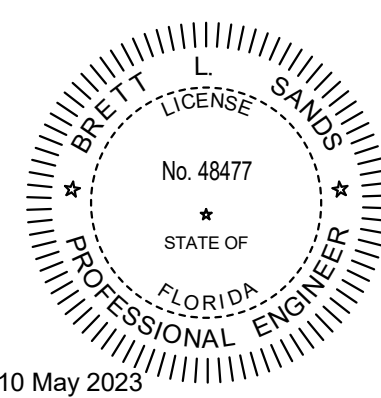


ELECTRICAL SYMBOL LEGEND																																																																																																																																																																																																																																																																																																																																																																																																																																															
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DEVICE ABBREVIATION TAGS: 8C POKE-THRU WITH 6" CORE DRILL 8C POKE-THRU WITH 8" CORE DRILL 4G FOUR-GANG FLOOR BOX 6G SIX-GANG FLOOR BOX 8G EIGHT-GANG FLOOR BOX AV DOUBLE DUPLEX RECEPTACLE WITH DEDICATED CIRCUIT FOR AV RACK OR CART C RECEPTACLE CONTROLLED PER ASHRAE 90.1 (2010); PROVIDE POWER PACK FOR RECEPTACLE CIRCUIT, TO BE CONTROLLED THROUGH LOCAL ROOM OCCUPANCY SENSOR(S); PROVIDE DEVICE WITH BLUE DOT OR UNIVERSAL POWER SYMBOL ETR EXISTING TO REMAIN IG ISOLATED GROUND (ORANGE DEVICE) RL RELOCATED TR TAMPER RESISTANT TV RECEPTACLE MOUNTED ADJACENT TO TV OUTLET, COORDINATE HEIGHT W/ ARCHITECT U DUPLEX RECEPTACLE WITH (2) USB PORTS WP WEATHERPROOF S _a SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED) S ₃ THREE-WAY SWITCH S ₄ FOUR-WAY SWITCH S _K SINGLE POLE KEY SWITCH S _T DIGITAL TIMER SWITCH W/ 5 MIN. WARNING FLASH S _{OSab} WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, DUAL RELAY S _{OS} WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH S _{VS} WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR SWITCH S _{D,OS} WALL MOUNTED DUAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR SWITCH S _L V LOW VOLTAGE SWITCH S _L VO LOW VOLTAGE OVERRIDE SWITCH S _L VD LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING S _F FAN SWITCH S _M MOTOR RATED SWITCH SD DIMMER SWITCH, LINE VOLTAGE S ₃ WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR S ₃ CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR S _{DL} DAYLIGHT SENSOR CEILING MOUNTED S _{DL} DAYLIGHT SENSOR WALL MOUNTED S _V VACANCY SENSOR CEILING MOUNTED S _V VACANCY SENSOR WALL MOUNTED S _{PC} PHOTOCCELL, MOUNTED ON ROOF FACING NORTH NOTE: DIAGONAL MARKS INDICATED ON ANY DEVICE REPRESENTS DEVICE CONNECTED TO EMERGENCY CIRCUIT (RED DEVICE FOR RECEPTACLE); TYPICAL FOR ANY DEVICE IN LEGEND S SINGLE RECEPTACLE S DUPLEX RECEPTACLE U COMBINATION DUPLEX RECEPTACLE / USB OUTLET S TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE S DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER S TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVER MOUNTED ABOVE COUNTER S DUPLEX RECEPTACLE; EACH RECEPTACLE ON SEPARATE CIRCUIT (PROVIDE BREAKER WITH 2-POLE COMMON TRIP HANDLE) S SPLIT-WIRED CONTROLLED DUPLEX RECEPTACLE S GFCI RECEPTACLE; "WP" INDICATES CAST METAL "IN-USE" WEATHERPROOF COVER, WEATHER-RESISTANT LISTED S TWO GFCI DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE S GFCI RECEPTACLE MOUNTED ABOVE COUNTER S DUPLEX RECEPTACLE, CEILING MOUNTED S TWO DUPLEX RECEPTACLES (QUAD) WITH COMMON COVERPLATE, CEILING MOUNTED S PEDESTAL MOUNTED DUPLEX RECEPTACLE S FLOOR BOX WITH DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE S FLOOR BOX, TWO DUPLEX RECEPTACLES (QUAD) WITH APPROPRIATE FLANGE S MULTI-SERVICE FLOOR BOX WITH DUPLEX RECEPTACLE, VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS) S MULTI-SERVICE FLOOR BOX WITH TWO DUPLEX RECEPTACLES (QUAD), VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS) S MULTI-SERVICE POWER & DATA FLOOR BOX WITH FURNITURE FEED CONNECTION (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS) S SPECIAL PURPOSE RECEPTACLE, NEMA CONFIGURATION AS NOTED S JUNCTION BOX WALL MOUNTED S JUNCTION BOX MOUNTED IN OR ABOVE CEILING OR IN STRUCTURE S WALL MOUNTED FURNITURE FEED POWER CONNECTION S POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS S POWER POLE WITH POWER & DATA OUTLETS S MULTI-SERVICE POKE-THRU WITH TWO INTEGRAL DUPLEX RECEPTACLES AND VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS FOR LOW VOLTAGE REQUIREMENTS), OR FURNITURE FEED CONNECTION; REFER TO POKE-THRU DETAILS S MULTI-SERVICE RACEWAY WITH 5-20R RECEPTACLES, 18" O.C. UNLESS OTHERWISE NOTED S CLOCK RECEPTACLE, WALL MOUNTED S GND GROUND BUS BAR, COPPER S SPD SURGE PROTECTIVE DEVICE S ST SHUNT-TRIP PUSHBUTTON; SEMI-FLUSH WALL MOUNTED UNLESS OTHERWISE NOTED; NEMA 3R FOR EXTERIOR LOCATIONS S EPC EMERGENCY POWER OFF SHUNT-TRIP PUSHBUTTON, RED MUSHROOM HEAD, CLEAR LEXAN PROTECTIVE COVER		 OVERHEAD DOOR PUSHBUTTON CONTROL STATION PUSHBUTTON STATION MOTOR CONNECTION MOTORIZED DAMPER CONNECTION VARIABLE FREQUENCY DRIVE DIRECT DIGITAL CONTROL PANEL BUILDING AUTOMATION SYSTEM CONTROL PANEL LIGHTING CONTROL PANEL MANHOLE PULLBOX HANDHOLE TRANSFORMER AUTOMATIC TRANSFER SWITCH NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NF = NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE FUSED DISCONNECT AR = AMPERE RATING OF FUSE AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE MCP AMPERE RATING # OF POLES NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE NEMA STARTER SIZE SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, FLUSH MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED CONDUIT CONCEALED ABOVE CEILING OR IN WAL CONDUIT EXPOSED CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR CONDUIT HOMERUN TO ELECTRICAL PANEL CONDUIT TURNING UP CONDUIT TURNING DOWN CONDUIT STUBBED OUT OR UP CONDUIT CONTINUED FLEXIBLE CONDUIT CONDUIT SEAL-OFF FITTING GROUND OR GROUND ROD AS NOTED EXISTING TO BE REMOVED (HEAVY, DASHED LINE) EXISTING TO REMAIN (LIGHT, SOLID LINE) NEW (HEAVY, SOLID LINE)																																																																																																																																																																																																																																																																																																																																																																																																																																													
		 LED STRIP FIXTURE FIXTURE TYPE LED FIXTURE, RECESSED, PENDANT OR SURFACE CEILING LOWER CASE LETTER INDICATES CONTROLLING SWITCH CIRCUIT NUMBER LIGHTING CONTROL ZONE NUMBER LED FIXTURE RECESSED, PENDANT OR SURFACE CEILING DIAGONAL HALF SHADING INDICATE FIXTURE CONNECTED TO EMERGENCY CIRCUIT OR PROVIDED WITH INTEGRAL EMERGENCY BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) LED FIXTURE, WALL MOUNTED LED RECESSED, PENDANT OR SURFACE CEILING LED WALL MOUNTED LED - CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE CONDUIT OR RACEWAY TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS) EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED LINEAR LED, RECESSED, PENDANT OR SURFACE CEILING EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE EXIT LIGHT, LED, WALL MOUNTED																																																																																																																																																																																																																																																																																																																																																																																																																																													
		LIGHTNING PROTECTION SYSTEM CLASS I MAIN CONDUCTOR CABLE CLASS II MAIN CONDUCTOR CABLE GROUND TERMINAL BONDING CONDUCTOR DOWN CONDUCTOR TEE SPLICE FOUR-WAY SPLICE BONDING PLATE PIPE CLAMP FOR PLUMBING VENT THRU ROOF. AIR TERMINAL; PROVIDE PARAPET TYPE BASE WHERE MOUNTED ON PARAPET; PROVIDE FLAT BASE FOR MECHANICAL EQUIPMENT OR ROOF PERIMETER WITH NO PARAPET; PROVIDE BLUNT TIP WHERE MOUNTED ON INTERIOR OF ROOF, UNLESS OTHERWISE NOTED ON LIGHTNING PROTECTION PLANS PARAPET MOUNTED AIR TERMINAL FLAT ROOF MOUNTED OR MECHANICAL COUNTERPOISE CONDUCTOR THRU-ROOF CONDUCTOR																																																																																																																																																																																																																																																																																																																																																																																																																																													
		<table><tr><td>A/C</td><td>AIR CONDITIONING</td><td>GF</td><td>GROUND FAULT</td></tr><tr><td>AC</td><td>ALTERNATING CURRENT</td><td>GFA</td><td>GROUND FAULT ALARM</td></tr><tr><td>ABV CLG</td><td>ABOVE CEILING</td><td>GFCI</td><td>GROUND FAULT CIRCUIT INTERRUPTER</td></tr><tr><td>ADA</td><td>AMERICANS WITH DISABILITIES ACT</td><td>GFR</td><td>GROUND FAULT RELAY</td></tr><tr><td>AF</td><td>AMPERE FRAME</td><td>GND, G</td><td>GROUND</td></tr><tr><td>AFF</td><td>ABOVE FINISHED FLOOR</td><td>HP</td><td>HORSEPOWER</td></tr><tr><td>AFG</td><td>ABOVE FINISHED GRADE</td><td>HQA</td><td>HAND-OFF-AUTOMATIC</td></tr><tr><td>AHU</td><td>AIR HANDLING UNIT</td><td>HORIZ</td><td>HORIZONTAL</td></tr><tr><td>AIC</td><td>AMPERE INTERRUPTING CAPACITY</td><td>IBC</td><td>INTERNATIONAL BUILDING CODE</td></tr><tr><td>AL</td><td>ALUMINUM</td><td>IC</td><td>INTERCOM</td></tr><tr><td>AMP</td><td>AMPERE</td><td>ICU</td><td>INTENSIVE CARE UNIT</td></tr><tr><td>ANSI</td><td>AMERICAN NATIONAL STANDARDS INSTITUTE</td><td>IECC</td><td>INTERNATIONAL ENERGY CONSERVATION CODE</td></tr><tr><td>ASA</td><td>AMERICAN STANDARDS ASSOCIATION</td><td>IEEE</td><td>INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS</td></tr><tr><td>AT</td><td>AMPERE TRIP</td><td>IES</td><td>ILLUMINATING ENGINEERING SOCIETY</td></tr><tr><td>ATS</td><td>AUTOMATIC TRANSFER SWITCH</td><td>IMC</td><td>INTERMEDIATE METAL CONDUIT</td></tr><tr><td>AUX</td><td>AUXILIARY</td><td>IN</td><td>INCHES</td></tr><tr><td>AWG</td><td>AMERICAN WIRE GUAGE</td><td>IPCEA</td><td>INSULATED POWER CABLE ENGINEERS ASSOCIATION</td></tr><tr><td>BC</td><td>BARE COPPER</td><td>IT</td><td>INSTANTANEOUS TRIP</td></tr><tr><td>BIL</td><td>BASIC IMPULSE LEVEL</td><td>JB OR J-BOX</td><td>JUNCTION