LIGHTING CO	OMPLIANCE	SUMMA	RY								
2018 WSEC Compliance	Forms for Commercial B	buildings includi	ng Group R2, R2	3 & R4 over 3 stories and	all R1				Administered by	y: ©2023 N	IEEA, All rights reserve
]	Project Title		TacotimeNW Puy	allup - 2018 v	WSEC F	or Building Department	Use:		Data	. Con 11 202
Project & Applicant	1	Project Address	s		Main Avenue , WA 98372					Date	: Sep 11, 202
Information	7	Applicant Nam	e	Scot	tt Gore						
		Applicant Phon	ie	425-3	01-6208						
		Applicant Ema		Scott@C	aseEng.com						
	For c	questions about t	this report, conta	ct WSEC Commercial Tec	chnical Suppo	ort at 360-539-5300 o	or via email at com.techs	upport@waenergycod	les.com		
General Occupancy	Ì	All C	Commercial	General Building	Use Type		Dining, Fast Food	Building Cond. Flo	oor Area		2,975
			New Building	or		1000		Project Cond. Floo	or Area		2,975
General Project Types		New Building	Addition	Interior L Exterior L		Alteration Lighting Scope		Floors Above Grad	le		1
			Lighting Scop	e Exterior L	agitting	Lighting Scope		Compliance Metho	od	Complian	ice Method 1 - General
Lighting Project Descrip	tion			·		New T	Tacotime store				
Lighting Comp	Jianga Saana	Project Type		rior / Exterior es both interior & parking)	Luminaire	e Replacement Scop	oe Compliance Meth	od	Calculation ljustment	C	Compliance Verificatio
and Me		New Building		erior Lighting			Space by space		Adjustments sel	ected	COMPLIES
	-	New Building		erior Lighting			The state of the s		icable to exterior		COMPLIES
Additional l Options I	Efficiency						'			II.	10 4 11 11 11 11
					1						
Project Title	TacotimeNW Puya	llup - 2018 V	VSEC						Da	ite Sep	11, 2023
Lighting Power Calc	culation	NEW BUILI	DING - INTE	RIOR LIGHTING				Comp	liance Verifica	ation CO	OMPLIES
Compliance Method			Space by sp	ace		LPA Calculation	Adjustment				none
			500	Interior Lighti	ng Power All	owance - Space by	Snace				
			Ceiling				Total Watts	Allowed Tot	al Proposed Wa	tte	
General Space Type	Specific Spa	15.5	Height (Ft)	Gross Interior A	rea (SF)	LPA (Watts/SF	(SF x LPA	A University Street and A Children	PD + Display LP		Compliance Status
Corridors	Genera			490		0.41	201				
Dining area	Family di	ining		1,021		0.60	613				
Food preparation	England lass ti	h 250 C		903	:	1.09	984			1	
Office	Enclosed less t			36	:	0.74	9/10/20			1	
Restroom	Genera			180		0.63	113				
Storage room	Genera	A8003		146		0.38	56				
Retail	General s	sales		183		1.05	192		1655		
		Totals				Proposed Total	2,186		1,655		COMPLIES
									1,000		
		1		Propo		Power Density		1		Ĩ.	Total Watte
		100 - 90	Asses	Ouantity of		atts or age Limit	Total Linear	Watter	oer Linear		Total Watts Proposed
Fixtur	е Туре	Fixtur	e ID	Fixtures (#F)	per	Fixture WpF)	Feet (LF)		(WpLF)		(#F x WpF) or (LF x WpLF)
Individual Fixtures					,	p.)					(Er a per)
individual Lixtures	Decorativ	ve F7		6		3					18
	Direct / indirect pendar	_		11		47					517
	Horizontal surface-mour			1		32					32
	Troffe			6		75					450
	Danasand danualist	L4 E2		1.4		14					106

	D	I downliab	F2	14	1	14	1			Γ	106
		downlight	F3 F4	9	_	14	-				196 162
		downlight	F5	8	-	18	-			0	280
		Suspended	13	8		35				Proposed Total LPD	1655
										Troposed Total LTD	1033
Project Title	FacotimeN	W Puyallup - 20	018 WSEC							Date	Sep 11, 2023
Proposed Fixtures Det	tails	NEW B	UILDING - INTERIO	R LIGHTIN	G						
Fixture Type/Applic	eation	Fixture ID	I	ocation in Docu	iments		Lamp Type			New or Existing-to-Rei	main
ndividual Fixtures											
	Decorative	F7		E3.1			LED			New	
			n: Decorative pendant			~		Are th	ese fixtures located	within a daylight zone?	': No
		Do these fixtures re	equire specific application lig	ghting controls?:	None required						
Direct / indi	irect pendant	F1		E3.1			LED			New	
		Fixture Description						Are th	ese fixtures located	within a daylight zone?	: No
	4.500	10.75475417.07	equire specific application lig	The second secon	None required						
Horizontal su		F11		E3.1			LED			New	
		Fixture Description						Are th	ese fixtures located	within a daylight zone?	: No
			equire specific application lig		None required						
	Troffer	F2		E3.1			LED			New	
		Fixture Description				~		Are th	ese fixtures located	within a daylight zone?	: No
			equire specific application lig		None required						
Recesse	ed downlight	F3 Fixture Description		E3.1			LED			New	
		~		Are th	ese fixtures located	within a daylight zone?	: No				
		Do these fixtures re	equire specific application lig	ghting controls?:	None required						
Recesse	ed downlight	F4		E3.1	55		LED			New	
			n: Decorative Downlight					Are th	ese fixtures located	within a daylight zone?	: No
		Do these fixtures re	equire specific application lig	ghting controls?:	None required						
	Suspended	F5		E3.1			LED			New	
		Fixture Description	n: HighBay Pendant					Are th	ese fixtures located	within a daylight zone?	: No
		Do these fixtures re	equire specific application lig	ghting controls?:	None required						
Project Title	TacotimeN	W Puyallup - 20	 018 WSE <i>C</i>							Date	Sep 11, 2023
Lighting Power Calcul			UILDING - EXTERIO	D I ICUTIN	IC.		Ī		Com	pliance Verificatio	
Exterior Lighting Zone	1411011	NEW B	UILDING - EXTERIO	ZONI	1000		Base Site Allowa		Com	phance vernicatio	500
Exterior Lighting Zone				ZOM	E 3		base Site Allowa	ince			300
				Exterior	r Tradable Light	ting Power Allo					
Tradable Su	rface	Trad	able Surface Sub-Type	Surface Area (SF)	LPA (Watts/SF)	Linear Feet (LF)	LPA (Watts/LF)	(LP	Vatts Allowed A x SF) or PA x LF)	Total Tradable Proposed Watts	Tradable Compliance Status
Building gro	unds	Wa	lkways < 10 feet wide			240	0.60	(L	144		
Uncovered parking ar			Aways > 10 feet wide	43,720	0.06	240	0.00	,	2,623		
Oncovered parking an	cas and unives	<u> </u>		75,720	0.00	Pag	e Site Allowance	3	500		9
						Das	Totals		3,267	1,217	COMPLIES
									3,207	1,217	COWII EIES
				Propos	ed Tradable Lig	gnting Power D					m , 1 ***
Fixture Type	Fixtu	re ID	Tradable Surfa	асе Туре		Quantity of Fixtures (#F)	Wattage per Fix (Wp	Limit kture	Total Linear Feet (LF)	Watts per Line Foot (WpLF)	
										1	
1. 1.1 1.75		I								k.	
	cod pro-	,	TT I was a sure of the sure of	10000000000000000000000000000000000000				1			50
Pole top-mount	11 11 11 11 11 11 11 11 11		Uncovered parking area	69 80 50		1	59				59
Pole top-mount	ited FE	1	Uncovered parking area	as and drives -		1 2	59				118
200 CON 10	ted FE	3		as and drives - as and drives -		1 2 4 6		5			74

Tradable Proposed Total

Wall-mounted F9 Building grounds - Walkways < 10 feet wide

TYPE	DESCRIPTION	LAMP	WATT: FIXT
F1	2' x 4' LED TROFFER METALUX ENCOUNTER SERIES #24EN-LD1-45-UNV-L835-CD1	LED 3500K	47
F1X	SIMILAR TO F1 EXCEPT WITH BATTERY BACKUP	LED 3500K	47
F2	RECESSED NOMINALLY 3" X 8' LINEAR LED, 9.3W/FT NEO-RAY 22DR SERIES #S22-D-R-2-L35-X(VERIFY CEILING)-X(LENGTH PER PLANS)-U-DD-S92S	LED 3500K	75
F3	6" RECESSED LED DOWNLIGHT HALO H750T SERIES #H750T (HOUSING), ML5609935 (LED MODULE), 493HS06 (TRIM MODEL)	LED 3500K	14
F3X	SIMILAR TO F3 EXCEPT WITH BATTERY BACKUP	LED 3500K	14
F4	RECESSED LED DOWNLIGHT WITH GLASS LENS SHAPER DL SERIES #340-6-DL-LED835-1-18-120-SCSF-SGPF-DMA10	LED 3500K	18
F4X	SIMILAR TO F4 EXCEPT WITH BATTERY BACKUP	LED 3500K	18
F5	LARGE ARCHITECTURAL HIGH BAY COMPACT FLUORESCENT PENDANT BEGHELLI DRACO BS710 SERIES #BS710LED-WT35-MDB-12ACT-AC100-120V	LED 3500K	35
F5X	SIMILAR TO F5 EXCEPT WITH BATTERY BACKUP	LED 3500K	35
F6	EXTERIOR SCONCE, MOUNT AT +10'-6"AFG (VERIFY WITH ARCHITECT) LBL LIGHTING #LW-641-SI-LED-W	LED 2700K	10
F7	DECORATIVE PENDANT BRUCK LIGHTING SYSTEM, INC. SIERRA 222-LED/MP4	LED 3500K	3
F8	LED VANITY FIXTURE MOUNTED CENTERED ON MIRROR FIXTURE BY ARCHITECT	LED 3500K	18
F9	EXTERIOR UPLIGHT, MOUNT +20'0" AFG, REFER TO ARCHITECTURAL SHEET A7.01. FINISH BY ARCHITECT. COOPER LUMIERE SERIES - #303-W1-LEDB1-2700-UNV-T5X-DIM-XX-EDGE	LED 2700K	9
F11	WALL MOUNTED ACRYLIC WRAP LED LITHONIA LBLED SERIES	LED 3500K	32
X1	LED EXIT SIGN, UNIVERSAL MOUNT, GREEN LETTERS FIXTURE SELECTED BY ARCHITECT	LED	3
LCP	PROVIDE 16-CIRCUIT RELAY PANEL WITH DIGITAL SWITCHING (BLUEBOX #GR1416LT SERIES OR EQUAL)		

