

1.2.2

VOLTA PCS ON

CON	ITRACTOR VERIFICATION CHECKLIST		
12	SEED & STABILIZE ALL DISTURBED AREAS AFTER FINAL GRADING.		
11	PROVIDE PROPOSED LIMITS OF ASPHALT OVERLAY SKETCH TO EVCIA & VOLTA (IF NEEDED).		
10	LOCATE VERTICAL AND HORIZONTAL UTILITIES PRIOR TO BORING.		
9	IMPLEMENT AND MAINTAIN EPSC CONTROL MEASURES PER LOCAL REQUIREMENTS.		
8	ESTABLISH TEMPORARY CONSTRUCTION ACCESS(ES).		
7	CONFIRM ALL ADA AND LOCAL REQUIREMENTS ARE MET.		
6	FIELD VERIFY ALL STALL DIMENSIONS AND EQUIPMENT LOCATIONS.		
5	FIELD LOCATE EXISTING UTILITIES AND CROSSINGS & VERIFY NO CONFLICTS W/PROPOSED INFRASTRUCTURE.		

ITEM	TASK	YES	NO	N/A
1	CONTACT 811 UTILITY PRIOR TO EXCAVATION WORK			
2	NOTIFY EVCIA OF ANY DISCREPANCIES W/ PLANS OR POTENTIAL CONFLICTS			
3	VERIFY ALL FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH THESE PLANS.			
4	INSTALL WORK AREA PROTECTION MEASURES.			
5	FIELD LOCATE EXISTING UTILITIES AND CROSSINGS & VERIFY NO CONFLICTS W/PROPOSED INFRASTRUCTURE.			
6	FIELD VERIFY ALL STALL DIMENSIONS AND EQUIPMENT LOCATIONS.			
7	CONFIRM ALL ADA AND LOCAL REQUIREMENTS ARE MET.			
8	ESTABLISH TEMPORARY CONSTRUCTION ACCESS(ES).			
9	IMPLEMENT AND MAINTAIN EPSC CONTROL MEASURES PER LOCAL REQUIREMENTS.			
10	LOCATE VERTICAL AND HORIZONTAL UTILITIES PRIOR TO BORING.			
11	PROVIDE PROPOSED LIMITS OF ASPHALT OVERLAY SKETCH TO EVCIA & VOLTA (IF NEEDED).			



3" CONDUIT RUN ON

LEVEL BELOW. APPR. 450'

WEGMANS - RALEIGH

1200 WAKE TOWNE DR. RALIEGH, NC 27609 AHJ: CITY OF RALEIGH

CODE REQUIREMENTS:

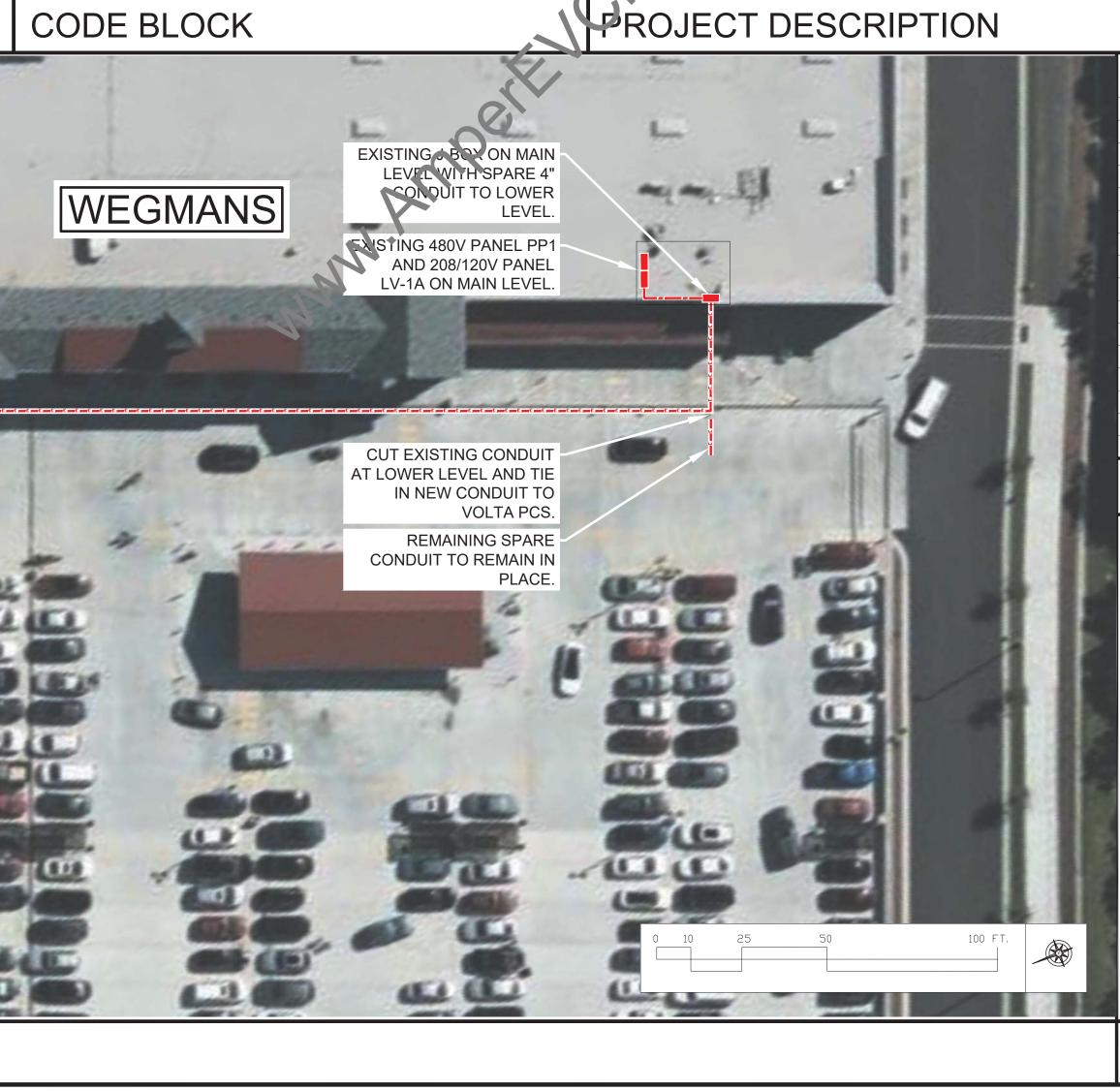
ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE BUILDING/DWELLING, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE/LIFE SAFETY CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THE LOCAL GOVERNING AUTHORITIES CODES.

