIRE OR CABLE MANUFACTURE MAY BE UTILIZED.

- D. MAKE ALL CONNECTIONS AND SPLICES REQUIRED FOR COMPLETE AND OPERABLE ELECTRICAL INSTALLATION. CONNECTIONS AND SPLICES SHALL BE MADE ONLY IN JUNCTION, PULL OR OUTLET BOXES OR IN WIREWAYS, SWITCHBOARDS AND PANELBOARDS HAVING CODE SIZED GUTTER SPACE OR CROSS-SECTIONAL AREA. WIRES #8 AND SMALLER CONNECTIONS SHALL BE MADE WITH SPRING TYPE CONNECTORS; WIRES #6 AND LARGER, CONNECTIONS SHALL BE MADE WITH SPLIT-BOLT OR COMPRESSION TYPE SOLDERLESS CONNECTORS, INSULATED AND TAPED.

- E. UPON COMPLETION OF WORK, UPDATED ALL PANEL DIRECTORIES WITH CORRECT CIRCUIT INFORMATION. PROVIDE PRINTED CIRCUIT DIRECTORIES IN PANELS AFFECTED BY THE PROJECT. PEN AND INK CHANGES TO THE EXISTING DIRECTORIES ARE NOT ACCEPTABLE.

### 3.4 SENSOR INSTALLATION

- A. COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, FIRE-SUPPRESSION SYSTEMS, IT SYSTEMS, AV AND PARTITION ASSEMBLIES.
- B. INSTALL AND AIM SENSORS IN LOCATIONS TO ACHIEVE AT LEAST 90 PERCENT COVERAGE OF AREAS INDICATED. INSTALL SENSORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT EXCEED COVERAGE LIMITS SPECIFIED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.

### 3.5 DEVICE INSTALLATION

- A. DIMMERS:
- INSTALL DIMMERS WITHIN TERMS OF THEIR LISTING AND PER MANUFACTURER'S DEVICE LISTING CONDITIONS IN THE WRITTEN INSTRUCTIONS

### 3.6 WIRING INSTALLATION

- A. WIRING WITHIN ENCLOSURES: COMPLY WITH NECA 1. SEPARATE POWER-LIMITED AND NONPOWER-LIMITED CONDUCTORS ACCORDING TO CONDUCTOR MANUFACTURER'S WRITTEN INSTRUCTIONS.

- B. PROVIDE PLENUM RATED CABLING FOR ALL CABLES INSTALLED IN RETURN AIR PLENUMS.

- 3.7 SYSTEM STARTUP AND COMMISSIONING
- A. COMMISSIONING SHALL TAKE PLACE PRIOR TO DEMONSTRATION OF SYSTEM TO OWNER AND SHALL COMPLY WITH ENERGY CODE REQUIREMENTS.

### 3.8 GROUNDING

- A. PERMANENTLY AND EFFECTIVELY GROUND ALL CONDUIT, BOXES, ENCLOSURES AND EQUIPMENT TO COMPLY WITH NEC 250 AND ALL APPLICABLE CODES AND REGULATIONS.

- B. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS SIZED IN ACCORDANCE WITH NEC TABLE 250.122 WHETHER SPECIFICALLY CALLED FOR ON THE PLANS OR NOT.

### 3.9 PROTECTION OF PREMISES

- A. CONTRACTOR SHALL CLEAN WORK AREA AND REMOVE ALL CONSTRUCTION DEBRIS DAILY PRIOR TO LEAVING THE PREMISES.

- B. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES, MATERIALS, EQUIPMENT AND PROPERTY FROM DAMAGE AS RESULT OF CONSTRUCTION ACTIVITIES. DAMAGED SURFACES, MATERIALS, EQUIPMENT AND PROPERTY SHALL BE REPAIRED TO EXISTING CONDITIONS AT NO COST TO THE OWNER.

### 3.10 TESTING OF ELECTRICAL SYSTEMS

- A. EQUIPMENT INSTALLED OR MODIFIED UNDER THIS SECTION SHALL BE INSPECTED AND TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE NETA ACCEPTANCE TESTING STANDARDS.

- B. SYSTEMS SHALL BE TESTED FOR SHORT CIRCUITS, OPEN CIRCUITS, PHASE ROTATION AND SHALL BE FREE FROM MECHANICAL AND ELECTRICAL DEFECTS.

- C. THE CONTRACTOR SHALL CORRECT DEFICIENCIES AND PROVIDE RETESTING AT NO EXPENSE TO THE OWNER AND ENGINEER UNTIL THE EQUIPMENT AND SYSTEM IS SATISFACTORY TO THE OWNER AND THE ENGINEER.

### 3.11 DIVISION 27 LOW VOLTAGE INSTALLATION

- A. PATHWAYS FOR DIVISION 27 TO COMPLY WITH SECTION 2.3.
- B. DIV 27 CONTRACTOR TO PROVIDE CAT-6 BASED CABLING SYSTEM, INCLUDING CABLING, CONNECTORS, PATCH PANELS, OUTLETS AND ALL COMPONENTS NECESSARY FOR A COMPLETE SYSTEM. REFER TO SYSTEM PLANS FOR QUANTITY AND LOCATION OF LOW VOLTAGE CONNECTIONS.

- C. ALL LOW VOLTAGE CABLING TO TERMINATE IN IDF ROOMS AS INDICATED PER PLANS, UNLESS OTHERWISE DIRECTED BY OWNER'S IT TEAM.

- D. CLASS 2 LOW VOLTAGE CABLES MAY BE ROUTED IN FREE-AIR.

- E. FOR ALL TELECOM OUTLETS PROVIDE A 4-SQUARE BOX WITH SINGLE GANG MUD-RING. PROVIDE 1" CONDUIT FROM BOX UP TO ACCESSIBLE CEILING SPACE ABOVE.

- F. COORDINATE LABELING REQUIREMENTS WITH OWNER. AT MINIMUM LABEL ALL OUTLETS WITH A TAG THAT IDENTIFIES IDF ROOM, PATCH PANEL, AND A JACK NUMBER.

- G. PROVIDE CODE COMPLAINT GROUNDING, WITH BONDING WIRE FROM ALL COMM EQUIPMENT (RACKS, CABLE TRAYS, CONDUITS) TO THE NEAREST GROUND BAR. WIRE SIZE AS INDICATED PER DRAWINGS.

- H. PROVIDE HORIZONTAL SUPPORTS FOR LOW VOLTAGE CABLING. J-HOOKS SHALL BE SPACED AT NO MORE THAN 4 FEET ON CENTER.

- 3.12 GENERAL NOTES:
- COMPLY WITH NEC AS ADOPTED AND AMENDED BY LOCAL AHJ.
  - ALL EXISTING WORK IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT.

- ALL SCOPE NOT IDENTIFIED FOR DEMOLITION OR MODIFICATIONS IS EXISTING TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR DEMOLITION SCOPE OF WORK.

- ALL WORK SHALL BE DONE WITH MAXIMUM CARE EXERCISED DURING DEMOLITION AND MODIFICATIONS PROCESS. ANY ACCIDENTAL OR INTENTIONAL DAMAGE TO EQUIPMENT TO REMAIN SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

- UNLESS OTHERWISE REQUESTED BY THE OWNER ALL REMOVED ELECTRICAL EQUIPMENT, DEVICES, AND MATERIALS SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR.

- ALL WORK SHALL BE DONE ON DE-

**WSEC COMPLIANCE FORMS:**

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LIGHTING COMPLIANCE SUMMARY					
2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 <span style="float: right;">Administered by: ©2021 NEEA, All rights reserved.</span>					
<b>Project &amp; Applicant Information</b>		<b>Project Title</b>	<b>For Building Department Use</b>		<b>Date:</b> Jun 26, 2025
		<b>Project Address</b>			
		<b>Applicant Name</b>			
		<b>Applicant Phone</b>			
		<b>Applicant Email</b>			
For questions about this report, contact WSEC, Commercial Technical Support at 360-539-5300 or via email at <a href="mailto:comtechsupport@waenergycodes.com">comtechsupport@waenergycodes.com</a>					
<b>General Occupancy</b>	All Commercial	<b>General Building Use Type</b>	Healthcare, Hospital	<b>Building Cond. Floor Area</b>	46,000
<b>General Project Types</b>	Alteration	<b>New Building or Addition Lighting Scope</b>	Alteration Lighting Scope	<b>Project Cont. Floor Area</b>	16,580
<b>Lighting Project Description</b>	Kitchen and supporting areas remodel.				
<b>Lighting Compliance Scope and Method</b>	<b>Project Type</b>	<b>Interior / Exterior (Interior includes both interior &amp; parking)</b>	<b>Luminaire Replacement Scope</b>	<b>Compliance Method</b>	<b>LPA Calculation Adjustment</b>
<b>Additional Energy Efficiency (AEC) Measures Included</b>	Alteration	Interior Lighting	20% or more replaced	Space by space	No Calculation Adjustments allowed
	No lighting or electrical additional energy efficiency measures included in project.		<b>Load Management (LDM) Measures Included</b>	No lighting or electrical load management measures included in project.	
<b>Project Title</b>	MC Goo Samaritan Hospital Kitchen Renovation - 2021 WSEC				<b>Date</b>
<b>Lighting Power Calculation</b>	ALTERATION - INTERIOR LIGHTING (20% or more replaced)				<b>COMPLIES</b>
<b>Compliance Method</b>	Space by space		<b>LPA Calculation Adjustment</b>	none	
<b>Interior Lighting Power Allowance - Space by Space</b>					
<b>General Space Type</b>	<b>Specific Space Type</b>	<b>Gross Interior Area (SF)</b>	<b>LPA (Watts/SF)</b>	<b>Total Watts Allowed (SF x LPA x 1.1)</b>	<b>Total Proposed Watts (LFP + Display LFP)</b>
Corridors	General	1,880	0.41	771	
Corridors	General	355	0.41	146	
Food preparation		1,855	1.00	2,023	
Food preparation		2,825	1.00	3,079	
Food preparation		820	1.00	894	
Locker room		135	0.52	65	
Lounge/breakroom	General	1,615	0.50	803	
Office	Enclosed - 250 sf	175	0.74	130	
Office	Enclosed - 250 sf	210	0.74	155	
Office	Enclosed - 250 sf	555	0.74	411	
Office	Enclosed - 250 sf	260	0.66	238	
Office	Open plan	200	0.61	119	
Office	Open plan	330	0.61	199	
Storage room	General	1,315	0.20	260	
Storage room	General	950	0.38	361	
Storage room	50-100 sf	106	0.38	40	
Workshop		230	1.20	277	
				<b>Proposed Total LFP</b>	<b>6,766</b>

[https://waenergycodes.com/print\\_project\\_summary\\_form.php?k=aWQ9MzQ0NjlmZnZpPTZlJmJkZVVPTE=&debug=1](https://waenergycodes.com/print_project_summary_form.php?k=aWQ9MzQ0NjlmZnZpPTZlJmJkZVVPTE=&debug=1) 1/2

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Proposed Lighting Power Density					
<b>Fixture Type</b>	<b>Fixture ID</b>	<b>Quantity of Fixtures (#)</b>	<b>Watts or Watts Limit per Fixture (WpF)</b>	<b>Total Linear Feet (LF)</b>	<b>Watts per Linear Foot (WpLF)</b>
<b>Individual Fixtures</b>					<b>Total Watts Proposed (WpF x Qty) or (LF x WpLF)</b>
Troffer	L4	41	50		2,050
Troffer	L3	38	50		1,900
Troffer	L2	77	28		2,156
Troffer	L1	30	22		660
					<b>Proposed Total LFP</b>
					<b>6,766</b>

Proposed Fixtures Details					
<b>Fixture Type/Application</b>	<b>Fixture ID</b>	<b>Location in Documents</b>	<b>Lamp Type</b>	<b>New or Existing-to-Remain</b>	
<b>Individual Fixtures</b>					
Troffer	L4	LIGHTING PLANS	LED	New	
Fixture Description: NEW STAR LIGHTING SC24MR OC-L24C-1A-UN (GRID FLANGE)					
Do these fixtures require specific application lighting controls? - None required					
Troffer	L3	LIGHTING PLANS	LED	New	
Fixture Description: NEW STAR LIGHTING SC24MR OC-L24C-1A-UN (GRID FLANGE)					
Do these fixtures require specific application lighting controls? - None required					
Troffer	L2	LIGHTING PLANS	LED	New	
Fixture Description: EATON - METALIX 24CCTS-L2-1-00-5300K					
Do these fixtures require specific application lighting controls? - None required					
Troffer	L1	LIGHTING PLANS	LED	New	
Fixture Description: EATON - METALIX 24CCTS-L2-1-00-5300K					
Do these fixtures require specific application lighting controls? - None required					

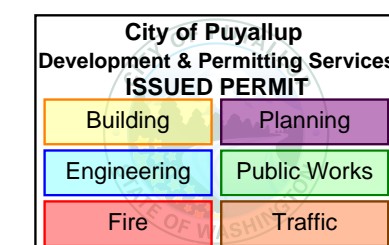
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**Perkins&Will**

1301 5th Ave  
#2300 Seattle  
WA 98101  
1+12063818000  
[www.perkinswill.com](http://www.perkinswill.com)

**CONSTRUCTANTS**

- FOOD SERVICE
- INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209  
CIVIL
- AHBL  
1200 6th Ave #1620  
Seattle, WA 98101
- STRUCTURAL
- PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104
- CONTRACTOR
- SELEN  
227 Westlake Ave,  
Seattle, WA 98109
- PLUMBING
- MACDONALD MILLER  
1004 Madison St.  
Seattle, WA 98104
- MECHANICAL
- MACDONALD MILLER  
1004 Madison St.  
Seattle, WA 98104
- ELECTRICAL
- EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168
- PROJECT MANAGER
- TURNER & TOWNSEND  
920 5th Avenue,  
Seattle, WA, 98104

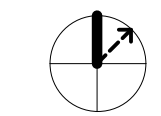
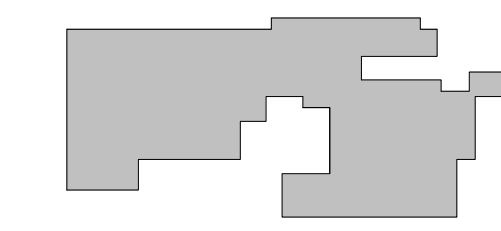


**MultiCare  
Good Samaritan  
Hospital Kitchen**  
401 15th Ave SE,  
Puyallup,  
WA 98372



100% CD SET 06/30/2025

**KEY PLAN**



**ISSUE CHART**

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS1 01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	ISSUE	2025
Job Number	B24-1111	

TITLE

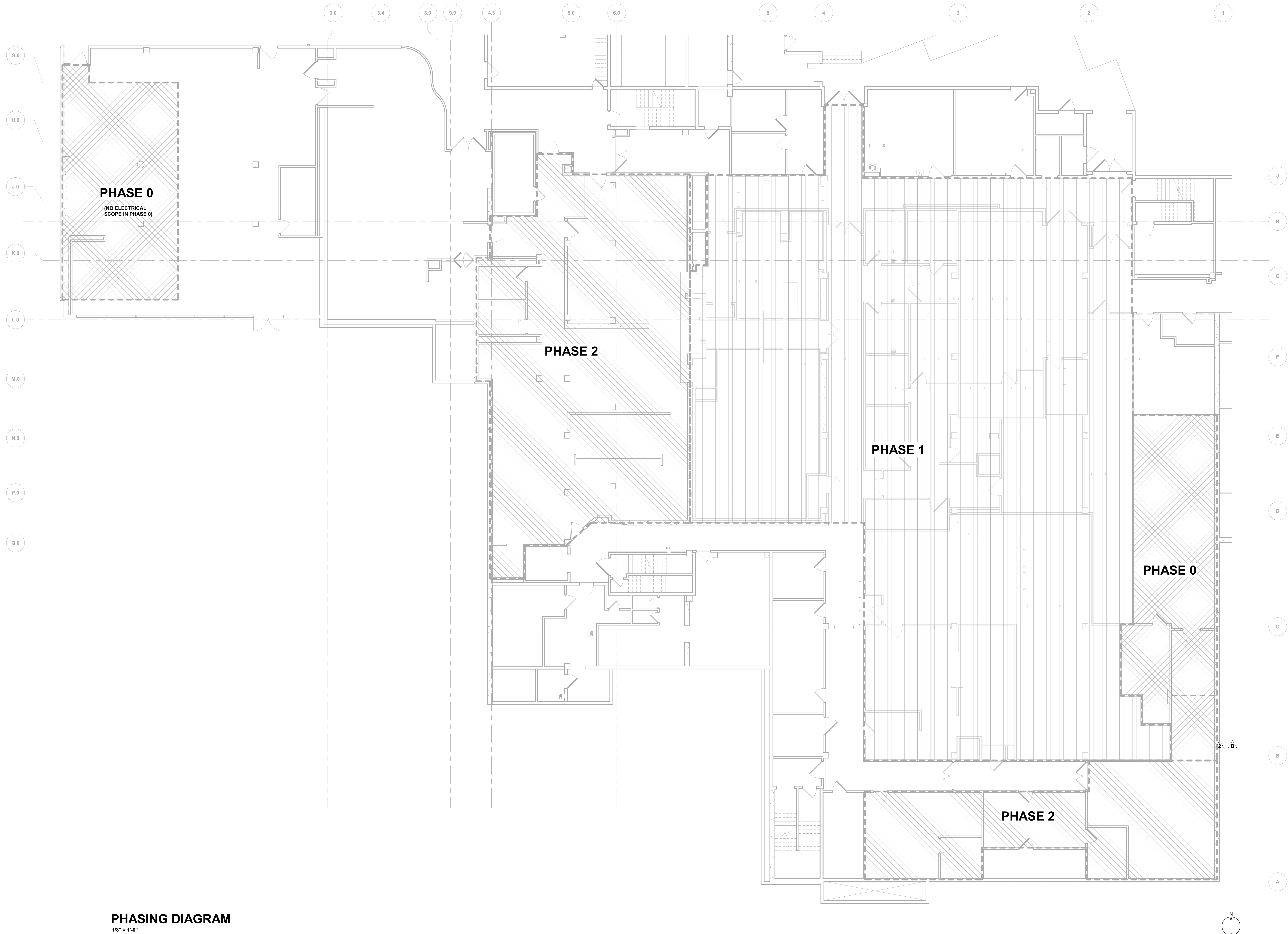
**WSEC COMPLIANCE FORMS**

SHEET NUMBER

**E00-02**

**GENERAL NOTES:**

1 PHASING PLAN SHOWN FOR REFERENCE ONLY. SEE ARCHITECTURAL PLANS FOR FULL PHASING PLANS.



**PHASING DIAGRAM**

1/8" = 1'-0"