BOX</td></tr><tr><td>BAS</td><td>BUILDING AUTOMATION SYSTEM</td><td>KCMIL</td><td>ONE THOUSAND CIRCULAR MILS</td></tr><tr><td>BMS</td><td>BUILDING MANAGEMENT SYSTEM</td><td>KV</td><td>KILOVOLT</td></tr><tr><td>BKR OR BKR</td><td>BREAKER</td><td>KVA</td><td>KILOVOLT AMPERES</td></tr><tr><td>C</td><td>CONDUIT OR RACEWAY</td><td>KW</td><td>KILOWATT</td></tr><tr><td>CAB</td><td>CABINET</td><td>KWH</td><td>KILOWATT HOURS</td></tr><tr><td>CKT</td><td>CIRCUIT</td><td>LBS</td><td>POUNDS</td></tr><tr><td>CB</td><td>CIRCUIT BREAKER</td><td>LED</td><td>LIGHT EMITTING DIODE</td></tr><tr><td>CBM</td><td>CERTIFIED BALLAST MANUFACTURERS</td><td>LP</td><td>LIGHTNING PROTECTION</td></tr><tr><td>CATV</td><td>CABLE TELEVISION</td><td>LT</td><td>LIGHT</td></tr><tr><td>CCTV</td><td>CLOSED CIRCUIT TELEVISION</td><td>LTG</td><td>LIGHTING</td></tr><tr><td>CLEC</td><td>CLOCK EQUIPMENT CABINET</td><td>LSIG</td><td>LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND</td></tr><tr><td>CLG</td><td>CEILING</td><td>LSIA</td><td>LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM</td></tr><tr><td>CO</td><td>CONDUIT OR RACEWAY ONLY</td><td>LSI</td><td>LONG TIME, SHORT TIME, INSTANTANEOUS</td></tr><tr><td>COAX</td><td>COAXIAL CABLE</td><td>MAX</td><td>MAXIMUM</td></tr><tr><td>COND</td><td>CONDUCTOR</td><td>MCA</td><td>MINIMUM CIRCUIT AMPS</td></tr><tr><td>CONN</td><td>CONNECTION</td><td>MCB</td><td>MAIN CIRCUIT BREAKER</td></tr><tr><td>CPU</td><td>CENTRAL PROCESSING UNIT</td><td>MCC</td><td>MOTOR CONTROL CENTER</td></tr><tr><td>CRT</td><td>CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)</td><td>MDP</td><td>MAIN SERVICE DISTRIBUTION PANEL</td></tr><tr><td>CT</td><td>CURRENT TRANSFORMER</td><td>MIC</td><td>MICROPHONE</td></tr><tr><td>CJ</td><td>COPPER</td><td>MIN</td><td>MINIMUM</td></tr><tr><td>CW</td><td>COLD WATER</td><td>MLO</td><td>MAIN LUGS ONLY</td></tr><tr><td>DC</td><td>DIRECT CURRENT</td><td>MOC</td><td>MAXIMUM OVERCURRENT PROTECTION</td></tr><tr><td>DDC</td><td>DIRECT DIGITAL CONTROL</td><td>MSB</td><td>MAIN SERVICE SWITCHBOARD</td></tr><tr><td>DEG</td><td>DEGREE</td><td>MTD</td><td>MOUNTED</td></tr><tr><td>DF</td><td>DEMAND FACTOR</td><td>MTG</td><td>MOUNTING</td></tr><tr><td>DISC</td><td>DISCONNECT</td><td>MTR</td><td>MOTOR</td></tr><tr><td>DISC SW</td><td>DISCONNECT SWITCH</td><td>MTS</td><td>MANUAL TRANSFER SWITCH</td></tr><tr><td>DO</td><td>DRAW OUT</td><td>MUX</td><td>MULTIPLEX (TRANSPONDER) PANEL</td></tr><tr><td>DN</td><td>DOWN</td><td>MVA</td><td>MEGA VOLT AMPS</td></tr><tr><td>DPST</td><td>DOUBLE POLE SINGLE THROW</td><td>N</td><td>NEUTRAL</td></tr><tr><td>EDH</td><td>ELECTRIC DUCT HEATER</td><td>NC</td><td>NORMALLY CLOSED</td></tr><tr><td>EMT</td><td>ELECTRIC METALLIC TUBING</td><td>NEC</td><td>NATIONAL ELECTRICAL CODE</td></tr><tr><td>EO</td><td>ELECTRICALLY OPERATED</td><td>NEMA</td><td>NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</td></tr><tr><td>EOL</td><td>END OF LINE</td><td>NFPA</td><td>NATIONAL FIRE PROTECTION ASSOCIATION</td></tr><tr><td>EOR</td><td>ENGINEER OF RECORD</td><td>NIC</td><td>NOT IN CONTRACT</td></tr><tr><td>ETR</td><td>EXISTING TO REMAIN</td><td>NF</td><td>NON-FUSED</td></tr><tr><td>EWC</td><td>ELECTRIC WATER COOLER</td><td>NL</td><td>NON-LINEAR</td></tr><tr><td>FA</td><td>FIRE ALARM</td><td>NO</td><td>NORMALLY OPEN OR NUMBER</td></tr><tr><td>FAAP</td><td>FIRE ALARM ANNUNCIATOR PANEL</td><td>OL</td><td>OVERLOAD</td></tr><tr><td>FATC</td><td>FIRE ALARM TERMINATOR PANEL</td><td>OSHA</td><td>OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION</td></tr><tr><td>FBC</td><td>FLORIDA BUILDING CODE</td><td>P</td><td>POLE</td></tr><tr><td>FCU</td><td>FAN COIL UNIT</td><td>PB</td><td>PULLBOX</td></tr><tr><td>FLA</td><td>FULL LOAD AMPERES</td><td>PF</td><td>POWER FACTOR</td></tr><tr><td>FM</td><td>FACTORY MUTUAL</td><td>PIV</td><td>POST INDICATOR VALVE</td></tr><tr><td>FPU</td><td>FAN POWERED UNIT</td><td>PNL</td><td>PANEL</td></tr><tr><td>FT</td><td>FEET</td><td>PR</td><td>PAIR</td></tr><tr><td></td><td></td><td>PRI</td><td>PRIMARY</td></tr><tr><td></td><td></td><td>PT</td><td>POTENTIAL TRANSFORMER</td></tr><tr><td></td><td></td><td>PVC</td><td>POLYVINYLCHLORIDE</td></tr><tr><td></td><td></td><td>PWR</td><td>POWER</td></tr><tr><td></td><td></td><td>REC, RECEPT</td><td>RECEPTACLE</td></tr><tr><td></td><td></td><td>REF</td><td>REFRIGERATOR</td></tr><tr><td></td><td></td><td>RGS, GRC</td><td>RIGID GALVANIZED STEEL CONDUIT</td></tr><tr><td></td><td></td><td>RLA</td><td>RUNNING LOAD AMPERES</td></tr><tr><td></td><td></td><td>RMS</td><td>ROOT-MEAN-SQUARE</td></tr><tr><td></td><td></td><td>RPM</td><td>REVOLUTIONS PER MINUTE</td></tr><tr><td></td><td></td><td>RTU</td><td>ROOF TOP UNIT</td></tr><tr><td></td><td></td><td>SCA</td><td>SHORT CIRCUIT AMPERES</td></tr><tr><td></td><td></td><td>SD</td><td>SMOKE DETECTOR</td></tr><tr><td></td><td></td><td>SEC</td><td>SECONDARY</td></tr><tr><td></td><td></td><td>SIN</td><td>SOLID NEUTRAL</td></tr><tr><td></td><td></td><td>SPD</td><td>SURGE PROTECTIVE DEVICE</td></tr><tr><td></td><td></td><td>SPKR</td><td>SPEAKER</td></tr><tr><td></td><td></td><td>SPST</td><td>SINGLE POLE SINGLE THROW</td></tr><tr><td></td><td></td><td>SS</td><td>STAINLESS STEEL</td></tr><tr><td></td><td></td><td>SST</td><td>SOLID STATE TRIP</td></tr><tr><td></td><td></td><td>STD</td><td>SHORT TIME TRIP</td></tr><tr><td></td><td></td><td>SW</td><td>SWITCH</td></tr><tr><td></td><td></td><td>SWBD</td><td>SWITCHBOARD</td></tr><tr><td></td><td></td><td>SWGR</td><td>SWITCHGEAR</td></tr><tr><td></td><td></td><td>TEL</td><td>TELEPHONE</td></tr><tr><td></td><td></td><td>TTB</td><td>TELEPHONE TERMINAL BOARD</td></tr><tr><td></td><td></td><td>TTC</td><td>TELEPHONE TERMINAL CABINET</td></tr><tr><td></td><td></td><td>TVEC</td><td>TELEVISION EQUIPMENT CABINET</td></tr><tr><td></td><td></td><td>TYP</td><td>TYPICAL</td></tr><tr><td></td><td></td><td>UG</td><td>UNDERGROUND</td></tr><tr><td></td><td></td><td>UON</td><td>UNLESS OTHERWISE NOTED</td></tr><tr><td></td><td></td><td>UL</td><td>UNDERWRITERS LABORATORIES</td></tr><tr><td></td><td></td><td>UTIL</td><td>UTILITY</td></tr><tr><td></td><td></td><td>V</td><td>VOLT</td></tr><tr><td></td><td></td><td>VA</td><td>VOLT-AMPERE</td></tr><tr><td></td><td></td><td>VAR</td><td>VOLT AMPERE REACTIVE</td></tr><tr><td></td><td></td><td>VAV</td><td>VARIABLE AIR VOLUME</td></tr><tr><td></td><td></td><td>VFD</td><td>VARIABLE FREQUENCY DRIVE</td></tr><tr><td></td><td></td><td>W</td><td>WIRE</td></tr><tr><td></td><td></td><td>WP</td><td>WEATHER PROOF</td></tr><tr><td></td><td></td><td>XFMR</td><td>TRANSFORMER</td></tr><tr><td></td><td></td><td>XFR</td><td>TRANSFER</td></tr></table>		A/C	AIR CONDITIONING	GF	GROUND FAULT	AC	ALTERNATING CURRENT	GFA	GROUND FAULT ALARM	ABV CLG	ABOVE CEILING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	ADA	AMERICANS WITH DISABILITIES ACT	GFR	GROUND FAULT RELAY	AF	AMPERE FRAME	GND, G	GROUND	AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER	AFG	ABOVE FINISHED GRADE	HQA	HAND-OFF-AUTOMATIC	AHU	AIR HANDLING UNIT	HORIZ	HORIZONTAL	AIC	AMPERE INTERRUPTING CAPACITY	IBC	INTERNATIONAL BUILDING CODE	AL	ALUMINUM	IC	INTERCOM	AMP	AMPERE	ICU	INTENSIVE CARE UNIT	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IECC	INTERNATIONAL ENERGY CONSERVATION CODE	ASA	AMERICAN STANDARDS ASSOCIATION	IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	AT	AMPERE TRIP	IES	ILLUMINATING ENGINEERING SOCIETY	ATS	AUTOMATIC TRANSFER SWITCH	IMC	INTERMEDIATE METAL CONDUIT	AUX	AUXILIARY	IN	INCHES	AWG	AMERICAN WIRE GUAGE	IPCEA	INSULATED POWER CABLE ENGINEERS ASSOCIATION	BC	BARE COPPER	IT	INSTANTANEOUS TRIP	BIL	BASIC IMPULSE LEVEL	JB OR J-BOX	JUNCTION BOX	BAS	BUILDING AUTOMATION SYSTEM	KCMIL	ONE THOUSAND CIRCULAR MILS	BMS	BUILDING MANAGEMENT SYSTEM	KV	KILOVOLT	BKR OR BKR	BREAKER	KVA	KILOVOLT AMPERES	C	CONDUIT OR RACEWAY	KW	KILOWATT	CAB	CABINET	KWH	KILOWATT HOURS	CKT	CIRCUIT	LBS	POUNDS	CB	CIRCUIT BREAKER	LED	LIGHT EMITTING DIODE	CBM	CERTIFIED BALLAST MANUFACTURERS	LP	LIGHTNING PROTECTION	CATV	CABLE TELEVISION	LT	LIGHT	CCTV	CLOSED CIRCUIT TELEVISION	LTG	LIGHTING	CLEC	CLOCK EQUIPMENT CABINET	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND	CLG	CEILING	LSIA	LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM	CO	CONDUIT OR RACEWAY ONLY	LSI	LONG TIME, SHORT TIME, INSTANTANEOUS	COAX	COAXIAL CABLE	MAX	MAXIMUM	COND	CONDUCTOR	MCA	MINIMUM CIRCUIT AMPS	CONN	CONNECTION	MCB	MAIN CIRCUIT BREAKER	CPU	CENTRAL PROCESSING UNIT	MCC	MOTOR CONTROL CENTER	CRT	CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL)	MDP	MAIN SERVICE DISTRIBUTION PANEL	CT	CURRENT TRANSFORMER	MIC	MICROPHONE	CJ	COPPER	MIN	MINIMUM	CW	COLD WATER	MLO	MAIN LUGS ONLY	DC	DIRECT CURRENT	MOC	MAXIMUM OVERCURRENT PROTECTION	DDC	DIRECT DIGITAL CONTROL	MSB	MAIN SERVICE SWITCHBOARD	DEG	DEGREE	MTD	MOUNTED	DF	DEMAND FACTOR	MTG	MOUNTING	DISC	DISCONNECT	MTR	MOTOR	DISC SW	DISCONNECT SWITCH	MTS	MANUAL TRANSFER SWITCH	DO	DRAW OUT	MUX	MULTIPLEX (TRANSPONDER) PANEL	DN	DOWN	MVA	MEGA VOLT AMPS	DPST	DOUBLE POLE SINGLE 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		TTB	TELEPHONE TERMINAL BOARD																																																																																																																																																																																																																																																																																																																																																																																																																																												
		TTC	TELEPHONE TERMINAL CABINET																																																																																																																																																																																																																																																																																																																																																																																																																																												
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NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