VOLTA PROPOSES TO INSTALL:

(2) ELECTRIC VEHICLE (EV) CHARGING STATION FIXTURES TO BE LOCATED IN EXISTING PARKING AREAS THAT ARE WITHIN ON-SITE PARKING SPACES AND PART OF AN EXISTING PROPERTY.

THE EV FIXTURES ARE CUSTOMARY ACCESSORY AND INCIDENTAL TO THE EXISTING COMMERCIAL USE AND SOLELY FOR THE BENEFIT OF CUSTOMERS VISITING THE STORES. THE FIXTURES ARE LOCATED TO PROVIDE PRIORITY PARKING FOR PATRONS WITH EVS AND DISPLAY VISIBILITY ALONG THE INTERIOR C RC ... ATION AISLE FOR SHOPPERS. THERE ARE NO PROPOSED CHARGES TO THE PARKING SPACES OR ANY OF THE EXISTING TRAFFIC CIRCULATION AT THE PROPERTY.

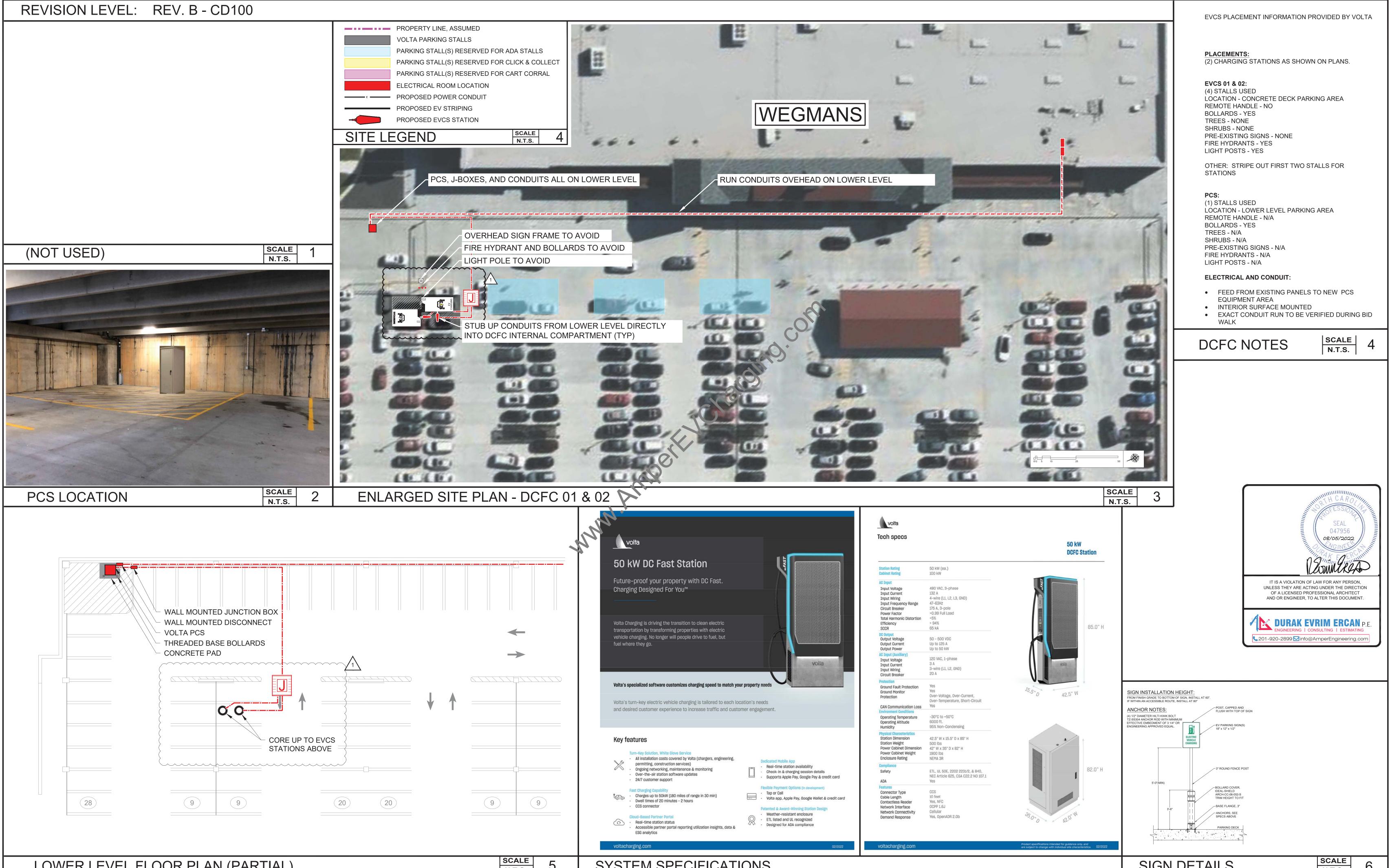
ADDITIONAL STALLS WILL BE STRIPED OUT FOR VOLTA STATIONS. PARKING STALL COUNT MUST CONFIRM 1 STALL PER **O SQUARE FEET.**