1301 5th Ave  
#2300, Seattle,  
WA 98101  
T: +12063816000  
www.perkinswill.com

**CONSULTANTS**

**FOOD SERVICE**  
INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209

**CIVIL**  
AHBL  
1200 6th Ave #1620,  
Seattle, WA 98101

**STRUCTURAL**  
PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104

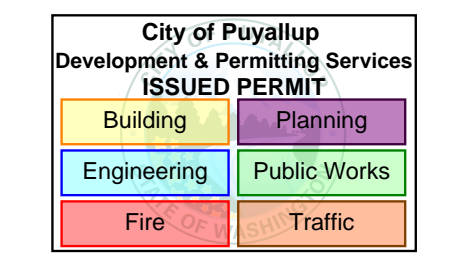
**CONTRACTOR**  
SELLEN  
227 Westlake Ave,  
Seattle, WA 98109

**PLUMBING**  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

**MECHANICAL**  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

**ELECTRICAL**  
EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168

**PROJECT MANAGER**  
TURNER & TOWNSEND  
920 5th Avenue,  
Seattle, WA 98104

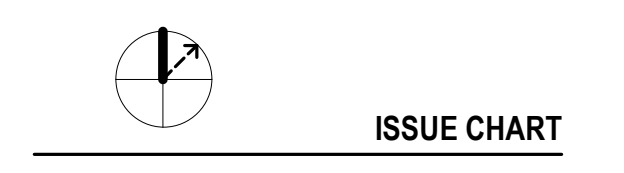
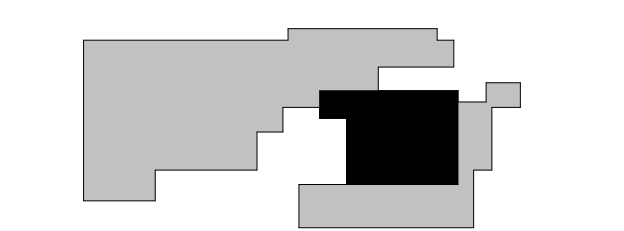


**MultiCare  
Good Samaritan  
Hospital Kitchen**  
401 15th Ave SE,  
Puyallup,  
WA 98372

**MultiCare  
Good Samaritan Hospital**  
**MULTICARE**

100% CD SET 06/30/2025

**KEY PLAN**



**ISSUE CHART**

0	PHASE 2 Revision 1	4/24/2025
B	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	

Job Number B24-1111  
TITLE

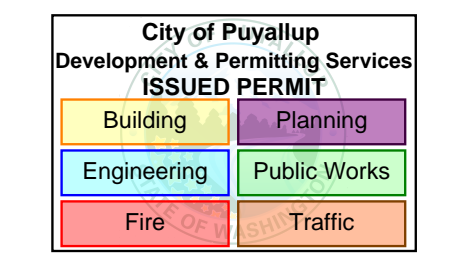
**OVERALL PHASING  
PLAN**

SHEET NUMBER

**E10-00**

**CONSULTANTS**

- FOOD SERVICE**  
**INMAN FOOD SERVICES**  
 3807 Charlotte Avenue,  
 Nashville, Tennessee 37209  
 CIVIL  
**AHBL**  
 1200 6th Ave #1620,  
 Seattle, WA 98101  
**STRUCTURAL**  
**PCS**  
 1011 Western Avenue, Suite 810  
 Seattle, WA 98104  
**CONTRACTOR**  
**SELLEN**  
 227 Westlake Ave,  
 Seattle, WA 98109  
**PLUMBING**  
**MACDONALD MILLER**  
 1004 Madison St,  
 Seattle, WA 98104  
**MECHANICAL**  
**MACDONALD MILLER**  
 1004 Madison St,  
 Seattle, WA 98104  
**ELECTRICAL**  
**EBD SERVICES**  
 14900 Interurban Ave S #143  
 Seattle, WA 98168  
**PROJECT MANAGER**  
**TURNER & TOWNSEND**  
 920 5th Avenue,  
 Seattle, WA, 98104

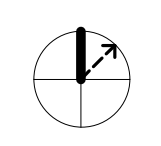
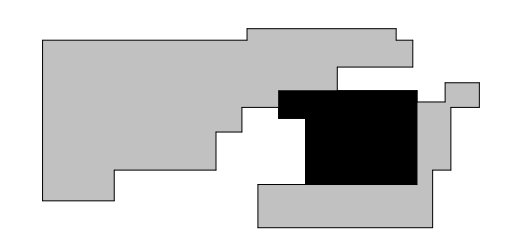


**MultiCare**  
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100% CD SET 06/30/2025

**KEY PLAN**



**ISSUE CHART**

NO	DESCRIPTION	DATE
0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS1 01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	DATE

Job Number B24-1111  
 TITLE

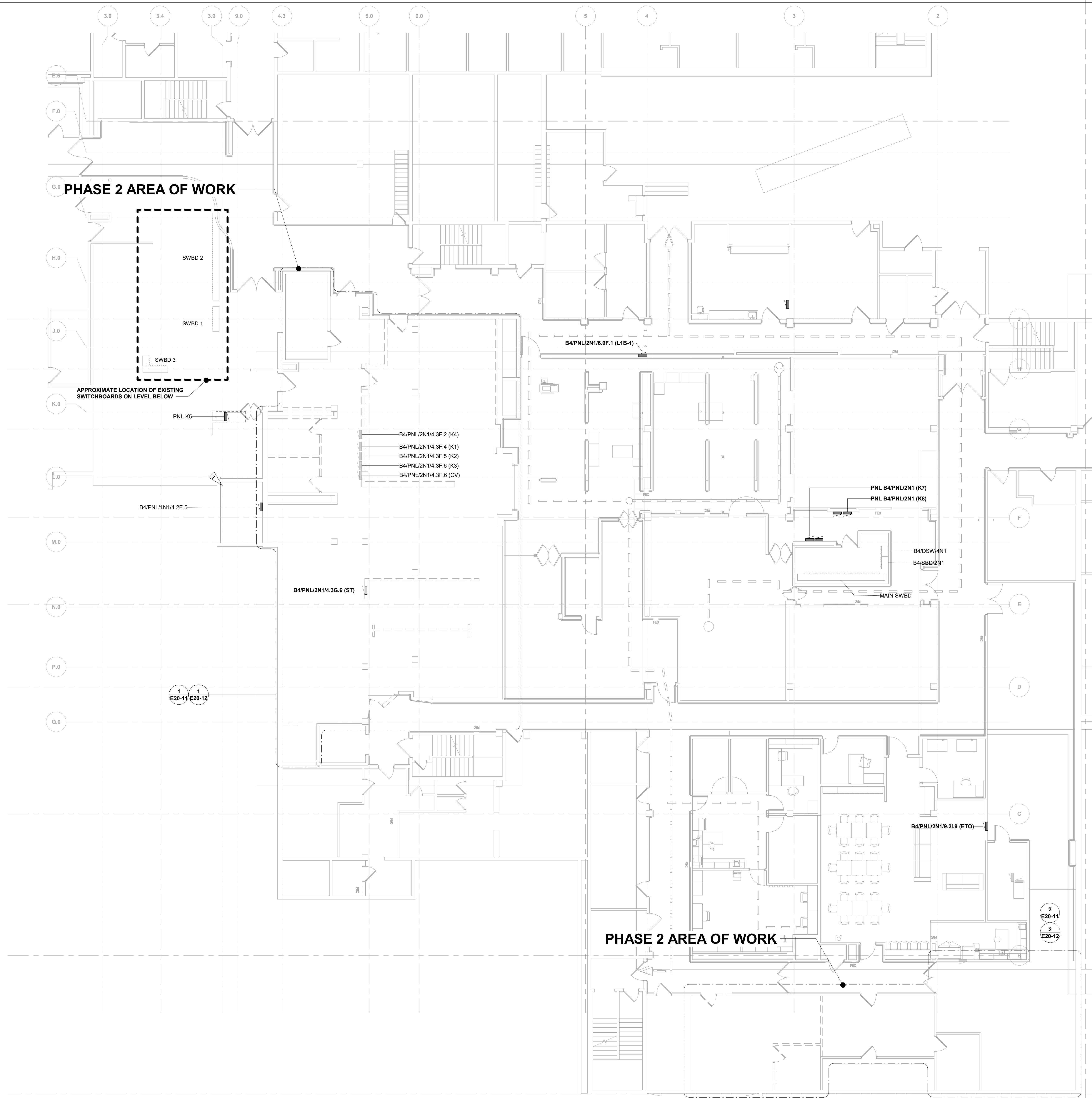
**PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01**

SHEET NUMBER

**E20-10**

**FLAG NOTES:**

- 1 DEMOLISH EXISTING PANEL AND REMOVE ALL CONNECTIONS. REMOVE FEEDER BACK TO SOURCE SWITCHBOARD.



**PHASE 2 - OVERALL DEMOLITION FLOOR PLAN - LEVEL 01**

1/8" = 1'-0"

CONSULTANTS

FOOD SERVICE  
INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209

CIVIL  
AHL  
1200 6th Ave #1620,  
Seattle, WA 98101

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PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104

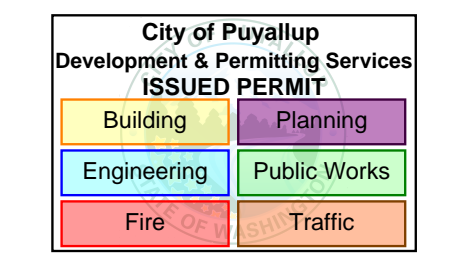
CONTRACTOR  
SELLEN  
227 Westlake Ave,  
Seattle, WA 98109

PLUMBING  
MACDONALD MILLER  
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Seattle, WA 98104

MECHANICAL  
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1004 Madison St,  
Seattle, WA 98104

ELECTRICAL  
EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168

PROJECT MANAGER  
TURNER & TOWNSEND  
920 Fifth Avenue,  
Seattle, WA, 98104

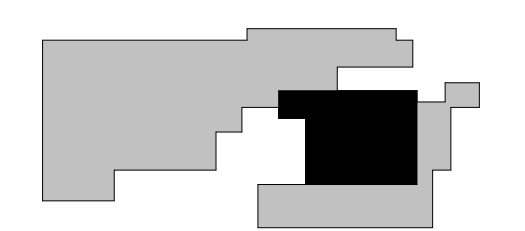


MultiCare  
Good Samaritan  
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401 15th Ave SE,  
Puyallup,  
WA 98372

MultiCare  
Good Samaritan Hospital  
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100% CD SET 06/30/2025

KEY PLAN



ISSUE CHART

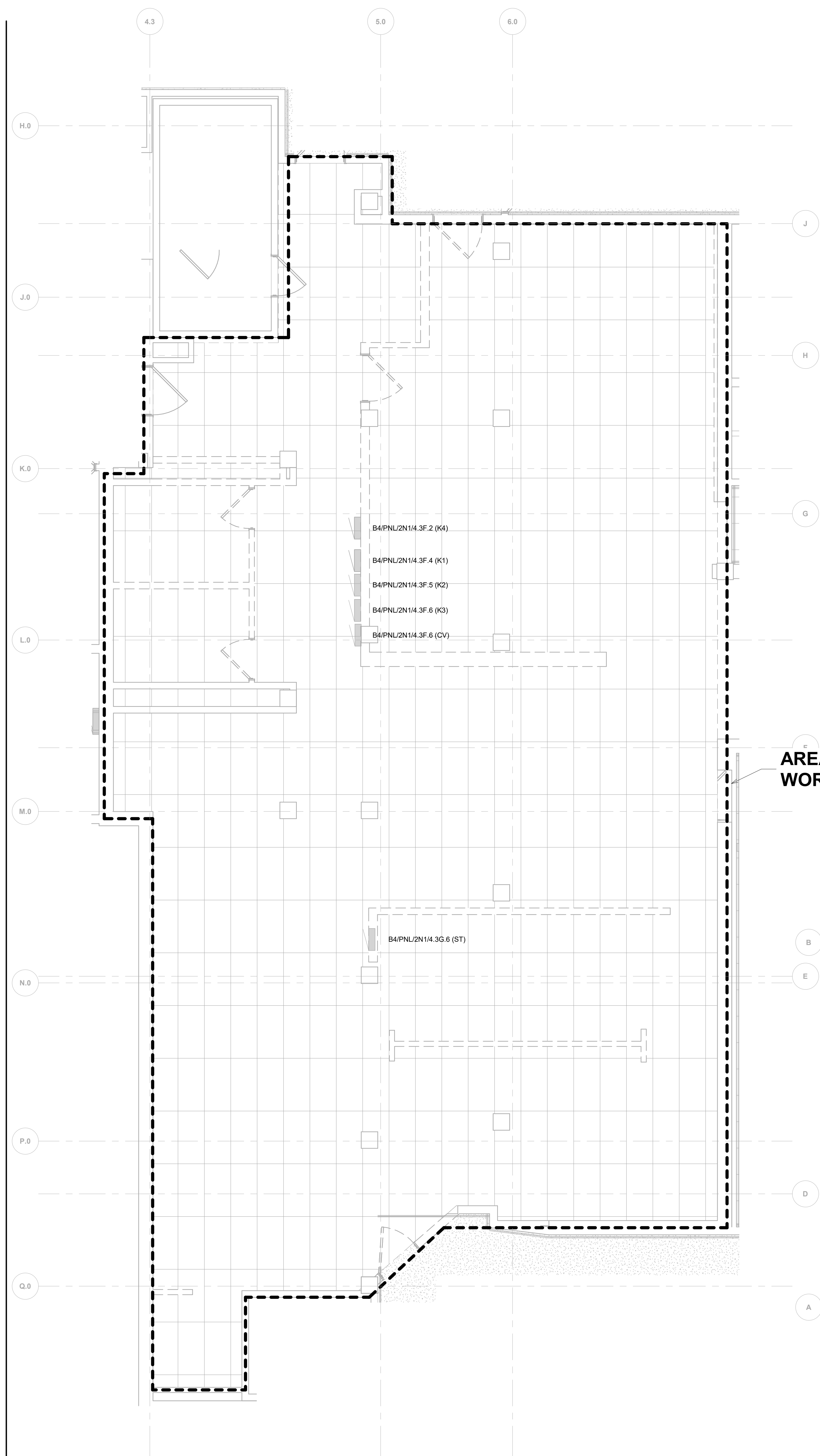
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0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	
Job Number	B24-1111	
TITLE	PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01	
SHEET NUMBER	E20-11	

GENERAL NOTES:

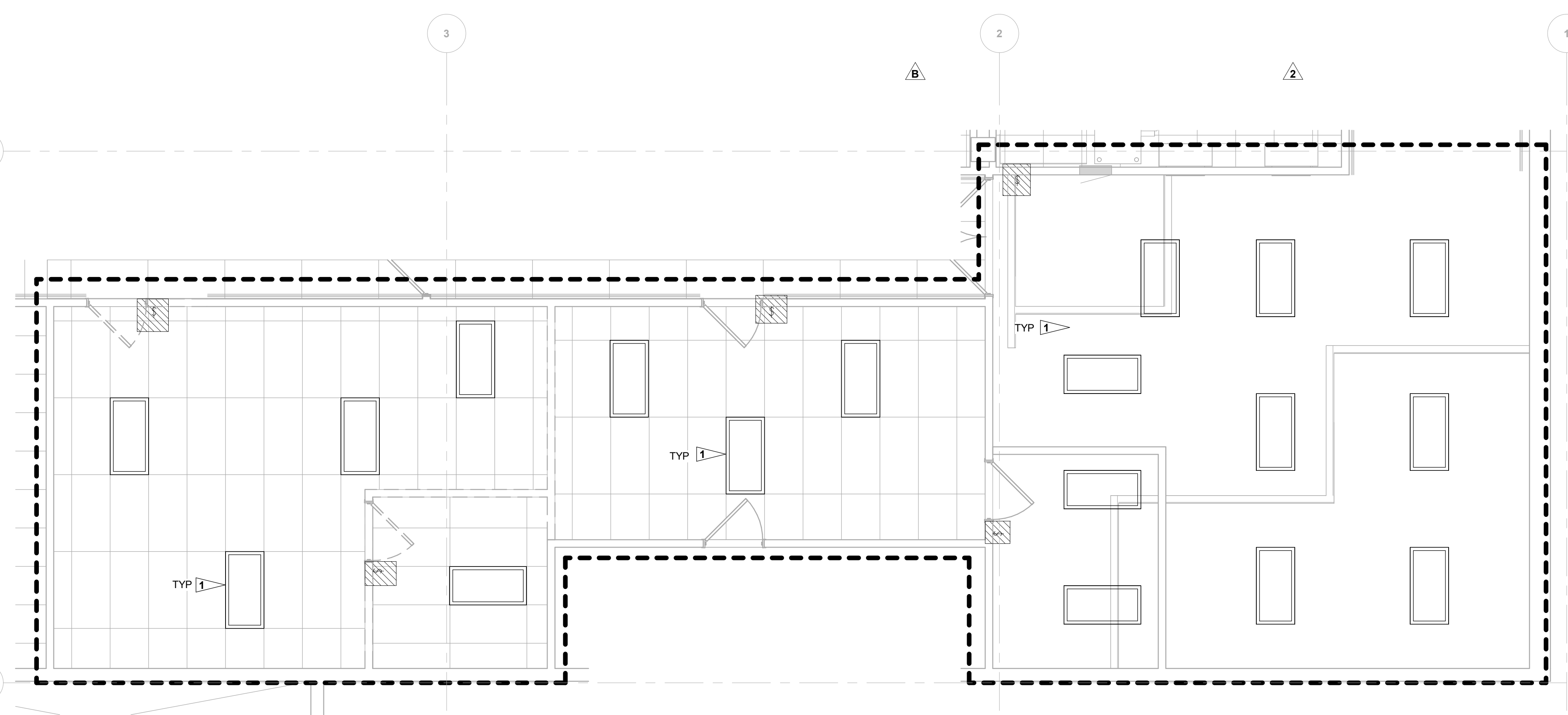
- 1 MAINTAIN EXISTING SYSTEMS NOT IDENTIFIED FOR DEMOLITION. MAINTAINING EXISTING SYSTEMS INCLUDES RELOCATING THE SYSTEMS TO COORDINATE WITH WORK OF THIS CONTRACT, WHEN WORK OF THIS CONTRACT CANNOT BE DONE WHILE THE EXISTING SYSTEM IS IN ITS PRESENT LOCATION.
- 2 ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE REROUTED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS, EXCEPT RELOCATION OF WIRING OF # 2AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF WIRING LOCATION, REASON IT MUST BE MOVED, AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
- 3 EXAMINE DRAWINGS OF ALL DISCIPLINES TO DETERMINE WHERE WORK OF OTHER TRADES WILL OR IS LIKELY TO REQUIRE RELOCATION OF EXISTING SYSTEMS. REMOVE AND RELOCATE ELECTRICAL EQUIPMENT IN THE WAY OF WORK OF OTHER TRADES. EXACT RELOCATION REQUIREMENT OF EXISTING SYSTEMS TO REMAIN TO BE BASED ON DETAILED COORDINATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE PROPOSED LOCATIONS OF RELOCATED DEVICES TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 4 RELOCATION OF ANY SYSTEM SHALL BE PERMANENT. FIELD VERIFY ANY CONDUITS OR SYSTEM THAT MAY NEED TO BE RELOCATED AND NOTIFY ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.
- 5 REROUTE EXISTING CIRCUITS THAT ARE AFFECTED AS A RESULT OF THIS CONTRACT THAT SERVE DEVICES TO REMAIN IN SERVICE.
- 6 DEMOLISH ALL EXISTING LIGHTING FIXTURES, DEVICES, AND WIRING BACK TO NEAREST JUNCTION BOX OR LAST DEVICE TO REMAIN WITHIN AREA OF WORK ON THIS SHEET. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITS. SEE ARCHITECTURAL SHEET A05-01 FOR FULL EXTENT OF DEMOLITION.

FLAG NOTES:

- 1 EXISTING 2X4 TROFFER AND CIRCUIT TO REMAIN (TYPICAL OF ALL IN THIS ROOM). FIELD COORDINATE WITH ARCHITECT IF ANY FIXTURE NEEDS TO RELOCATE WITHIN THE ROOM. PROVIDE NEW LIGHTING CONTROLS AS INDICATED PER SHEET E21-11.



AREA OF WORK



PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01  
1/4" = 1'-0"

PHASE 2 - LIGHTING DEMOLITION PLAN - LEVEL 01 SE  
1/4" = 1'-0"

E20-11

4/22/2025 2:42:16 PM Autodesk Docs\MultiCare - Good Samaritan Hospital Kitchen Expansion\ELEC\MultiCare Kitchen R25.rvt

**CONSULTANTS**

**FOOD SERVICE**  
INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209

**CIVIL**  
AHL  
1200 6th Ave #1620,  
Seattle, WA 98101

**STRUCTURAL**  
PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104

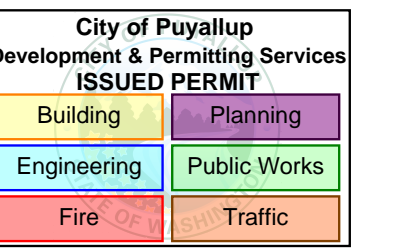
**CONTRACTOR**  
SELLEN  
227 Westlake Ave,  
Seattle, WA 98109

**PLUMBING**  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

**MECHANICAL**  
MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104

**ELECTRICAL**  
EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168

**PROJECT MANAGER**  
TURNER & TOWNSEND  
920 5th Avenue,  
Seattle, WA, 98104

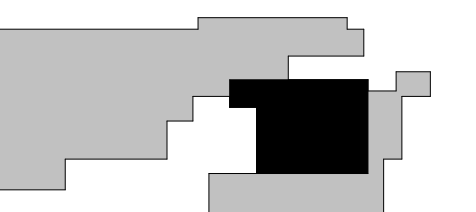


**MultiCare Good Samaritan Hospital Kitchen**  
401 15th Ave SE,  
Puyallup, WA 98372

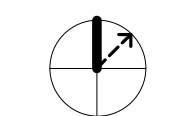


100% CD SET 06/30/2025

**KEY PLAN**



**ISSUE CHART**



0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	11/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	
Job Number	B24-1111	

**TITLE**

**PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01**

**SHEET NUMBER**

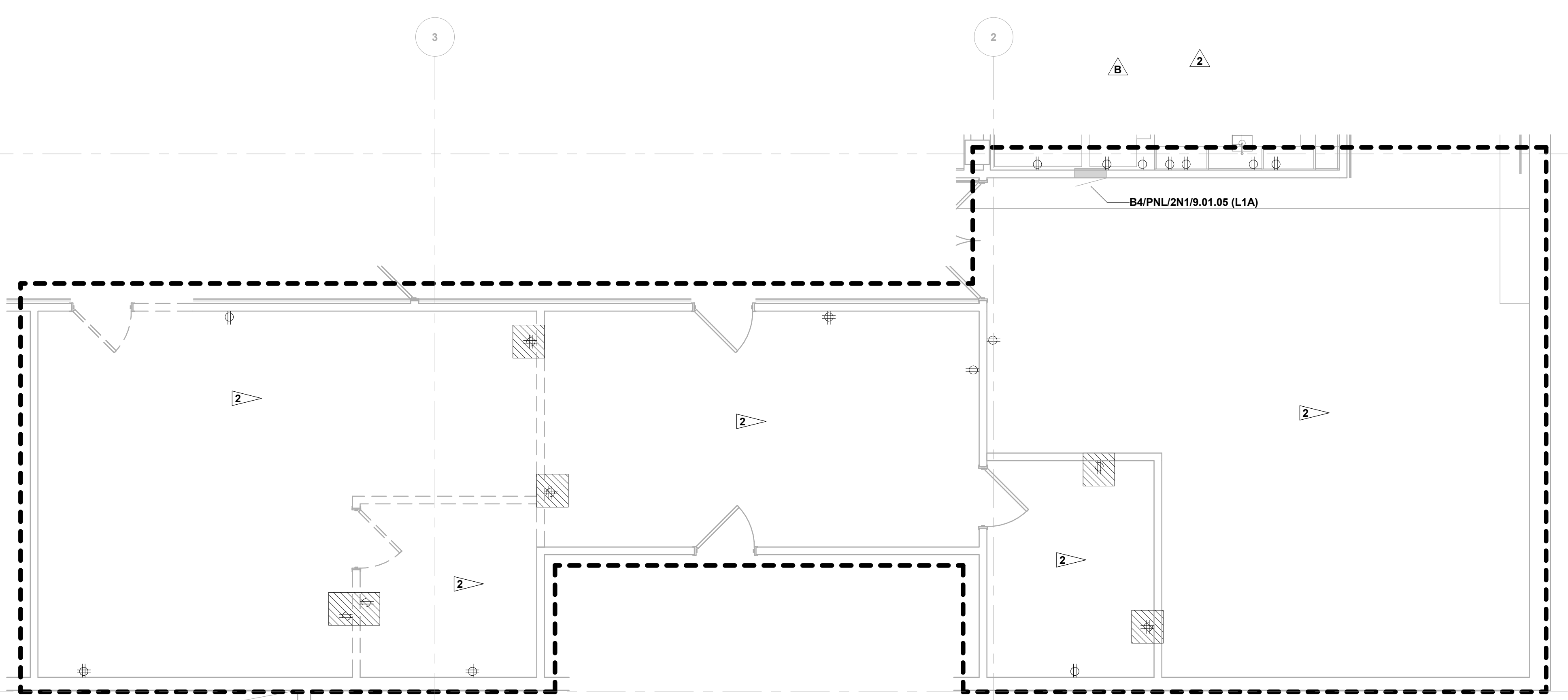
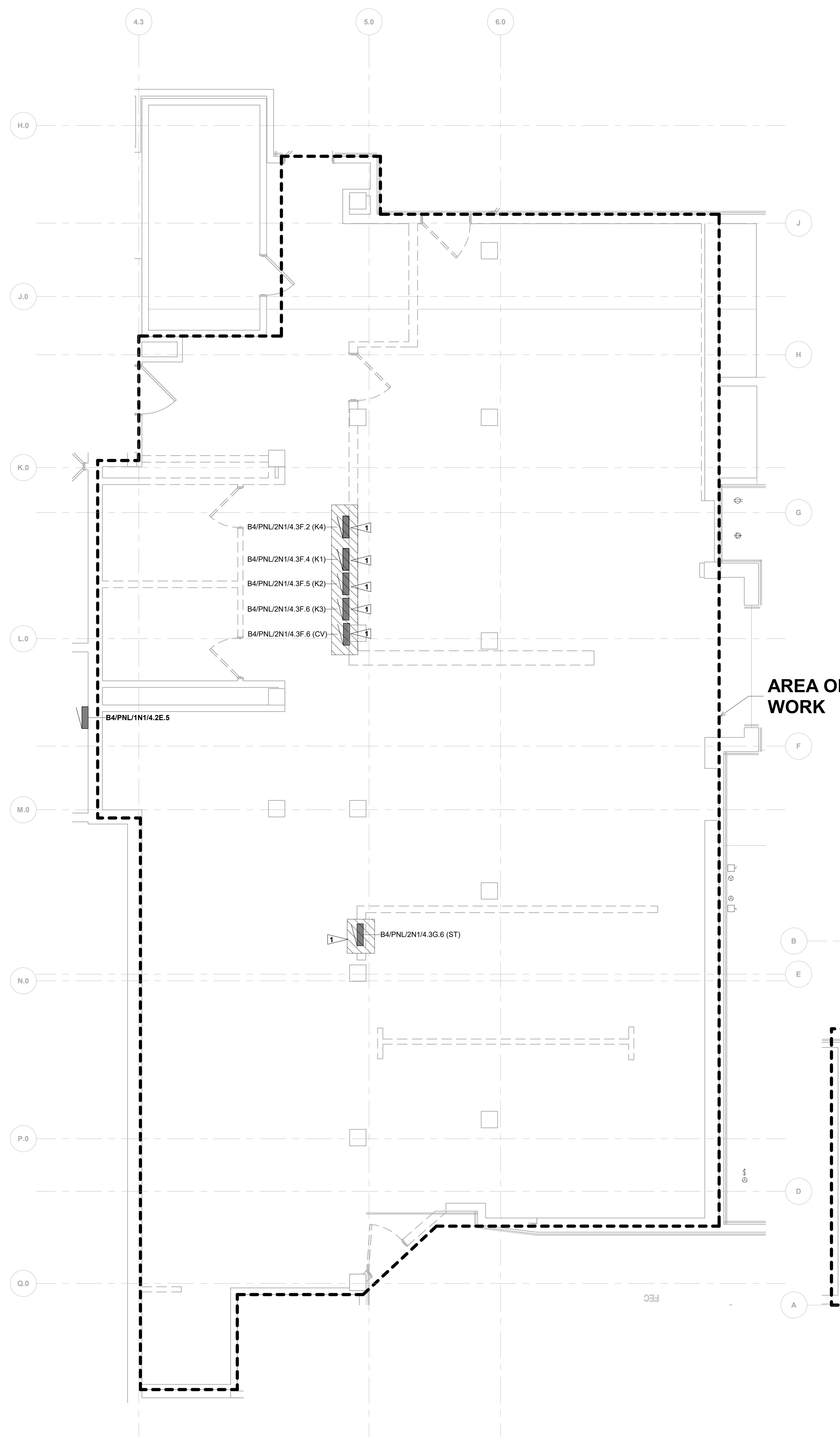
**E20-12**

**GENERAL NOTES:**

- 1 MAINTAIN EXISTING SYSTEMS NOT IDENTIFIED FOR DEMOLITION. MAINTAINING EXISTING SYSTEMS INCLUDES RELOCATING THE SYSTEMS TO COORDINATE WITH WORK OF THIS CONTRACT. WHEN WORK OF THIS CONTRACT CANNOT BE DONE WHILE THE EXISTING SYSTEM IS IN ITS PRESENT LOCATION.
- 2 ANY EXISTING WIRING SERVING DEVICES TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY WORK PERFORMED UNDER THIS CONTRACT SHALL BE RELOCATED TO MAINTAIN CIRCUIT CONTINUITY. CONTRACTOR SHALL ASSUME THE RISK OF MAINTAINING EXISTING SYSTEMS, EXCEPT RELOCATION OF WIRING OF # 2AWG AND ABOVE SHALL BE CONSIDERED AN ADDITIONAL COST IF NOT SHOWN TO BE RELOCATED. IF SUCH WIRING IS FOUND THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF WIRING LOCATION, REASON IT MUST BE MOVED, AND COST OF RELOCATION AND RECEIVE THE OWNER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
- 3 EXAMINE DRAWINGS OF ALL DISCIPLINES TO DETERMINE WHERE WORK OF OTHER TRADES WILL OR IS LIKELY TO REQUIRE RELOCATION OF EXISTING SYSTEMS. REMOVE AND RELOCATE ELECTRICAL EQUIPMENT IN THE WAY OF WORK OF OTHER TRADES. EXACT RELOCATION REQUIREMENT OF EXISTING SYSTEMS TO REMAIN TO BE BASED ON DETAILED COORDINATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE PROPOSED LOCATIONS OF RELOCATED DEVICES TO OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 4 RELOCATION OF ANY SYSTEM SHALL BE PERMANENT. FIELD VERIFY ANY CONDUITS OR SYSTEM THAT MAY NEED TO BE RELOCATED AND NOTIFY ARCHITECT AND OWNER BEFORE PROCEEDING WITH WORK.
- 5 REROUTE EXISTING CIRCUITS THAT ARE AFFECTED AS A RESULT OF THIS CONTRACT THAT SERVE DEVICES TO REMAIN IN SERVICE.
- 6 DEMOLISH EXISTING RECEPTACLES AND WIRING BACK TO NEAREST JUNCTION BOX OR LAST DEVICE TO REMAIN WITHIN AREA OF WORK. CONTRACTOR TO FIELD VERIFY EXISTING CIRCUITS.

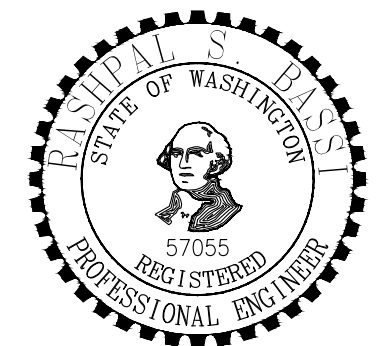
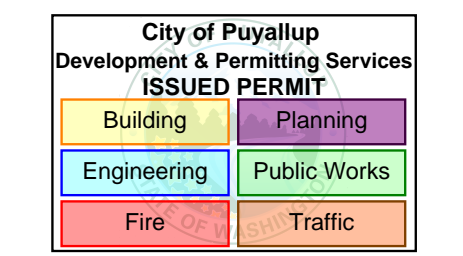
**FLAG NOTES:**

- 1 DEMOLISH EXISTING PANEL AND ALL BRANCH CIRCUITS TO DOWNSTREAM LOADS. REMOVE FEEDER BACK TO SOURCE SWITCHBOARD.
- 2 EXISTING RECEPTACLES AND CIRCUITING TO REMAIN ON WALLS NOT IMPACTED BY DEMOLITION. FIELD VERIFY EXACT LOCATION AND QUANTITY.



