

ELECTRICAL GENERAL NOTES

- CONTRACTOR SHALL COMPLY WITH THE LATEST EDITIONS OF ALL RELEVANT NFPA AND FBC REQUIREMENTS
- DRAWINGS ARE DIAGRAMMATICAL AND INDICATE DESIGN INTENT
- DO NOT SCALE DRAWINGS
- FIELD VERIFY EXISTING CONDITIONS AND ACTUAL DIMENSIONS PRIOR TO START OF WORK
- THOROUGHLY COORDINATE ELECTRICAL WORK WITH OTHER TRADES TO AVOID PHYSICAL CONFLICTS AND CONFLICTS WITH WORK SEQUENCE
- REFER TO ARCHITECTURAL DRAWINGS FOR WALLS WITH SPECIAL WALL FINISHES COORDINATE OVERALL WALL COVERING THICKNESS AND PROVIDE PLASTER RING WITH APPROPRIATE DEPTH
- ALL CONDUITS SHALL CONTAIN PROPERLY SIZED GROUND WIRE
- ALL CONDUIT AND WIRING SHALL BE CONCEALED BY WALL OR CEILING CAVITY EXCEPT FOR EXISTING BLOCK WALLS AND AREAS WITH EXPOSED CEILING CONSTRUCTION. ALL AREAS WITH NEW WALLS OR RECONSTRUCTED WALLS SHALL HAVE CONDUIT AND WIRING CONCEALED IN WALL CAVITY. EXPOSED CONDUIT IN 196H BAY STORAGE, MAINTENANCE AND DELIVERY STORAGE SHALL BE RGS UP TO 10 FT HEIGHT ABOVE FINISHED FLOOR, WHERE MOUNTED EXPOSED.
- THE ELECTRICAL CONTRACTOR MAY, AT THEIR OPTION, REUSE A PORTION OR ALL OF EXISTING MULTI-BRANCH CIRCUIT WIRING ANDIOR CONDUIT(S) PROVIDED THEY MEET ALL THE REQUIREMENTS OF THE NEW INSTALLATION (I.E., APPROPRIATE ROUTING, CONDUIT SIZE, CONDUIT TYPE, WIRE SIZE FOR LENGTH WITH DERATING, ETC.)
- BRANCH CIRCUIT WIRING SHALL BE DERATED PER NEC 310-15 DUE TO HARMONIC LOADING THE NEUTRAL CONDUCTOR SHALL BE CONSIDERED AS CURRENT CARRYING CONDUCTOR FOR DERATING PURPOSES
- MAIN BRANCH CIRCUIT CONDUIT RUNS SHALL BE EMT FLEXIBLE CONDUIT OR MC CABLE MAY BE USED FOR FINAL RUN TO POWER POLE (MAXIMUM OF 10 FEET LENGTH) OR FOR FISHING DOWN EXISTING WALLS. REFER TO SPECIFICATIONS FOR ADDITIONAL RACEWAY RESTRICTIONS.
- WHERE GECLPROTECTION IS INDICATED, A GECLTYPE RECEPTACLE SHALL BE PROVIDED AT EACH LOCATION LOAD SIDE PROTECTION OF DOWN STREAM DEVICES WILL NOT BE ACCEPTABLE GECLPROCED SHALL BE READILY ACCESSIBLE
- 13 RECEPTACLES WITHIN 6 FT OF SINKS SHALL BE GFCI
- 44 ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE POWER FEEDIS) TO ANY/ALL MECHANICAL EQUIPMENT THAT REQUIRE A POWER FEED, UNLESS OTHERWISE NOTED COORDINATE WITH INFORMATION ON MECHANICAL DRAWINGS AND MECHANICAL TRADES ON SITE
- REFER TO ARCHITECTURAL DRAWINGS FOR WALLS TO BE PROVIDED WITH INSULATION FOR ACOUSTICAL PURPOSES
- 16 ALL EMPTY CONDUITS SHALL BE DEBURRED, CLEANED, TAGGED AND PROVIDED WITH A NYLON PULL STRING AND CAPPED AT OPEN ENDS NOT TERMINATED ANY WHERE
- IN AREAS WITH GYPSUM BOARD CEILINGS THE ELECTRICAL TRADES SHALL ROUTE CONDUIT AND POSITION PULLIANCTION BOXES TO ALLOW ACCESS THRU ACCESS PANELS BY ARCHITECTURAL TRADES, WHERE POSSIBLE WHERE ADDITIONAL ACCESS PANELS ARE REQUIRED FOR ELECTRICAL EQUIPMENT. THE ELECTRICAL TRADES SHALL DICLUDE THE ACCESS PANEL IN THE BIO. ACCESS PANEL SHALL BE INSTALLED BY THE CEILING INSTALLER