		Voita 155 DE HARO STREET SAN FRANCISCO, CA 94103
		Contraction of the second seco
EV CHA 1214 R WANTA CONTA PHONE EMAIL: VOLTA, 155 DE SAN FR CONTA PHONE EMAIL: SITE WEGMA 1500 B	chris.lehr@evcharginginstallers.comEMAIL:greg.cox@evcharginginstallers.comA REPRESENTATIVE Inc.PROFESSIONAL ENGINEERING: DURAK EVRIM ERCAN, P.E.HARO STREET ANCISCO CA 94103 CT:DURAK EVRIM ERCAN, P.E.ANCISCO CA 94103 CT:LIVINGSTON, NJ 07039 CONTACT:CT:TIM NIES Mailes timothy.nies@voltacharging.comPARTNER: NS - REAL ESTATE AND SITE DEVELOPMENT COOKS AVENUE STER, NY 14624 CT:DURAK EVRIM ERCAN, P.E.	REV DATE DESCRIPTION DRN CHK A 04/18/22 CD50 MM GC B 05/13/22 CD100 MM GC 1 07/08/22 AHJ Compliance MM GC I </th
PI	ROJECT TEAM	ISSUE DATE 08/05/22
SHEET	DESCRIPTION	
G-1.0 G-2.0 G-4.0	COVER SHEET NOTES AND LEGENDS PLAN SUMMARY	ISSUED FOR CONSTRUCTION
C-3.1 C-3.3 C-4.0 E-1.1 E-1.4	FOUNDATION LAYOUTS DETAILS STRIPING DETAILS ELECTRICAL DETAILS ELECTRICAL NOTES AND RISER	SEAL 047956 08/05/2022
		IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION
SHEF	TINDEX	OF A LICENSED PROFESSIONAL ARCHITECT AND OR ENGINEER, TO ALTER THIS DOCUMENT.
	Know what's below. CALL before you dig.	ELECTRIC VEHICLE CHARGING STATIONS WEGMANS RALIEGH, NC
D	IG ALERT	EVCIA PROJECT # 1741
CON	ITRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, DITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE EER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME	SHEET TITLE COVER SHEET
		SHEET NUMBER G-1.0
DO N	OT SCALE DRAWINGS	

LOWER LEVEL FLOOR PLAN (PARTIAL)