PROJECT NOTES

(APPLIES TO ALL ELECTRICAL DRAWINGS)

- 1. DRAWINGS INDICATE GENERAL DESIGN INTENT AND PLACEMENT OF EQUIPMENT ONLY. INFORMATION SHOWN IS DIAGRAMMATIC AND DOES NOT NECESSARILY SHOW EVERY REQUIRED ACCESSORY, EXTENSION OR MOUNTING OPTION. PROVIDE EQUIPMENT COMPLETE WITH ALL NECESSARY ACCESSORIES AND HARDWARE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE AUTHORITIES HAVING JURISDICTION (AHJ). PROVIDE COMPLETE OPERATING SYSTEMS MEETING THE DESIGN INTENT.
- 2. DO NOT SCALE DRAWINGS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID TO ESTABLISH THE FULL SCOPE OF WORK REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEM INSTALLATION AS INDICATED ON THE CONTRACT DOCUMENTS. INCLUDE ALL COSTS IN BID.
- 3. SEAL ALL PENETRATIONS (WALL/CEILING/FLOOR/ETC.) WITH AHJ APPROVED FIRE STOPPING MATERIAL - REFER TO ARCHITECTURAL FOR RATED WALLS, CEILING AND FLOORS.
- 4. REFER TO ARCHITECTURAL 'PROJECT GENERAL NOTES', SHEET G1.00, FOR ADDITIONAL REQUIREMENTS AND SCOPE.
- 5. THIS BUILDING IS SPRINKLED. PROVIDE FIRE ALARM CONTROL PANEL (FACP) FOR MONITORING OF CLASS 1 KITCHEN HOOD AND BUILDING AS REQUIRED BY AUTHORITY HAVING JURIDICTION (AHJ). COMPLY WITH ALL FIRE ALARM REQUIREMENTS OF THE AHJ.
- 6. THE FIRE ALARM DEVICES SHOWN ON SHEET E2.1 INDICATE THE GENERAL DESIGN INTENT ONLY, BASED ON NFPA 72. THE ACTUAL DESIGN OF THE FIRE ALARM SYSTEM SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM INSTALLER — REFER TO THE DEFERRED SUBMITTAL REQUIREMENT ON ARCHITECTURAL SHEET G1.01. THE FIRE ALARM SYSTEM DESIGN AND FINAL INSTALLATION SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND ORDINANCES APPLICABLE TO THE KIRKLAND/TOTEM LAKE PROJECT SITE.

POWER DEVICES AND EQUIPMENT

- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- DUPLEX GFCI RECEPTACLE
- DOUBLE DUPLEX GFCI RECEPTACLE
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR
- BACKSPLASH, WHEN PRESENT (VERIFY HEIGHT)
- DOUBLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- OR BACKSPLASH, WHEN PRESENT (VERIFY HEIGHT)
- COUNTER OR BACKSPLASH, WHEN PRESENT
- WEATHERPROOF WHILE-IN-USE COVER
- JUNCTION BOX WITH BLANK COVER
- FAN CONNECTION

S^M MOTOR RATED SWITCH

- PUSHBUTTON SWITCH

------ WIRING CONCEALED IN CEILING OR WALL

NEUTRAL CONDUCTOR

CONDUIT STUB-UP

SERVICE GEAR

- SWITCHBOARD OR MOTOR CONTROL CENTER, SIZE AS SHOWN ON PLANS
- - TRANSFER SWITCH
- UTILITY TRANSFORMER
- METER
- PPO UTILITY POWER POLE (SITE PLAN)
- ✓ HANDHOLE OR PULLBOX (SITE PLAN)

- O SURFACE CEILING MOUNTED DOWNLIGHT
- PENDANT MOUNTED FIXTURE OR CHANDELIER
- □ SINGLE POINT SOURCE WALL MOUNTED FIXTURE
- SURFACE MOUNTED LINEAR FIXTURE
- RECESSED LINEAR FIXTURE
- PENDANT MOUNTED LINEAR FIXTURE
- → OI LINEAR STRIP FIXTURE □ WALL MOUNTED LINEAR FIXTURE
- ₩ WALL MOUNTED STRIP FIXTURE CTTTT LINEAR UNDERCOUNTER FIXTURE
- ▼ ▼ □ TRACK LIGHT (LENGTH AS SHOWN ON PLAN)
- RECESSED WALLWASHER
- SURFACE OR PENDANT LINEAR EMERGENCY EGRESS FIXTURE

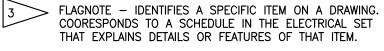
RECESSED LINEAR EMERGENCY EGRESS FIXTURE

- RECESSED EMERGENCY EGRESS DOWNLIGHT
- SURFACE EMERGENCY EGRESS DOWNLIGHT
- UNIVERSAL/CEILING MOUNTED EXIT SIGN
- 🖾 🔯 DIRECTIONAL EXIT SIGN (ARROWS INDICATE ONE OR TWO SIDES AND DIRECTION INDICATED)
- EMERGENCY EXIT SIGN WITH DUAL PATHWAY HEADS
- DUAL HEAD EMERGENCY EGRESS FIXTURE
- S SINGLE POLE LIGHT SWITCH S³ THREE POLE LIGHT SWITCH
- S DIMMER SWITCH
- S OCCUPANCY SENSOR LIGHT SWITCH
- S VACANCY SENSOR LIGHT SWITCH
- S LOW VOLTAGE SWITCH CONTROLLED BY ROOM SENSOR LIGHT SWITCH SUBSCRIPTS ARE AS FOLLOWS:
- LV = LOW VOLTAGE, D = DIMMINGb = (LOWER CASE LETTER) INDICATES FIXTURES TO
- BE CONTROLLED R# = RELAY # IN LIGHTING CONTROL PANEL S# = SENSOR ZONE
- S CEILING MOUNTED VACANCY SENSOR
- © CEILING MOUNTED OCCUPANCY SENSOR
- PHOTOCELL LIGHT SENSOR

FIRE ALARM

- F MANUAL PULL STATION
- HORN/STROBE ALARM
- F WALL MOUNTED STROBE (ONLY) ALARM
- 位 CEILING MOUNTED STROBE (ONLY) ALARM
- (S) SMOKE DETECTOR
- (H) HEAT DETECTOR
- (M) MAGNETIC DOOR HOLDER

NOTES AND MISCELLANEOUS SYMBOLS



FF-3 MECHANICAL FLAG - MECHANICAL EQUIPMENT CONNECTION (REFERS TO MECHANICAL EQUIPMENT CONNECTION SCHEDULEIN THE ELECTRICAL SET)

200 EQUIPMENT FLAG — COOKING OR OTHER SPECIAL EQUIPMENT (REFERS TO EQUIPMENT SCHEDULE IN THE ELECTRICAL SET)

REVISION CLOUD & FLAG — CLOUD SURROUNDS INFORMATION THAT HAS BEEN REVISED. FLAG NOTES THE REVISION IN WHICH THE CHANGES WERE MADE.

- E0.1 LEGEND & SCHEDULES
- E1.1 ELECTRICAL SITE PLAN EL1.1 LIGHTING CALCULATIONS SITE PLAN
- E2.1 POWER/COMMUNICATIONS PLAN
- E3.1 LIGHTING FLOOR PLAN
- E4.1 MECHANICAL CONNECTIONS ROOF PLAN
- E9.1 RISER DIAGRAM & PANEL SCHEDULES E9.2 ARC FLASH CALCULATIONS & LABELS
- E10.1 SCHEDULES

DRAWING INDEX

LEGEND & SCHEDULES

PROJECT STATUS

ELECTRICAL LEGEND RECESSED DOWNLIGHT DUPLEX RECEPTACLE MOUNTED IN CEILING

DUPLEX GFCI RECEPTACLE MOUNTED ABOVE COUNTER

OR BACKSPLASH, WHEN PRESENT (VERIFY HEIGHT) DOUBLE DUPLEX GFCI RECEPTACLE MOUNTED ABOVE

(VERIFY HEIGHT) ₩P GFCI WEATHER RESISTANT RECEPTACLE WITH

SINGLE SPECIAL PURPOSE RECEPTACLE

EQUIPMENT CONNECTION MOTOR CONNECTION

DISCONNECT SWITCH FJ FUSED DISCONNECT SWITCH

DOORBELL

TELE/COMMUNICATIONS

- ▼ TELEPHONE
- W WALL MOUNTED TELEPHONE (VERIFY MOUNTING HEIGHT) ← SINGLE GANG TELEPHONE/DATA OPENING
- TV TELEVISION OUTLET
- - WIRING CONCEALED UNDER FLOOR OR UNDERGROUND
- CONDUIT HOME-RUN CONDUCTORS IN CONDUIT

 PHASE CONDUCTOR(S)
- GROUND CONDUCTOR ----II- GROUND WIRE
- -----O CONDUIT BENDS TO CHANGE ELEVATION AT THIS POINT
- → ← CONDUIT BREAK

- CIRCUIT BREAKER PANELBOARD
- TERMINAL CABINET
- T DRY TYPE TRANSFORMER (SEE NOTES & RISER DIAGRAM FOR SIZE)