**PHASE 2 - POWER DEMOLITION PLAN - LEVEL 01**  
1/4" = 1'-0"

**PHASE 2 - OVERALL DEMOLITION FLOOR - LEVEL 01 - SE**  
1/4" = 1'-0"

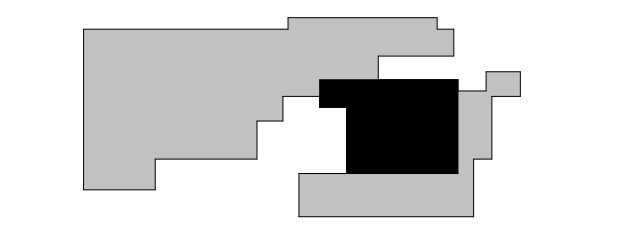


**MultiCare**  
**Good Samaritan**  
**Hospital Kitchen**  
401 15th Ave SE,  
Puyallup, WA 98372

**MultiCare**  
**Good Samaritan Hospital**  
**MULTICARE**

100% CD SET 06/30/2025

KEY PLAN



ISSUE CHART

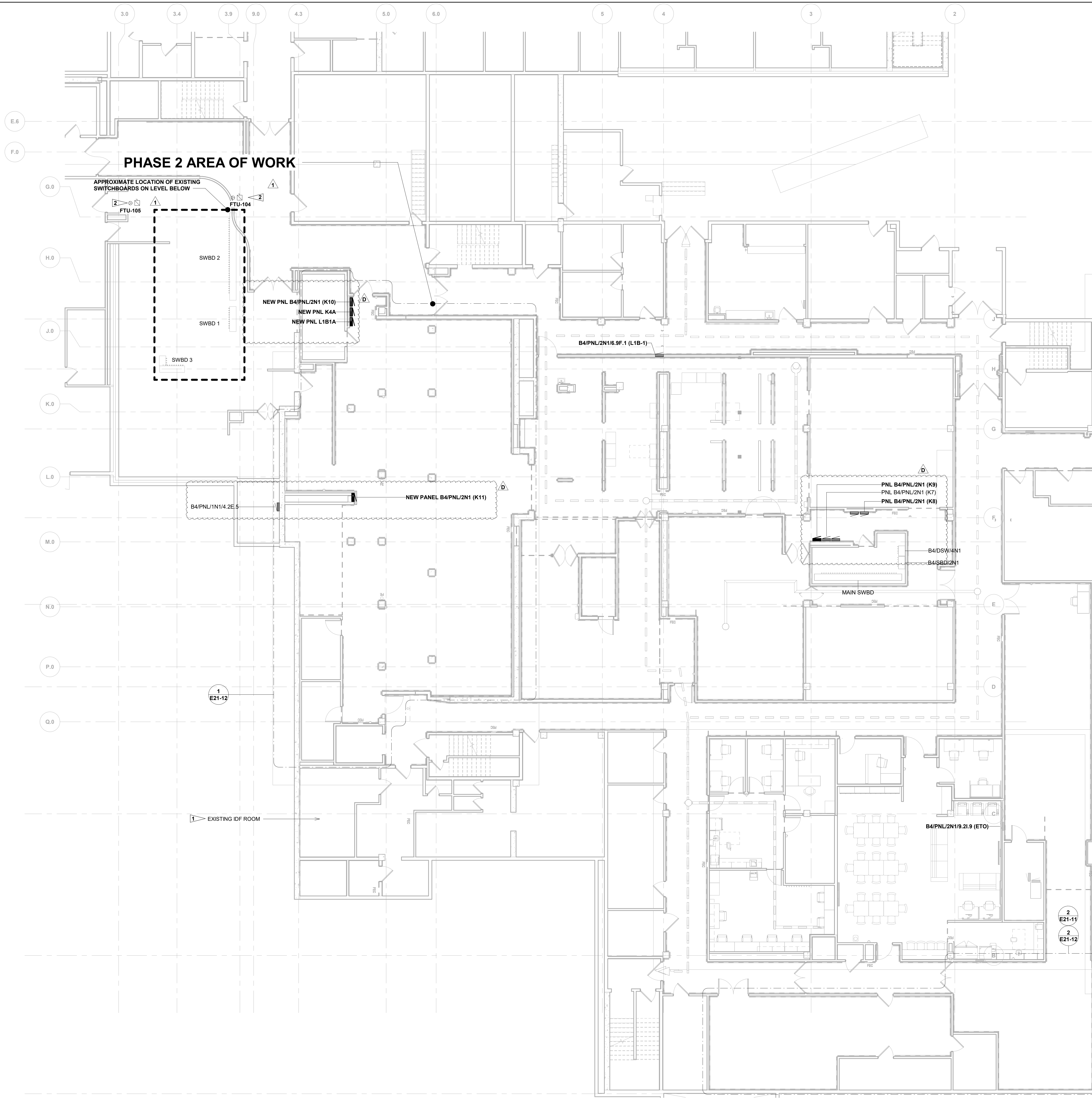
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B	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS1-01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	ISSUE	DATE
Job Number	B24-1111	
TITLE	PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01	
SHEET NUMBER	E21-10	

**GENERAL NOTES:**

- COORDINATE ALL WALL-MOUNTED DEVICES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO INSTALLATION.

**FLAG NOTES:**

- ROUTE ALL COMMUNICATION CABEL HOMERUNS TO EXISTING IDF ROOM. FIELD VERIFY IDF INFRASTRUCTURE. COORDINATE REQUIREMENTS WITH OWNER AND PROVIDE ADDITIONAL PATCH PANEL AS NECESSARY.
- EXISTING HVAC UNIT, CONTROLS AND DISCONNECT ARE EXISTING.



**PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01**  
1/8" = 1'-0"

CONSULTANTS

FOOD SERVICE

INMAN FOOD SERVICES  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209  
CIVIL

AHBL  
1200 6th Ave #1620,  
Seattle, WA 98101  
STRUCTURAL

PCS  
1011 Western Avenue, Suite 810  
Seattle, WA 98104  
CONTRACTOR

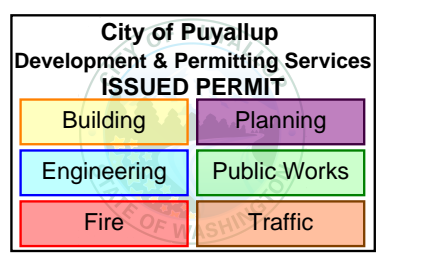
SELLEN  
227 Westlake Ave,  
Seattle, WA 98109  
PLUMBING

MACDONALD MILLER  
1004 Madison St,  
Seattle, WA 98104  
MECHANICAL

MACDONALD MILLER  
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Seattle, WA 98104  
ELECTRICAL

EBD SERVICES  
14900 Interurban Ave S #143  
Seattle, WA 98168  
PROJECT MANAGER

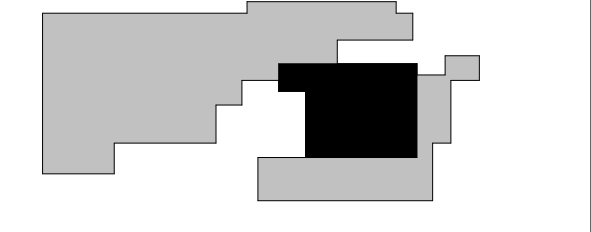
TURNER & TOWNSEND  
920 Fifth Avenue,  
Seattle, WA 98104



MultiCare  
Good Samaritan  
Hospital Kitchen  
401 15th Ave SE,  
Puyallup,  
WA 98372

MultiCare  
Good Samaritan Hospital  
MULTICARE

KEY PLAN



ISSUE CHART

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP POH SET	11/13/2025
2	AS1 01	1/14/25
3	LNI Correction Response	7/11/25
4	ISSUE	2/25/25

Job Number B24-1111

TITLE

PHASE 2 - LIGHTING  
RCP - LEVEL 01

SHEET NUMBER

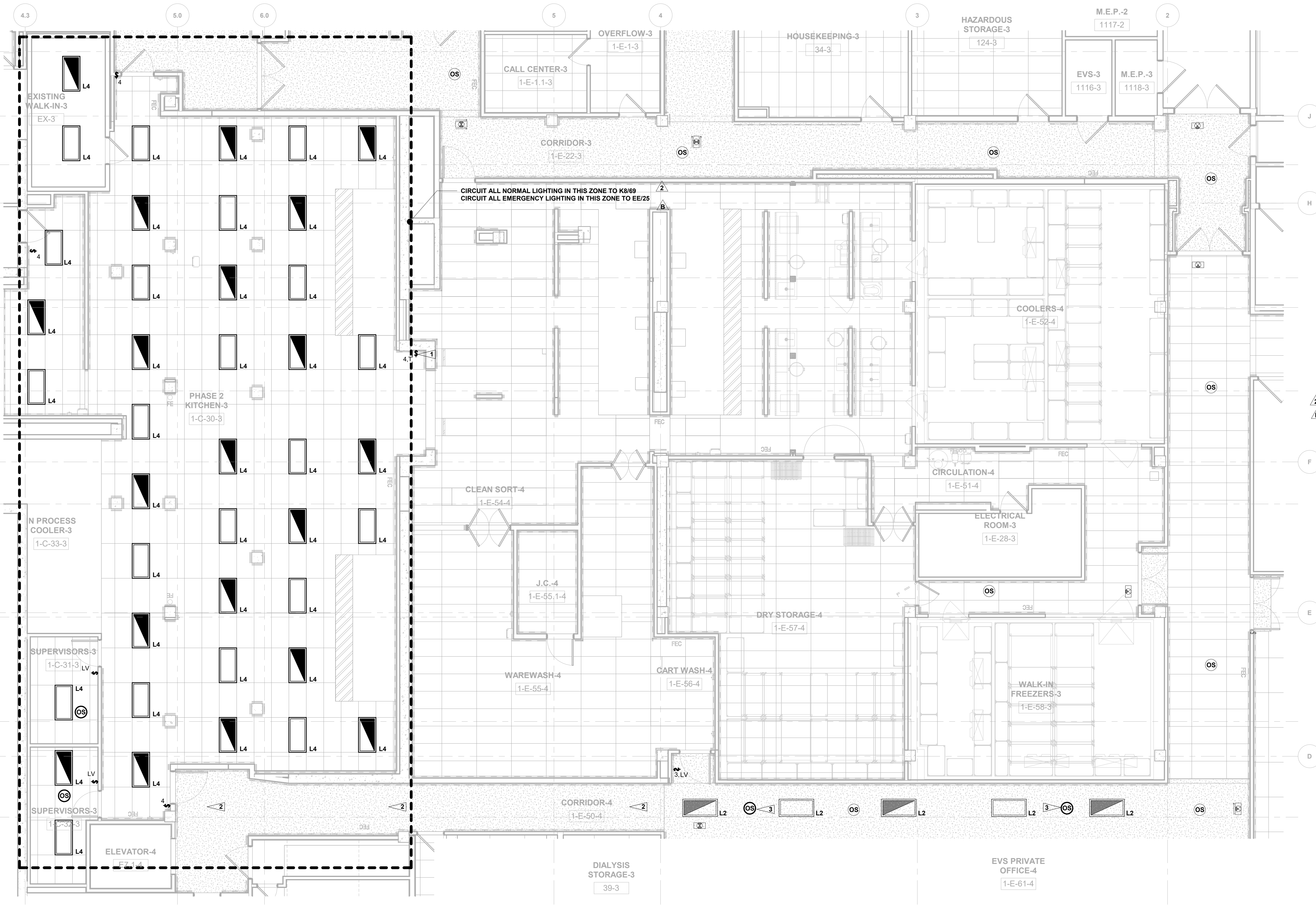
E21-11

GENERAL NOTES:

- 1 LIGHTING DESIGN AND FIXTURE SELECTION IS BY OTHERS. VERIFY ALL SELECTIONS AND FIXTURE LOCATIONS WITH OWNER AND LIGHTING DESIGNER PRIOR TO COMMITTING TO A LIGHTING PACKAGE. REFER TO SHEET E80-00 FOR FIXTURE SCHEDULE.
- 2 ALL LIGHTING FIXTURES SHADED AS EMERGENCY EGRESS LIGHTING. ALL SHADED FIXTURES SHALL BE ON GENERATOR BACKUP CIRCUITED TO PANEL 2XA, AND SHALL TURN ON UPON LOSS OF UTILITY POWER REGARDLESS OF THE STATE OF THE LIGHTING CONTROL DEVICE(S).
- 3 LIGHTING PLANS DENOTE FIXTURE POSITIONS RELATIVE TO THE PLAN DRAWINGS PROVIDED BY THE ARCHITECT. COORDINATE LOCATIONS WITH ARCHITECTURAL RCPs.
- 4 PROVIDE ALL NECESSARY COMPONENTS FOR A FULLY FUNCTIONING LIGHTING CONTROL SYSTEM THAT IS COMPLIANT WITH THE NEC AND ALL LOCAL MUNICIPAL CODES. SYSTEM SHALL CONFORM TO 2021 WA STATE ENERGY CODE REQUIREMENTS FOR CONTROLS. FINAL CONTROLS SHALL BE BY LIGHTING CONTROLS MANUFACTURER WHO WILL PROVIDE SHOP DRAWINGS AND CONTROLS WIRING DIAGRAMS.
- 5 WALK-IN FREEZERS AND COOLERS SHALL BE IN COMPLIANCE WITH 2021 WSEC SECTION C410. PROVIDE LIGHTING CONTROLS COMPLIANT WITH C410.3.11.
- 6 CORRIDOR AND KITCHEN LIGHTING SHALL BE CONTROLLED VIA TIME-CLOCK.

FLAG NOTES:

- 1 PROVIDE PROGRAMMABLE ASTRONOMICAL CLOCK TIME SWITCH, FIXTURES TO BE ON DURING BUSINESS HOURS AND OFF OTHERWISE. PROVIDED WITH 2-HR MANUAL OVERRIDE.
- 2 EXISTING LIGHTING IN THIS AREA TO REMAIN.
- 3 PROVIDE AUTO ON/AUTO OFF OCCUPANCY SENSOR, AUTO ON FUNCTION ALLOWED PER 2021 WSEC C405.2.1.1. THE SENSOR WILL OPERATE IN CONJUNCTION WITH TIMECLOCK AND AND CONTROL LIGHTING DURING THE TIMECLOCK OFF HOURS.
- 4 ALL LIGHTING FIXTURES IN THIS ROOM ARE EXISTING TO REMAIN. PROVIDE NEW CONTROLS AS INDICATED.



PHASE 2 - LIGHTING RCP - LEVEL 01

3/16" = 1'-0"



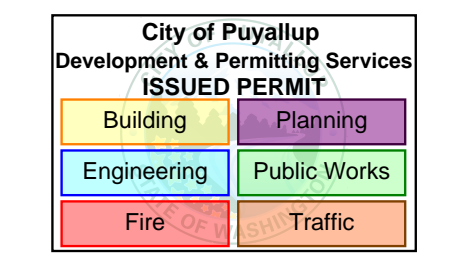
PHASE 2 - LIGHTING RCP - LEVEL 01 SE

3/16" = 1'-0"

4/22/2025 2:42:23 PM Autodesk Docs\MultiCare - Good Samaritan Hospital Kitchen Expansion\ELEC\MultiCare-Kitchen-RCPs.rvt

CONSULTANTS

- FOOD SERVICE  
**INMAN FOOD SERVICES**  
 3807 Charlotte Avenue,  
 Nashville, Tennessee 37209  
 CNL
- AHBL  
 1200 6th Ave #1620,  
 Seattle, WA 98101  
 STRUCTURAL
- PCS  
 1011 Western Avenue, Suite 810  
 Seattle, WA 98104  
 CONTRACTOR
- SELLEN  
 227 Westlake Ave,  
 Seattle, WA 98109  
 PLUMBING
- MACDONALD MILLER  
 1004 Madison St,  
 Seattle, WA 98104  
 MECHANICAL
- MACDONALD MILLER  
 1004 Madison St,  
 Seattle, WA 98104  
 ELECTRICAL
- EBD SERVICES  
 14900 Interurban Ave S #143  
 Seattle, WA 98168  
 PROJECT MANAGER
- TURNER & TOWNSEND  
 920 Fifth Avenue,  
 Seattle, WA, 98104

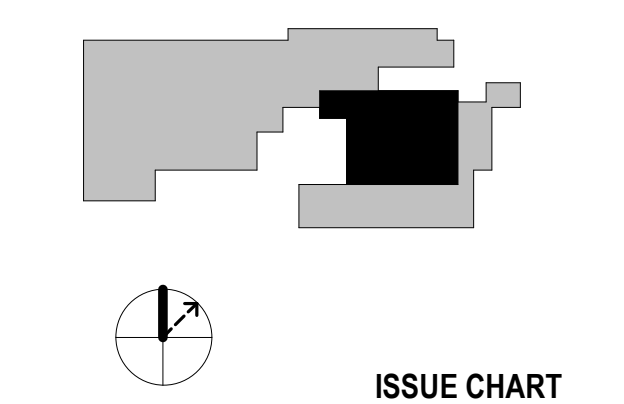


**MultiCare Good Samaritan Hospital Kitchen**  
 401 15th Ave SE,  
 Puyallup, WA 98372

**MultiCare Good Samaritan Hospital**  
**MULTICARE**

100% CD SET 06/30/2025

KEY PLAN



ISSUE CHART

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS1	11/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	
Job Number	B24-1111	TITLE