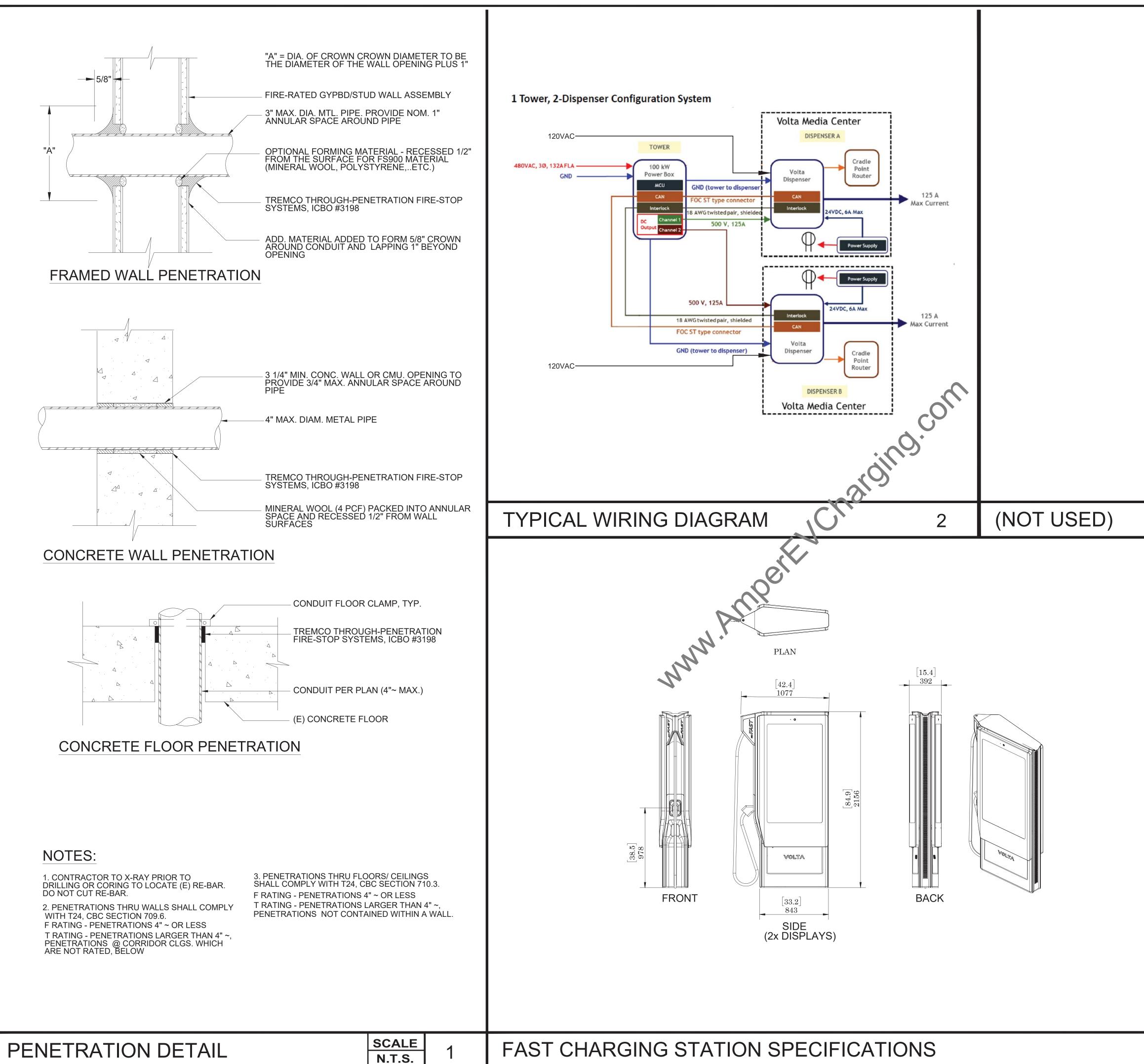




EVCIA #1741 - WEGMANS - RALEIGH NC - (2) DCFC EV STATIONS

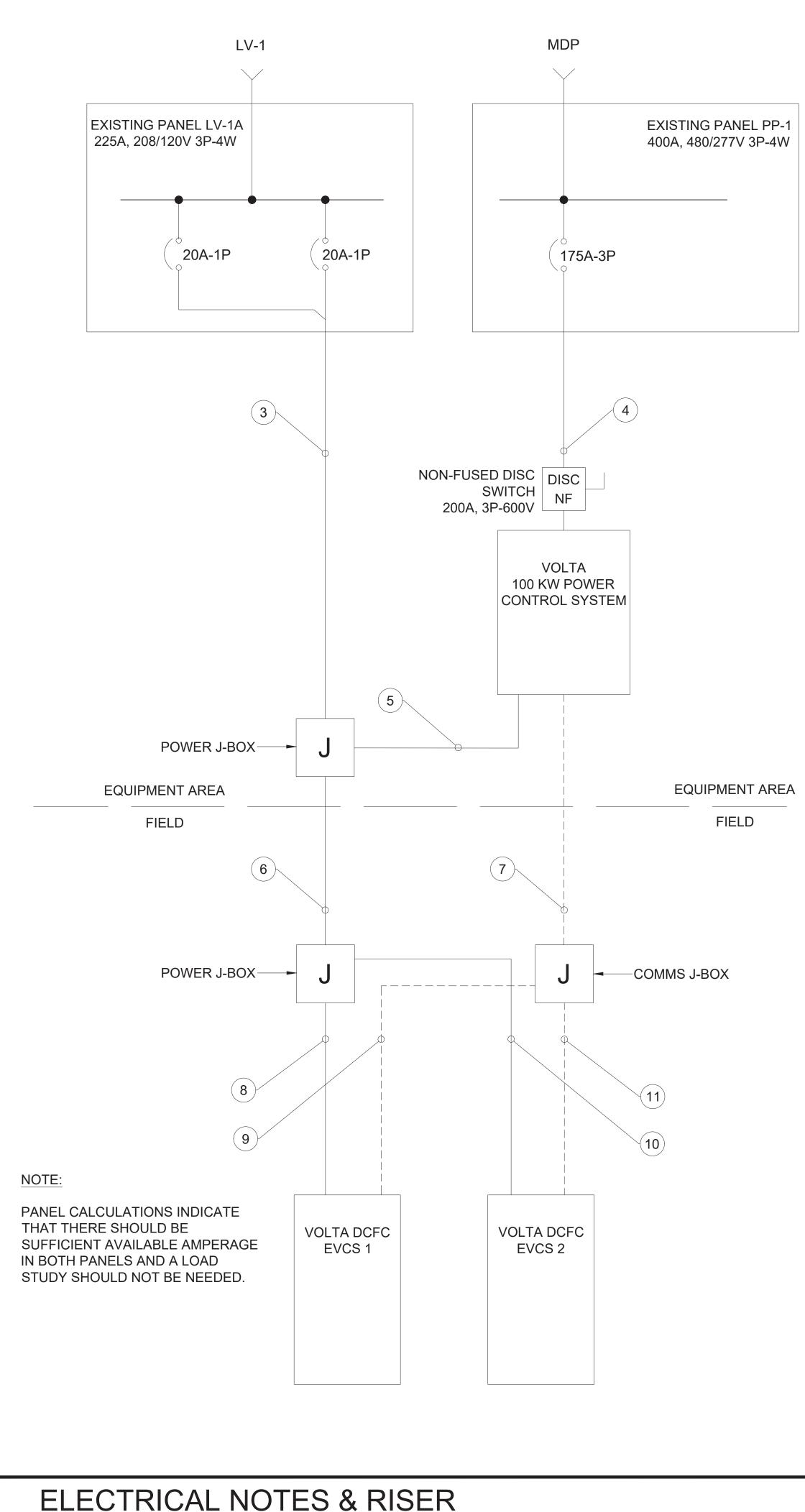
SYSTEM SPECIFICATIONS

PLAN SUMMARY AND DETAILS G-4.0



FAST CHARGING STATION SPECIFICATIONS

CHARGER SPECIFICATIONS: SIZE: H 85.0" x W 42.5" x D 15.5" CORD LENGTH: 12.5 POWER CUTPUT: 0-500VDC, 1254(MAX) 60 KW MX PLUG: CCS1 COMPLIANT CONNECTOR LISTINGS: UL 1741 POWER REQUIREMENTS: CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATIONS: 6A/1P 120V 20A BREAKER		VOITA 155 DE HARO STREET SAN FRANCISCO, CA 94103
CHARGER SPECIFICATIONS: SIZE: H 85.0" X W 42.5" X D 15.5" CORD LENGTH: 12.5" POWER OUTPUT: 0-500VDC, 125A(MAX) 80 KW MAX PLUG: CCS1 COMPLIANT CONNECTOR LISTINGS: UL 1741 POWER REQUIREMENTS: CHARGING UNIT: 132A/3P 480Y/277V/ 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V ZOA BREAKER		EV CHARGING INSTALLERS OF AMERICA, LLC 1214 Rte 23, Bld B Wantage, NJ 07461
CHARGER SPECIFICATIONS: SIZE: H 85.0" x W 42.5" x D 15.5" CORD LENGTH: 1.2.5" POWER OUTPUT: 0-500VDC, 125A(MAX) 60 KW MAX PLUG: CCS1 COMPLIANT CONNECTOR LISTINGS: UL 1741 POWER REQUIREMENTS: CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V 20A BREAKER		DURAK EVRIM ERCAN P.E. ENGINEERING CONSULTING ESTIMATING 201-920-2899 Cinfo@AmperEngineering.com
Devent of the second of the se		REV DATE DESCRIPTION BY BY A 04/18/22 CD50 MM GC B 05/13/22 CD100 MM GC
CHARGER SPECIFICATIONS: SIZE: H 85.0" x W 42.5" x D 15.5" CORD LENGTH: 12.5' POWER OUTPUT: 0-500VDC, 125A(MAX) 60 kW MAX PLUG: CCS1 COMPLIANT CONNECTOR LISTINGS: UL 1741 POWER REQUIREMENTS: CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V 20A BREAKER		