RUCTION

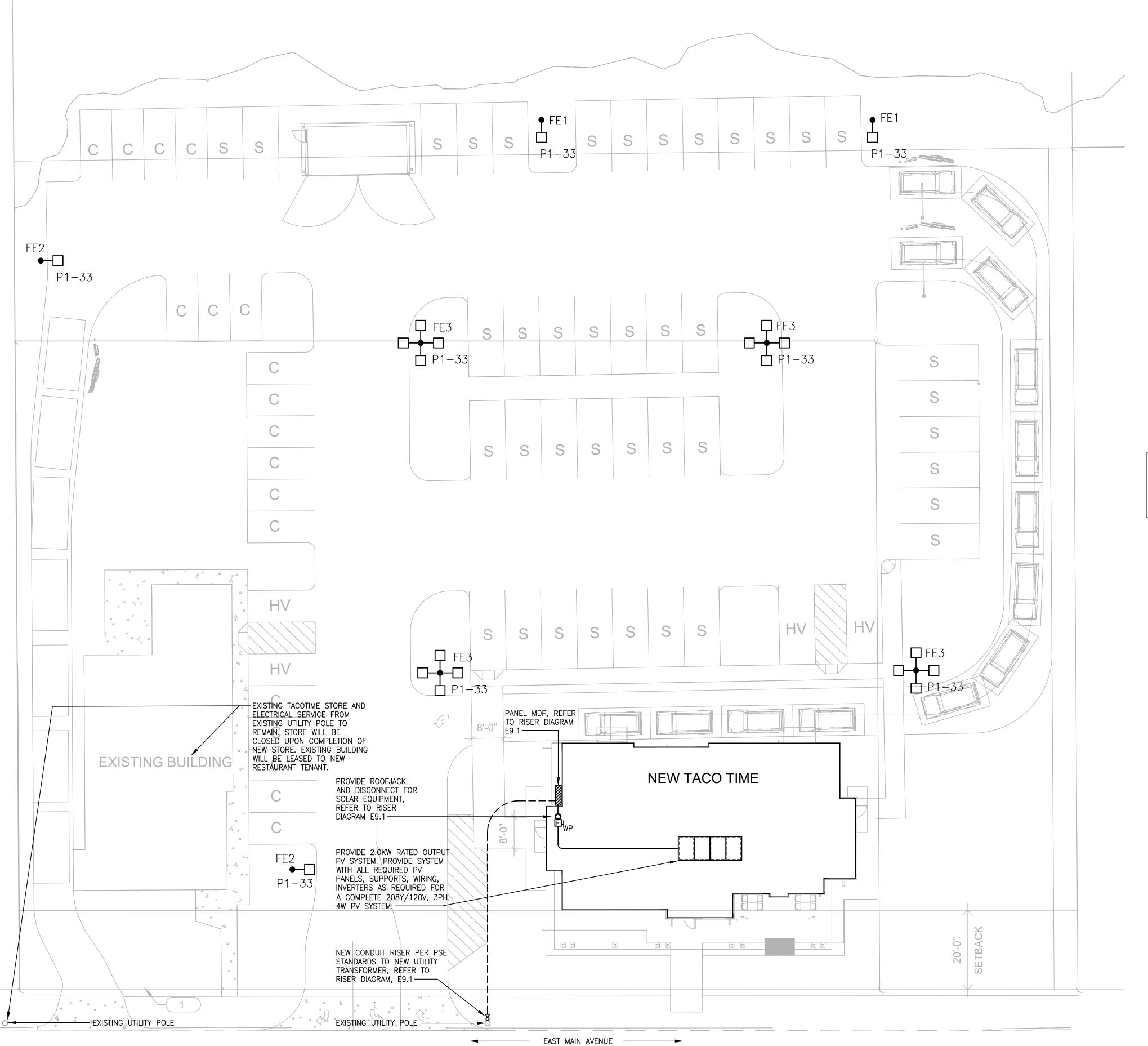
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REVISIONS

09-11-2023

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	LIGHTING FIXTURE SCHEDULE - SITE		
TYPE	DESCRIPTION	LAMP	WATTS/ FIXT
FE1	POLE, ARM MOUNTED LED LUMINAIRE, NOMINALLY 15" BY 21" WITH DIE CAST ALUMINUM HOUSING. TYPE 4 FULL CUT OFF OPTICS WITH HOUSE SIDE SHIELD. (LIGHT SQUARE WITH EXTENDED ARM. STRAIGHT SQUARE SEVEN GAUGE STEEL POLE 16'-0" FT ON PRE MANUFACTURED BASE. POLE AND LUMINARE MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT. COOPER LIGHTING GLEON-AF-01-LED-E1-SL4-HSS	LED 4000K	59
FE2	POLE, ARM MOUNTED LED LUMINAIRE, NOMINALLY 15" BY 21" WITH DIE CAST ALUMINUM HOUSING. TYPE 2 OPTICS WITH ONE LIGHT SQUARE EACH HEAD WITH EXTENDED ARM. STRAIGHT SQUARE SEVEN GAUGE STEEL POLE 16'-0" FT ON PRE MANUFACTURED BASE. POLE AND LUMINARE MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT. COOPER LIGHTING GLEON-AF-01-LED-E1-SL2	LED 4000K	59
FE3	FOUR POLE, ARM MOUNTED LED LUMINAIRES, NOMINALLY 15" BY 21" WITH DIE CAST ALUMINUM HOUSING. TYPE 4 FORWARD FULL CUT OFF THROW OPTICS. ONE LIGHT SQUARE WITH EXTENDED ARM. STRAIGHT SQUARE SEVEN GAUGE STEEL POLE 16'-0" FTON PRE MANUFACTURED BASE. POLE AND LUMINARE MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT. COOPER LIGHTING GLEON-AF-01-LED-E1-SL4FT	LED 4000K	236
FE4	BUILDING MOUNTED LUMINIARE WITH, NOMINALLY 10" BY 6" WITH DIE CAST ALUMINUM HOUSING. TYPE 4 OPTICS FULL CUT OFF OPTICS MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT. HUBBELL LNC2-12LU-4K-4	LED 4000K	28

GENERAL NOTES

1. PROVIDE #10 CU HOMERUNS & BRANCH CIRCUIT WIRING FOR SITE LIGHTING CIRCUITS

PROJECT
NEW CONSTRUCTION
TACO TIME

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ELECTRICAL SITE PLAN

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PROJECT STATUS

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



WATTS/ FIXT

59

236

LAMP

4000K

LED 4000K

LED

4000K

4000K

LIGHTING FIXTURE SCHEDULE - SITE

ALUMINUM HOUSING. TYPE 4 FULL CUT OFF OPTICS WITH HOUSE SIDE SHIELD.

SQUARE SEVEN GAUGE STEEL POLE 16'-0" FT ON PRE MANUFACTURED BASE.

FE3 FOUR POLE, ARM MOUNTED LED LUMINAIRES, NOMINALLY 15" BY 21" WITH DIE

MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT.

FE4 BUILDING MOUNTED LUMINIARE WITH, NOMINALLY 10" BY 6" WITH DIE CAST

MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT.

ALUMINUM HOUSING. TYPE 4 OPTICS FULL CUT OFF OPTICS

CAST ALUMINUM HOUSING. TYPE 4 FORWARD FULL CUT OFF THROW OPTICS

ONE LIGHT SQUARE WITH EXTENDED ARM. STRAIGHT SQUARE SEVEN GAUGE

MANUFACTURERS STANDARD FINISH AS SELECTED BY ARCHITECT.

COOPER LIGHTING GLEON-AF-01-LED-E1-SL4-HSS

FE2 POLE, ARM MOUNTED LED LUMINAIRE, NOMINALLY 15" BY 21"

COOPER LIGHTING GLEON-AF-01-LED-E1-SL2

SELECTED BY ARCHITECT.

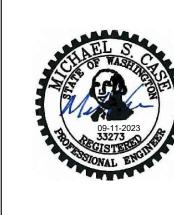
HUBBELL LNC2-12LU-4K-4

WITH DIE CAST ALUMINUM HOUSING. TYPE 2 OPTICS WITH

ONE LIGHT SQUARE EACH HEAD WITH EXTENDED ARM. STRAIGHT

POLE AND LUMINARE MANUFACTURERS STANDARD FINISH AS

TYPE DESCRIPTION



nsulting Electrical Engineers
515 North Creek Parkway, Suite 302
Bothell, Washington 98011

PUYALLUP

PROJECT

NEW CONSTRUCTION

TACO TIME ~

CRA NO.

SHEET TITLE
LIGHTING
CALCULATION

ELECTRICAL SITE PLAN

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EL1.1

1.1 S 1.4 1.3 S 1.4 1.9 2.2 2.2 PROPERTY LINE FE2 1.0 CCC \$\frac{1}{3}.4 \quad \text{S}^\frac{1}{4}.2 1.1 0.6 $\frac{1}{2.5}$ $\frac{1}{2.1}$ $\frac{1}{1.8}$ $\frac{1}{1.6}$ $\frac{1}{1.4}$ $\frac{1}{1.1}$ 1.9 2.3 2.4 2.3 2.0 2.0 2.0 1.8 1.7 1.8 1.9 2.0 2.0 2.0 2.0 1.4 **62 STALLS** 2.6 1.9 1.6 1.4 1.2 1.4 2.0 3.1 3.8 EXISTING BUILDING +/- 2,484 SF 1.3 2.5 2.7 | 3.0 NEW TACO TIME /+/-/3,019/SF/ 2.3 2.3 2.4 [†]1.8 BICYCLE PARKING /±1.2^a 4 1.1 4 1.1 4 1.1 4 1.1 4 PROPERTY LINE 1

LIGHTING CALCULATIONS SITE PLAN

SCALE: 1" = 20'-0"

Calculation Summary
Label
PARKING LOT_Planar



 Avg
 Max
 Min
 Avg/Min
 Max/Min

 2.26
 6.6
 0.5
 4.52
 13.20

GENERAL NOTES

- 1. CIRCUIT NUMBERS SHOWN REFER TO PANEL P1 UNLESS OTHERWISE
- 2. PROVIDE ORANGE COLOR DEVICES FOR ALL ISOLATED GROUND RECEPTACLES
- (NOTED WITH IG ON PLAN PANEL P3 CIRCUITS) 3. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE, SHEET E10.1, FOR HVAC CONNECTION REQUIREMENTS
- 4. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE, SHEET E010.1 FOR KITCHEN CONNECTION REQUIREMENTS.
- 5. PROVIDE GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION IN KITCHEN PER NEC 210.8.B.2. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE, GENERAL NOTE "C", SHEET E10.1.
- 6. PRIOR TO DEVICE BOX ROUGH-IN, REFER TO TYPICAL MOUNTING HEIGHTS DETAIL, SHEET E9.1 FOR TYPICAL DEVICE MOUNTING HEIGHTS

FLAG NOTES

- PROVIDE 24"x 24" PLYWOOD BACKBOARD FOR CATV & TELE/DATA SERVICE TO SITE. MOUNT BACKBOARD 6" BELOW CEILNG. ROUTE SERVICE RACEWAYS CONCEALED IN WALL AND STUBBED TO BOTTOM OF BOARD. COORDINATE WITH CATV AND TELE/DATA SERVICE PROVIDERS FOR SERVICE TO THE SITE. MOUNT TERMINATION BOXES TO THE BACKBOARD. INCLUDE PROVISIONS FOR 2"C.O. WITH PULL CORD TO CATV SERVICE POINT AND 4"C.O. WITH PULL CORD TO TELE/DATA SERVICE POINT AS REQUIRED BY SERVICE PROVIDERS.
- PROVIDE RECEPTACLE (HUBBELL #USB15X2W OR EQUAL) MOUNTED ABOVE TABLE HEIGHT FOR DEVICE CHARGING STATION, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- SHOW WINDOW RECEPTACLE (NEC 210.62) MOUNT 2" BELOW CEILING
- FIRE ALARM CONTROL PANEL CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 5 IRRIGATION CONTROLLER CONFIRM EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 6 PSE METERING BACKBOARD: PROVIDE 24"x24"x3/4" FIRE-RATED PLYWOOD WITH 120V DUPLEX RECEPTACLE - MOUNT ABOVE MDP AND ROUTE 2"C.O. TO ROOF FOR PSE ANTENNAS
- DOOR BUZZER SYSTEM PROVIDE PUSHBUTTON AT +48" ON STRIKE SIDE OF BACK DOOR. PROVIDE BUZZERS MOUNTED JUST BELOW CEILINGS IN KITCHEN AND OFFICE. PROVIDE OVERRIDE SIWTCH IN OFFICE FOR BUZZER SHUT-DOWN. VERIFY EXACT LOCATIONS OF BUZZERS AND OVERRIDE SWITCH WITH OWNER PRIOR TO ROUGH-IN. PUSHBUTTON SHALL BE EDWARDS 632 OR EQUAL. BUZZER SHALL BE EDWARDS 725 OR EQUAL.
- 8 COORDINATE EXACT LOCATIONS OF DATA RACK AND SOUND SYSTEM EQUIPMENT WITH OWNER PRIOR TO ROUGH—IN.
- 9 CEILING MOUNTED SPEAKER COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE LOW VOLTAGE CABLING TO SOUND SYSTEM IN OFFICE 110.

