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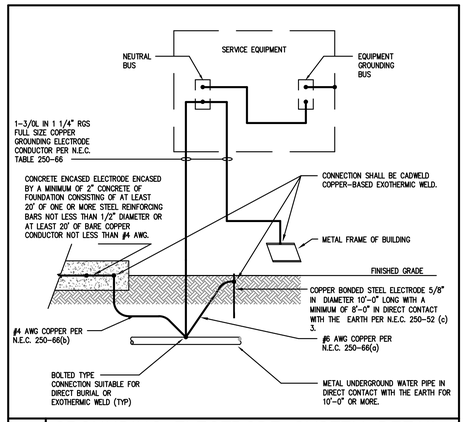
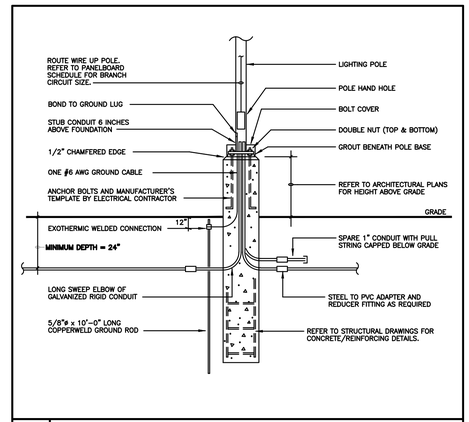
ELECTRICAL SYMBOLS LEGEND

	DUPLEX RECEPTACLE		CIRCUIT CONTINUED		2' X 4' FLUORESCENT LIGHT FIXTURE
	SIMPLEX RECEPTACLE		CIRCUIT HOMERUN		1' X 4' FLUORESCENT LIGHT FIXTURE
	SPECIAL RECEPTACLE		WIRING DESIGNATION: HOT NEUTRAL AND GROUND		2' X 2' FLUORESCENT LIGHT FIXTURE
	DATA CABLE OUTLET		FIRE ALARM HORN/STROBE		FIXTURE SERVING AS NIGHT/EGRESS LIGHTING
	TELEPHONE CABLE OUTLET		FIRE ALARM STROBE		STRIP OR WALL FIXTURE
	TELE/DATA CABLE OUTLET		FIRE ALARM SMOKE DETECTOR		EXIT LIGHT FIXTURE WITH DIRECTION ARROW AS SHOWN
			DUCT MOUNTED SMOKE DETECTOR		SITE LIGHTING POLE FIXTURE
	JUNCTION BOX		FIRE ALARM PULLSTATION		WALL MOUNTED FLOOD LIGHT
	DISCONNECT SWITCH		FIRE ALARM SPEAKER		EMERGENCY FLOOD LIGHT
	PANELBOARD		FIRE SPRINKLER FLOW SWITCH		DOWNLIGHT SERVING AS NIGHT/ EMERGENCY FIXTURE
	TRANSFORMER		FIRE SPRINKLER TAMPER SWITCH	$	LIGHT SWITCH
				$OC	OCCUPANCY SENSING LIGHT SWITCH
				$3	3-WAY LIGHT SWITCH
				$M	MOTOR RATED TOGGLE SWITCH WITH THERMAL OVERLOADS
				OC	CEILING MOUNT OCCUPANCY SENSOR
				PC	CEILING MOUNT PHOTO SENSOR



2 GROUNDING ELECTRODE SYSTEM DETAIL
NOT TO SCALE



1 PARKING LOT POLE BASE DETAIL
NOT TO SCALE

277/480V Load Analysis

		Raw Load	NEC Load (VA)	Ph A	Ph B	Ph C	Neutral
Building							
House Loads		10343	12929	16	16	16	16
Future Tenant Loads							
10000SF at 35W/sf	Retail	10000	35	350000	421	421	421	421
6500SF at 60W/sf	Food Svc	6500	60	390000	469	469	469	469
Building B total		16500 sf		752929	906	906	906	906
Building A total				740000	890	890	890	890
Service total				1492929	1796	1796	1796	1796