ELECTRICAL DRAWING INDEX	
SHEET	DESCRIPTION
E001	ELECTRICAL LEGEND & DRAWING INDEX
E100	SITE PLAN - PHOTOMETRICS
E101	SITE PLAN - ELECTRICAL
E102	ENLARGED SITE PLAN - ELECTRICAL
E103	FLOOR PLANS - ELECTRICAL
E200	ELECTRICAL RISER DIAGRAM & SCHEDULES
E400	ELECTRICAL DETAILS

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Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BOUNDARY	Illuminance	Fc	0.0	0.0	0.0	N/A	N/A
CANOPY A	Illuminance	Fc	9.16	28.4	2.6	3.52	10.92
CANOPY B	Illuminance	Fc	11.73	15.5	7.3	1.61	2.12
DRIVE	Illuminance	Fc	2.03	6.6	0.8	2.54	8.26
ENTRY A	Illuminance	Fc	1.96	3.3	0.9	2.18	3.67
ENTRY B	Illuminance	Fc	1.32	1.8	0.6	2.16	3.25
LOUNGE_Workplane	Illuminance	Fc	26.47	32.6	20.0	1.32	1.63
PARKING	Illuminance	Fc	2.23	4.4	0.8	2.79	5.50

GARDCO
by Signify

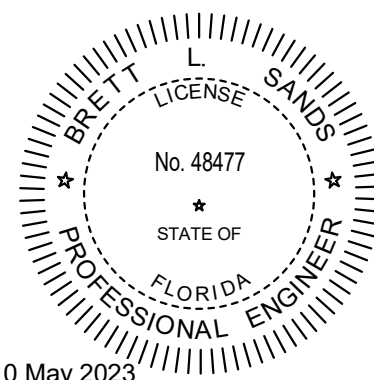
EcoForm



TARGETING: LEE COUNTY
PARKING:
 - 0.8 FC MIN
 - 4:1 AVG/MIN
BOUNDARY:
 - 0.5 FC MAX
CANOPY:
 - 6.0 FC MIN
 - 5:1 AVG/MIN



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E100

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(239) 332-1171

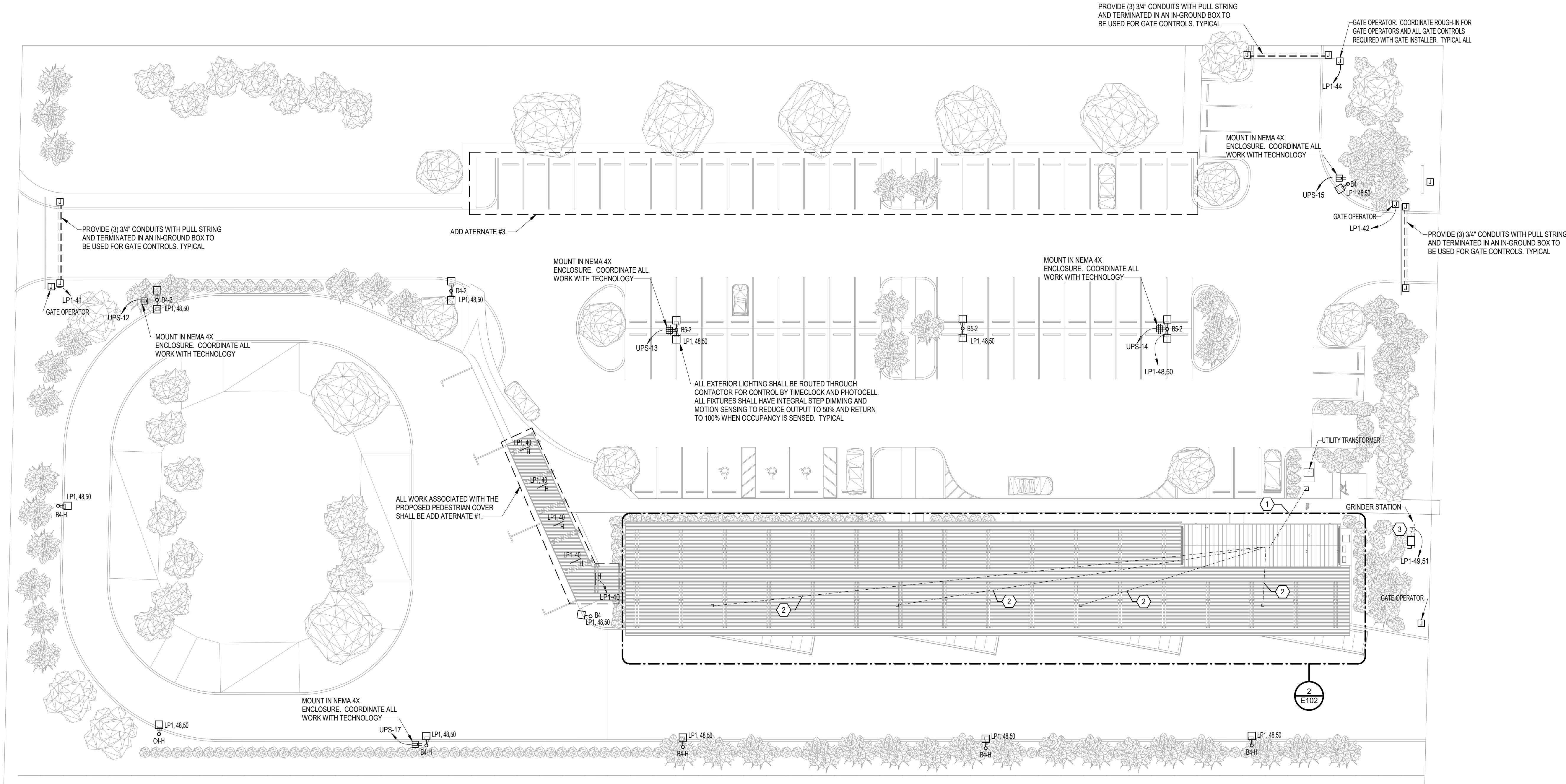
2136 MCGREGOR BLVD. FORT MYERS, FLORIDA 33901