PHASE 2 - POWER PLAN - LEVEL 01

SHEET NUMBER

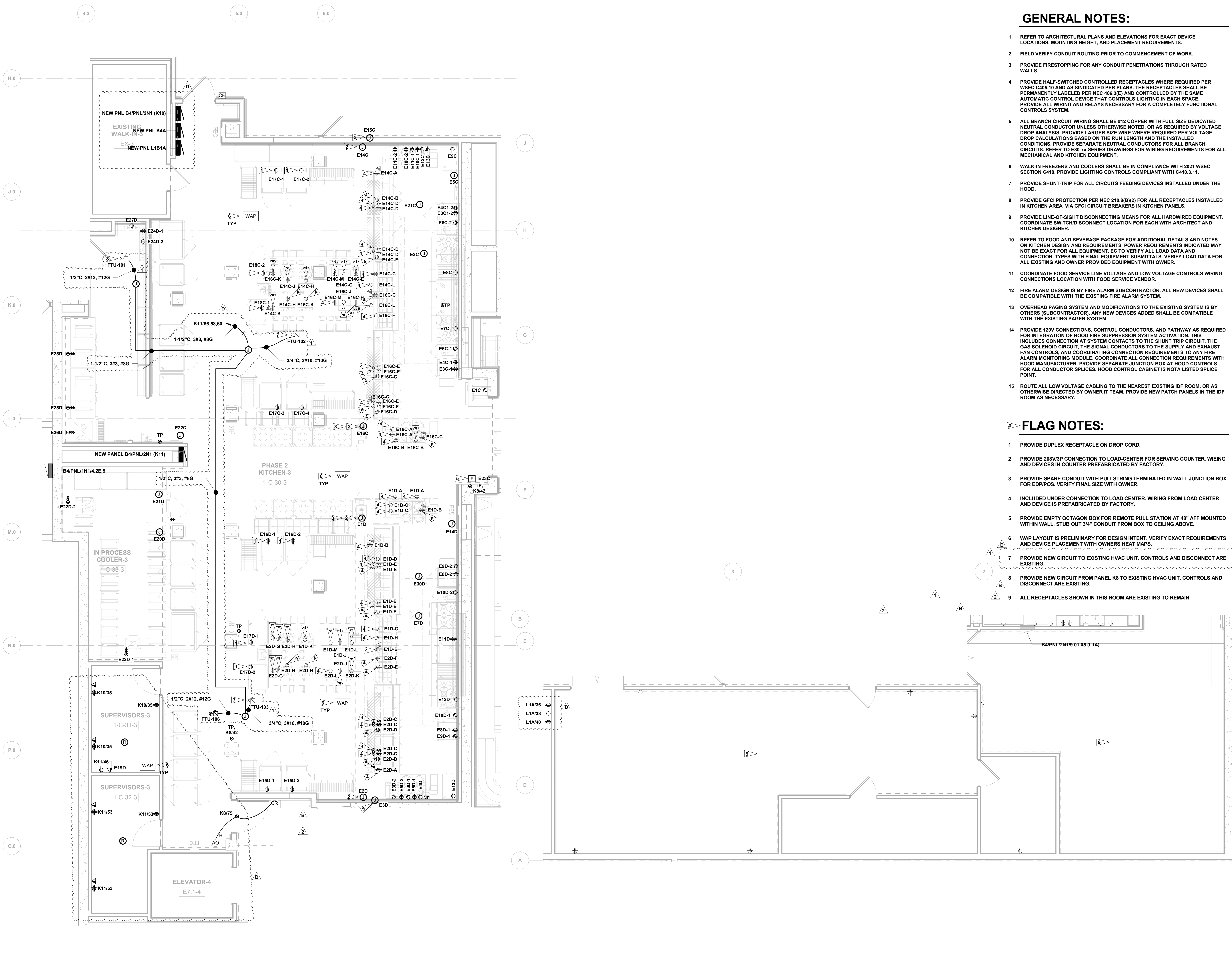
**E21-12**

**GENERAL NOTES:**

- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT DEVICE LOCATIONS, MOUNTING HEIGHT, AND PLACEMENT REQUIREMENTS.
- FIELD VERIFY CONDUIT ROUTING PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE FIRESTOPPING FOR ANY CONDUIT PENETRATIONS THROUGH RATED WALLS.
- PROVIDE HALF-SWITCHED CONTROLLED RECEPTACLES WHERE REQUIRED PER WSEC C408.10 AND AS INDICATED PER PLANS. THE RECEPTACLES SHALL BE PERMANENTLY LABELED PER NEC 408.3(E) AND CONTROLLED BY THE SAME AUTOMATIC CONTROL DEVICE THAT CONTROLS LIGHTING IN EACH SPACE. PROVIDE ALL WIRING AND RELAYS NECESSARY FOR A COMPLETELY FUNCTIONAL CONTROLS SYSTEM.
- ALL BRANCH CIRCUIT WIRING SHALL BE #12 COPPER WITH FULL SIZE DEDICATED NEUTRAL CONDUCTOR UNLESS OTHERWISE NOTED, OR AS REQUIRED BY VOLTAGE DROP ANALYSIS. PROVIDE LARGER SIZE WIRE WHERE REQUIRED PER VOLTAGE DROP CALCULATIONS BASED ON THE RUN LENGTH AND THE INSTALLED CONDITIONS. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR ALL BRANCH CIRCUITS. REFER TO E80-xx SERIES DRAWINGS FOR WIRING REQUIREMENTS FOR ALL MECHANICAL AND KITCHEN EQUIPMENT.
- WALK-IN FREEZERS AND COOLERS SHALL BE IN COMPLIANCE WITH 2021 WSEC SECTION C410. PROVIDE LIGHTING CONTROLS COMPLIANT WITH C410.3.11.
- PROVIDE SHUNT-TRIP FOR ALL CIRCUITS FEEDING DEVICES INSTALLED UNDER THE HOOD.
- PROVIDE GFCI PROTECTION PER NEC 210.8(B)(2) FOR ALL RECEPTACLES INSTALLED IN KITCHEN AREA, VIA GFCI CIRCUIT BREAKERS IN KITCHEN PANELS.
- PROVIDE LINE-OF-SIGHT DISCONNECTING MEANS FOR ALL HARDWIRED EQUIPMENT. COORDINATE SWITCH/DISCONNECT LOCATION FOR EACH WITH ARCHITECT AND KITCHEN DESIGNER.
- REFER TO FOOD AND BEVERAGE PACKAGE FOR ADDITIONAL DETAILS AND NOTES ON KITCHEN DESIGN AND REQUIREMENTS. POWER REQUIREMENTS INDICATED MAY NOT BE EXACT FOR ALL EQUIPMENT. EC TO VERIFY ALL LOAD DATA AND CONNECTION TYPES WITH FINAL EQUIPMENT SUBMITTALS. VERIFY LOAD DATA FOR ALL EXISTING AND OWNER PROVIDED EQUIPMENT WITH OWNER.
- COORDINATE FOOD SERVICE LINE VOLTAGE AND LOW VOLTAGE CONTROLS WIRING CONNECTIONS LOCATION WITH FOOD SERVICE VENDOR.
- FIRE ALARM DESIGN IS BY FIRE ALARM SUBCONTRACTOR. ALL NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM.
- OVERHEAD PAGING SYSTEM AND MODIFICATIONS TO THE EXISTING SYSTEM IS BY OTHERS (SUBCONTRACTOR). ANY NEW DEVICES ADDED SHALL BE COMPATIBLE WITH THE EXISTING PAGER SYSTEM.
- PROVIDE 120V CONNECTIONS, CONTROL CONDUCTORS, AND PATHWAY AS REQUIRED FOR INTEGRATION OF HOOD FIRE SUPPRESSION SYSTEM ACTIVATION. THIS INCLUDES CONNECTION AT SYSTEM CONTACTS TO THE SHUNT TRIP CIRCUIT, THE GAS SOLENOID CIRCUIT, THE SIGNAL CONDUCTORS TO THE SUPPLY AND EXHAUST FAN CONTROLS, AND COORDINATING CONNECTION REQUIREMENTS TO ANY FIRE ALARM MONITORING MODULE. COORDINATE ALL CONNECTION REQUIREMENTS WITH HOOD MANUFACTURER. PROVIDE SEPARATE JUNCTION BOX AT HOOD CONTROLS FOR ALL CONDUCTOR SPLICES. HOOD CONTROL CABINET IS NOT A LISTED SPLICE POINT.
- ROUTE ALL LOW VOLTAGE CABLING TO THE NEAREST EXISTING IDF ROOM, OR AS OTHERWISE DIRECTED BY OWNER IT TEAM. PROVIDE NEW PATCH PANELS IN THE IDF ROOM AS NECESSARY.

**FLAG NOTES:**

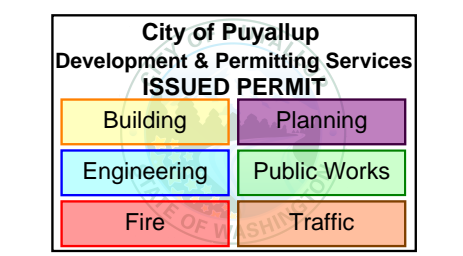
- PROVIDE DUPLEX RECEPTACLE ON DROP CORD.
- PROVIDE 208V/3P CONNECTION TO LOAD-CENTER FOR SERVING COUNTER. WIEING AND DEVICES IN COUNTER PREFABRICATED BY FACTORY.
- PROVIDE SPARE CONDUIT WITH PULLSTRING TERMINATED IN WALL JUNCTION BOX FOR EDP/POS. VERIFY FINAL SIZE WITH OWNER.
- INCLUDED UNDER CONNECTION TO LOAD CENTER. WIRING FROM LOAD CENTER AND DEVICES IS PREFABRICATED BY FACTORY.
- PROVIDE EMPTY OCTAGON BOX FOR REMOTE PULL STATION AT 48" AFF MOUNTED WITHIN WALL. STUB OUT 3/4" CONDUIT FROM BOX TO CEILING ABOVE.
- WAP LAYOUT IS PRELIMINARY FOR DESIGN INTENT. VERIFY EXACT REQUIREMENTS AND DEVICE PLACEMENT WITH OWNERS HEAT MAPS.
- PROVIDE NEW CIRCUIT TO EXISTING HVAC UNIT. CONTROLS AND DISCONNECT ARE EXISTING.
- PROVIDE NEW CIRCUIT FROM PANEL K8 TO EXISTING HVAC UNIT. CONTROLS AND DISCONNECT ARE EXISTING.
- ALL RECEPTACLES SHOWN IN THIS ROOM ARE EXISTING TO REMAIN.



**PHASE 2 - POWER FLOOR PLAN - LEVEL 01**  
 1/4" = 1'-0"

**PHASE 2 - OVERALL FLOOR PLAN - LEVEL 01 SE**  
 1/4" = 1'-0"

4/22/2025 2:42:28 PM Autodesk Docs\MultiCare - Good Samaritan Hospital Kitchen Expansion\ELEC\MultiCare-Kitchen-RS2-4

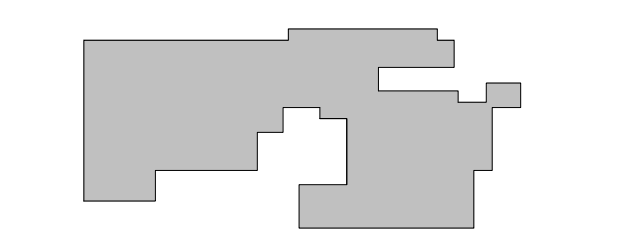


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 401 15th Ave SE,  
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**MULTICARE**

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**KEY PLAN**



**ISSUE CHART**

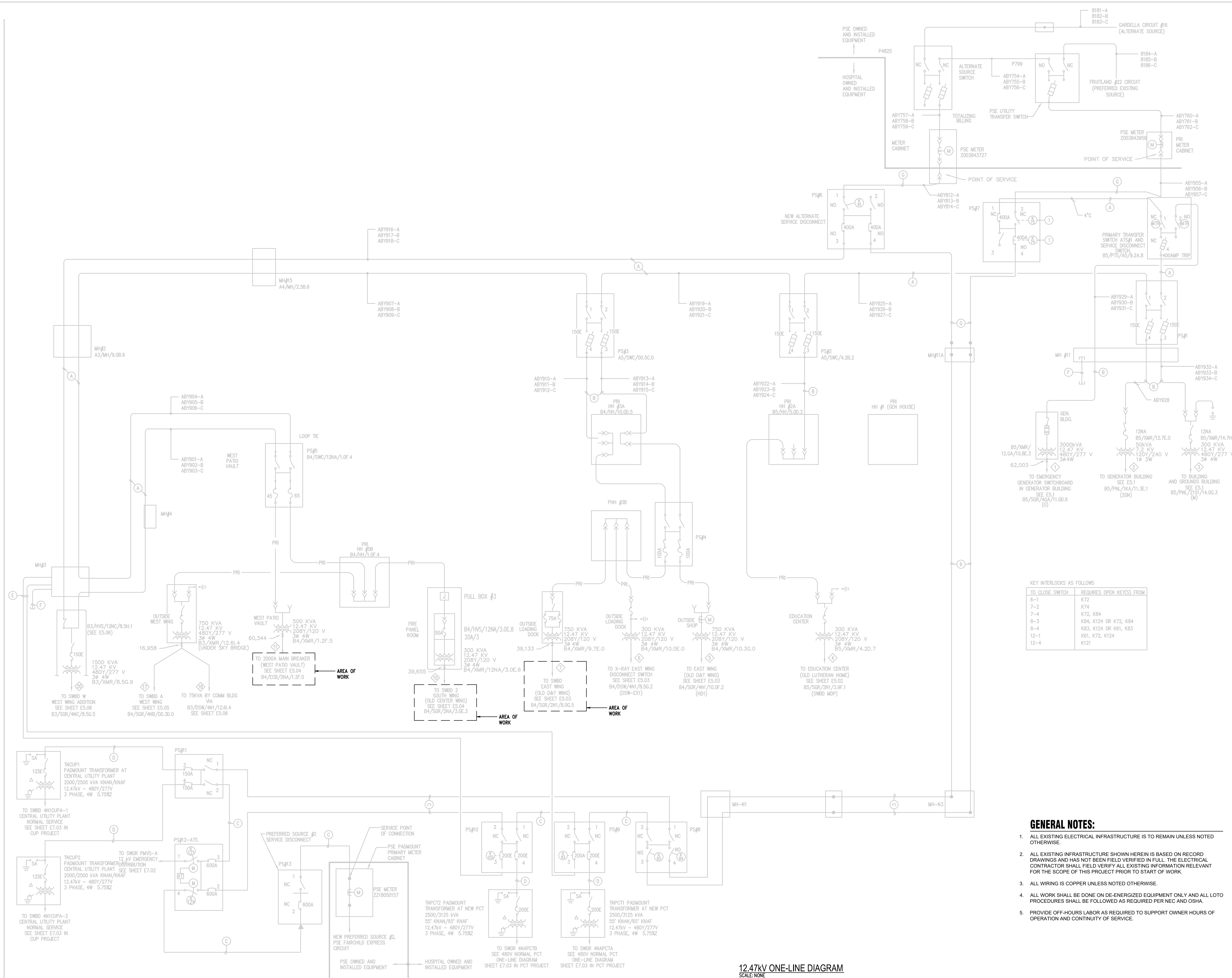
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1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	11/14/25
3	LNI Correction Response	7/11/25
4	ISSUE	7/11/25

Job Number	Issue	B24-1111	TITLE

**ONE-LINE DIAGRAM-EXISTING 12.47KV**

**SHEET NUMBER**

**E50-00**



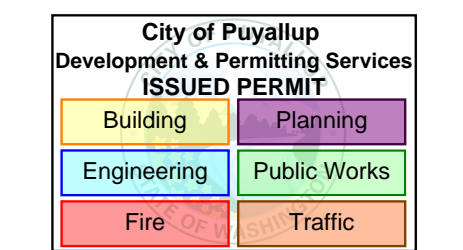
**KEY INTERLOCKS AS FOLLOWS**

TO CLOSE SWITCH	REQUIRES OPEN KEY(S) FROM
6-1	K72
7-2	K74
7-4	K72, K84
8-3	K84, K124 OR K72, K84
8-4	K83, K124 OR K61, K83
12-1	K61, K72, K124
12-4	K121

**GENERAL NOTES:**

- ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
- ALL EXISTING INFRASTRUCTURE SHOWN HEREIN IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT PRIOR TO START OF WORK.
- ALL WIRING IS COPPER UNLESS NOTED OTHERWISE.
- ALL WORK SHALL BE DONE ON DE-ENERGIZED EQUIPMENT ONLY AND ALL LOTO PROCEDURES SHALL BE FOLLOWED AS REQUIRED PER NEC AND OSHA.
- PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.