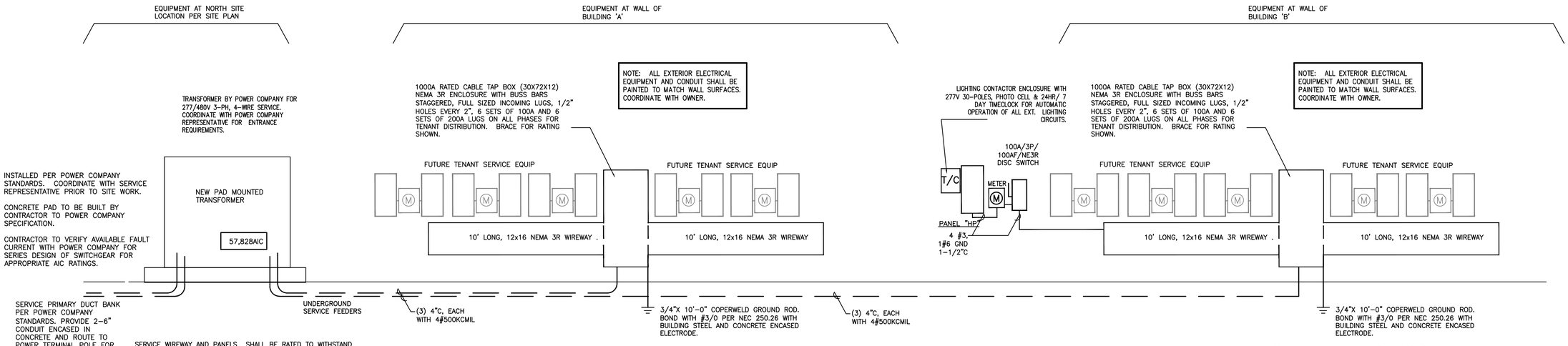
PANELBOARD HP — **100 A MLO** — LOCATION:
480Y/277; 3-PHASE — 100 MAIN BUS — MOUNT: SURFACE
WITH EQUIPMENT GROUND BUS — 100% NEUTRAL BUS — TYPE NEMA 1
22 kAIC RATED

L	R	M	O	WR SIZE	C.B.	POLE	LOAD AREAS AND LOCATION	Ø A	Ø B	Ø C	LOAD AREAS AND LOCATION	POLE	C.B.	WR SIZE	O	M	R	L
545				8	20/1	1	WALL SECURITYLTG				WALL SCONCE LTG	2	20/1	8				749
545				8	20/1	3	WALL SECURITYLTG				WALL SCONCE LTG	4	20/1	8				749
		5000		8	20/1	5	SPR ROOM UNIT HEATER				MONUMENT SIGN	6	20/2	6				1000
500				8	20/1	7	CENT CANOPY LIGHTS				–	8	–	6				1000
2598				8	20/1	9	PARKING LIGHTS				EXIT LIGHTING	10	20/1	8				745
1912				8	20/1	11	PARKING LIGHTS				EXIT LIGHTING	12	20/1	8				
						13	SPACE				SPACE	14						
						15	SPACE				SPACE	16						
						17	SPACE				SPACE	18						
						19	SPACE				SPACE	20						
						21	SPACE				SPACE	22						
						23	SPACE				SPACE	24						
						25	SPACE				SPACE	26						
						27	SPACE				SPACE	28						
						29	SPACE				SPACE	30						