 $\mathbf{\Omega}$



POWER/COMM FLOOR PLAN

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E2.1





sulting Electrical Engineers

5 North Creek Parkway, Suite 302

Bothell, Washington 98011
: 425-402-9400 Fax: 425-402-9402

~ PUYALLUP

PROJECT
NEW CONSTRUCTION
TACO TIME

PROJ

11-2023

BCRA NO.

CADD FILE

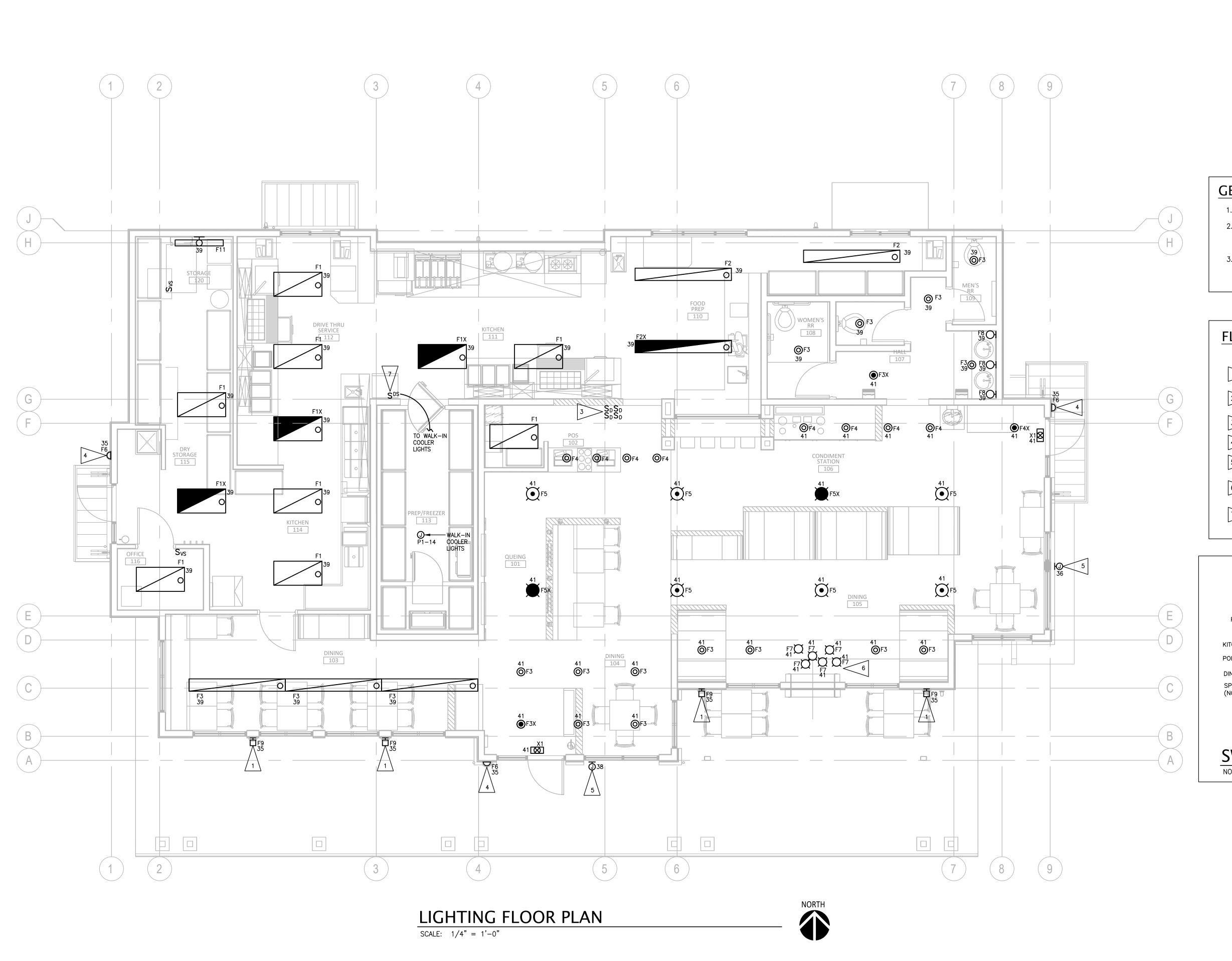
EET TITLE
IGHTING FLOOR

LIGHTING FLOOR PLAN

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E3.1

PROJECT STATUS



GENERAL NOTES

- 1. CIRCUIT NUMBERS SHOWN REFER TO PANEL P3 UNLESS NOTED OTHERWISE
- 2. BUILDING IS CLASSIFIED A-2 FOR OCCUPANCY: PER 2015 WASHINGTON STATE ENERGY CODE C405.2.4, EXCEPTION #4 (PAGE CE-77), DAYLIGHT CONTROLS ARE EXEMPT FOR THIS TENANT SPACE.
- 3. PROVIDE LIGHTING SYSTEM COMMISSIONING PER WASHINGTON STATE ENERGY CODE C408, COMPLETE WITH TRAINING TO THE OWNER, TUNING OF DEVICES/CONTROLS AND DOCUMENTATION AS REQUIRED PER THE CODE.

FLAG NOTES

- EXTERIOR FIXTURE MOUNTED AT +19'-0" ABOVE GRADE. REFER TO ARCHITECTURAL ELEVATIONS.
 - > (NOT USED
- 3 PROVIDE DIGITAL SWITCHES PER SWITCH DETAIL, THIS SHEET.
- PROVIDE BATTERY BACKUP IN COMPLIANCE WITH UBC 1006
- 5 PROVIDE CONNECTION TO SIGN
- 6 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, FOR DIMENSIONS AND SPACING OF "F6 CLUSTERS".
- PROVIDE 0-TO-15 MINUTE DIGITAL TIMER SWITCH (WATTSTOPPER RT-100 OR EQUAL).

BLUE BOX
CHELSEA
SWITCH LV1

PILOT LIGHT (TYPICAL)

KITCHEN AREA (R1)

POINT OF SALE (R2)

DINING AREA (R3)

PROVIDE LOW VOLTAGE SWITCHES IN DOUBLE GANG BOX.
PROVIDE ENGRAVED BUTTON (TYPICAL)

ENGRAVED BUTTON (TYPICAL)

ALL ON/OFF' (GREEN)

SIGN LIGHTS (R6, R8)

EXTERIOR LIGHTS (R7)

SPARE (NOT USED)

PROVIDE LOW VOLTAGE SWITCHES IN DOUBLE GANG BOX.
PROVIDE ENGRAVED COVERPLATE AND BUTTONS AS DETAILED.

R# REFERS TO LCP RELAY NUMBER.

SWITCH DETAIL

NOT TO SCALE



T 253.627.4367 F 253.627.4395 WWW.BCRADESIG



Consulting Electrical Engineers

19515 North Creek Parkway, Suite 302
Bothell, Washington 98011

PUYALLUP

NEW CONSTRUCTION

TACO TIME

~

DATE 09-11-2023

9-11-2023 ____

BCRA NO.

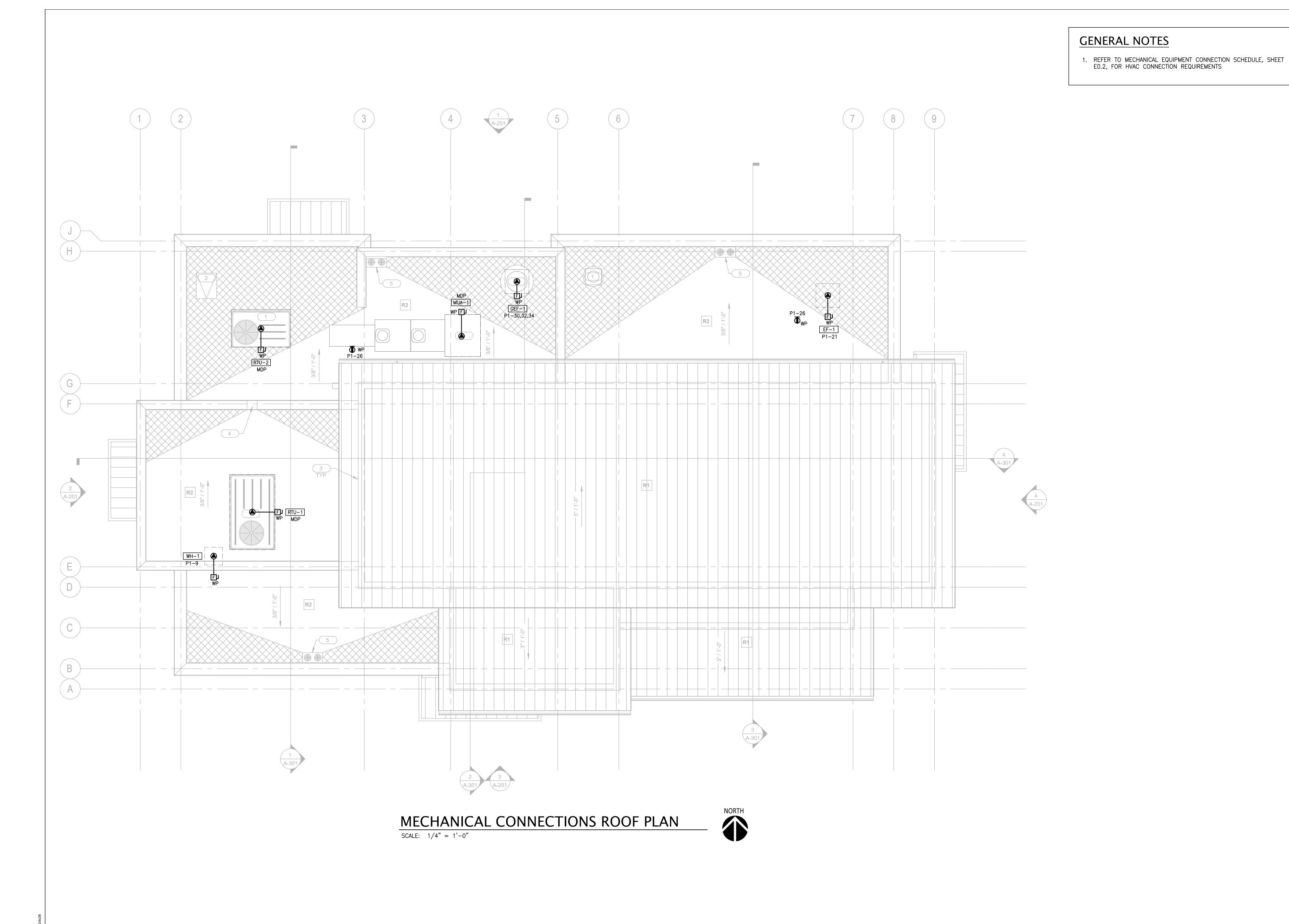
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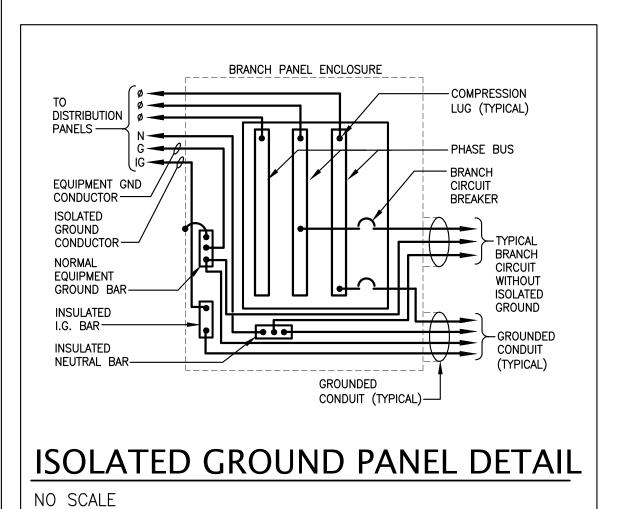
MECHANICAL CONNECTIONS FLOOR PLAN

