

4

	POW	ER PANE	L # PP-A						ASE PAN			DULE					DATE:	REV	: 0
		ED AT:	FRAME SIZE:	100 A			SECTIO	TYPE	1 of OF MAIN:		100 A							SERVED BY	:
	TA- BLDG		VOLTAGE:	480 L-L 277 L-N					MLO SIZE: RKR SIZE:		A 100A		ENCL		E TYPE: JNTING:	NEMA 3R Surface		UTILITY CKT: 480/2	77
	ROOM-		PHASE:	<b>3</b> Φ					BRACING:		22 kA					UTILITY XFMR		LOCATED A	
			WIRE:	4 W		-			C RATING:		kA		SUB OR					TA-	
									C RATING: VAILABLE:		14 kA kA		50B/11		g size:			BLDG ROOM- OS	
скт	C/B	SERVES			CONT	RCPT	PWR	NON-C	PHASE		NON-C	PWR	RCPT	CONT					C/
1				I			16000		A										
3	100/3		SERVICE TO TR-1				16000		В							:	SPACE		
5 7							16000		С А										
9			SPACE						В										
11 13									С А										_
15									В										
17 19									С	:									
21									A B										
23									С	:									
25 27	-								A B										
27									с С										
	NC	<u>C</u> CONTINUOU RECEPTAC DN-CONTINUO	OAD per PHASE: A: ONECTED LOAD: JS LOAD (CONT): LE LOAD (RCPT): US LOAD (PWR): .L LOAD (NON-C):	16,000 0 VA 0 VA 48000 VA 0 VA		RECPT N	CON LOAD F ON-CON	ITINUOUS ber NEC 2	S LOAD @:	<u>N LO</u> 125 100	5% 0% 0%		0 VA 0 VA 8000 VA 9600 VA		RECPT	ESTIMATED D CONTINUOUS LC LOAD per NEC I ONTINUOUS LO	DAD @ 100 220-44: 100	9%	0 VA 0 VA 0 VA
	NON-	JOINCIDENTA	L LOAD (NON-C):	UVA		FUIUR	EGROV		ACHY:	20	1%0		9000 VA						
		TOTAL CO	NNECTED LOAD:	48000 VA			L	OAD FOF	RFEEDER	DESI	<u>GN:</u>	5	7600 VA			ESTIMATED D	EMAND LOA	<u>D:</u>	0 VA
				58 AMPS									69 AMF	PS					0 AM
	POW		L # PP-1				THR	EE PHA	ASE PAN		SCHEE	DULE					DATE	REV	. 0
							THR	N:	1 of	1		DULE				I	DATE:	REV.	
		ED AT:	FRAME SIZE:	225 A 208 L-L				N: TYPE		1		DULE		NUFACI		NEMA 3R	DATE:	REV. SERVED BY: TR-1	
	LOCAT TA- BLDG	ED AT:	FRAME SIZE: VOLTAGE:	208 L-L 120 L-N				N: TYPE MAIN BI	1 of OF MAIN: MLO SIZE: RKR SIZE:	1	225 A A 225A			OSURE	TYPE:	NEMA 3R Surface	DATE:	SERVED BY: TR-1 CKT: 208/1	20V
	LOCAT TA-	ED AT:	FRAME SIZE: VOLTAGE: PHASE:	208 L-L			SECTIC	N: TYPE MAIN BI BUS	1 of OF MAIN: MLO SIZE:	1	225 A A			OSURE. MOU	TYPE: NTING: FED:	NEMA 3R	DATE:	SERVED BY: TR-1	20V
	LOCAT TA- BLDG	ED AT:	FRAME SIZE: VOLTAGE:	208 L-L 120 L-N 3 Ф		В	SECTIO	N: TYPE MAIN BI BUS BRKR AK	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING:	1	225 A A 225A 14 kA		ENCL	OSURE. MOU THRU F	TYPE: NTING: FED: EEDS:	NEMA 3R Surface	DATE:	SERVED BY: TR-1 CKT: 208/1 LOCATED A	20V
	LOCAT TA- BLDG	ED AT:	FRAME SIZE: VOLTAGE: PHASE:	208 L-L 120 L-N 3 Ф			SECTIC MAIN RANCH	N: TYPE MAIN BI BUS BRKR AK BRKR AK	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING:	1	225 A A 225A 14 kA kA		ENCL SUB OR	OSURE. MOU THRU F	TYPE: NTING: FED: EEDS:	NEMA 3R Surface	DATE:	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA-	20V
СКТ	LOCAT TA- BLDG	ED AT:	FRAME SIZE: VOLTAGE: PHASE:	208 L-L 120 L-N 3 Ф	CONT	S	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING:	1	225 A A 225A 14 kA kA 10 kA		ENCL SUB OR	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface	DATE:	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG	20∨ T:
1	LOCAT TA- BLDG ROOM-	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE:	208 L-L 120 L-N 3 Φ 4 W	CONT	S <b>RCPT</b> 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: /AILABLE: PHASE A	1	225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH RCPT 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1	DATE:	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T:
	LOCA1 TA- BLDG ROOM- C/B	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/	208 L-L 120 L-N 3 Φ 4 W	CONT	S <b>RCPT</b> 3120 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: /AILABLE: PHASE		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1	EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: <u>C/</u> 40
1 3	LOCAT TA- BLDG ROOM-	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: <b>SERVES</b>	208 L-L 120 L-N 3 Φ 4 W	CONT	S <b>RCPT</b> 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: C RATING: AILABLE: PHASE A B		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH SUB/TH 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1		SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: <u>C/</u> 40
1 3 5 7 9	LOCA1 TA- BLDG ROOM- C/B	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/	208 L-L 120 L-N 3 Φ 4 W		S RCPT 3120 3120 3120 3120 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: /AILABLE: A B C A B C A B		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E	EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: 40
1 3 5 7 9 11	LOCAT TA- BLDG ROOM- <b>C/B</b> 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/	208 L-L 120 L-N 3 Φ 4 W		S RCPT 3120 3120 3120 3120 3120 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: PHASE A B C A B C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E	EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: 40 40
1 3 5 7 9 11 13	LOCAT TA- BLDG ROOM- <b>C/B</b> 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: /AILABLE: PHASE A B C A B C A		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E	EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: 4( 4(
1 3 5 7 9 11	LOCAT TA- BLDG ROOM- <b>C/B</b> 40/2 40/2 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: UIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/	208 L-L 120 L-N 3 Φ 4 W		S RCPT 3120 3120 3120 3120 3120 3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: PHASE A B C A B C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: 40 40 40
1 3 5 7 9 11 13 15 17 19	LOCA1 TA- BLDG ROOM- <b>C/B</b> - 40/2 - 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: PHASE A B C A B C A B C A A B C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS	20V T: 4C 4C 4C
1 3 5 7 9 11 13 15 17 19 21	LOCAT TA- BLDG ROOM- <b>C/B</b> 40/2 40/2 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: UIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: /AILABLE: A B C A B C A B C A B C A B C A B C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B	20V T: 40 40 40 40 40