**12.47KV ONE-LINE DIAGRAM**  
 SCALE: NONE

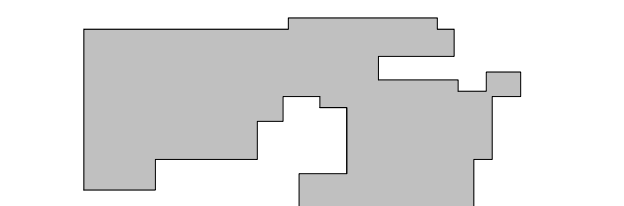


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KEY PLAN

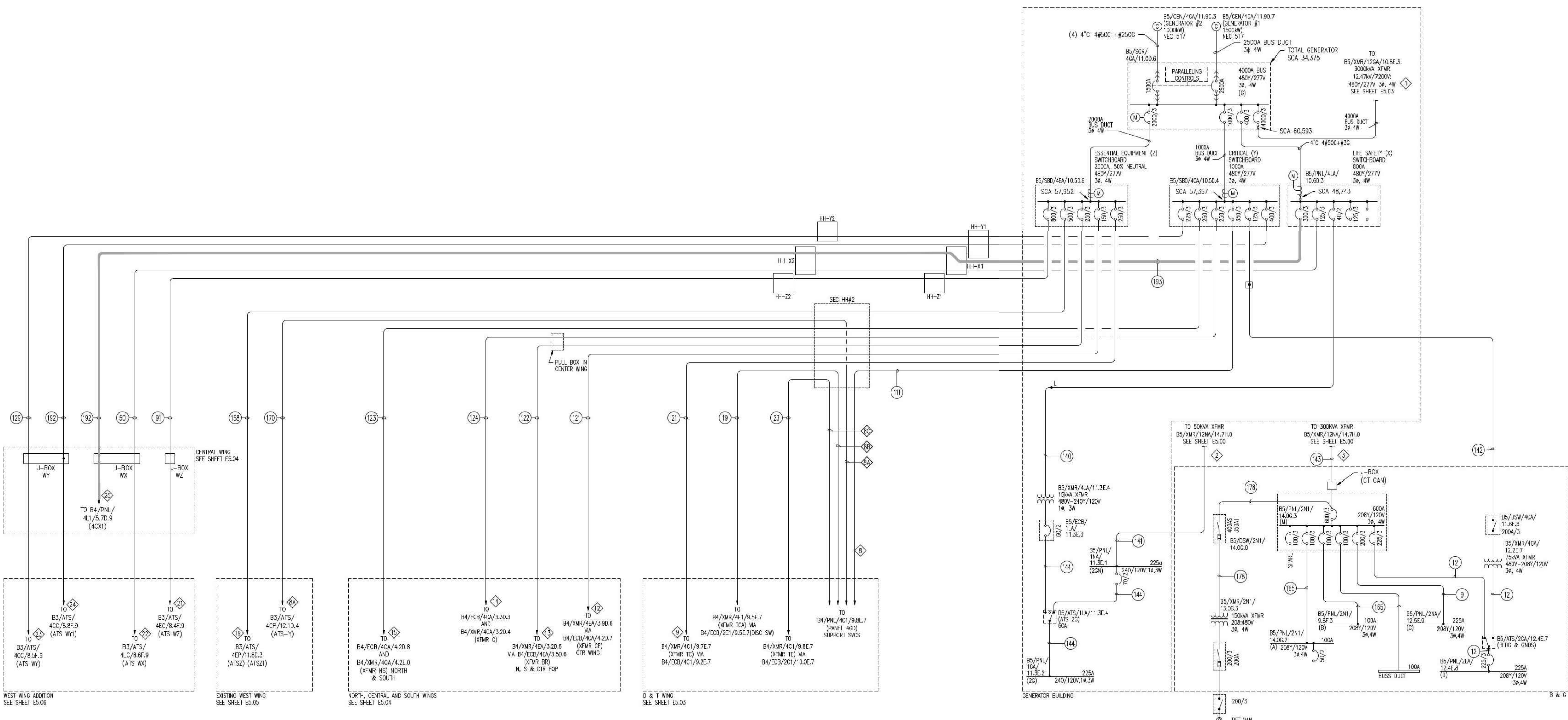


ISSUE CHART

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	11/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	
Job Number	B24-1111	TITLE

**ONE-LINE DIAGRAM -  
 EXISTING ESSENTIAL  
 SYSTEM & FACILITY**  
 SHEET NUMBER

**E50-01**

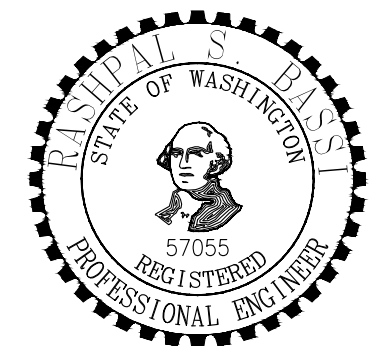
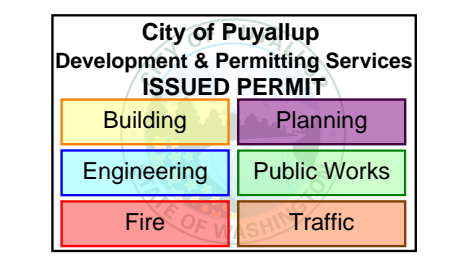


**ONE-LINE DIAGRAM - ESSENTIAL SYSTEM & FACILITY**

**FOR REFERENCE ONLY**

**GENERAL NOTES:**

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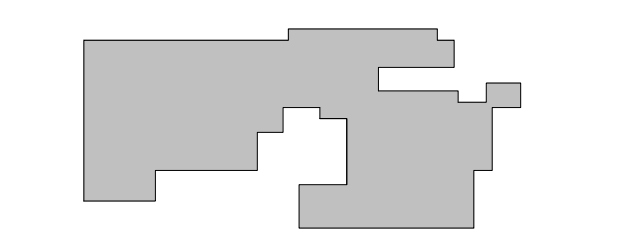


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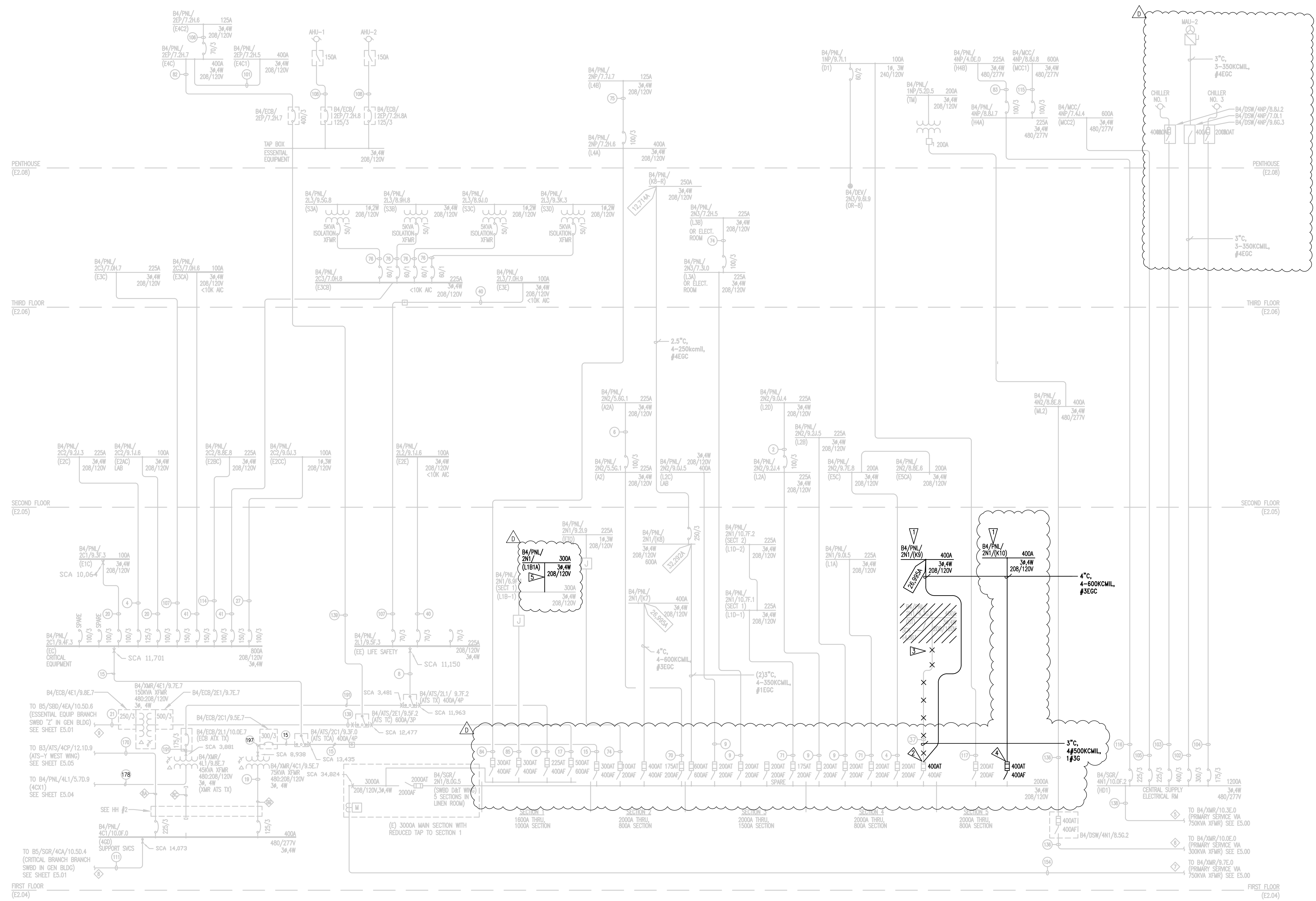


ISSUE CHART

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS 01	1/14/25
3	LNI Connection Response	7/11/25
4	ISSUE	
Job Number		B24-1111
TITLE		

**PHASE 2 -  
 ONE-LINE DIAGRAM -  
 D & T WING**  
 SHEET NUMBER

**E50-03-2**



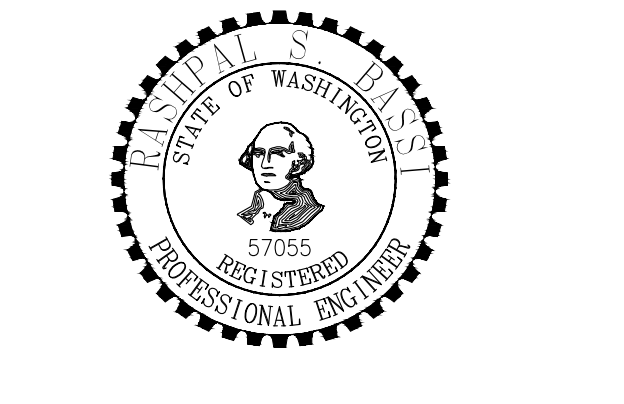
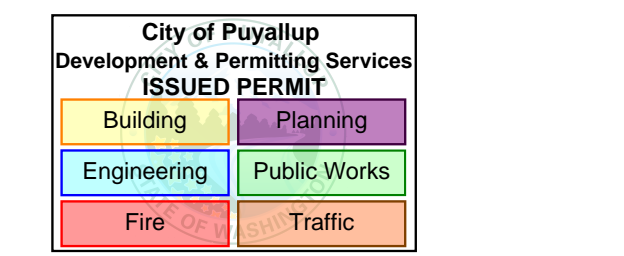
**D&T WING DISTRIBUTION WIRING DIAGRAM BELOW 1000V - MODIFIED**

**FLAG NOTES:**

- 1. PROVIDE NEW PANEL WITH MAIN CIRCUIT BREAKER.
- 2. WHEN EXISTING FEEDER TO PANEL ST IS REMOVED, UTILIZE EXISTING OCP DEVICE TO FEED NEW PANEL K11. VERIFY FUSE SIZE AND REPLACE WITH 400A FUSE IF SMALLER.
- 3. DEMOLISH EXISTING PANEL AND ASSOCIATED FEEDER BACK TO SOURCE SWITCHBOARD.
- 4. PROVIDE NEW 400A BREAKER WHERE 200A WAS REMOVED IN PHASE 1.
- 5. FEED-THROUGH CONNECTION TO NEW PANEL LOCATED IN SERVERY AREA. REFER TO SHEET E5004-1 FOR CONTINUATION.

**GENERAL NOTES:**

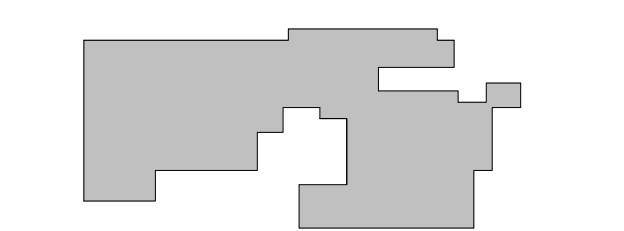
1. ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
2. ALL EXISTING INFRASTRUCTURE SHOWN HEREIN IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT.
3. ALL WIRING IS COPPER UNLESS NOTED OTHERWISE.
4. ALL WORK SHALL BE DONE ON DE-ENERGIZED EQUIPMENT ONLY AND ALL LOTO PROCEDURES SHALL BE FOLLOWED AS REQUIRED PER NEC AND OSHA.
5. REFER TO EBXX SERIES SHEETS FOR PANEL SCHEDULES AND LOAD CALCULATIONS.
6. PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.



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KEY PLAN



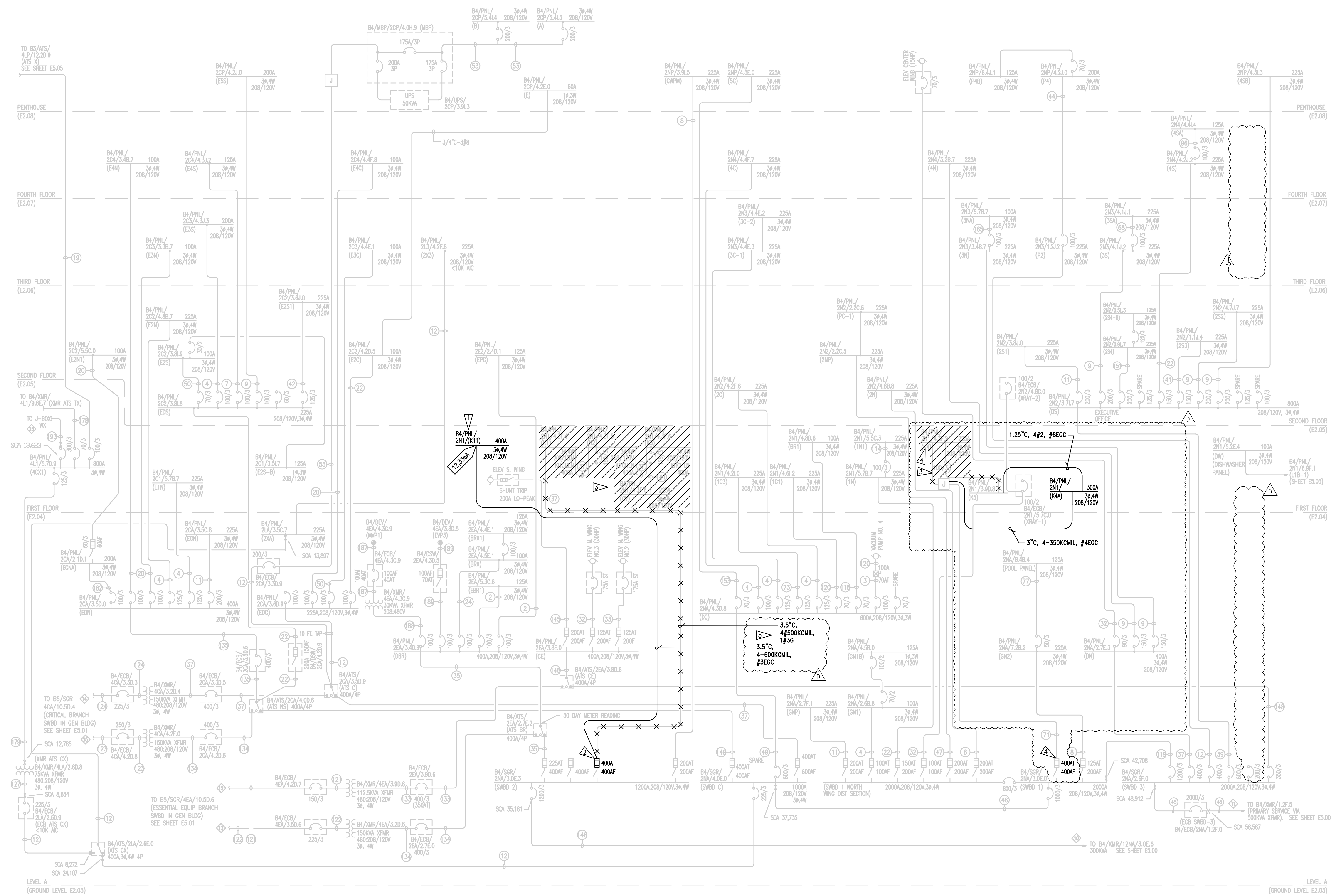
ISSUE CHART

0	PHASE 2 Revision 1	4/24/2008
1	CITY OF PUYALLUP POH SET	11/13/2025
2	AS1-01	1/14/25
1	LNI Correction Response	7/11/25
ISSUE	DATE	DATE

Job Number B24-1111

TITLE  
**PHASE 2 -  
 ONE-LINE DIAGRAM-  
 NORTH CENTRAL &  
 SOUTH WINGS**  
 SHEET NUMBER

**E50-04-2**



**NORTH, CENTRAL & SOUTH WING DISTRIBUTION WIRING DIAGRAM BELOW 1000V - MODIFIED**

**FLAG NOTES:**

- 1 PROVIDE NEW PANEL WITH MAIN CIRCUIT BREAKER.
- 2 UTILIZE EXISTING OCP DEVICE TO FEED NEW PANEL. VERIFY FUSE SIZE AND REPLACE WITH 400A FUSE IF SMALLER.
- 3 DEMOLISH EXISTING PANELS AND ASSOCIATED FEEDERS BACK TO JUNCTION BOX AT SERVERY ENTRANCE. PROVIDE NEW 200A FEEDER FROM JUNCTION BOX TO NEW PANEL K4A.
- 4 WHEN EXISTING FEEDER TO PANEL K4 IS REMOVED, REFEED REMAINING CIRCUITS FROM NEW PANEL K4A.
- 5 DEMO EXISTING WIRING AND SALVAGE EXISTING 3.5\"/>

**GENERAL NOTES:**

- 1. ALL EXISTING ELECTRICAL INFRASTRUCTURE IS TO REMAIN UNLESS NOTED OTHERWISE.
- 2. ALL EXISTING INFRASTRUCTURE SHOWN HEREIN IS BASED ON RECORD DRAWINGS AND HAS NOT BEEN FIELD VERIFIED IN FULL. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING INFORMATION RELEVANT FOR THE SCOPE OF THIS PROJECT.
- 3. ALL WIRING IS COPPER UNLESS NOTED OTHERWISE.
- 4. ALL WORK SHALL BE DONE ON DE-ENERGIZED EQUIPMENT ONLY AND ALL LOTO PROCEDURES SHALL BE FOLLOWED AS REQUIRED PER NEC AND OSHA.
- 5. REFER TO EBXX SERIES SHEETS FOR PANEL SCHEDULES AND LOAD CALCULATIONS.
- 6. PROVIDE OFF-HOURS LABOR AS REQUIRED TO SUPPORT OWNER HOURS OF OPERATION AND CONTINUITY OF SERVICE.