CONNECTED Kva 3Ø		DEMAND		AMPS		CONNECTED 3Ø LOAD CALCULATIONS		
LIGHTING	10.3	10.3	100%	12.4	PER NEC 220-11	0.0	TOTAL kVA (ØA) =	0.1 AMPS
RECEPTACLE	0.0	0.0	N/A	0.0	PER NEC 220-13	0.0	TOTAL kVA (ØB) =	0.1 AMPS
MOTOR	5.0	5.0	100%	6.0		5.0	TOTAL kVA (ØC) =	18.2 AMPS
KITCHEN	0.0	0.0	100%	0.0	PER NEC 220-18 thru 41	6.1	**TOTAL CONNECTED 3Ø AMPS**	
SPARE		0.0	N/A	0.0		18.0	NEUTRAL AMPS	
TOTAL	15.3	15.3		18.5		295%	IMBALANCE	

LIGHT FIXTURE SCHEDULE

TYPE	MANUF	MODEL # OR NAME	LAMP	VOLTAGE	REMARKS
A	BEGA	55 944	25W LED	277	CANOPY LENSED DOWNLIGHT, A.E FIXTURE TO INCLUDE BATTERY BACK-UP
B	BEGA	33 592	15.8W LED	277	UP-DOWN COLUMN SCONCE
C	SPECTRUM LIGHTING INC	CO412XT-50LP-40HK-XW-EX-GL-PM	52W, LED, 5000 LUMEN, 4000K	277	PENDANT FIXTURE IN CANOPY. VERIFY COLOR WITH ARCHITECTUAL
D	SAYLITE	HIL-48L-A149W20000L-DMV-40K	149W LED	277	2X4 LED FIXTURE WITH MDT4 OCCUPANCY SENSOR
E	LITHONIA LIGHTING		2-32W T-8	277	FLUORESCENT STRIP FIXTURE
F	BEGA	77604	13W LED	277	COLUMN UP-LIGHT FIXTURE. SEE ARCHITECTURAL FOR MTG HT
EM	LITHONIA	AFN	LED	120	EXTERIOR EMERGENCY FLOOD LIGHT FIXTURE WITH BATTERY BACK-UP
X	CONTRACTOR LIGHTING	02-SP-UNIV-R-W-B=RC	INCL	277	WALL OR CEILING MOUNTED EXIT LIGHT FIXTURE WITH 90MIN BATTERY BACK-UP, BUILT IN TWO HEAD EMERGENCY LIGHT AND DIRECTIONAL ARROWS AS SHOWN.
OA	LITHONIA	DSX2-LED-P6-40K-T5W MVOLT	42069 LUMEN, 686W LED	277	PARKING FIXTURE WHICH INCLUDES PHOTOCELL AND MOTION SENSOR WHICH WILL REDUCE LIGHT OUTPUT 45 MINUTES AFTER PARKING LOT IS INACTIVE. PROVIDE TWO HEADS AT 180DEG. ON 30' VALMONT #R-2408458057 4-D2-DBL-335, ROUND TAPERED ALUMINUM POLE.
OB	LITHONIA	DSX2-LED-P4-40K-T3W MVOLT HS	26281 LUMEN, 270W LED	277	PARKING FIXTURE WHICH INCLUDES PHOTOCELL AND MOTION SENSOR WHICH WILL REDUCE LIGHT OUTPUT 45 MINUTES AFTER PARKING LOT IS INACTIVE. PROVIDE ONE HEAD ON 30' VALMONT #R-2408458057 4-. ROUND TAPERED ALUMINUM POLE.
OW	LITHONIA	DSX W2 LED 30C 1000 40K TFTM MVOLT	11120 LUMEN, 109W LED	277	DSXW2 LED WITH 3 LIGHT ENGINES, 30 LEDS, 1000mA DRIVER, 4000K LED TYPE FORWARD THROW MEDIUM OPTIC



ONE LINE DIAGRAM
NOT TO SCALE

ONE LINE DIAGRAM
NOT TO SCALE

G&A
GOULAS + ASSOCIATES
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Sheet Title:
ELECTRICAL DETAILS

Issue:
CD/PERMIT

Issue Date:
10 DECEMBER 2018 – SD
12 MARCH 2019 – CD/PERMIT

Revision Date:

Sheet:
E3.01