1 3 5 7 9 11 13 15 17 19	LOCAT TA- BLDG ROOM- 40/2 40/2 40/2 40/2 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/ LEVEL 2 EV CHARGER 5/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: PHASE A B C A B C A B C A A B C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B	20V
1 3 5 7 9 11 13 15 17 19 21 23 25 27	LOCAT TA- BLDG ROOM- 40/2 40/2 40/2 40/2 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/ LEVEL 2 EV CHARGER 5/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: A A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A C C A C C A C C C C		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B	20V T: 40 40 40 40 40
1   3   5   7   9   11   13   15   17   19   21   23   25	LOCAT TA- BLDG ROOM- 40/2 40/2 40/2 40/2 40/2	TED AT: OS	FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/ LEVEL 2 EV CHARGER 5/	208 L-L 120 L-N 3 Φ 4 W		RCPT   3120	SECTIC MAIN RANCH HORT C	N: TYPE MAIN BI BUS BRKR AK BRKR AK RCUIT A	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: AILABLE: A A B C A B C A B C A B C A B C A A B C A A B C A		225 A A 225A 14 kA kA 10 kA kA		ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120	OSURE MOU THRU F IRU LUG	TYPE: NTING: FED: EEDS:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B	20\
1   3   5   7   9   11   13   15   17   19   21   23   25	LOCAT TA- BLDG ROOM- 40/2 40/2 40/2 40/2 40/2 40/2 40/2 C		FRAME SIZE: VOLTAGE: PHASE: WIRE: VIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/ LEVEL 2 EV CHARGER 5/	208 L-L 120 L-N 3 Φ 4 W	B:	S RCPT 3120 312	SECTIC MAIN RANCH HORT C PWR 900		1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: C RATING: A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A C C A C C A C C A C C A C C C C	1 NLO 125 100	225 A A 225A 14 kA kA 10 kA kA NON-C	PWR	ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120		TYPE: INTING: FED: EEDS: G SIZE:	NEMA 3R Surface TR-1 LEVEL 2 E LEVEL 2 E LEVEL 2 E LEVEL 2 E	EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B R 5B R 6B R 6B	20V T: 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 0 VA
1 3 5 7 9 11 13 15 17 19 21 23 25 27	LOCAT TA- BLDG ROOM- 40/2 40/2 40/2 40/2 40/2 40/2 40/2 C		FRAME SIZE: VOLTAGE: PHASE: WIRE: WIRE: LEVEL 2 EV CHARGER 1/ LEVEL 2 EV CHARGER 2/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 3/ LEVEL 2 EV CHARGER 4/ LEVEL 2 EV CHARGER 6/ CAD per PHASE: A: ONECTED LOAD: JS LOAD (CONT): LE LOAD (RCPT): US LOAD (PWR):	208 L-L 120 L-N 3 Φ 4 W A A A A A A A 24,960 24,960 0 VA 74880 VA 0 VA	B:	S RCPT 3120 312	SECTIC MAIN RANCH HORT C PWR	N: TYPE MAIN BI BUS BRKR AIG RCUIT AV NON-C NON-C C: FEEDER S TINUOUS or NEC 2: TINUOUS VTH CAPA	1 of OF MAIN: MLO SIZE: RKR SIZE: BRACING: C RATING: C RATING: C RATING: A B C A B C A B C A B C A B C A B C A B C A B C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A B C C A C C A C C A C C A C C A C C C C	1 NLO 125 100 100 20'	225 A A 225A 14 kA kA 10 kA kA NON-C	PWR	ENCL SUB OR SUB/TH 3120 3120 3120 3120 3120 3120 3120 3120		TYPE: INTING: FED: FEDS: G SIZE:	NEMA 3R Surface TR-1	EV CHARGEF EV CHARGEF	SERVED BY: TR-1 CKT: 208/1 LOCATED A TA- BLDG ROOM- OS R 1B R 2B R 3B R 4B R 5B R 6B R 6B	20V T: 4( 4( 4( 4( 4(