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No.	Description	Date

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LEHIGH ACRES PARK AND RIDE

1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA



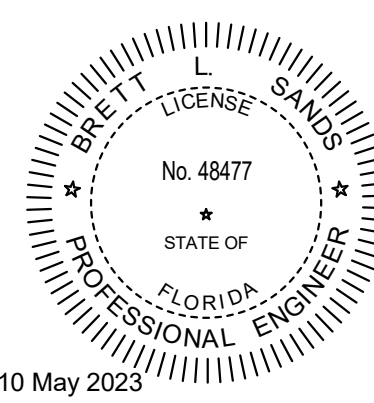
1 SITE PLAN - ELECTRICAL
1" = 20'-0"

ELECTRICAL KEY NOTES	
#	KEYNOTE TEXT
1	ROUTE 3'-4" CONDUITS WITH PULL STRING FROM INGROUND JUNCTION BOX STUBBED UP IN ELECTRICAL ROOM FOR FUTURE 480V SERVICE.
2	ROUTE 1'-4" CONDUIT WITH PULL STRING FROM ELECTRICAL ROOM TO INGROUND BOX FOR FUTURE EV BUS CHARGING STATION. COORDINATE LOCATION.
3	PROVIDE A 208V TO 240V BUCK BOOST TRANSFORMER TO SUPPLY THE GRINDER STATION 30A, 240V, NEMA 3R DISCONNECT. PROVIDE THE DISCONNECT, TRANSFORMER AND ALL INTERCONNECTING WIRING AS RECOMMENDED BY THE GRINDER STATION MANUFACTURER.

LIGHTNING PROTECTION GENERAL NOTES

- THE COMPLETED INSTALLATION WILL MEET THE INSTALLATION REQUIREMENTS FOR "LIGHTNING PROTECTION SYSTEMS, (UNDERWRITERS LABORATORIES) UL96A" - 12TH EDITION, AND SHALL COMPLY WITH NFPA 780. THE UL LIGHTNING PROTECTION INSPECTION CERTIFICATE WILL BE FURNISHED TO THE CONTRACTING OFFICER UPON COMPLETION OF THE SYSTEM.
- ALUMINUM COMPONENTS OF THE LIGHTNING PROTECTION SYSTEM WILL NOT BE BONDED TO THE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE UL96A - 12TH EDITION.
- METAL BODIES WITHIN 6'-0" OF THE LIGHTNING PROTECTIONS SYSTEM WILL BE BONDED TO THE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF THE UL96A - 12TH EDITION.
- UNDERGROUND METALLIC PIPING ENTERING THE BUILDING WILL BE BONDED TO THE LIGHTNING PROTECTION GROUNDING SYSTEM.
- ADHESIVE USED WITH AIR TERMINAL BASES AND CONDUCTOR FASTENERS WILL BE "M1 STRUCTURAL SEALANT" TYPE - VERIFIED WITH THE CONTRACTING OFFICER. TERMINALS MOUNTED ON THE STANDING SEAM METALLIC ROOF SHALL BE CLAMPED ONTO THE SEAM. AT NO POINT SHALL THE METALLIC ROOF BE PENETRATED.
- ROOFTOP EQUIPMENT WILL BE PROTECTED AS REQUIRED INCLUDING THE INSTALLATION OF AIR TERMINALS AND OR BONDING. IF THE METAL THICKNESS OF AN OBJECT IS 3/16" OR GREATER, AIR TERMINAL MAY BE ELIMINATED.
- AIR TERMINALS WILL BE LOCATED AS SHOWN. THEY ARE TO BE A MAXIMUM OF 24" FROM THE ROOF EDGE AND PROJECT A MINIMUM OF 10" ABOVE THE PROTECTED EDGE. AIR TERMINALS THAT EXTEND 24" ABOVE THE PROTECTED EDGE WILL NOT EXCEED A SPACING GREATER THAN 25'.
- ALL LIGHTNING PROTECTION SYSTEM CONDUCTORS WILL MAINTAIN A HORIZONTAL OR DOWNWARD PATH. ALL BENDS IN THE CONDUCTOR WILL HAVE A RADIUS BEND OF 8 INCHES OR GREATER, AND WILL HAVE AN ANGLE BEND OF 90 DEGREES OR GREATER.
- ALL COMPONENTS OF LIGHTNING PROTECTION SYSTEM ARE NOT SHOWN, HOWEVER, A COMPLETE SYSTEM WILL BE PROVIDED TO INCLUDE ALL ROOF-TOP MOUNTED EQUIPMENT AND MEET "MASTER LABEL" REQUIREMENTS.
- ROOF PADS, PAVERS, FLASHINGS OR ANY OTHER SPECIAL ROOFING MATERIALS REQUIRED FOR INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM WILL BE PROVIDED.
- ALL DOWN CONDUCTORS, THRU ROOF, WILL BE PROVIDED WITH A WATER TIGHT INSTALLATION TO PREVENT ROOF LEAKS. ALL DOWN CONDUCTORS SHALL BE PROTECTED A MINIMUM OF 6 FEET ABOVE GRADE.

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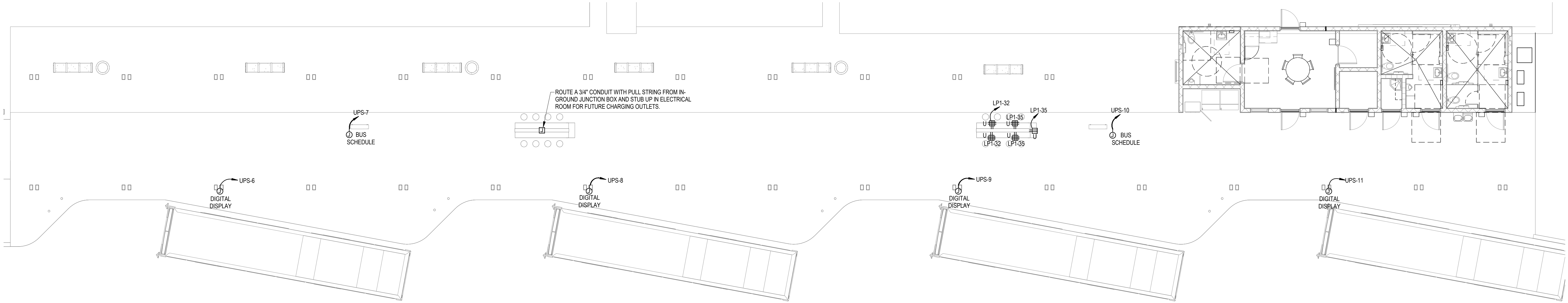
1121 VILLAGE LAKES BLVD., LEHIGH ACRES, FLORIDA