CORD LENGTH. 12.3POWER OUTPUT: 0-500VDC, 125A(MAX)60 kW MAXPLUG: CCS1 COMPLIANT CONNECTORLISTINGS: UL 1741IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND OR ENGINEER, TO ALTER THIS DOCUMENT.POWER REQUIREMENTS:CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V 20A BREAKERWEGMANS RALIEGH, NC		CONSTRUCTION
POWER REQUIREMENTS: CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V 20A BREAKER	SIZE: H 85.0" x W 42.5" x D 15.5" CORD LENGTH: 12.5' POWER OUTPUT: 0-500VDC, 125A(MAX) 60 kW MAX PLUG: CCS1 COMPLIANT CONNECTOR	IT IS A VIOLATION OF LAW FOR ANY PERSON,
CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V 20A BREAKER		OF A LICENSED PROFESSIONAL ARCHITECT
NOTES: EVCIA PROJECT # 1741	CHARGING UNIT: 132A/3P 480Y/277V 175A BREAKER STATION AUX POWER: MEDIA STATIONS: 6A/1P 120V NON-MEDIA STATIONS: 3A/1P 120V	CHARGING STATIONS WEGMANS
		EVCIA PROJECT # 1741
THE GRIP RANGE FOR THE CHARGE CABLE BEGINS AT 38.5" ABOVE PARKING SURFACE. ELECTRICAL DETAILS	CHARGE CABLE BEGINS AT 38.5"	
SCALE 3 N.T.S. 3		



174 VO

8/5/2022 2:40:18 PM

ELECTRICAL NOTES & RISER

CONDUIT SCHEDULE

Conduit Number	Length Ft.	Conduit Size In.	Conductors	Conduit Fill %
3	450	1	4 #6-1kV, 1 #6G	29
4	450	3	3 #2/0, 1 #1G	25
5	10	3	4 #1/0-1kV, 1 #6G	11
6	160	3	4 #1/0-1kV & 1#6G, 4 #6-1kV & 1 #6G	14
7	160	(2) 1-1/2	2 #18 AWG CU SHIELDED TP, 4-PR OM3 MULTIMODE-50/125µ, W/ST CONNECTORS	
8	20	3	2 #1/0-1kV & 1 #6G, 2 #6-1kV & 1 #6G	37
9	20	(2) 1	1 #18 AWG CU SHIELDED TP, 2-PR OM3 MULTIMODE-50/125µ, W/ST CONNECTORS	
10	20	3	2 #1/0-1kV & 1 #6G, 2 #6-1kV & 1 #6G	37
11	20	(2) 1	1 #18 AWG CU SHIELDED TP, 2-PR OM3 MULTIMODE-50/125µ, W/ST CONNECTORS	