**PANEL SCHEDULES** 

## **GENERAL NOTES:**

1. A SIGN SHALL BE ADDED TO THE FRONT OF OUR PP-A. IT SHALL BE 4" X 4", RED WITH WHITE LETTERING, AND SHALL READ "EMERGENCY SHUTOFF -ALL EV CHARGERS IN THIS LOCATION CAN BE SHUT DOWN BY SWITCHING OFF THE MAIN CIRCUIT BREAKER IN THIS PANEL."

6

- 2. ALL TRANSFORMER %Z TYP., FINALIZED AFTER PROCUREMENT.
- 3. SYSTEM ENGINEER TO PROVIDE INCIDENT ENERGIES FOR ALL NEW PANELS AND 480V EQUIPMENT.

## **KEYED NOTES:**

- (1) PROVIDE AND INSTALL 480V 100A PANEL. FEED FROM NEW 75 kVA TRANSFORMER AS SHOWN. CONDUCTORS TO PANEL ARE 4-#2 AWG IN 2" CONDUIT.
- 2 PROVIDE AND INSTALL SQD OR EQUIVALENT 480V DELTA PRIMARY, 120/208Y SECONDARY, 75 KVA, 3-PHASE, NEMA 3R, PAD-MOUNT TRANSFORMER. CONDUCTORS TO TRANSFORMER FROM 480V PANEL ARE 3-#2 AWG AND #8 AWG EGC IN 1 1/4" RACEWAY. INSTALL SUPPLY SIDE BONDING JUMPER #4 CU.
- 3 PROVIDE AND INSTALL SIX (6 DUAL) LEVEL 2 CHARGERS, TWELVE (12) PORTS TOTAL AT 40A PER PORT. CONDUCTORS TO BE 4-8 AWG AND 1-10 AWG EGC IN 1" RACEWAY EACH. INSTALL PER MANUFACTURER'S DIRECTIONS, INCLUDING COMPLETING INSTALLATION CHECKLIST.
- 4 UI DESIGN RESPONSIBLE FOR NEW TRANSFORMER AND EVERYTHING ON ITS PRIMARY SIDE. THIS DESIGN RESPONSIBLE FOR DESIGN FROM NEW TRANSFORMER SECONDARY LUGS TO CHARGING STATIONS. UTILITY TRANSFORMER SUBJECT TO CHANGE BASED ON UI CONSTRAINTS.
- 5 PROVIDE AND INSTALL 225A POWER PANEL PROVIDING 208V FEEDER. CONDUCTORS FROM TRANSFORMER TO PANEL TO BE 4-4/0 AWG AND 1-#2 AWG EGC IN 2" RACEWAY.
- (6) SELECT THIS OPTION IF NO ADEQUATE PP-A EXISTS IN FACILITY.
- 7 SELECT THIS OPTION IF PP-A EXISTS IN FACILITY AND ADD 1-#8CU BOND CONDUCTOR TO FEEDER PLACED IN 1.5" RACEWAY.

## **DESIGNER NOTES:**

- 1. THIS CONFIGURATION HAS NO LEVEL 3 CHARGERS & SIX (6) DUAL LEVEL 2 CHARGERS.
- 2. IF NO LEVEL 3 CHARGERS ARE NEEDED, CONSIDER HAVING UTILITIES INSTALL A TRANSFORMER WITH A 208/120 VOLT SECONDARY. THEN REMOVE PP-A & SIZE TR-X FOR FEEDING TR-1

**REMOVE DESIGNER NOTES FROM DRAWING PACKAGE.** 

LBO-DESIGN					
PACKAGE REVIEWER					
APPROVED					
FOR RELEASE A. YAEGER					
SUBMITTED					
T. KOSTRUBALA					
VERIFIED					
R. DE LA TORRE					
DESIGNED					
M. NELSON					
DRAWN					
K. KETCHUM		0	INITIA	L ISSUE FOR	10/02/23
CLASSIFICATION D. SI	MITH	NO	REVISI	ON DESCRIPTION	DATE
[UNCLASSIFIED]					
ENGIN	IEERING	k	STA	NDARD	S
ELECTRIC		CI	HARGIN	G STATION	IS
ELECTRIC	ELECTRICAL ONE				IS
ELECTRIC					S
				NS BLDG XXXX	
TA-XX	ELECTRICAL ONE			NS BLDG XXXX SHEET E-60	)01
TA-XX • LOS Alamos NATIONAL LABORATORY		E-LII	NE DIAGRAI	NS BLDG XXXX	
TA-XX	ELECTRICAL ONE	E-LII	NE DIAGRAI	NS BLDG XXXX SHEET E-60	)01
TA-XX • LOS Alamos NATIONAL LABORATORY	ELECTRICAL ONE PO Box 1663 Los Alamos, N DRAWING NO	<b>-LII</b>	NE DIAGRAI	NS BLDG XXXX SHEET <b>E-6(</b> 5 of	)01 6