PARKER / MUDGETT / SMITH ARCHITECTS, INC.
2136 MCGREGOR BLVD. FORT MYERS, FLORIDA 33901
(239) 332-1171

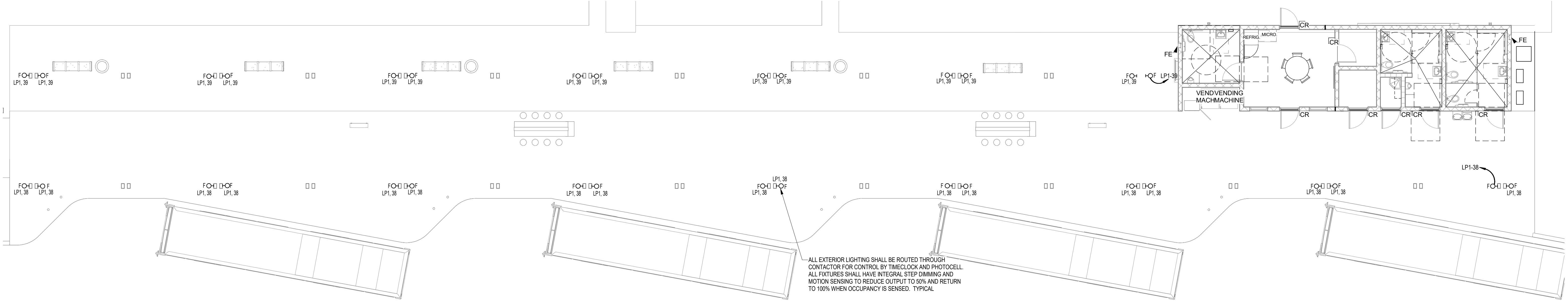
REVISIONS		
No.	Description	Date

04/14/2023

E101

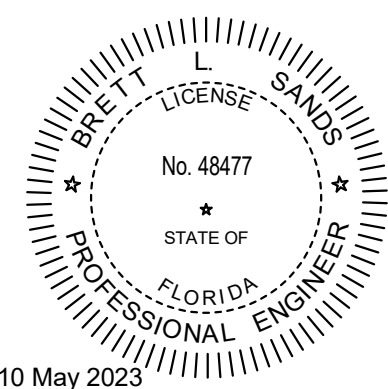


1
ENLARGED SITE PLAN -
ELECTRICAL POWER
1/8" = 1'-0"



2
ENLARGED SITE PLAN -
ELECTRICAL LIGHTING
1/8" = 1'-0"

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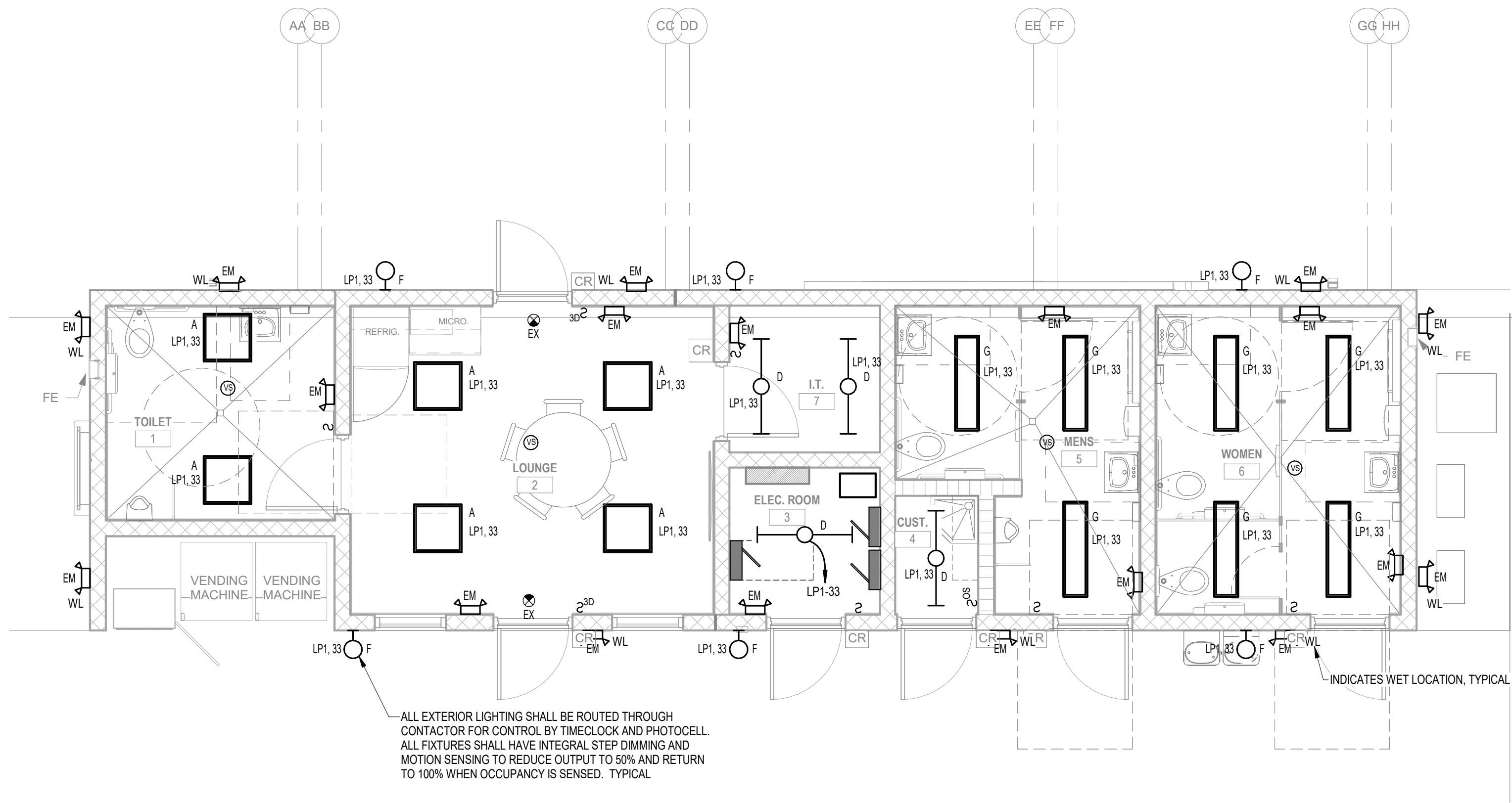
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REVISIONS		
No.	Description	Date

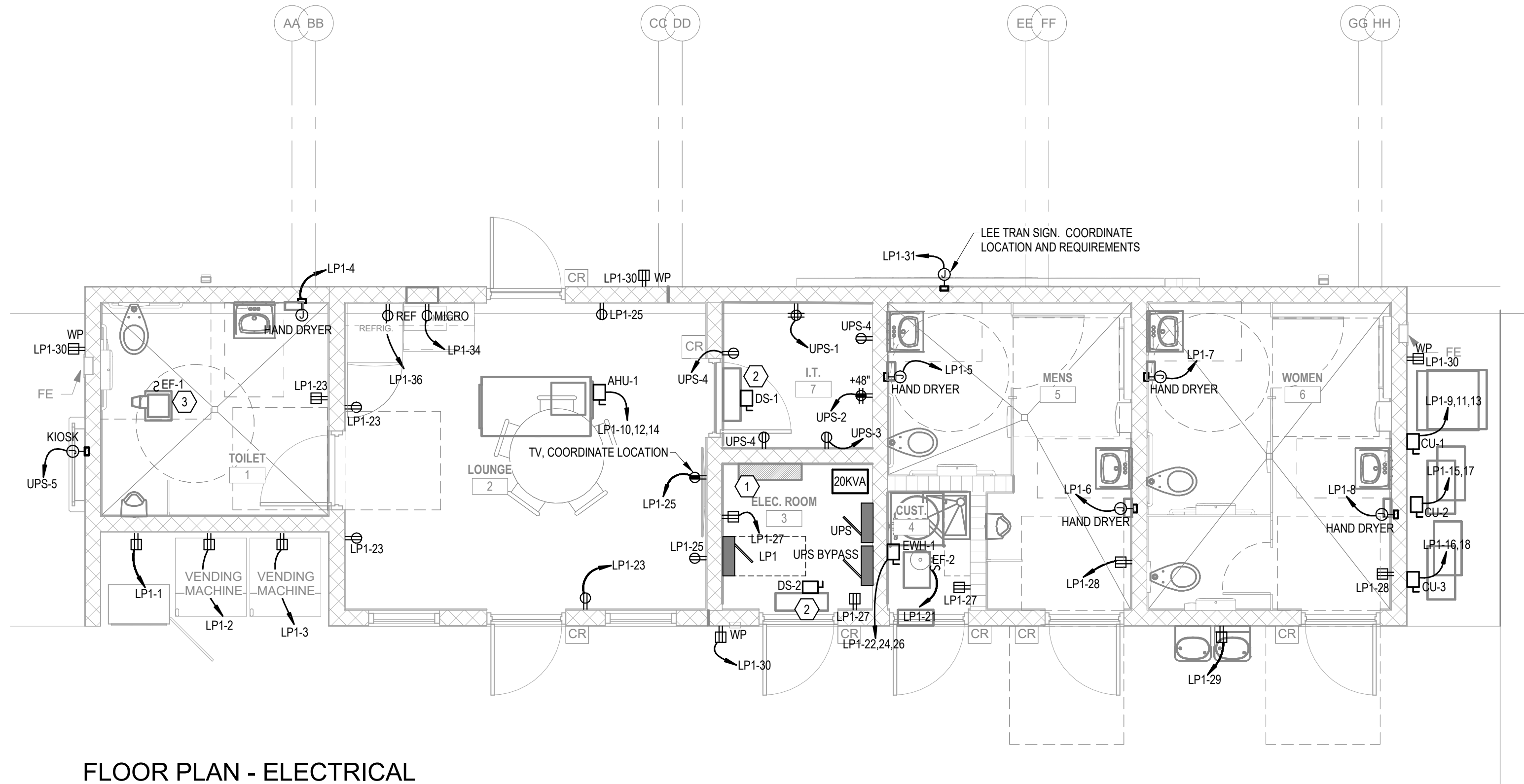
04/14/2023

E102



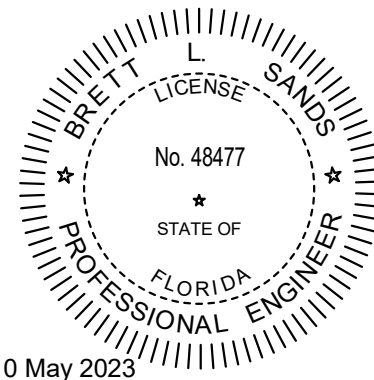
ELECTRICAL KEY NOTES	
#	KEYNOTE TEXT
1	FUTURE 480V DISTRIBUTION PANEL FOR BUS EV CHARGING.
2	INDOOR UNIT RECEIVES POWER FROM THE OUTDOOR UNIT. PROVIDE ALL INTERCONNECTING WIRING.
3	EXHAUST FAN TO BE CONTROLLED WITH LIGHT FIXTURES THROUGH OCCUPANCY SENSOR. CONNECT TO THE 120V LIGHTING CIRCUIT SERVING THE ROOM.

FLOOR PLAN - ELECTRICAL LIGHTING
1
1/4" = 1'-0"



FLOOR PLAN - ELECTRICAL POWER
2
1/4" = 1'-0"