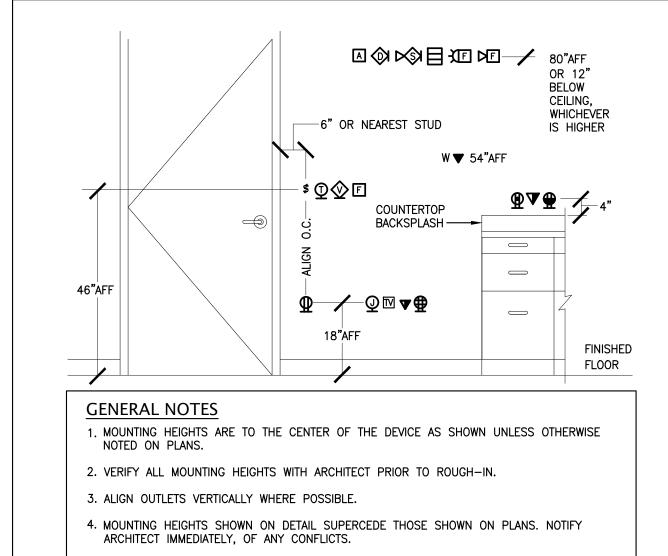
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E4.1

PROJECT STATUS



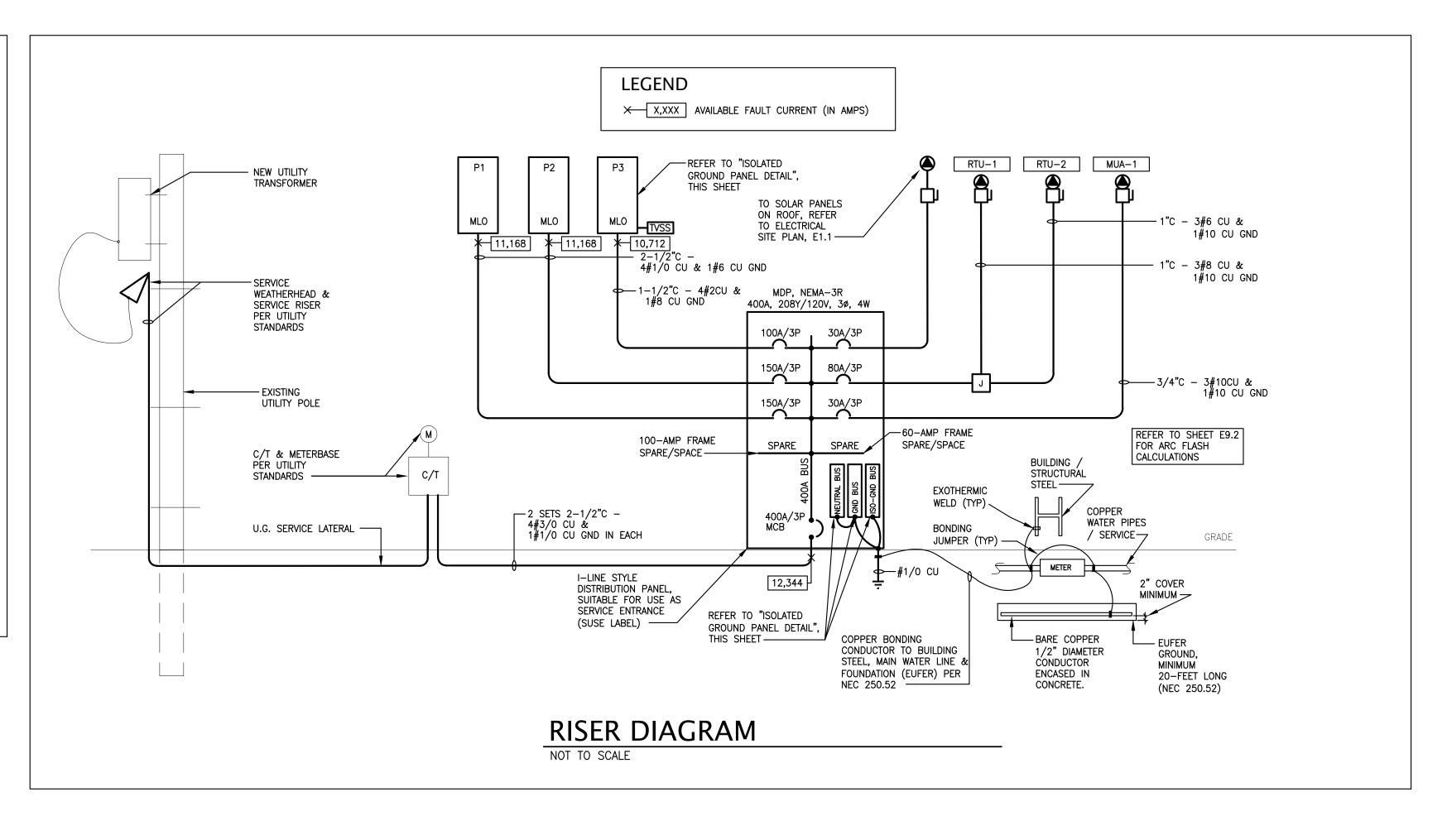




TYPICAL MOUNTING HEIGHTS DETAIL NO SCALE

CONTRACTOR SHALL COORDINATE DEVICE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

5. FOR ANY DEVICE MOUNTING LOCATION THAT CONFLICTS WITH A MIRROR, GENERAL



			NE	W F	Ά	NEL	.: ME)P						
ROJEC													PROJECT#:	18315
OCATI		KIRKLAND, WA 98	3034	_		FROM:								
NOTE	скт	CIRCUIT NAME		CB S				AD (K						
	NO.			AMF	\perp		Н	М	L	K	0	TOTAL	PANEL DESCRI	
	1	PANEL P1			3	4.26			1.75	5.31	0.50	15.18	PANEL AMPS:	400
			В		-	3.72	1.10	1.36	1.95	5.63		13.76	FEEDER AMPS:	40
	2	PANEL P2	C		-	3.62	3.25		0.50	4.24 10.59		13.96 16.49	L - L VOLTS : L - NVOLTS :	20- 12-
			В		_			6.40	0.50	9.24		15.64	PHASE:	3
			C		-			6.70		11.18	0.25	18.13	WIRE:	4
	3	PANEL P3	A		3	2.19		0.10			1.01	3.20	A.I.C. :	22I
			В		-	1.29					3.01	4.30		
			С		-	1.94					0.01	1.95		
				***************************************									M.L.O.	
													MAIN OB X	400
													FLUSH	
													SURFACE X	1
													ISO GND X	
													FEED-THRU]
					-									
													LOAD SUM N	/IARY
			•••••										(TOTAL, ALL SEC	TION
	8	RTU-1 & RTU-2	Α	1	3			7.90				7.90	RECKVA:	17.
			В		-			7.90				7.90	HEATKVA:	6.6
			C		-			7.90				7.90	MOTOR KVA:	49.
	9	SOLAR/PV SYSTEM	A		3								LIGHTING KVA:	5.7
			B C		-								KITCHEN KVA : OTHER KVA :	46. 4.8
	10	 MUA-1	A		3			1.14				1.14	OINER RVA .	4.0
	10		В		-			1.14					PHASEA KVA:	43.
			C		-			1.14				1.14	AMPS:	365
				·									PHASEBKVA:	42.
													AMPS:	356
													PHASECKVA:	43.
				***************************************									AMPS:	359
													OOM FOTT : 5	A D
													CONNECTED LOA	
													KVA: AMPS:	129 360
													DEMAND LOAD	300
					\vdash								KVA:	113
					H								AMPS:	314
OTES	/REM	ARKS:			Di	MANI) DIV	ERSIT	YFAC	TORS	3.			
		IFY EXACT SIZE WITH SOLAR CONTRACTO	R			DAD	DESC						DEMAND	
		R TO ORDERING GEAR				R	RECE			O 10K			100% =	
		RLOCK WITH EF-1, GEF-1, AND GEF-2.							INING	OVER	10KV	4	50% =	
	000	RDINATE CONTROLS WITH MECHANICAL.			ı	Н	HEAT						100% =	6.6
					ı	M	MOTO		·	1075-			100% =	
						LM			EST M	10TOR			125% =	8.4
					ı	LM	LIGHT	ING					125% =	7.1
					ı	K	KITCH						65% =	30.