FEEDER SCHEDULE – ABOVE 600V					
PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUND/ED NEUTRAL CU	REMARKS
A	1		3 #4/0 15kV Cables	#4/0 600V	
B	1		3 #1/0 15kV Cables	#1/0 600V	
C	1	6"	3 #750 15kV Cables	#4/0 600V	
D	1	6"	SPARE		
	1	4"	3 #2 15kV Cables	#2 600V	
E	1	4"	SPARE		
F	2	4"	SPARE		
G	1	4"	3 #250 15kV Cables	#4/0 600V	
H	1	4"	3 #250 15kV Cables	#4/0 600V	
	1	6"	SPARE		

**GENERAL NOTES:**

- FEEDER SCHEDULE SHOW BOTH NEW, MODIFIED, AND EXISTING FEEDERS.
- ALL CONDUCTORS ARE COPPER, UNLESS OTHERWISE NOTED.
- CONDUIT PATHWAYS USED AS GROUND CONDUCTOR UNLESS NOTED OTHERWISE.

**FOR REFERENCE ONLY**

FEEDER SCHEDULE – BELOW 600V					
PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUND	REMARKS
1	1	3/4"	3 #8		
2	1	1-1/4"	4 #2		
3	1	1-1/4"	3 #2 + 1#4N	1 #8	
4	1	2"	4 #2		
5	1	1-1/4"	4 #1	1 #8	
6	1	1-1/2"	4 #1	1 #6	
7	1	2"	4 #1		
8	1	2"	4 #3/0		
9	1	2"	4 #3/0	1 #6	
10	1	2"	3 #4/0	1 #4	
11	1	2-1/2"	4 #3/0		
12	1	2-1/2"	4 #4/0	1 #4	
13	1	2-1/2"	4 #4/0		
14	1	3"	3 #300 kcMIL	#2	
15	1	3"	4 #350 kcMIL	#4	
16	1	3"	3 #400 kcMIL	#3	
17	2	3"	3 #300 kcMIL + 1 #2/0		
18	1	1"	4 #6	1 #10	
19	1	1-1/2"	3 #1/0	1 #2	
20	1	1-1/2"	4 #2	1 #8	
21	1	2-1/2"	3 #250 kcMIL		
22	1	2"	4 #1/0		
23	1	3/4"	3 #4	1 #8	
24	1	1-1/4"	4 #3	1 #8	
25	1	3"	3 #600kcMIL	1 #2	
26	1	3/4"	3 #8	1 #8	
27	1	1 1/4"	3 #2	1 #8	
28	1	2-1/2"	3 #500kcMIL	1 #2	
29	1	3-1/2"	4 #500kcMIL		
30	1	3-1/2"	3 #400 kcMIL	1 #3	
31	7	3-1/2"	3 #500 kcMIL	1 #4/0	
	3	3-1/2"	Spore		
32	1	1-1/4"	3 #2		
33	1	2"	3 #2/0		
34	1	2-1/2"	3 #350 kcMIL + 1 #6 N		
35	1	3"	3 #500 kcMIL + 1 #3/0 N	1 #3	
36	2	2"	4 #3/0		
37	1	3"	4 #500 kcMIL	1 #3	
38	1	2-1/2"	5 #3/0		
39	2	3"	4 #300 kcMIL		
40	1	1-1/4"	4 #4	1 #8	
41	1	2"	4 #1/0	1 #6	
42	1	1-1/2"	4 #1		
43	1	1"	4 #4		
44	1	2"	4 #1	1 #8	
45	6	4"	4 #500 kcMIL	1 #250 kcMIL	
46	3	3"	4 #500 kcMIL		
47	1	2-1/2"	3 #3/0 + 1 #1/0 N		
48	1	3"	4 #4/0	1 #4	
49	2	2-1/2"	4 #350 kcMIL		
50	1	1-1/2"	3 #2	1 #8	
51	1	1"	5 #6		
52	1	1-1/2"	Spore		
53	1	2"	4 #3/0	1 #4	
54	1	1-1/4"	4 #6		
55	2	3"	3 #350 kcMIL + 1 #3/0		
56	1	2"	5 #4/0		
57	1	1-1/4"	4 #3		
58	1	2"	3 #300 kcMIL		
59	1	3/4"	4 #8		
60	1	3/4"	4 #6		
61	1	2"	4 #2/0		
62	1	2"	4 #3/0, 5 #8 control		
63	1	1-1/2"	4 #4, 5 #8 control		
64	2	3"	3 #500 kcMIL		
65	1	3"	4 #500 kcMIL, 5 #8 control		
66	1	1/2"	3 #12		
67	1	1/2"	2 #12		
68	1	1-1/4"	4 #2	1 #6	
69			#1/0		
70			#2/0		
71			#3/0		
72			#4/0		
73			4#4/0		
74			#2		
75			#4		
76			#6		
77			#8		
78			#10		
79			#12		
80			500 kcMIL		
81			500 kcMIL, 1 #1 Neutral		
82			500 kcMIL, 1 #3 Neutral		
83			#1		
84			300 kcMIL		
85			350 kcMIL		
86			#2, #4 Neutral		
87			#6, #8 Neutral		
88	1	2-1/2"	3 #400 kcMIL	1 #6	
89	3	4"	3 #500 kcMIL	1 #250	
90	1	1"	4 #6		
91	2	3-1/2"	3 #600 kcMIL	1 #1/0	
92	1	3-1/2"	3 #600 kcMIL	1 #2	
93	2	3"	4 #350 kcMIL	1 #1	
94	1	2"	4 #1/0	1 #1/0	
95	1	2-1/2"	5 #4/0	2 #6	
96	1	1-1/2"	4 #1/0	1 #6	
97	1	1"	3 #4	1 #8	
98	1	1-1/4"	3 #2	1 #6	
99	1	1/2"	4 #10	1 #10	
100			#4/0, #1/0 Neutral		
101	1	3"	4 #500	1 #1	
102	1	3"	3 #350 kcMIL	1 #4	
103	1	3"	3 #400 kcMIL	1 #3	
104	1	2-1/2"	3 #3/0	1 #4	
105	1	2-1/2"	3 #4/0	1 #4	
106			#4, #6 Neutral		
107	1	2-1/2"	4 #2/0		

FEEDER SCHEDULE – BELOW 600V					
PLAN MARK	# OF SETS	CONDUIT SIZE	CONDUCTORS	GROUND	REMARKS
108			3 #1/0 + 1 #3N	1 #3	
109			3 #750 kcMIL	1 #3	
110	1	3"	3 #1/0	1 #6	
111	1	3"	4 #400 kcMIL		
112	1	3"	4 #350 kcMIL		
113	1	1-1/2"	3 #2	1 #2	
114	1	1-1/2"	4 #1	1 #8	
115	1	1-1/4"	3 #1	1 #1	
116	1	3"	3 #4/0 + 1 #1/0 N	1 #6	
117	1	1-1/2"	2 #1/0	1 #8	
118	1	1-1/4"	2 #2		
119	3	3-1/2"	4 #600 kcMIL	1 #3/0	
120	1	2"	3 #4	1 #8	
121	1	2"	3 #1/0	1 #6	
122	1	2-1/2"	3 #250 kcMIL	1 #4	
123	1	3"	3 #250 kcMIL	1 #4	
124	1	3"	3 #4/0	1 #4	
125	1	1-1/4"	4 #4	1 #6	
126	1	2-1/2"	3 #3/0	1 #6	
127	1	2-1/2"	4 #4/0	1 #2	
128	1	3-1/2"	3 #600 kcMIL	1 #2	
129	1	3-1/2"	4 #750 kcMIL	1 #3	
130	1	3/4"	2 #8	1 #8	
131	3	3-1/2"	3 #500 kcMIL	1 #1/0	
132	2	1-1/2"	4 #1		
133	1		3 #350 kcMIL	1 #2	
134	1		4 #500 kcMIL	1 #1/0	
135	2		4 #250 kcMIL	1 #4	
136	2	2-1/2"	4 #3/0	1 #3/0	
137	6		3 #500 kcMIL		Ground conductor unverified
138	3	3"	4 #350 kcMIL		
139	1	3 1/2"	3 #750 kcMIL, 1#2 N	1#2	
140	1	3/4"	2 #8		
141	1	2 1/2"	3 #4/0		
142	1	1 1/2"	3 #1/0	1 #6	
143	2	2 1/2"	4 #300 kcM		
144	1	1"	3 #6		
145	1	1 1/4"	3 #1	1 #6	
146	6	-	4 #350 KCM		
147	1	1/2"	3 #10	1 #10	
148	1	2 1/2"	3 #350 KCM, #3 N	1 #3	
149	1	4"	4 #500 KCM		
150	1	1 1/4"	4 #1		
151	1	2"	4 #3/0, 1#6 IG	1 #6	
152	3	4"	4 #500 KCM		
153	1	1"	3 #4, #6 NEUT		
154	7	3 1/2"	3 #500 KCM, #4/0 NEUT		
155	1	3 1/2"	3 #600 KCM, #500 KCM NEUT	#2	
156	2	2 1/2"	4 #4/0	1 #3	
157	2	2 1/2"	4 #4/0	1 #2	
158	2	2 1/2"	3 #350 KCM	1 #2	
159	2	2 1/2"	4 #3/0, 1#1/0 ISOL GND	#3/0	
160	2	2"	3 #3/0		
161	1	2 1/2"	3 #350 KCM	#4	
162	2	2 1/2"	3 #250 KCM	#1	
163	1	2 1/2"	3 #350 KCM	#1/0	
164	1	2 1/2"	3 #4/0	#4	
165	1	1 1/4"	4 #2	#8	
166	1	3 1/2"	4 #500 KCM	#2	
167	1	3"	3 #500 KCM	#2	
168	1	-	4 #1/0	#2	Tap inside Panelboard
169	1	-	4 #2	#4	Tap inside Panelboard
170	1	3"	4 #1/0, 5#8 CONTROL	#6	
171	1	2"	3#2/0	#2/0	
172	1	3 1/2"	4#4/0	#4	
173	1	1 1/4"	2#2, #4 NEUT		
174	1	1 1/4"	2#1/0, #1 NEUT	#6	
175	1	1"	4#6	1#10	
176	1	3/4"	3#10	1#10	
177	1	1 1/2"	4#1	1#6	
178	1	1"	3#4	1#8	
179	1	1 1/2"	3#1	1#6	
180	1	3/4"	4#8	1#10	
181	1	3/4"	3#10	1#10	
182	1	1 1/4"	2#4, 1 #8 NEUT	1#6	
183	1	2"	3 #3/0	1#4	
184	1	1"	3 #2		
185	1	1 1/4"	2#2, 1#4 NEUT		
186	1	3/4"	3 #12		
187	1	3/4"	3 #6		
188	1	1 1/4"	3 #2	1#6	
189	1	1 1/4"	3#2, 1#4 NEUT	1#4	
190	1	2"	4 #4/0	1#6	
191	1	2"	4 #2/0	1#4	
192	1	4"	3#750, 1#600N	1#2/0	
193	1	3"	4#500	1#2	
194	1	2"	4#1/0	1#2	
195	2	2 1/2"	3#3/0	1#1	
196	1	1"	4#6	1#8	
197	1	3"	4#350	1#2	
198	2	2"	4#2/0	1#2	
199	2	3"	4#350	1#1/0	
200	1	3"	3#500 + 3/0N		
201	1	3"	3#500 + 3/0N	1#2	
202	1	2"	4#2	1#8	
203	1	1 1/4"	3#2	1#8	
204	1	3"	3#500 + #3N	1#3	
205	1	3 1/2"	4#600	1#3	

**Perkins&Will**

1301 5th Ave  
#2300, Seattle, WA 98101  
1-12063818000  
www.perkinswill.com

**CONSULTANTS**

**FOOD SERVICE**

**INMAN FOOD SERVICES**  
3807 Charlotte Avenue,  
Nashville, Tennessee 37209  
civil

**AHBL**

1200 6th Ave #1620,  
Seattle, WA 98101

**STRUCTURAL**

**PCS**

1011 Western Avenue, Suite 810  
Seattle, WA 98104

**CONTRACTOR**

**SELLEN**

227 Westlake Ave,  
Seattle, WA 98109

**PLUMBING**

**MACDONALD MILLER**

1004 Madison St,  
Seattle, WA 98104

**MECHANICAL**

**MACDONALD MILLER**

1004 Madison St,  
Seattle, WA 98104

**ELECTRICAL**

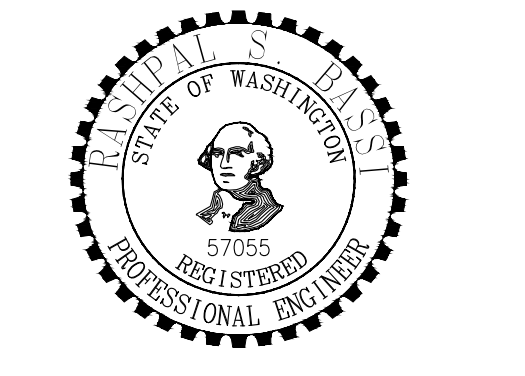
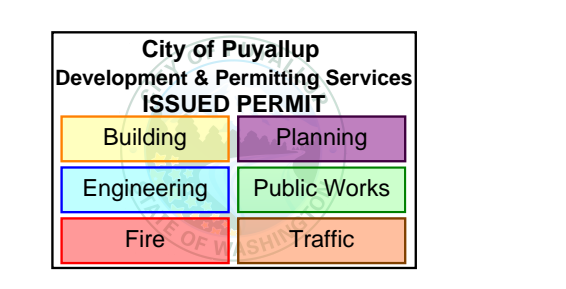
**EBD SERVICES**

1490 Interurban Ave S #143  
Seattle, WA 98168

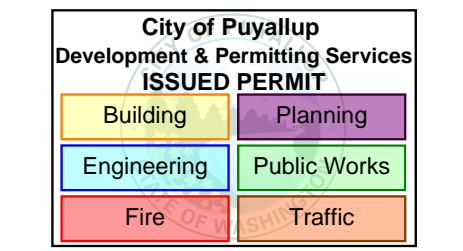
**PROJECT MANAGER**

**TURNER & TOWNSEND**

920 5th Avenue,  
Seattle, WA 98104



**Multicare Good Samaritan Hospital Kitchen**  
401 15th Ave SE,  
Puyallup, WA

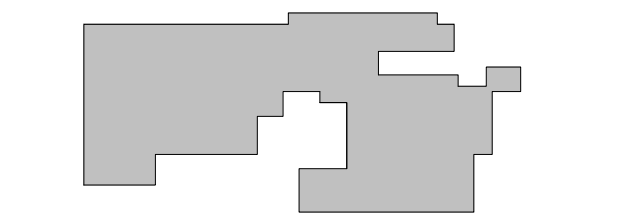


**MultiCare**  
**Good Samaritan**  
**Hospital Kitchen**  
401 15th Ave SE,  
Puyallup,  
WA 98372

**MultiCare**  
**Good Samaritan Hospital**

**MULTICARE**

KEY PLAN



ISSUE CHART

0	PHASE 2 Revision 1	4/24/2025
1	CITY OF PUYALLUP CDH SET	11/13/2025
2	AS1 01	11/14/25
1	LNI Correction Response	7/11/25
1	ISSUE	3/8/25

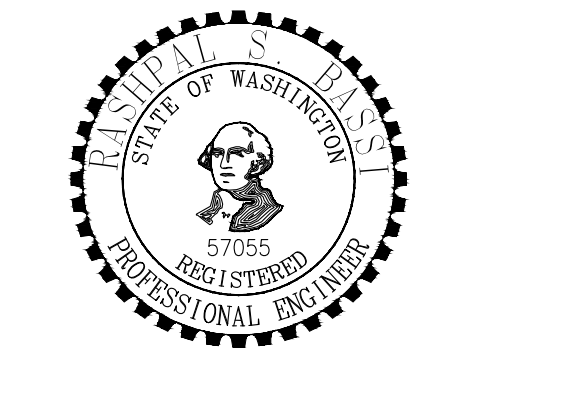
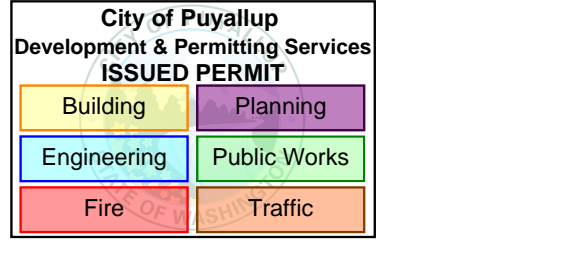
Job Number B24-1111