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(239) 332-1171

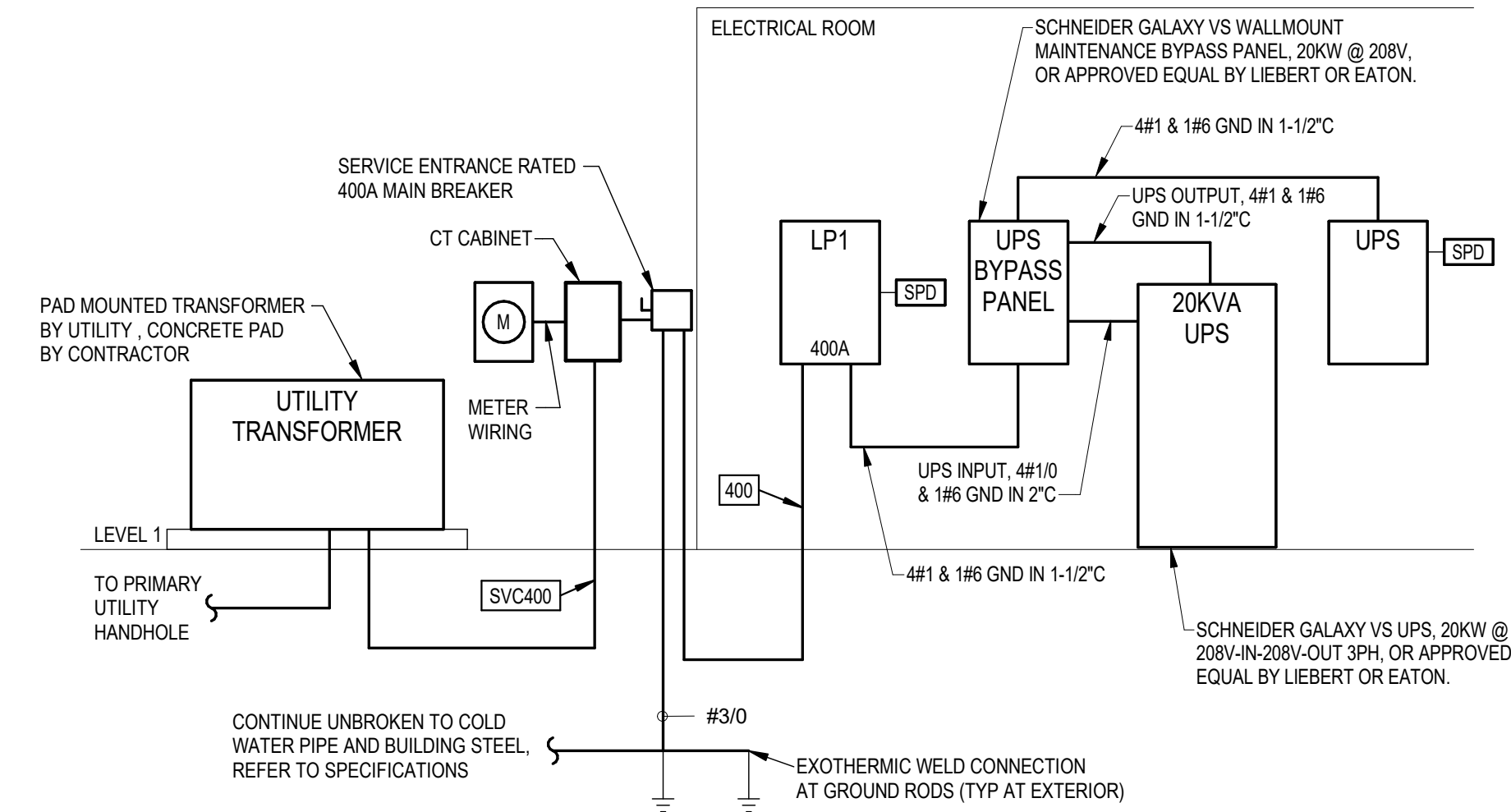
REVISIONS		
No.	Description	Date

04/14/2023

E103

ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE														
TAG	HP	FLA (AMPS)	LOAD	VOLTAGE	PHASE	PANEL	CIRCUIT NUMBER	BREAKER	Conduit and Wire Size	DISCONNECT				COMMENTS
										SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE	FURN. BY (DIV.)	
AHU-1			1080 VA	208 V	3	LP1	10,12,14	15	(3) #10, (1) #10 GND, 3/4" RACEWAY	30A	3	NEMA 1	26	AHU-1
CU-1			7200 VA	208 V	3	LP1	9,11,13	40	(3) #8, (1) #10 GND, 3/4" RACEWAY	60A	3	NEMA 3R	26	CU-1
CU-2			1456 VA	208 V	1	LP1	15,17	15	(3) #10, (1) #10 GND, 3/4" RACEWAY	30A	2	NEMA 3R	26	CU-2
CU-3			1456 VA	208 V	1	LP1	16,18	15	(3) #10, (1) #10 GND, 3/4" RACEWAY	30A	2	NEMA 3R	26	CU-3
EW-1			4500 VA	208 V	3	LP1	22,24,26	20	(3) #10, (1) #10 GND, 3/4" RACEWAY	30A	3	NEMA 1	26	EW-1

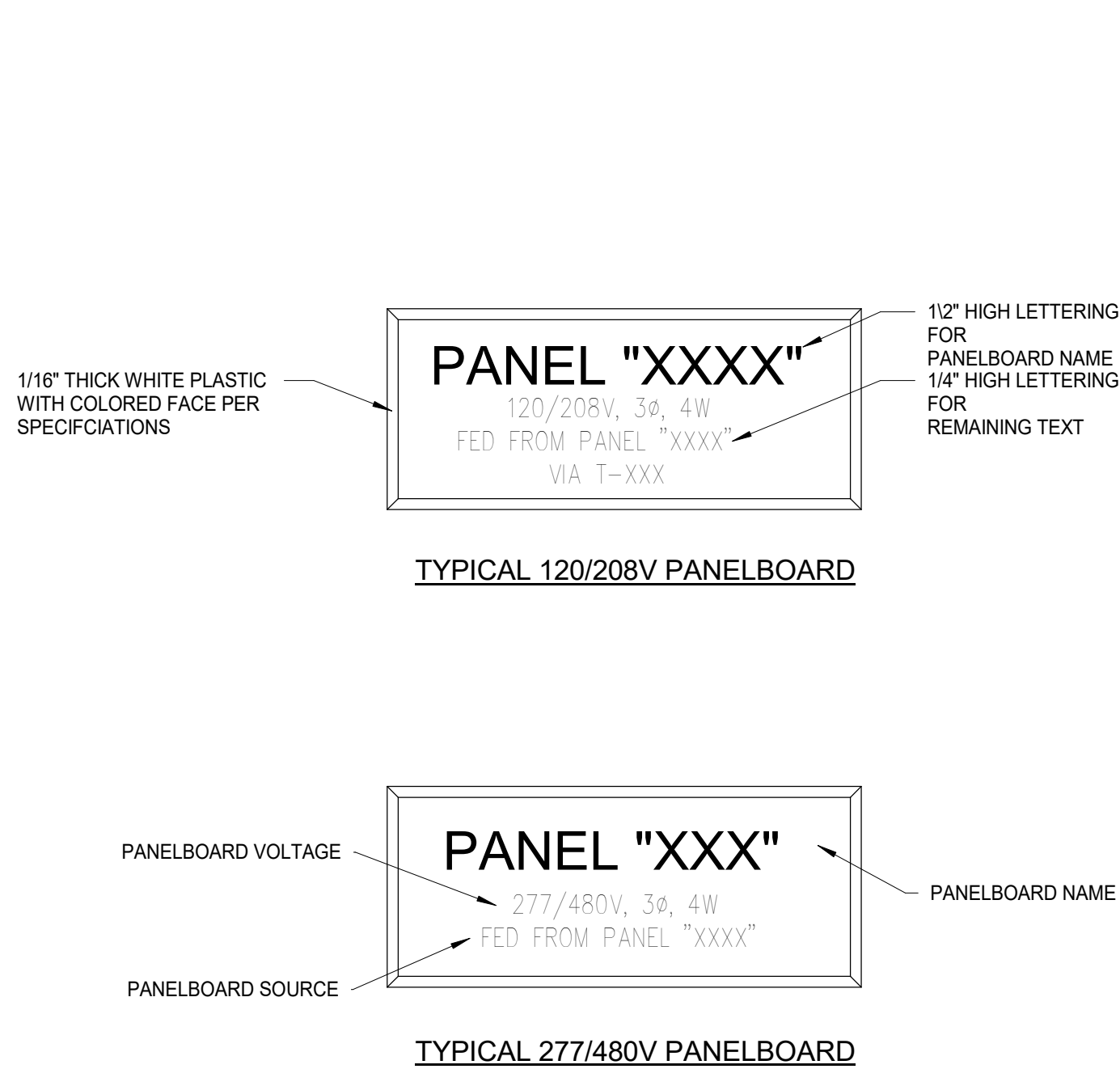
LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER / MODEL	LAMP SOURCE	FIXTURE WATTAGE W / LF	COMMENTS
A	2' X 2' LED RECESSED FIXTURE, 2700 LUMENS, 4000K, ACRYLIC FROSTED LENS, DIMMABLE	WILLIAMS: LT-2-2-L27-840-AF-DIM-UNV	LED	21.30 W	
B4	SITE LIGHTING LED POLE MOUNTED FIXTURE, 14,000 LUMEN, 4000K, TYPE 4 DISTRIBUTION	SIGNIFY GARDCO: ECF-S-32L-1A-NW-G2-AR-4-UNV-FINISHPTF2-EC F-SL-1-90		159.00 W	
B4-H	SITE LIGHTING LED POLE MOUNTED FIXTURE, 14,000 LUMEN, 4000K, TYPE 4 DISTRIBUTION, WITH HOUSE SIDE SHIELD	SIGNIFY GARDCO: ECF-S-32L-1A-NW-G2-AR-4-HIS-FINISHPTF2-EC F-SL-1-90		159.00 W	
B5-2	SITE LIGHTING LED POLE MOUNTED BACK TO BACK FIXTURES, 14,000 LUMEN EACH, 4000K, TYPE 5 DISTRIBUTION	SIGNIFY GARDCO: 2 @ 180-ECF-S-32L-1A-NW-G2-S-UNV-FINISHPTF2-E CF-SL-2-180		318.00 W	
C4-H	SITE LIGHTING LED POLE MOUNTED FIXTURE, 14,000 LUMEN, 4000K, TYPE 4 DISTRIBUTION, WITH HOUSE SIDE SHIELD	SIGNIFY GARDCO: ECF-S-32L-700-NW-G2-AR-4-UNV-HIS-FINISHPT F2-ECF-SL-1-90		110.00 W	
D	LED LINEAR STRIP, 4', ROUND FROSTED LENS, 5000 LUMENS, 4000K, DIMMABLE	WILLIAMS: 75R-4-L50-840-DIM-UNV	LED	33.00 W	
D4-2	SITE LIGHTING LED POLE MOUNTED BACK TO BACK FIXTURES, 10,000 LUMEN EACH, 4000K, TYPE 4 DISTRIBUTION	SIGNIFY GARDCO: 2 @ 180-ECF-S-32L-530-NW-G2-4-UNV-FINISHPTF2-E CF-SL-2-180		318.00 W	
EM	EMERGENCY LED FIXTURE WITH WET LOCATION HOUSING WHERE INDICATED	BEGHELLI: PEH-1 (WL)			
EX	LED EXIT LIGHT FIXTURE WITH RED LETTERING, EMERGENCY BATTERY BACK-UP AND INTEGRAL LED TEST SWITCH, ALUMINUM HOUSING, UNIVERSAL MOUNT	BEGHELLI: LC1-E-SA-LR-UJ-AL-W	LED	3.00 W	
F	6" UPDOWN CYLINDER, EXTRUDED ALUMINUM CONSTRUCTION, 10,018 LUMENS, 60 DEGREE UPPER OPTIC, FORWARD THROW LOWER OPTIC, 80 CRI, WET LOCATION LISTED, DIMMABLE, 4000K	METEOR: LAG-100-408-UNV-STVS-60-FINISH-OUT	LED	100.00 W	
G	1' X 4' SURFACE MOUNT LED, VAPOR TIGHT, VANDAL RESISTANT, 6000 LUMENS, 4000K, CLEAR, UV STABILIZED POLYCARBONATE, .15" SHIELDING	WILLIAMS: AVX-4-L62-840-CPC-DIM-UNV	LED	57.00 W	
H	2' x 4' NARROW LED INDUSTRIAL GRADE SURFACE MOUNT STRIP FIXTURE, VAPOR TIGHT, LISTED FOR WET LOCATION 4000K	PARAMOUNT: PMCO-4-SF-UNV-4K-CRI83-38L-PZ-L4-LD	LED	32.00 W 8.00 W	