PANEL SCHEDULES

										PA	NEL P	P-1										
	VOLTAGE: 3 PHASE, 4																		BU	JS (A):		
No.	CIRCUIT DESCRIPTION	+ WIRE		LOAD	(KVA)			BREA	AKER		PHASE		BRE	AKER			LOAD (KVA)	MA.	[N (A):	CIRCUIT DESCRIPTION	No.
		CONT	RCPT	MTR	A/C	КІТСН	MISC	TRIP	POLE	A	В	С	POLE		MISC	КІТСН	A/C	MTR	RCPT	CONT	CIRCUIT DESCRIPTION	
1 3	LIGHTING - F.E.OFFICES/RESTROOMS	0.60						20 20	1	0.60	0.70		1	20 20								SPARE 2 SPARE 4
5	LIGHTING - FINE WINE ROOM TRK LTS	0.10						20	1	\leq		0.10	1	20								SPARE 6
7	VOLTA POWER SUPPLY PCS2							20	1	0.00	\sim	$>\!\!\!\!\!\!\!\!\!\!\!\!\!$	1	20								SPARE 8
9	SPARE							20	1	\geq	0.00	\geq	3	60							(1) AC-	
11	SPARE							20	1	\geq	\geq	0.00	X	Х								X 12
13 15	SPARE							20	1	0.00	0.00	>	X	X 20							(1) AC 1	X 14
15	SPARE SPARE							20 20	1	>	0.00	0.00	3 X	30 X							(1) AC-1	2 ROOF 16 X 18
19	VOLTA POWER SUPPLY PCS	36.60						175	3	36.60	\leq	0.00	X	X								X 20
21	x	36.60						Х	х	\geq	36.60	> <	1	20								SPARE 22
23	x	36.60						Х	х	\geq	\geq	36.60	1	20		RŌ						SPARE 24
25	BLANK									0.00	\geq	\geq	1	20								SPARE 26
27	BLANK									\geq	0.00		1	20								SPARE 28
29	BLANK											0.00	1	20								SPARE 30
31 33	BLANK SPARE							20	1	0.00	0.00	>										BLANK 32 BLANK 34
35	SPARE							20	1		0.00	0.00										BLANK 36
37	SPARE		1					20	1	0.00	\leq				· · · · ·							BLANK 38
39	SPARE							20	1	\geq	0.00			27								BLANK 40
41	SPARE							20	1	\geq	\geq	0.00										BLANK 42
		LOADS				FACTOR		то	τΔι	37.20	37.30	5.7			0.00	0.00	0.00	0.00	0.00	111.20	CONNECTED KVA 111.2	
	· · · //11/21/22	CONT	RCPT		· · ·	KITCH						-1										
	A PHASE	46.50	0.00		0.00	0.00	0.00		.50	CONTINUO											NOTES	
	B PHASE C PHASE	46.63 45.88	0.00	0.00	0.00	0.00	0.00	46		RECEPTACLES:	US:125 L	+ 50% REMAIN	ING	L ´							RE NOT KNOWN, ASSUMPTIONS AR	
	DEMAND PER LOAD TYPE (KVA)				0.00	0.00	0.00		.00	MOTORS: 125%		R + 100% REMAI		· · ·							UMED TO BE %80 OF THE OCPD RA ASSUMED TO BE %100 OF THE OC	
	DEMAND FER EOAD FITE (RVA)					PHASE		46		-	T:1 0º LO			· ·							PER THHN CONDUCTORS. EXISTIN	
						PHASE	· /		6	KITC EN:6										-	TED AND VERIFIED BY	3
							. ,													- 11101 20		
		TOL	AL DLI'I	AND LC	ADIO	K PANEL	L (KVA)	132	9.00	MISC:1 99	6 LOAD			ELEC	TRICAL	CONTRA	ICTUR.					
	MINIMU	TOT	AL DEM	AND LO	AD FOF	R PANEL	_ (AMP)		67	MISC: N 9	6 LOAD							ITINOUS	5 LOADS	AND AC	TUAL NAME PLATE VALUES ARE US	ED.
		TOT/ M FEED	al dem.	AND LO	AD FOF	R PANEL	_ (AMP)	1/	67	J	NEL LV	-1A						ITINOUS	LOCA	ATION:	MAIN LEVEL ELECTRICAL	ED.
	MINIMU VOLTAGE: 3 PHASE,	TOT/ M FEED	AL DEM. DER AM	AND LO	AD FOF	R PANEL	_ (AMP)	1/	67	J		-1A						ITINOUS	LOCA		MAIN LEVEL ELECTRICAL 225	ED.
No.	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208	AND LO	AD FOF Y SELE	R PANEL	<u>. (AMP)</u> (AMP)	II I BRE/ TRIP	67			с_С	POLE	3) EVCS	S ARE C	DNSIDEF	LOAD (LOCA BL MAJ	ATION: JS (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION	No.
1	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 RCPT 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE, TRIP 20	AKER POLE	PAI	PHASE B		POLE 2	3) EVCS	S ARE C		LOAD (A/C 2.50	KVA)	LOCA BL MAJ	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO	No. RVICE 2
1 3	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 RCPT 0.40 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	67 7 AKER POLE 1 1		NEL LV	C	POLE 2 X	3) EVCS AKER TRIP 25 X	S ARE C		LOAD (KVA)	LOCA BL MAJ	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI	No. RVICE 2 X 4
1 3 5	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 RCPT 0.40 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	11 1 1 1 1 1 1 1 1 1 1 1 1	67 7 7 8 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B		POLE 2 X 1	3) EVCS	S ARE C		LOAD (A/C 2.50	KVA)	LOCA BL MAJ	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI	No. RVICE 2 X 4 SPARE 6
1 3 5 7	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 RCPT 0.40 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20 20 20 20 20	67 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7		PHASE B 2.90	C	POLE 2 X 1 1	3) EVCS	S ARE C		LOAD (A/C 2.50	KVA)	LOCA BL MAJ	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI	No. RVICE 2 X 4 SPARE 6 SPARE 8
1 3 5 7 9	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 208 RCPT 0.40 0.40 0.40 0.40 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B	C	POLE 2 X 1 1 2	3) EVCS AKER TRIP 25 X 20 20 20	S ARE C		LOAD (A/C 2.50	KVA)	LOCA BL MAJ RCPT	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10
1 3 5 7	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 RCPT 0.40 0.40	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20 20 20 20 20	67 7 7 8 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90	C	POLE 2 X 1 1	3) EVCS	S ARE C		LOAD (A/C 2.50	KVA)	LOCA BL MAJ	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12
1 3 5 7 9 11	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 208 RCPT 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90	C	POLE 2 X 1 2 2 X X	3) EVCS AKER TRIP 25 X 20 20 20 20 X	S ARE C		LOAD (A/C 2.50	KVA)	LOC/ BL MAJ RCPT 1.60 1.60	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12
1 3 5 7 9 11 13	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24	TOT/ M FEED : 120 4 WIRE	AL DEM DER AM 208 208 RCPT 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90 2.00	C	POLE 2 X 1 2 X 2 X 1	3) EVCS AKER TRIP 25 X 20 20 20 20 X 20 20 X 20	S ARE C		LOAD (A/C 2.50	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD	No. ERVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12 - HBC 14 X 16
1 3 5 7 9 11 13 15	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE	TOT/ M FEED : 120 4 WIRE CONT	AL DEM DER AM 208 208 RCPT 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90 2.00	C 0.40 1.60	POLE 2 X 1 2 X 1 X 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 X 20 20 X 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD	No. ERVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12 - HBC 14 X 16
1 3 7 9 11 13 15 17 19 21	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 A XX VOLTA CHARGING STATION 1 A XX	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM 208 208 RCPT 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90 2.00	C 0.40 1.60	POLE 2 X 1 2 X 1 1 1 2 2 2	3) EVCS AKER TRIP 25 X 20 20 20 20 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (No. ERVICE 2 X 4 SPARE 6 SPARE 10 X 12 - HBC 14 X 16 DFFICE 18 X 20 SPARE 22