₹0.1F	CT N	AME: TACOTIME TOTEM	LΔI	⟨F									PROJECT #:	18315
OCA 1		17.10011111121011111			-D	FROM:	MDP						TROOLOT #.	10010
			_	B SIZ		I I CIVI.		4 D / K	/A\					
ルカト	CKT NO.	CIRCUIT NAME		AMF		R	LO,	AD(K) M	/A)	K	0	TOTAL	PANEL DESCRI	DTION
	110.	REC - SHOW WINDOWS		20	1	1.00	''	IVI	<u> </u>	, ,	0	1.00	PANEL AMPS:	200
	3	REC - SHOW WINDOWS	A B	20	1	1.00	-	····	ļ		····	1.00	FEEDER AMPS:	∠00 150
	ა 5	REC - SHOW WINDOWS	C	20	1	1.00						1.00	L - L VOLTS :	208
		REC - DINING		L	ļ.,							1.00	L - N VOLTS :	
	7		A	20	1	1.00	~ 4^							120
	9	WH-1	В	20	1		0.10					0.10	PHASE:	3
	11	WH-2	C	30	2		2.25					2.25	WIRE:	4
	13		A		-		2.25					2.25	A.I.C. :	22K
		REC - SHOW WINDOWS	В	20	1	1.00						1.00		
		REC - SHOW WINDOWS	C	20	1	1.00						1.00	_	_
		FIRE SUPPRESSION CONTROLS <e111></e111>	A	20	1						0.50	0.50	M.L.O. X	
]		 ⊞ -1	В	20	1					0.67		0.67	MAIN CB	
	23	REC - USB CHARGING	C	20	1	0.90						0.90	FLUSH X	
	25	REC - SHOW WINDOWS	Α	20	1	1.00						1.00	SURFACE	
	27	REC - SHOW WINDOWS	В	20	1	1.00						1.00	ISO GND	
	29	REC	C	20	1	0.72						0.72	FEED-THRU]
	31	REC - USB CHARGING	Α	20	1	0.90						0.90	_	-
	33	LTG - SITE	В	20	1	•••••			1.10			1.10		
	35	LTG - EXTERIOR (PERIMETER)	c	20	1				0.11			0.11		
		LTG - GENERAL	A	20	1				0.50			0.50	LOAD SUMI	/I ARY
	39	LTG - KITCHEN	В	20	1				0.85			0.85	(TOTAL, ALL SE	
		LTG - DINING	c	20	1				0.38			0.38		
-	2	WALK-IN-COOLER <e52></e52>	A	20	1					1.56		1.56	RECKVA:	11.6
	4		B	20	1					1.56		1.56	HEAT KVA:	6.6
		BLOWER COIL <e50></e50>	C	20	1					0.21		0.21	MOTOR KVA:	3.8
		BLOWER COIL <e51></e51>		40	3					3.00		3.00	LIGHTING KVA:	5.8 5.2
			A		3									
	10		В		-					3.00		3.00	KITCHEN KVA:	15.2
	12	LTO MALK IN COOLED LIGHTS	C		-				0.05	3.00		3.00	OTHER KVA:	0.5
		LTG - WALK-IN COOLER LIGHTS	A	20	1			····	0.25	_ 45		0.25	DUA OF A LOVA	45.0
		SLICER <e100></e100>	В	20	1					0.40		0.40	PHASEA KVA:	15.2
		SHREDDER <e101></e101>	ļĊ	20	1					1.04		1.04	AMPS:	126.5
		FIREPLACE <e900></e900>	A	L	1					0.75		0.75	PHASE B KVA:	13.8
		SPARE	В		1								AMPS:	114.7
		SPARE	C	20	ļ								PHASECKVA:	14.0
		REC - RESTROOMS	Α		1							0.36	AMPS:	116.3
		REC - HVAC SERVICE RECEPTS	В	20	1	0.72						0.72		
		G E F-1	С	20	3			1.11				1.11		
	32		Α		_			1.11				1.11	CONNECTED LO	AD
	34		В		_			1.11				1.11	KVA :	42.9
	36	EXTERIOR SIGNAGE	C	20	1				1.00			1.00	AMPS:	119.1
	38	EXTERIOR SIGNAGE	A	20	1				1.00			1.00	DEMAND LOAD	
	40	HAND DRY ER <e4903></e4903>	В	20	1		1.00	0.25				1.25	KVA :	38.4
	42	HAND DRY ER <e403></e403>	c	20	1		1.00	0.25		Í		1.25	AMPS:	106.5
OTE	S/RE	MARKS:			D	EMAN	D/ DIVE	RSITY	FACT	ORS				
		TEVIA LOP FOR CONTROL OF RECEPTS, REF	₽R		_	DAD	DESCF						DEMAND	
		CP SCHEDULE E0.2		Н	R				10KV/	١		100% =	10.0	
		TEVIA LCP REFER TO LCP SCHEDULE E0.2		1					VER 1			50% =	0.8	
_					1	Н	HEATI		10				100% =	6.6
					1	М	MOTO						100% =	2.7
					1	LM			EST MO	OTOP			125% =	1.4
				1				אוונם	JIOK					
					1	L	LIGHTI						125% =	6.5
					1	K	KITCH						65% =	9.9
					L	0	OTHE	₹					100% =	0.5

2000 "	COT N	A NAT:	COTIME TOTAL											DDO IECT #	40045
	ECT N	.,,	COTIME TOTEV			<u></u>	FROM:	MIDD						PROJECT#:	18315
LOCA			KLAND, WA 980		B SI		ROW.		N D (14	(A)					
NOTE	CKT NO.	CIRCUIT NAME			AMF		R	LO,	AD(K\ M	/A)	K	0	TOTAL	PANEL DESCRI	TION
10		LOOPLICHTS	<e150></e150>	_		_	K		IVI	0.50	_ ^	0		PANEL AMPS :	
1,2 1,2	1 3	HOOD LIGHTS TABLE TOP KETTLE	<105>	A B		1		-		0.50	2.20		0.50 2.20		200 150
1,∠	S 5	TABLE TOP KETTLE	<1002			3	***************************************	ļ					2.20	FEEDER AMPS:	
				- C		╀-					2.20			L - L VOLTS :	208
	7		=10=	_ <u>A</u>		-					2.20		2.20	L - N VOLTS :	120
		SHUNT TRIP UNIT	<e105></e105>	В										PHASE:	3
1,2		TABLE TOP KETTLE	<e105></e105>	ļc	30	3	***************************************				2.20		2.20	WIRE:	4
	13			_ A							2.20		2.20	A.I.C. :	22K
				В		-			1.00				1.00		
		SHUNT TRIP UNIT	<e105></e105>	C											_
1,2	19	FRY ER DUMP STATION	<e107></e107>	A	20	1					0.35		0.35	M.L.O. X	
		SHUNT TRIP UNIT	<e107></e107>	В										MAIN CB]
1,2		FRY ER	<e109></e109>	С	20	1					0.35		0.35	FLUSH X	
	25	SHUNT TRIP UNIT	<e109></e109>	Α										SURFACE]
1,2	27	FRYER	<e109></e109>	В	20	1					1.30		1.30	ISO GND	1
	29	SHUNT TRIP UNIT	<e109></e109>	C		П								FEED-THRU	1
1,2		2-DRAWER REFER	<e108></e108>	A	20	1		T			1.30		1.30	<u></u>	
	33	SHUNT TRIP UNIT	<e108></e108>	В											
		MICROWAVEOVEN	<e112></e112>	c		2					1.50		1.50		
	37			TA		1-1					1.50		1.50	LOAD SUM N	/I ARY
		ICE DISPENSER	<e5></e5>	В		1					1.30		1.30	(TOTAL, ALL SEC	
		ICE DISPENSER	<e5></e5>	c		1					1.30		1.30		
		2-DRAWER REFRIG.	<e108></e108>	A	20						0.45		0.45	RECKVA:	
				B A				-			1.50		1.50		
	4	MICROWAVE OVEN	<e112></e112>			2								HEAT KVA:	40 E
	6		2F44E:	Ċ		 -					1.50		1.50	MOTOR KVA:	18.5
		WARMING DRAWER	<e115></e115>	_ <u>A</u>	20	1					0.44		0.44	LIGHTING KVA:	0.5
		WARMING DRAWER	<e115></e115>	В		1		ļļ			0.44		0.44	KITCHEN KVA:	31.0
		RAISED RAIL REFRIG.	<e116></e116>	C		1					1.04		1.04	OTHER KVA:	0.3
		SANDWICH GRILL	<e114></e114>	Α	20	1					1.70		1.70		
		WARMING WELLS	<e115></e115>	В		2	***************************************				1.10		1.10	PHASEAKVA:	16.5
	18			C		[-					1.10		1.10	AMPS:	137.4
	20	ICED TEA DISPENSER	<e118></e118>	Α	20	1		T			0.46		0.46	PHASEBKVA:	15.6
	22	SODA DISPENSER	<⋿68>	В		1	•							AMPS:	130.3
	24	DOORBELL		C	30	1						0.25	0.25	PHASECKVA:	18.1
	26	PSE ANTENNA SYSTEM		A	20	1	•	†====						AMPS:	151.1
	28	HEAT LAMPS	<e117></e117>	В											
	30	HEAT LAMPS	<e117></e117>	c		1									
	32	HEAT LAMPS	<e117></e117>	A										CONNECTED LOA	AD.
		SANDWICH GRILL	<e114></e114>	В							1.40		1.40	KVA :	
		FREEZER	<e110></e110>	c				 	1.30				1.30	AMPS:	139.5
		DISHWASHER	<e104></e104>	A		3	***************************************	 	5.40				5.40	DEMAND LOAD	
	1		LIVT	B		+-		_	5.40				5.40	KVA :	40.9
				- -		+-			5.40				5.40	AMPS:	113.5
NOT				ال		뷰		0/00/5		EACT	OPS		0.40	AIVIPO :	113.3
		MARKS : L'IDE CHI INT TOID DOEA L'ED.				_		DESCE			UKS				
1.		VIDE SHUNT TRIP BREAKER	A D.A.I. ICOD CO.	TC		۳	DAD	DESCR			401011			DEMAND	
2.	HRO\	VIDE INTERLOCK W/FIRE AL	ARM HOOD COM	VIRO	LS		R				10KV/			100% =	
3.										INING (WER 1	UKVA		50% =	
							Н	HEATIN						100% =	
							М	MOTOR	RS					100% =	13.1
							LM		LARG	EST MO	OTOR			125% =	6.8
		L LIGHTING								125% =	0.6				
							K	KITCHE	ΞN					65% =	20.2
						ı	0	OTHER						100% =	