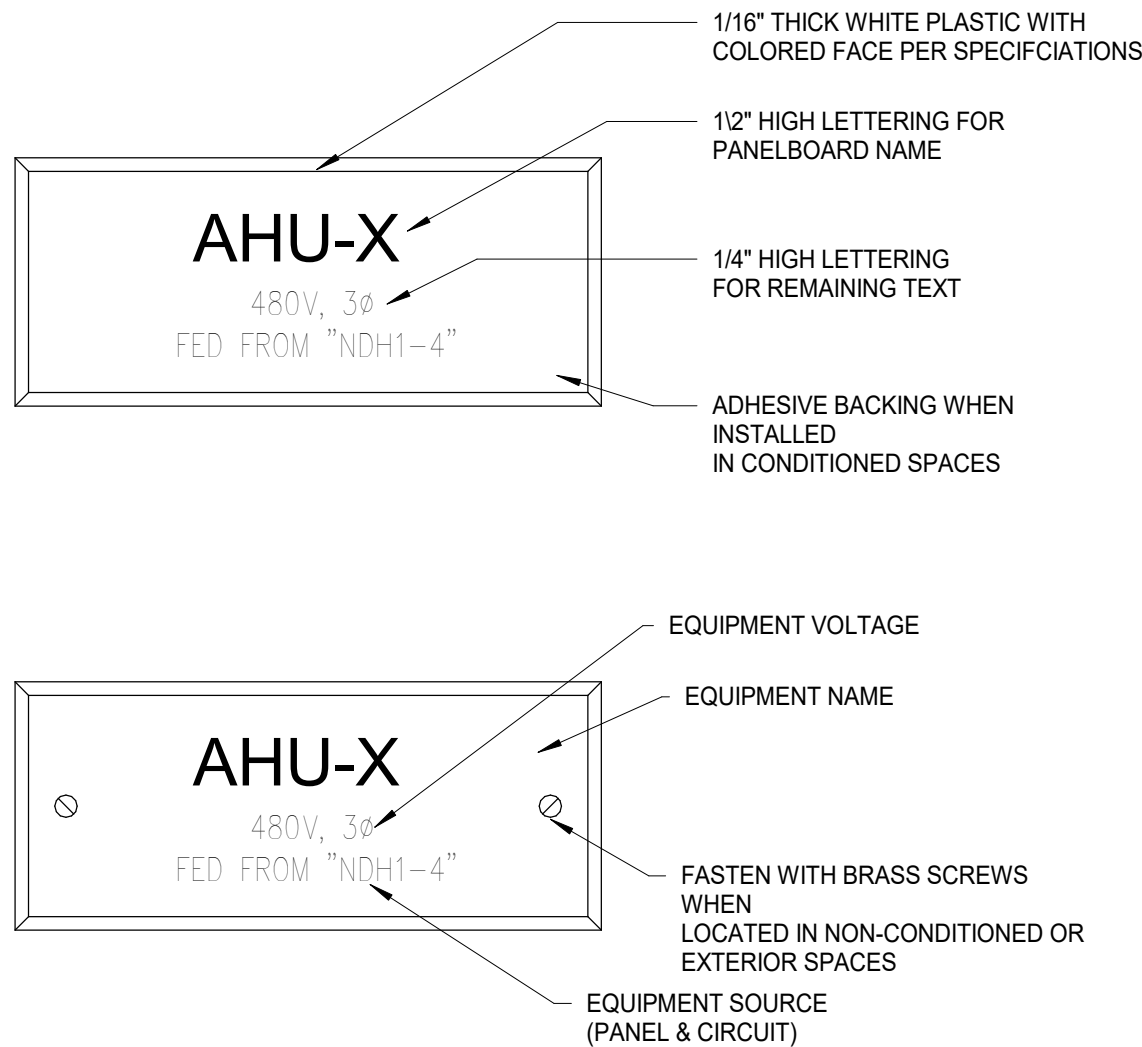
1 ELECTRICAL RISER DIAGRAM
N.T.S.

COPPER CONDUCTOR/FEEDER SCHEDULE (90/75 RATED)						
SYMBOL	NUMBER OF SETS	PHASE CONDUCTORS (QUANTITY) SIZE - AWG	NEUTRAL CONDUCTORS (QUANTITY) SIZE - AWG	GROUNDING CONDUCTORS (QUANTITY) SIZE - AWG	CONDUIT SIZE (QUANTITY) SIZE	REMARKS
400	2	(3) #30	(1) #30	(1) #3	(1) 2" FOR EACH RUN	
SVC400	2	(3) #30	(1) #30	---	(1) 2" FOR EACH RUN	

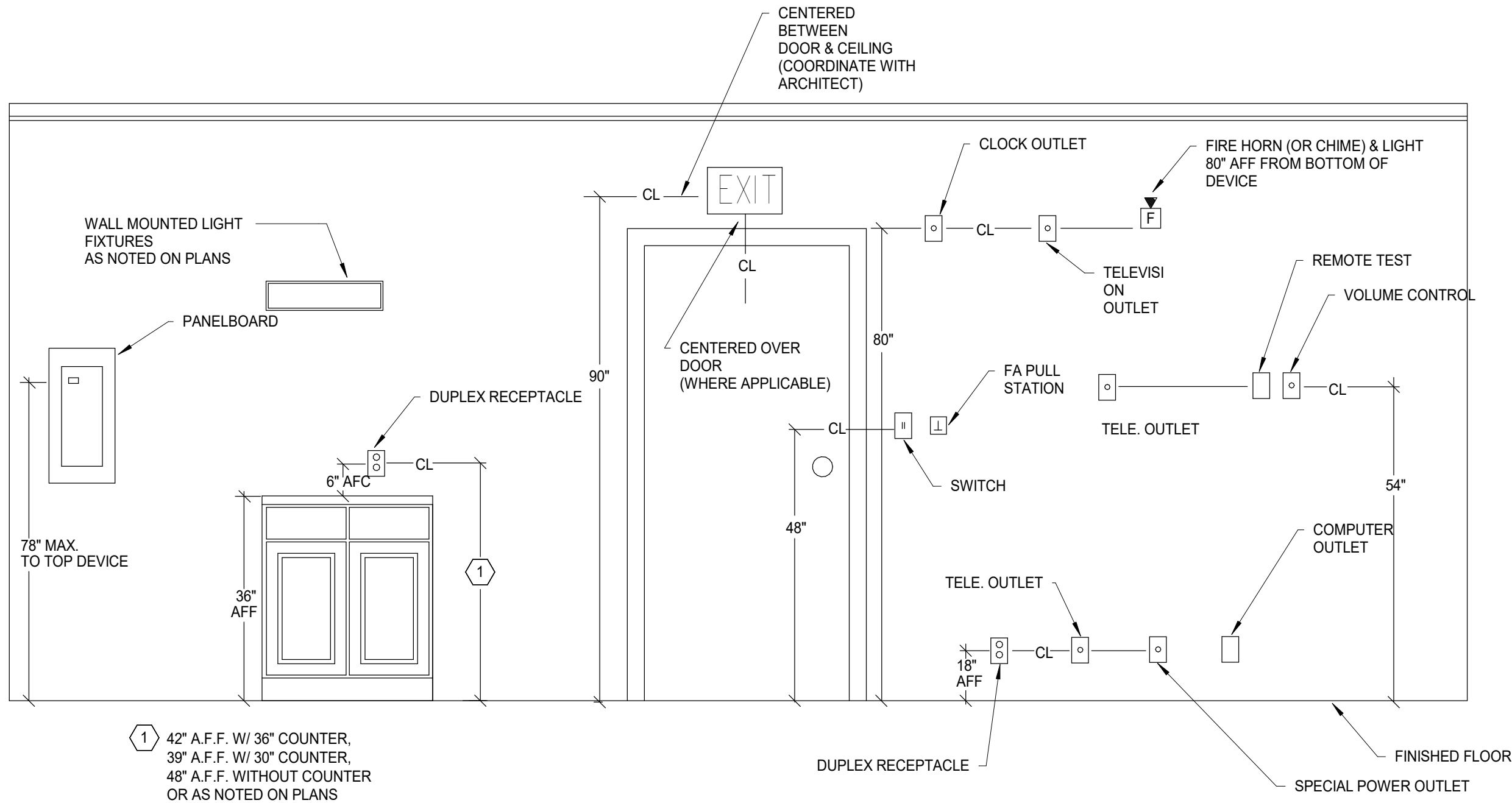
Panel: UPS														
Location: ELEC. ROOM 3			Mounting: SURFACE			Dist. / Phase / Wires: 120/208 Wye / 3 / 4 K.A.I.C. Rating:				BUS Rating: 100 A				
Supply From: LP1			Enclosure: TYPE 1			Max Height Busing: Yes			Mains Type: MLO			MCB Rating:		
KN	CKT	Circuit Description	Trip(A)	P	A (KVA)	B (KVA)	C (KVA)	P	Trip(A)	Circuit Description	CKT	KN		
1		RECEPTACLE - IT RACK	20	1	1.200	1.000		1	20	RECEPTACLE - ACCESS CONTROL	2			
3		RECEPTACLE - SERVICE PROVIDER EQUIPMENT	20	1		0.800	1.360		1	20	RECEPTACLES - I.T. 7	4		
5		KIOSK	20	1			0.500	0.550	1	20	DIGITAL DISPLAY - CANOPY	6		
7		BUS SCHEDULE - CANOPY	20	1	0.550	0.550		1	20	DIGITAL DISPLAY - CANOPY	8			
9		DIGITAL DISPLAY - CANOPY	20	1		0.550	0.550		1	20	BUS SCHEDULE - CANOPY	10		
11		DIGITAL DISPLAY - CANOPY	20	1			0.550	0.200	1	20	RECEPTACLE - SITE CAMERA POWER	12		
13		RECEPTACLE - SITE CAMERA POWER	20	1	0.400	0.400		1	20	RECEPTACLE - SITE CAMERA POWER	14			
15		RECEPTACLE - SITE CAMERA POWER	20	1		0.200	0.000		1	20	Spare	16		
17		RECEPTACLE - SITE CAMERA POWER	20	1			0.200	0.000	1	20	Spare	18		
19		Spare	20	1	0.000	0.000			1	20	Spare	20		
21		Spare	20	1		0.000	0.000		1	20	Spare	22		
23		Spare	20	1			0.000	0.000	1	20	Spare	24		
25		Spare	20	1	0.000	0.000			1	20	Spare	26		
27		Spare	20	1		0.000	0.000		1	20	Spare	28		
29		Spare	20	1			0.000	--	1	--	Space	30		
31		Spare	20	1	0.000	--			1	--	Space	32		
33		Spare	20	1		0.000	--		1	--	Space	34		
35		Space	--	1				--	--	1	--	Space	36	
37		Space	--	1	--	0.000						38		
39		Space	--	1		--	0.000					40		
41		Space	--	1			--	0.000	3	30	SPD	42		
Connected Phase Load (KVA)					4.100	3.460	2.000							
Connected Phase Amps (A)					36.038	30.705	16.667							
Load Classification			Connected Load			Demand Factor			Demand Load			Panel Totals		
EQUIPMENT			3300 VA			100.00%			3300 VA			Total Connected Load (KVA): 9.560 Total Demand Load (KVA): 9.560 Total Demand Current (A): 27		
RECEPTACLE			6260 VA			100.00%			6260 VA					