1 3 5 7 9 11 13 15 17 19 21 23	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 A XX VOLTA CHARGING STATION 1 A XX SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90 2.00	C 0.40 1.60	POLE 2 X 1 2 X 1 1 2 X 1 2 X 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (No. ERVICE 2 X 4 SPARE 6 SPARE 10 X 12 - HBC 14 X 16 DFFICE 18 X 20 SPARE 22 SPARE 24
1 3 7 9 11 13 15 17 19 21 23 25	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 A X VOLTA CHARGING STATION 1 A X SPARE CORD DROPS	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	67 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI	PHASE B 2.90 2.00 1.20 0.36	C 0.40 1.60	POLE 2 X 1 2 X 1 2 X 1 2 X 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (No. RVICE 2 X 4 SPARE 6 SPARE 10 X 12 - HBC 14 X 16 DFFICE 18 X 20 SPARE 22 SPARE 24 SPARE 26
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1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 AX VOLTA CHARGING STATION 1 AX SPARE CORD DROPS CORD DROPS CORD DROPS SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM	AND LO	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PAI	PHASE B 2.90 2.00 1.20 0.36	C 0.40 1.60	POLE 2 X 1 2 X 1 1 2 X 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (No. RVICE 2 X 4 SPARE 6 SPARE 10 X 12 - HBC 14 X 16 DFFICE 18 X 20 SPARE 22 SPARE 24 SPARE 28 SPARE 28 SPARE 30
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1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 14 A VOLTA CHARGING STATION 14 A SPARE CORD DROPS CORD DROPS SPARE SPARE CORD DROPS SPARE SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE, TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PAI	PHASE B 2.90 2.00 1.20 0.36	C 0.40 1.60 1.20 0.00	POLE 2 X 1 2 X 1 1 2 X 1 1 1 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20 1.20 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12 - HBC 14 X 16 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 26 SPARE 28 SPARE 30 SPARE 32 WINE 34
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	VOLTAGE: 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 AX VOLTA CHARGING STATION 1 AX SPARE CORD DROPS CORD DROPS CORD DROPS SPARE SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM 208 208 208 208 208 208 208 208 208 208	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE/ TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PAI	PHASE B 2.90 2.00 1.20 0.36	C 0.40 1.60 1.20	POLE 2 X 1 2 X 1 1 2 X 1 1 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (VAV-12-09 FE SVC MDSE (CORD DROP - CORD DROP - CORD REEL -	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12 - HBC 14 X 16 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 26 SPARE 28 SPARE 30 SPARE 32 WINE 34
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 33	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 14 A VOLTA CHARGING STATION 14 A SPARE CORD DROPS CORD DROPS SPARE SPARE SPARE SPARE CORD DROPS SPARE SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM 208 208 208 208 208 208 208 208 208 208	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE, TRIP 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PAI	PHASE B 2.90 2.00 1.20 0.36	C 0.40 1.60 1.20 0.00	POLE 2 X 1 2 X 1 2 X 1 1 1 1 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20 1.20 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (VAV-12-09 FE SVC MDSE (CORD DROP - CORD DROP - CORD REEL -	RVICE 2 X 4 SPARE 6 SPARE 6 SPARE 7 HBC 10 X 12 - HBC 11 X 10 SPARE 12 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 22 SPARE 23 SPARE 30 SPARE 30 SPARE 32
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	VOLTAGE 3 PHASE, CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 4 IX VOLTA CHARGING STATION 4 IX VOLTA CHARGING STATION 4 IX SPARE CORD DROPS CORD DROPS SPARE SPARE CORD REELS - GROC MDSE SPARE SPARE	TOT/ M FEED : 120 4 WIRE CONT CONT	AL DEM DER AM 208 208 208 208 208 208 208 208 208 208	AND LO IPACITY	AD FOF Y SELE		<u>. (AMP)</u> (AMP)	BRE TRIP 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PAI	PHASE B 2.90 2.00 1.20 0.36 0.40 0.80	C 0.40 1.60 1.20 0.00	POLE 2 X 1 2 X 1 2 X 1 1 1 1 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE C		LOAD (A/C 2.50 2.50 1.20	KVA)	LOC/ BL MAJ RCPT 1.60 1.60 1.20 1.20 1.20	ATION: JS (A): IN (A):	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (VAV-12-09 FE SVC MDSE (CORD DROP - CORD DROP - CORD REEL -	RVICE 2 X 4 SPARE 6 SPARE 6 SPARE 7 HBC 10 X 12 - HBC 14 MC 14 SPARE 22 SPARE 22 SPARE 22 SPARE 24 SPARE 24 SPARE 24 SPARE 24 SPARE 24 SPARE 24 SPARE 24 SPARE 30 SPARE 31 SPARE 31 SPA
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1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	VOLTAGE 3 PHASE, 5 CIRCUIT DESCRIPTION RECEPTACLES - FROZEN FOOD CORD DROPS - HBC CORD DROPS - FRZN FOODS CASE CORD DROPS - FRZN FOODS CASE CORD DROP - FRONT END SPARE COLUMN RECPT - REGISTER #24 SPARE SPARE VOLTA CHARGING STATION 1 A 2 VOLTA CHARGING STATION 1 A 2 SPARE CORD DROPS CORD DROPS SPARE CORD DROPS SPARE S	TOT/ M FEED 120 4 WIRE CONT CONT 0.36 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.45	AL DEM DER AM	AND LO PACIT	AD FOF Y SELE (KV(1) A) A) A) A) A) A) A) A) A) A) A) A) A)	FACTOR KITCH 0.00 0.00	(AMP) (AMP)	BRE TRIP 20	57 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	PAI A 2.90 0.40 1.60 1.56 0.40 0.00 0.00 6.86 CONTINUO	PHASE B 2.90 2.00 1.20 0.36 0.40 0.80 0.80 0.00 7.66	C 0.40 1.60 1.20 0.00 0.00 0.40 0.40 0.10 3.70	POLE 2 X 1 1 2 X 1 1 2 X 1 1 1 1 1 1 1 1 1 1	3) EVCS AKER TRIP 25 X 20 20 20 20 20 20 20 20 20 20 20 20 20	S ARE CI MISC 		LOAD (A/C 2.50 2.50 1.20 1.20 1.20 1.20 1.20 1.20 1.20	KVA) MTR	LOCA BL MAJ RCPT 1.60 1.60 1.20 1.20 1.20 1.20 1.20 0.40 0.40 0.40 0.40	ATION: JS (A): IN (A): CONT	MAIN LEVEL ELECTRICAL 225 MLO CIRCUIT DESCRIPTION VAV-12-01 CUSTOMER SI PLUGMOLD PLUGMOLD VAV-12-09 FE SVC MDSE (VAV-12-09 FE SVC MDSE (CORD DROP CORD DROP CORD REEL	No. RVICE 2 X 4 SPARE 6 SPARE 8 - HBC 10 X 12 - HBC 14 SPARE 28 SPARE 24 SPARE 24 SPARE 24 SPARE 23 WINE 36 SPARE 38 SPARE 38 SPARE 40 (RCUIT) 42
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VOLTAGE DROP CALCS