TITLE

**PHASE 2 - EQUIPMENT**  
**COORDINATION**  
**SCHEDULES**  
SHEET NUMBER

**E80-02**

FBS SCHEDULE - PHASE 2													
EQPT#	EQPT DES-cription	VOLTAGE	PHASE	AMPS	KVA	CONNECTION TYPE	PANEL NAME	CIRCUIT NUMBER	NUMBER OF CB POLES	OCB	FEEDER	NOTES	
E1C	ROLL-IN REFRIGERATOR	120	1	6.3	0.8	NEMA 5-15	K9	1	1	15/1	1/2" C, 3#12		
E2C	HOOD LIGHTS	120	1	15.0	1.8	HARDWIRED	K9	14	1	20/1	1/2" C, 3#12		
E3C-1	WORKTOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K9	3	1	15/1	1/2" C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E4C-1	WORKTOP FREEZER	120	1	4.8	0.6	NEMA 5-15	K9	7	1	15/1	1/2" C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E4C-1	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K10	21.23	1	50/2	3/4" C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E4C-2	FLASH BAKE OVEN	208	1	40.0	8.3	NEMA 6-50	K10	22.24	1	50/2	3/4" C, 2#6, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E5C	FIRE SUPPRESSION SYSTEM	120	1	10.0	1.2	HARDWIRED	K9	2	1	20/1	1/2" C, 3#12		
E6C-1	PASTA COOKER	208	3	21.7	7.8	NEMA 15-30	K10	1.3,5	3	30/3	3/4" C, 3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E6C-2	PASTA COOKER	208	3	21.7	7.8	NEMA 15-30	K10	2.4,6	3	30/3	3/4" C, 3#10, #10G	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E7C	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K9	11	1	15/1	1/2" C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E8C	REFRIGERATED EQUIPMENT STAND	120	1	4.2	0.5	NEMA 5-15	K9	15	1	15/1	1/2" C, 3#12	EQUIPMENT UNDER HOOD. PROVIDE SHUNT TRIP.	
E9C	ROLL-IN REFRIGERATOR	120	1	5.1	0.6	NEMA 5-15	K9	19	1	15/1	1/2" C, 3#12		
E10C-1	MOBILE HEATED DISH DISPENSER	208	1	4.6	1.0	NEMA 6-15	K10	27,29	2	15/2	1/2" C, 2#12, #12G		
E10C-2	MOBILE HEATED DISH DISPENSER	208	1	4.6	1.0	NEMA 6-15	K10	28,30	2	15/2	1/2" C, 2#12, #12G		
E11C-1	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	9,11,13	3	30/3	3/4" C, 3#10, #10G		
E11C-2	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	10,12,14	3	30/3	3/4" C, 3#10, #10G		
E12C	PRINTER	120	1	15.0	1.8	NEMA 5-20	K9	4	1	20/1	1/2" C, 3#12		
E13C	COMM DATA PORT										2-CAT6		
E14C	ROOM SERVICE COUNTER LOAD CENTER	208	3	141.7	51.0	HARDWIRED	K9	37,39,41	3	200/3	2" C, 3#30, #3/0N, #6G		
E14C-A	PRINTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-B	3-WELL MOBILE HEATED CABINET	208	1	19.3	4.0						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-C	REFRIGERATED SANDWICH PREP UNIT	120	1	4.9	0.6						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-D	HEAT LAMP	208	1	9.7	8.1						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=4
E14C-E	CONVEYOR TOASTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-F	4-WELL MOBILE HEATED CABINET	208	1	25.8	5.4						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-G	COUNTERTOP FOOD WELL	120	1	8.3	1.0						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-H	COFFEE BREWER	208	1	30.0	6.2						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=2
E14C-J	COFFEE BREWER	208	1	30.0	12.5						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-K	SCANNER	120	1	15.0	3.6						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=2
E14C-L	MICROWAVE OVEN	208	1	20.0	4.2						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E14C-M	CONVENIENCE OUTLET	120	1	16.0	1.9						PREFABRICATED BY FACTORY WITH ITEM E14C		QTY=1
E15C	EMPTY CONDUIT FOR EDIPOS SYSTEMS & PRINTERS										1" C		
E16C	ROOM SERVICE COUNTER LOAD CENTER	208	3	158.4	57.4	HARDWIRED	K9	38,40,42	3	200/3	2" C, 3#30, #3/0N, #6G		
E16C-A	MOBILE HEATED DISH DISPENSER	208	1	4.6	1.0						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=2
E16C-B	BASE ACTIVATOR	208	3	23.5	16.9						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=2
E16C-C	PRINTER	120	1	15.0	5.4						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=3
E16C-D	3-WELL MOBILE HEATED CABINET	208	1	19.3	4.0						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-E	HEAT LAMP	208	1	9.7	8.1						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=4
E16C-F	REFRIGERATED SANDWICH PREP UNIT	120	1	4.8	0.6						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-G	4-WELL MOBILE HEATED CABINET	208	1	25.8	5.4						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-H	CONVEYOR TOASTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-I	COUNTERTOP FOOD WELL	120	1	8.3	1.0						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-J	COFFEE BREWER	208	1	30.0	6.2						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-K	MICROWAVE OVEN	208	1	20.0	4.2						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E16C-M	CONVENIENCE OUTLET	120	1	16.0	1.9						PREFABRICATED BY FACTORY WITH ITEM E16C		QTY=1
E17C-1	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	21	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E17C-2	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	23	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E17C-3	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	25	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E17C-4	AIR CURTAIN REFRIGERATOR	120	1	8.5	1.0	NEMA 5-15	K9	27	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E18C-1	MOBILE AIR CURTAIN REFRIGERATOR	120	1	7.1	0.9	NEMA 5-15	K9	29	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E18C-2	MOBILE AIR CURTAIN REFRIGERATOR	120	1	7.1	0.9	NEMA 5-15	K9	31	1	15/1	1/2" C, 3#12	PROVIDE RECEPTACLE ON DROP CORD FROM CEILING	
E19C	COMM DATA PORT										2-CAT6		
E20C	EMPTY CONDUIT FOR EDIPOS SYSTEMS & PRINTERS										1" C		
E21C	HOOD CONTROLLER	120	1	15.0	1.8	HARDWIRED	K9	6	1	20/1	1/2" C, 3#12		
E22C	MARVEL CONTROL PANEL	120	1	15.0	1.8	HARDWIRED	K9	10	1	20/1	1/2" C, 3#12		
E23C	REMOTE PULL STATION												
E1D	ROOM SERVICE COUNTER LOAD CENTER	208	3	152.5	54.9	HARDWIRED	K11	55,57,59	3	200/3	2" C, 3#30, #3/0N, #6G		
E1D-A	BASE ACTIVATOR	208	3	23.5	16.9						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=2
E1D-B	PRINTER	120	1	15.0	5.4						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=3
E1D-C	MOBILE HEATED PLATE DISPENSER	208	1	4.6	1.0						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=2
E1D-D	3-WELL MOBILE HEATED CABINET	208	1	19.3	4.0						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-E	HEAT LAMP	208	1	9.7	8.1						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=4
E1D-F	4-WELL MOBILE HEATED CABINET	208	1	25.8	5.4						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-G	REFRIGERATED SANDWICH PREP UNIT	120	1	4.8	0.6						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-H	COUNTERTOP FOOD WELL	120	1	14.0	1.7						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-I	COUNTERTOP FOOD WELL	120	1	8.3	1.0						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-K	COFFEE BREWER	208	1	30.0	6.2						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-L	CONVEYOR TOASTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E1D-M	CONVENIENCE OUTLET	120	1	16.0	1.9						PREFABRICATED BY FACTORY WITH ITEM E1D		QTY=1
E2D	ROOM SERVICE COUNTER LOAD CENTER	208	3	128.8	46.4	HARDWIRED	K10	37,39,41	3	200/3	2" C, 3#30, #3/0N, #6G		
E2D-A	PRINTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-B	3-WELL MOBILE HEATED CABINET	208	1	19.3	4.0						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-C	HEAT LAMP	120	1	9.7	4.7						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=4
E2D-D	4-WELL MOBILE HEATED CABINET	208	1	25.8	5.4						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-E	REFRIGERATED SANDWICH PREP UNIT	120	1	4.8	0.6						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-F	MICROWAVE OVEN	208	1	14.0	2.9						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-G	SCANNER	120	1	15.0	3.6						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=2
E2D-H	COFFEE BREWER	208	1	30.0	18.7						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=3
E2D-J	COUNTER TOP HOT FOOD WELL	120	1	8.3	1.0						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-K	CONVEYOR TOASTER	120	1	15.0	1.8						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E2D-L	CONVENIENCE OUTLET	120	1	16.0	1.9						PREFABRICATED BY FACTORY WITH ITEM E2D		QTY=1
E3D-1	BASE ACTIVATOR	208	3	23.5	8.5	NEMA 430R9W	K10	15,17,19					



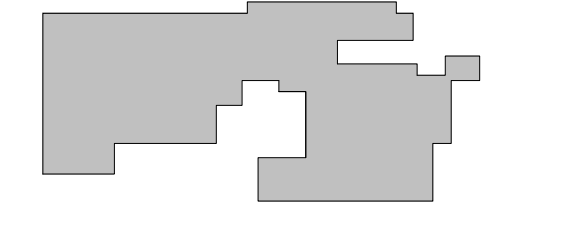
**Multicare Good Samaritan Hospital Kitchen**  
401 15th Ave SE,  
Puyallup, WA 98372

Multicare Good Samaritan Hospital

MULTICARE

100% CD SET 06/30/2025

KEY PLAN



ISSUE CHART

Job Number B24-1111  
TITLE

PHASE 2 - PANEL SCHEDULES & OVERALL LOAD CALCULATIONS  
SHEET NUMBER

E80-04

PANEL SCHEDULE														B4/PNL/2N1/4.1F.4(K9)-NEW																									
208 VY 120 VOLTS		NORMAL POWER		BUS RATING: 400 AMPS		LOCATION: SURFACE		ELECTRICAL ROOM		SPEC PANEL WITH: YES NO		FEED-THRU LUGS X		DOUBLE LUGS X		200% NEUTRAL X		208 VY 120 VOLTS		NORMAL POWER		BUS RATING: 400 AMPS		LOCATION: SURFACE		ELECTRICAL ROOM		SPEC PANEL WITH: YES NO		FEED-THRU LUGS X		DOUBLE LUGS X		200% NEUTRAL X					
3 -PHASE	PNL MFR:	SQUARE D	MAIN BKR:	MCB	A.I.C. RATING:	FED FROM:	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	3 -PHASE	PNL MFR:	SQUARE D	MAIN BKR:	MCB	A.I.C. RATING:	FED FROM:	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D			
4 -WIRE	CAT. NO.:	NG424C			42.000	ACI SYM													4 -WIRE	CAT. NO.:	NG424C			42.000	ACI SYM														
DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.			
1	E1C- ROLL W/REF	KITCHEN AREA C	K	0.80	151	-A	201	1.20	Z	E1C- FIRE SUPPRESSION	KITCHEN AREA C	2																											
3	E3C-1 WORKTOP FREEZER	KITCHEN AREA C	K	0.80	151	-B	201	1.80	S	E12C-1 PRINTER	KITCHEN AREA C	4																											
5	SHUNT TRIP FOR E3C-1	KITCHEN AREA C	K	0.80	151	-C	201	1.80	Z	E12C-1 HOOD CONTROLLER	KITCHEN AREA C	6																											
7	E3C-2 WORKTOP FREEZER	KITCHEN AREA C	K	0.80	151	-A	201	1.80	Z	SPACE		8																											
9	SHUNT TRIP FOR E3C-2	KITCHEN AREA C	K	0.80	151	-B	201	1.80	Z	E22C- MARVEL CONTROL PANEL	KITCHEN AREA C	10																											
11	E7C-1 REFRIGERATED STAND	KITCHEN AREA C	K	0.50	151	-C	201			SPACE		12																											
13	SHUNT TRIP FOR E7C-1	KITCHEN AREA C	K	0.50	151	-A	201	0.80	L	E1C- HOOD LIGHTS	KITCHEN AREA C	14																											
15	E8C-1 REFRIGERATED STAND	KITCHEN AREA C	K	0.50	151	-B	201			SPACE		16																											
17	SHUNT TRIP FOR E8C-1	KITCHEN AREA C	K	0.50	151	-C	201			SPACE		18																											
19	E9C-1 ROLL W/REF	KITCHEN AREA C	K	0.80	151	-A	201	1.20	Z	SPACE		20																											
21	E10C-1 AIR CURTAIN REF	KITCHEN AREA C	K	1.80	151	-B	201			SPACE		22																											
23	E12C-2 AIR CURTAIN REF	KITCHEN AREA C	K	1.80	151	-C	201			SPACE		24																											
25	E17C-3 AIR CURTAIN REF	KITCHEN AREA C	K	1.50	151	-A	201			SPACE		26																											
27	E17C-4 AIR CURTAIN REF	KITCHEN AREA C	K	1.50	151	-B	201			SPACE		28																											
29	E18C-1 MOBILE AIR CURTAIN REF	KITCHEN AREA C	K	1.50	151	-C	201			SPACE		30																											
31	E18C-2 MOBILE AIR CURTAIN REF	KITCHEN AREA C	K	1.50	151	-A	201			SPACE		32																											
33	SPARE									SPACE		34																											
35	SPARE									SPACE		36																											
37	E16C LOADCENTER	KITCHEN AREA C	K	17.00		-A	201			K		38																											
41	E16C LOADCENTER	KITCHEN AREA C	K	17.00		-B	201			K		42																											

CODES:		CONNECTED LOAD	CALCULATED DEMAND LOAD	NOTES:
H	= HVAC LOADS	0.00 KVA	0.00 KVA (100%)	1. THIS IS A NEW PANELBOARD. PROVIDE GFCI BREAKERS FOR ALL CIRCUITS.
K	= KITCHEN EQUIPMENT	118.00 KVA	76.70 KVA (65%)	
L	= LIGHTING LOADS	0.00 KVA	0.00 KVA (100%)	
LM	= LARGEST SINGLE MOTOR	0.00 KVA	0.00 KVA (100%)	
M	= OTHER MOTOR LOADS	0.00 KVA	0.00 KVA (100%)	
NC	= NON-COINCIDENTAL LOADS	0.00 KVA	0.00 KVA (0%)	
R	= GENERAL USE RECEPTACLES	0.00 KVA	0.00 KVA (0%)	
S	= DEDICATED RECEPTACLES	1.80 KVA	1.80 KVA (100%)	
Z	= MISC. OR APPLIANCES	4.80 KVA	4.80 KVA (100%)	
TOTALS:		125.40 KVA	84.30 KVA	

PANEL SCHEDULE														B4/PNL/2N1/4.1F.4(K10)-NEW																									
208 VY 120 VOLTS		NORMAL POWER		BUS RATING: 400 AMPS		LOCATION: SURFACE		ELECTRICAL ROOM		SPEC PANEL WITH: YES NO		FEED-THRU LUGS X		DOUBLE LUGS X		200% NEUTRAL X		208 VY 120 VOLTS		NORMAL POWER		BUS RATING: 400 AMPS		LOCATION: SURFACE		ELECTRICAL ROOM		SPEC PANEL WITH: YES NO		FEED-THRU LUGS X		DOUBLE LUGS X		200% NEUTRAL X					
3 -PHASE	PNL MFR:	SQUARE D	MAIN BKR:	MCB	A.I.C. RATING:	FED FROM:	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	3 -PHASE	PNL MFR:	SQUARE D	MAIN BKR:	MCB	A.I.C. RATING:	FED FROM:	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D	BA/SWB/D			
4 -WIRE	CAT. NO.:	NG424C			22.000	ACI SYM													4 -WIRE	CAT. NO.:	NG424C			22.000	ACI SYM														
DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	CODE	LOAD (KVA)	BKR (AMPS)	PH	BKR (AMPS)	LOAD (KVA)	CODE	CIRCUIT DESCRIPTION	LOAD LOCATION (ROOM NO. / GRID)	DKT NO.			
1	E6C-1 PASTA COOKER	KITCHEN AREA C	K	2.60	303	-A	201	2.60	K	E6C-2 PASTA COOKER	KITCHEN AREA C	2																											
5	SHUNT TRIP FOR E6C-1	KITCHEN AREA C	K	2.60	303	-C	201	2.60	K	SHUNT TRIP FOR E6C-2	KITCHEN AREA C	6																											
9	E11C-1 BASE ACTIVATOR	KITCHEN AREA C	K	2.83	303	-C	201	2.83	K	E11C-2 BASE ACTIVATOR	KITCHEN AREA C	10																											
13	E3D-1 BASE ACTIVATOR	KITCHEN AREA D	K	2.83	303	-C	201	2.83	K	E3D-2 BASE ACTIVATOR	KITCHEN AREA D	14																											
15	E4C-1 FLASH BAKE OVEN	KITCHEN AREA C	K	4.15	502	-B	201	4.15	K	E4C-2 FLASH BAKE OVEN	KITCHEN AREA C	20																											
25	SHUNT TRIP FOR E4C-1	KITCHEN AREA C	K	4.15	502	-C	201	4.15	K	SHUNT TRIP FOR E4C-2	KITCHEN AREA C	26																											
29	E10C-1 MOBILE HEATED DISH DISPENSER	KITCHEN AREA C	K	0.50	152	-A	201	1.52	K	E10C-2 MOBILE HEATED DISH DISPENSER	KITCHEN AREA C	30																											
33	E24D-1 CARBONATOR	KITCHEN AREA D	K	1.80	201	-A	201	4.80	K	WALK-IN FREEZER COMPRESSOR	RELOCATE K312.14.16	34																											
35	RECEPT + AUTO DOOR	SUPERVISOR'S (C13.1)	R	1.10	201	-C	201	2.88	K	REFRIGERATOR COMPRESSOR	RELOCATE K318.20.22	42																											
39	E2D LOADCENTER	KITCHEN AREA D	K	15.47	2003	-B	201	300				40																											
41	E2D LOADCENTER	KITCHEN AREA D	K	15.47	2003	-C	201	300				4																											