				-	PAN								
ROJECT N												PROJECT#:	18315
OCATION	KIRKLAND, WA 980			_	FROM:								
_{VOTE} CKT	CIRCUIT NAME	- 1	B SI		I	LC	AD(K	/A)					
NO.			AMF			Н	М	L	K	0	TOTAL	PANEL DESCRIF	
	CASH REGISTERS & MONITORS <e1,e2></e1,e2>	Α	20	1	0.75						0.75	PANEL AMPS:	100
	CASH REGISTERS & MONITORS <e1, e2=""></e1,>	В	20		0.75						0.75	FEEDER AMPS:	100
5	™	C	20	1	0.50						0.50	L - L VOLTS:	208
7	TTB	Α	20	1	0.36						0.36	L - N VOLTS:	120
9	REC - DEVICE CHARGING STATIONS	В	20	1	0.54						0.54	PHASE:	3
11	REC - DEVICE CHARGING STATIONS	C	20	1	0.54	<u> </u>					0.54	WIRE:	4
13	REC - DEVICE CHARGING STATIONS	Α	20	1	0.36						0.36	A.I.C. :	22K
15	MENU BOARDS <e204></e204>	В	20	1		İ				1.50	1.50		
17	SPARE	C	20	1									
19	SPARE	Α	20	1								M.L.O. X	
21	SPARE	В	20	1		†	 	†	†	1		MAIN CB	
23	SPARE	c	20	1								FLUSH X	
25	SPARE	A	20	1		<u> </u>	 		<u> </u>	<u> </u>		SURFACE	
27	SPARE	В	20	1		<u> </u>		<u> </u>	-			ISO GND X	
29	SPARE	С	20	1								FEED-THRU	
				<u> </u>		-							
				-		_	 	<u> </u>					
				-								LOAD SUM N	ΔRY
				+			-		-			(TOTAL, ALL SEC	
				-									
1 2	LIGHTING CONTROL PANEL (LCP)	A	20	1						0.50	0.50	RECKVA:	5.4
	SOUND SY STEM & IT RACK			-						1.00	1.00		5.4
4		В	20				ļ			1.00		HEAT KVA:	
6	REC - OFFICE	C	20	1	0.18					0.50	0.18	MOTOR KVA:	
8	FIRE ALARM CONTROL PANEL (FACP)	A	20			ļ	-	ļ		0.50	0.50	LIGHTING KVA:	
	IRRIGATION CONTROL PANEL	В	20	-						0.50	0.50	KITCHEN KVA:	
	REC - DEVICE CHARGING STATIONS	C	20	1							0.72	OTHER KVA:	4.0
	REC - DEVICE CHARGING STATIONS	Α	20	1	0.72						0.72		
	SPARE	В	20									PHASEAKVA:	3.2
	SPARE	С	20	1								AMPS:	26.7
20		Α	30	3						0.01	0.01	PHASEBKVA:	4.3
		В		_						<u> </u>	0.01	AMPS:	35.8
				-						0.01	0.01	PHASECKVA:	2.0
	SPARE	Α	20	1								AMPS:	16.3
	SPARE	В	20	1									
30	SPARE	C	20	1									
												CONNECTED LOA	VD.
												KVA :	9.5
												AMPS:	26.2
												DEMAND LOAD	
												KVA :	9.5
				T								AMPS:	26.2
NOTES/RE	MARKS:			D	EMAN)/ DIV	ERSITY	FACT	ORS				
	ride Innovative Technology #PT-E-065-3Y 101-		_			RIPTION					DEMAND		
	pproved		r	R		PTACLI		10KV	A		100% =	5.4	
	te via LCP for controlled receptacle per WSEC	C40	5.10	1					OVER 1			50% =	
	er to LCP schedule, sheet E0.2			1	Н	HEAT						100% =	
	-, -		1	M	MOTO						100% =		
			1	LM			EST M	OTOR			125% =		
							LM LARGEST MOTOR L LIGHTING						
												125% = 65% =	
				ı	K O	KITCH OTHE						100% =	4.0

 $\mathbf{\Omega}$



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SHEET TITLE

RISER DIAGRAM AND SCHEDULES

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FAULT CURRENT RISER

PANEL P2

InitSymRMS 3P 11168.29A

IncidentEnergy 0 Cal/cm^2

Working Distance 24 inches AFWC_PPE Level

PANEL P3

InitSymRMS 3P 10712.12A IncidentEnergy 0 Cal/cm^2

AFWC_PPE Level

Working Distance 24 inches

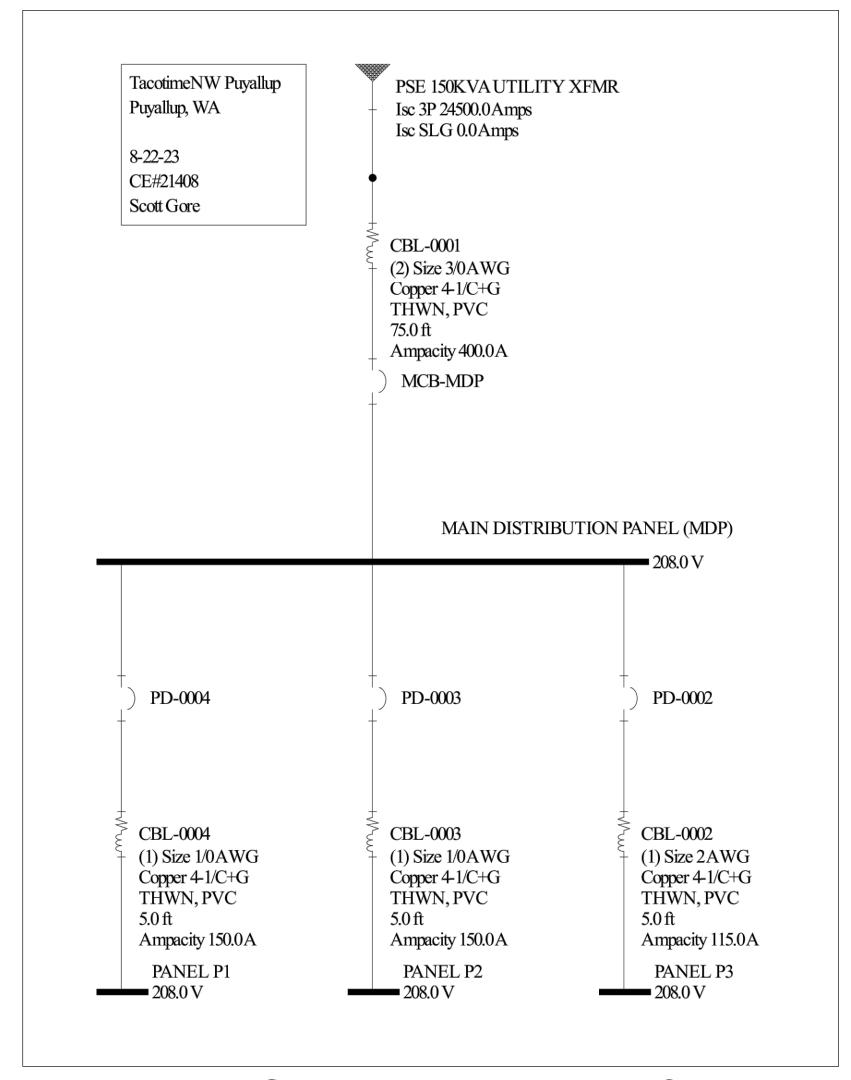
NOT TO SCALE

PANEL P1

InitSymRMS 3P 11168.29 A IncidentEnergy 0 Cal/cm^2

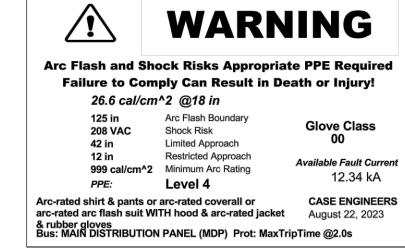
AFWC_PPE Level

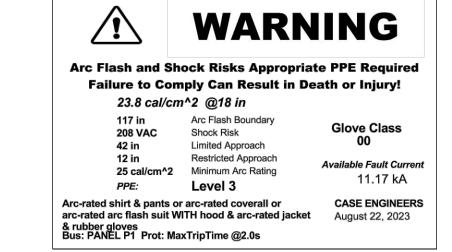
Working Distance 24 inches

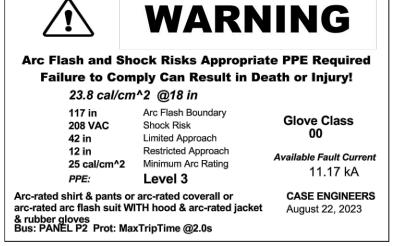


FAULT CURRENT INPUT DATA RISER

NOT TO SCALE







		ock Risks Appropriat	-
		^2 @18 in	
:	113 in 208 VAC 42 in 12 in 25 cal/cm^2	Arc Flash Boundary Shock Risk Limited Approach Restricted Approach Minimum Arc Rating Level 3	Glove Class 00 Available Fault Curren 10.71 kA
	c flash suit W	arc-rated coverall or ITH hood & arc-rated jacket	CASE ENGINEERS August 22, 2023

BCRA 画



Consulting Electrical Engineers
19515 North Creek Parkway, Suite 302
Bothell, Washington 98011
Phone: 425-402-9400 Fax: 425-402-9402

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E9.2

-	MECHANICAL EQUIPMENT CONNECTION SCHEDULE														
TAG	DESCRIPTION	HP /KW /VA	VOLTS / PHASE	MCA	FUSE (MOCP)	DISC. SWITCH	CIRCUIT	COPPER FEEDER SIZE	TAG	REMARKS	NOTES				
WH-1	WATER HEATER (GAS)	104 VA	11 5/ 1	1	-	HRS	P1-9	1/2"C, 2#12,1#12GND	WH-1		2				
WH-2	WATER HEATER (ELECTRIC)	4.5 KW	208 / 3	15.6	-	30	P1-11, 13	3/4"C,3#12,1#12GND	WH-2						
EF-1	EXHAUST FAN	1/10 HP	11 5/ 1	8.25	-	HRS	P1-21	3/4"C,3#12,1#12GND	EF-1	ON ROOF	2				
GEF-1	GREASE EXHAUST FAN	3.0 HP	208 / 3	14.25	20	30	P1-30,32,34	3/4"C,3#12,1#12GND	GEF-1	ON ROOF	2,3,5				
MUA-1	MAKE-UP AIR UNIT	2.0 HP	208 / 3	12.5	20	30	MDP	3/4"C,3#12,1#12GND	MUA-1	ON ROOF	2,3,5				
RTU-1	ROOF TOP UNIT	2.75 HP	208 / 3	39	50	60	MDP	1"C,3#8,1#10GND	RTU-1	ON ROOF	2,5				
RTU-2	ROOF TOP UNIT	1.0 HP	208 / 3	26	30	30	MDP	3/4"C,3#10,1#10GND	RTU-2	ON ROOF	2,5				

GENERAL EQUIPMENT CONNECTION SCHEDULE NOTES

(APPLIES TO ALL EQUIPMENT LISTED IN SCHEDULE)

- A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO ELECTRICAL
- B. LOCATE ALL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
- C. ABBREVIATIONS:
 - HRS: HORSEPOWER RATED MOTOR DISCONNECT SWITCH W/ OVERLOAD PROTECTION, 16-AMP (MIN), RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED. Sm: MOTOR RATED TOGGLE SWITCH.
- TS: TOGGLE SWITCH, 16-AMP MINIMUM, RED PILOT LIGHT. PROVIDE 1-POLE OR 2-POLE AS REQUIRED.
- **D.** ALL DISCONNECTS ARE 3 POLE UNLESS NOTED OTHERWISE.
- E. PROVIDE A ROOFTOP WEATHERPROOF GFI DUPLEX RECEPTACLE WITHIN 25 FEET OF ALL ROOF MOUNTED HVAC UNITS AS REQUIRED BY NEC.
- F. CONNECT FIRE SMOKE DAMPERS TO A 120VAC 20 AMP CIRCUIT ROUTED THROUGH A RELAY CONTACT (N.C.) IN THE FIRE ALARM CONTROL PANEL. REFER TO MECHANICAL DRAWINGS FOR ALL FIRE SMOKE DAMPER LOCATIONS AND QUANTITIES. PROVIDE ALL APPURTENANCES AS REQUIRED. PROVIDE DISCONNECT TOGGLE SWITCH WITHIN SIGHT OF THE DAMPER MOTOR CONTROLLER AND DAMPER MOTOR.