CONNECTED LOAD LARGEST PHASE (AMP) TOTAL DEMAND LOAD FOR PANEL (KVA)

OTAL DEMAND LOAD FOR PANEL (AMP)

MINIMUM FEEDER AMPACITY SELECTION (AMP) 65

VOLTAGE DROP CALCULATIONS										
Station	Length	Voltage	Current	Cond. Size	Voltage Drop	Voltage Drop				
Station	Length	Voltage	Current		%	Volts				
1	540	120	6	6	1.19%	1.43				
	180	500	125	#1/0	0.99%	4.95				
2	550	120	6	6	1.21%	1.45				
	180	500	125	#1/0	0.99%	4.95				
	NOTE: ALL POWER CONDUCTORS TO BE 1,000 VOLT RATED									

KITCHEN:65% LOAD

MISC:100% LOAD

CONDUCTORS AND WIRING MAY NEED TO BE INSPECTED AND VERIFIED BY

EVCS ARE CONSIDERED CONTINOUS LOADS AND ACTUAL NAME PLATE VALUES ARE USED.

ELECTRICAL CONTRACTOR.

ELECTRICAL NOTES:

- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- 2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
- 3. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
- 4. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH NEC ARTICLE 110.3
- 5. ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
- 6. ALL CONDUCTORS TO BE COPPER
- 7. ALL CONDUCTORS WITHIN A COMMON CONDUIT SHALL BE RATED FOR THE HIGHEST VOLTAGE WITH THE CONDUIT.
- 8. ALL CONDUCTORS AND CABLES SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES
- 9. EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER NEC 210.5
- 10. ALL UNDERGROUND CONDUIT TO BE HDPE SDR11 (OR BETTER), UL RATED, MINIMUM 24" DEEP.
- 11. WIRING FOR VOLTA CHARGING STATIONS TO BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND SPECIFICATIONS.
- 12. CHARGING UNITS ARE EQUIPPED WITH AN INTEGRATED CONTACTOR TO PREVENT BACK FEEDING OF POWER TO THE SOURCE.
- 13. SHORT CKTS RATING OF NEW PANELS AND EVCS EQMT SHALL MATCH THE EXISTING POWER SYSTEM RATING AND TO BE FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING INSTALLATION
- 14. CONTRACTOR IS RESPONSIBLE TO VERIFY DESIGN, ENGINEERING ASSUMPTIONS AND EXISTING FIELD CONDITIONS. REPORT ANY INSUFFICIENCIES TO ENGINEER OF RECORD PRIOR TO ANY WORK BEING PERFORMED.
- 15. WHERE A STEP-DOWN TRANSFORMER IS USED, IF THE DISTANCE FROM THE TRANSFORMER SECONDARY TERMINALS TO THE PANEL IS MORE THAN 25 FEET, AN ADDITIONAL OCPD MUST BE INSTALLED WITHIN 25 FEET OF THE TRANSFORMER SECONDARY TERMINALS. NEC 240.21(C)(3).
- 16. THE CONTRACTOR SHALL INSTALL 75°C RATED TERMINAL CIRCUIT BREAKERS IN PANEL.
- 17. THE CONTRACTOR SHALL INSTALL ALL EV EQUIPMENT PER NEC ART. 625 AND 110.25 TO PROVIDE EASY ACCESS TO OCPD DEVICES.
- 18. ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA ELECTRICAL GROUNDING CONDUCTORS.
- 19. THE GROUND SYSTEM SHALL BE INSTALLED AS PER NEC ART. 250.

ABBREVIATIONS:

1KV	1000V RATED CONDUCTOR
A	AMPERE
AC	ALTERNATING CURRENT
ART	ARTICLE
AUX	AUXILIARY BUILDING STRUCTURE
BLDG CONC	CONCRETE
COND	CONDUCTOR
CU	COPPER
DC	DIRECT CURRENT
DCFC	DIRECT CURRENT FAST CHARGER
DISC EGC	DISCONNECT EQUIPMENT GROUNDING CONDUCTOR
(E)	EXISTING
ÈMT	ELECTRIC METALLIC TUBING
EV	ELECTRIC VEHICLE
EVCS	ELECTRIC VEHICLE CHARGING SYSTEM
GALV GND	GALVANIZED GROUND
HDG	HOT DIPPED GALVANIZED
1	CURRENT
KVA	KILOVOLT AMPERE
M MBJ	METER MAIN BONDING JUMPER
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MAX	MAXIMUM
MIN	MINIMUM
N NEC	NEUTRAL NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NTS	NOT TO SCALE
(N)	NEW
PCS PH	POWER CONTROL SYSTEM PHASE
PVC	POLYVINYL CHLORIDE
RMC	RIGID METALLIC CONDUIT
SCH	SCHEDULE
SP	
TP TYP	TWISTED PAIR TYPICAL
V	VOLT
W	WATT
XFMR	TRANSFORMER

VOITA 155 DE HARO STREET SAN FRANCISCO, CA 94103
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DURAK EVRIM ERCAN P.E. ENGINEERING CONSULTING ESTIMATING 201-920-2899 Minfo@AmperEngineering.com
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ISSUE DATE 08/05/22
ISSUED FOR CONSTRUCTION
TISA VIOLATION OF LAW FOR ANY PERSON, NULESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND OR ENGINEER, TO ALTER THIS DOCUMENT.
ELECTRIC VEHICLE CHARGING STATIONS WEGMANS RALIEGH, NC
EVCIA PROJECT # 1741
SHEET TITLE
SHEET NUMBER E-1.4