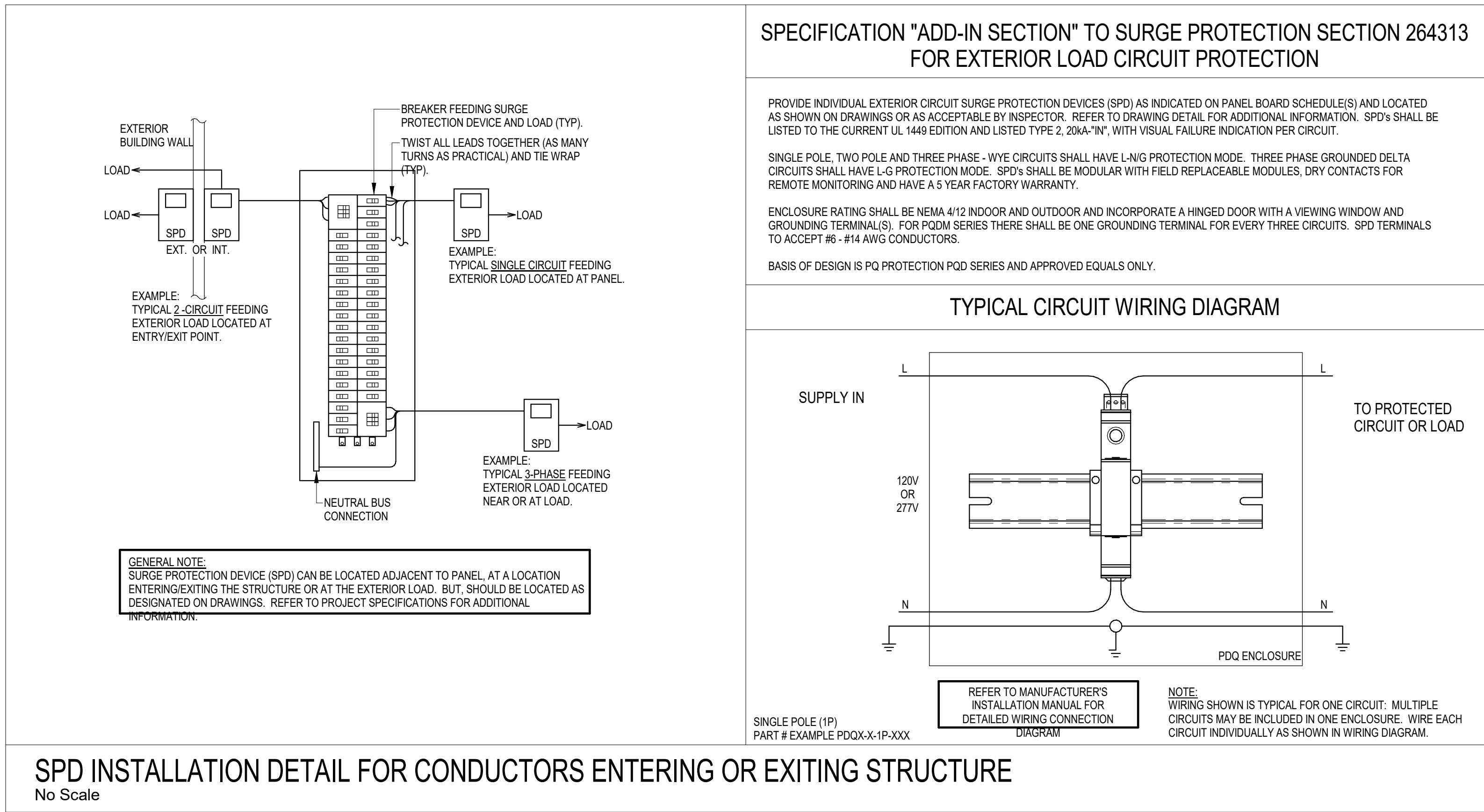
3 PANELBOARD NAMEPLATE
N.T.S.



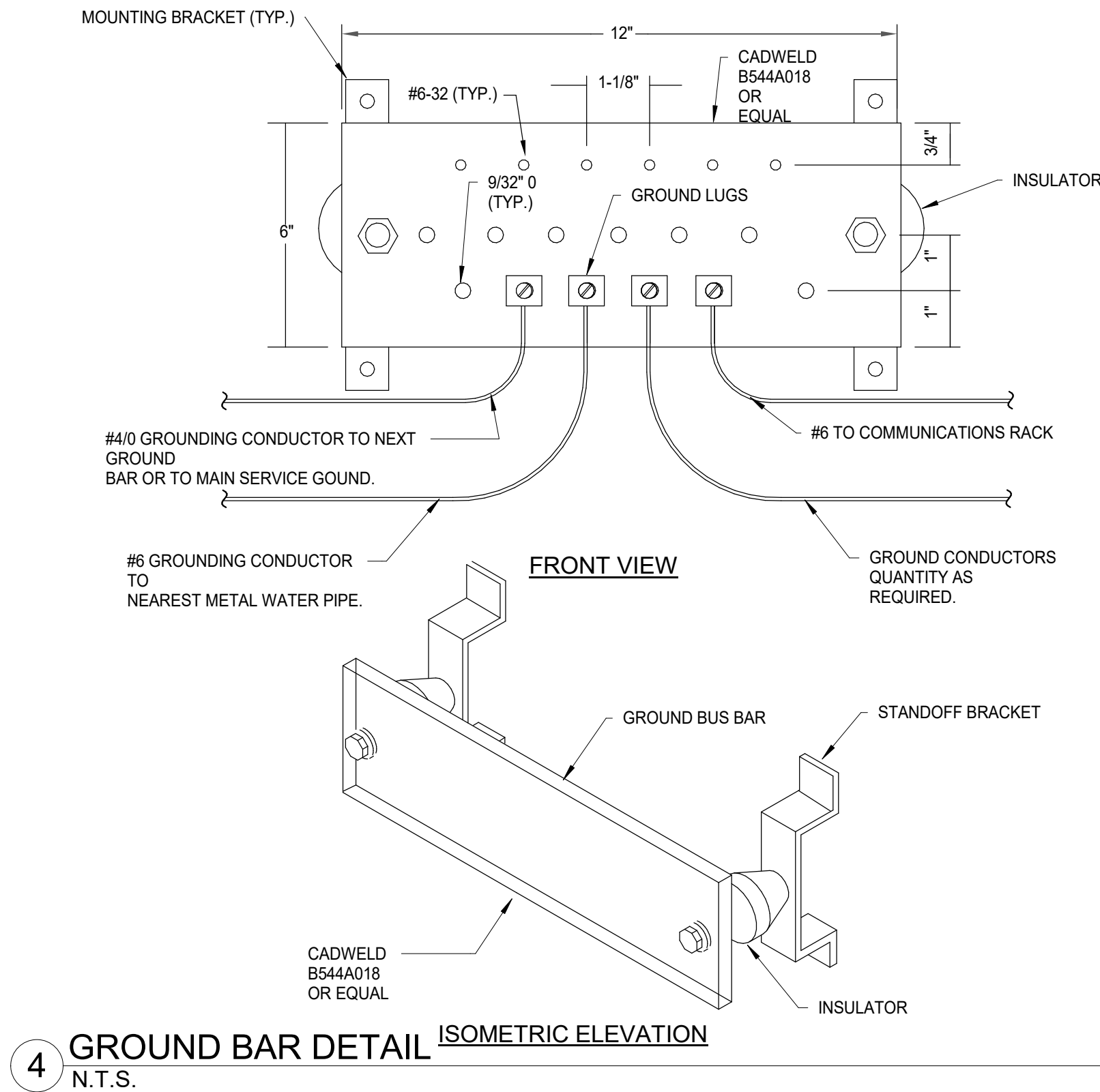
2 EQUIPMENT NAMEPLATE
N.T.S.



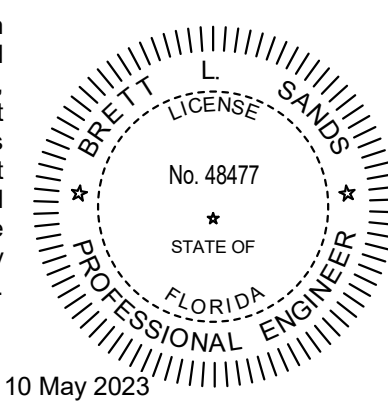
1 E - Mounting Heights
N.T.S.



5 SPD INSTALLATION DETAIL
N.T.S.



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