SCHEDULE NOTES

(APPLIES TO SPECIFIC EQUIPMENT AS NOTED IN "NOTES" COLUMN)

- 1. VERIFY EXISITNG MOTOR(S) AND PROVIDE DISCONNECTS & FUSING AS REQUIRED
- CONTROL BY DIVISION 23 CONTRACTOR.
- 3. INTERLOCK WITH EF-1, GEF-1, AND GEF-2. COORDINATE CONTROLS WITH MECHANICAL CONTRACTOR.
- 4. PROVIDE MOTOR RATED TOGGLE SWITCH, N3R ENCLOSURE
- 5. FURNISH DUCT SMOKE DETECTOR(S) FOR INSTALLATION BY DIVISION 23 CONTRACTOR. HVAC UNITS OVER 2,000 CFM TO HAVE DUCT DETECTOR IN RETURN AIR DUCT. UNITS OVER 15,000 CFM TO HAVE DUCT DETECTORS IN RETURN AND SUPPLY AIR DUCTS. COORDINATE WITH DIVISION 23 FOR QUANTITY REQUIRED. PROVIDE CONNECTION AT THE HVAC UNIT FOR SHUTDOWN ON ALARM. PROVIDE CONNECTION TO THE FIRE ALARM CONTROL PANEL AS REQUIRED.
- ALL WIRING TO BE IN EMT CONDUIT. 6. CONNECT HEAT PUMP AND HEATER TO SAME CIRCUIT AT UNIT AS INDICATED.
- 7. PROVIDE SWITCH NEXT TO RESTROOM LIGHT SWITCH.
- 8. STARTER PROVIDED BY DIV. 26. COORDINATE REQUIREMENTS WITH DIV. 23 CONTRACTOR PRIOR TO ORDERING.
- 9. CONNECT TO LIGHT SWITCH IN ROOM FOR CONTROL.

KITCHEN EQUIPMENT CONNECTION SCHEDULE												
TAG	EQUIPMENT	VOLTS/ PHASE	AMPS	kVA / kW	НР	COPPER FEEDER SIZE	MTG. HEIGHT	CONNECTION	CIRCUIT NUMBER	TAG	REMARKS	NOTES
	DOINT OF CALE (DOC) SYSTEM	115/1	3			1/2"C,2#12,2#12GND	VERIFY	DUPLEX REC	P1-3, P1-27	E1		
E1 E2	POINT OF SALE (POS) SYSTEM POINT OF SALE MONITOR	115/1	3			<u> </u>	+84"	DUPLEX REC	P1-5, P1-21	E2		2 2
	POINT OF SALE MONTOR	113/1	3			1/2"C,2#12,2#12GND	+04	DOPLEX REC		E2		
E3	SODA DISPENSER	115/1	15			1/2"C,2#12,1#12GND	+30"	J-BOX	P1-28	E3		
E5	ICE DISPENSER	115/1	11.4			1/2"C,2#12,1#12GND	+30"	DUPLEX REC	P2-41	E5		4
E50	DI OMED COIL	115/1	18			1/2"C,2#12,1#12GND	+30"	J-BOX	P1-6	E50		
E51	BLOWER COIL	208/3	25			3/4"C,3#10,1#10GND	+30	J-BOX	P1-8,10	E51		
E52	BLOWER COIL	208/3	15			3/4"C,3#12,1#12GND			F 1-6, 10	E52		
E32	WALK-IN COOLER	20013	15			3/4 C,3#12, 1#12GND				E32		
E100	SLICER	115/1	3.5			1/2"C,2#12,1#12GND	+48"	DUPLEX REC	P1-16	E100		
E101	SHREDDER	115/1	9			1/2"C,2#12,1#12GND	+48"	DUPLEX REC	P1-18	E101		5,7
E104	DISHWASHER	208 / 3	45.4			3/4"C,3#8,1#10 GND		J-BOX		E104		
									P2-3,5,7,			
E105	TABLETOP KETTLE	208/3	18			1/2"C,3#12,1#10GND	+30"	J-BOX	P2-11,13,15	E105		1
E107	FRYER DUMP STATION	115/1	6.3	0.75kW		1/2"C,2#12,1#12GND	+48"	DUPLEX REC	P2-17	E107		1
E108	REFRIGERATOR	115/1	5.7	0.101.01		1/2"C,2#12,1#12GND	+30"	DUPLEX REC	P2-31	E108		1
E109	FRYER	115/1	3			1/2"C,2#12,1#12GND	+30"	DUPLEX REC	P2-23, P2-27	E109		1
E110	UPRIGHT FREEZER	120	11			1/2"C,2#12,1#12GND		DUPLEX REC	1 2 20, 1 2 21	E110		
E111	FIRE SUPPRESSION SYSTEM	115/1	5			1/2"C,2#12,1#12GND	VERIFY	J-BOX	P1-19	E111		
E112	MICROWAVE OVEN	115/1	14			1/2"C,2#12,1#12GND	+72"	DUPLEX REC	P2-4,6, P2-35,37	E112		
E113	WARMING DRAWER	120	3.8			1/2"C,3#12,1#10GND	+30"	DUPLEX REC	P2-34	E113		1
E114	SANDWICH GRILL	115/1	15			1/2"C,2#12,1#12GND	+30"	DUPLEX REC	P2-14	E114		
E115	DROP-IN WARMING WELLS	208/1		2.1kW		3/4"C,2#10,1#10GND	+30"	SPECIAL REC	P2-8,10, P2-16,18	E115		
E116	RAISED RAIL REFRIGERATOR	115/1	9			1/2"C,2#12,1#12GND	+18"	DUPLEX REC	P2-12	E116		
E117	HEAT LAMP	208/1		1.3kW		1/2"C,2#12,1#12GND	+72"	J-BOX	P2-30, P2-32	E117		
E118	ICE TEA DISPENSER	115/1	4			1/2"C,2#12,1#12GND	VERIFY	DUPLEX REC		E118		
E119	U.C. REFRIGERATOR	115/1								E119		
E150	HOOD LIGHTS	115/1	.9			1/2"C,2#12,1#12GND		J-BOX		E150		1
E204	MENUBOARD	115/1	3			1/2"C,2#12,1#12GND		DUPLEX REC	P3-15	E204		
			-			, -, -, -, -, -, -, -, -, -, -, -, -,						
E403	HAND DRYER	115/1	20			1/2"C,2#12,1#12GND	VERIFY	J-BOX		E403		
E800	WALK-IN COOLER	208 / 1	15			1/2"C,2#12,1#12GND		J-BOX		E800		
E900	HEAT'N'GLO FIREPLACE	115/1				1/2"C,2#12,1#12GND	VERIFY	J-BOX	P1-20	E900		

GENERAL NOTES - APPLIES TO ALL EQUIPMENT LISTED IN THIS SCHEDULE.

- A. REVIEW ALL FOOD SERVICE PLAN SHEETS FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT LISTED IN THIS SCHEDULE. PROVIDE CIRCUIT CONNECTIONS AS REQUIRED.
- **B.** PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT AND WATER PROOF CONNECTIONS FOR ALL FLEXIBLE DIRECT CONNECTIONS.
- C. PROVIDE GFCI TYPE RECEPTACLES FOR ALL 125V 1 PH 15A AND 20A RECEPTACLES. **D.** MAKE ALL FINAL CONNECTIONS TO ALL KITCHEN AND COOLER EQUIPMENT. PROVIDE ALL APPURTENANCES AS REQUIRED.

SPECIFIC NOTES - APPLIES TO INDIVIDUAL EQUIPMENT AS NOTED IN 'NOTES' COLUMN IN THIS SCHEDULE

- 1. PROVIDE SHUNT TRIP BREAKERS FOR "POWER OFF" CONTROL OF ALL EQUIPMENT UNDER HOOD BY THE FIRE SUPPRESSION SYSTEM.
- 2. PROVIDE DATA CONNECTION FOR POS TERMINAL. COORDINATE LOCATION WITH OWNER. 3. SEE FOOD SERVICE PLAN SHEETS FOR FIRE SUPPRESSION SYSTEM DETAILS. COORDINATE AND PROVIDE ALL CONNECTIONS WITH FOOD SERVICE CONTRACTOR AND DIV. 23.
- 4. COORDINATE RECEPTACLE TYPE WITH KITCHEN EQUIPMENT SUBMITTAL (OR MANUFACTURER) PRIOR TO ROUGH IN. PROVIDE AS REQUIRED.
- 5. LAMPS AND LIGHT FIXTURES FURNISHED BY FOOD SERVICE CONTRACTOR.
- 6. PROVIDE CONTROL WIRING FROM DISHWASHER DRY CONTACT TO STARTER FOR CONTROL OF FAN. FAN SHALL TURN ON WITH DISHWASHER AND SET TO TURN OFF AFTER 1-HOUR. 7. PROVIDE TIMER AND/OR VACANCY-SENSOR CONTROLS TO TURN OFF LIGHT FIXTURES WITHIN 15-MINUTES OF UNOCCUPANCY PER W.S.E.C. C405.10,11, REFER TO LIGHTING PLAN
- SHEET E2.1 FOR REQUIREMENTS
- 8. INTERLOCK WITH FACP 9. THERMAL INTERLOCK WITH EF-1, GEF-1 AND GEF-2. COORDINATE CONTROLS WITH MECHANICAL.







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