ADDITIONAL ACCESS PANEL LOCATIONS SHALL BE APPROVED BY THE ARCHITECT

- 18 MOUNTING HEIGHTS OF ELECTRICAL DEVICES ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED
- 19 ELECTRICAL DEVICE OUTLETS SHALL NOT BE LOCATED BACK TO BACK WITHIN THE SAME STUD SPACE IN INTERIOR WALLS, WHICH ARE INSULATED. THE DEVICES IN ONE ROOM SHALL BE OFFSET TO THE NEXT STUD SPACE.
- 20 MULTIGANG DEVICES SHALL BE GANGED UNDER SINGLE MULTIGANG COVERPLATE
- 21 WHERE ELECTRICAL DEVICES ARE INDICATED ON A COLUMN, THE DEVICE SHALL BE CENTERED ON THE COLUMN SURFACE
- 22 ALL EMERGENCY WIRING SHALL BE IN SEPARATE CONDUIT FROM NON-EMERGENCY WIRING (EXCEPT AT J-BOX AND FINAL CONNECTION TO LIGHT FIXTURES)
- 23 REFER TO ONE LINE DIAGRAM FOR CONDUIT AND WIRE SIZES
- 24 PROVIDE CONDUIT CONNECTOR OR BUSHING ON END OF CONDUIT FOR ALL CONDUIT STUB OUTS
- 25 WALL COMMUNICATION OUTLET ROUGH IN SHALL BE PROVIDED WITH 2 GANG BACKBOX, REDUCING 1 GANG PLASTER RING, 3° CONDUIT STUB TO ACCESSIBLE CEILING SPACE AND NYLON PULL STRING
- 35. ALL 120 VOLT BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE FULL SIZE NEUTRAL CONDUCTORS
- 36 120 VOLT BRANCH CIRCUITS MAY SHARE FULL SIZE GROUND WITH UP TO 3 CIRCUITS WHICH SERVE SIMILAR LOADS
- 37 CIRCUIT NUMBERS ARE INDICATED FOR CIRCUIT QUANTITIES AND GENERAL CONFIGURATION ONLY ACTUAL CIRCUIT NUMBERS MAY VARY FIELD VERIFY PROVIDE ACTUAL CIRCUIT NUMBERS ON AS-BUILTS
- 38 PROVIDE FIELD LABELING OF ALL NEW BRANCH CIRCUITS AND ALL EXISTING RECEPTACLE DEVICES TO INDICATE PANEL BOARD AND CIRCUIT NUMBER OF SOURCE PROVIDE LABELING ON DEVICE COVER PLATE OR J-BOX COVER
- 39 ELECTRICAL TRADES TO VERIFY EXISTING CIRCUITS WHICH REMAIN AND QUANTITY OF AVAILABLE SPARE CIRCUITS IN EACH PANEL BOARD AFTER PRE-BIDPRE-DEMOLITION INVESTIGATION IS COMPLETE. IF QUANTITY OF AVAILABLE CIRCUITS IS LESS THAN QUANTITY INDICATED TO BE USED ON NEW WORK PLANS, REVIEW CIRCUITING WITH OWNERS REPRESENTATIVE AND ERGINEER FOR REVISION OF CIRCUIT QUANTITIES AND LOAD SERVED CIRCUIT QUANTITY ADJUSTMENTS TO BE MADE BASED ON UNIT PRICING
- 40 CONDUCTORS SIZED FOR VOLTAGE DROP THAT ARE TOO LARGE FOR LUGS SHALL BE REDUCED USING STRAIGHT PIN TERMINALS WITH STRANDED PIGTAIL AND INSULATING COVERS USE STRANDED BI-METALLIC PIN TERMINALS
- 41 PROVIDE PULL BOXES AS REQUIRED TO INTERCEPT FEEDER AND BRANCH CIRCUITS AND EXTEND TO NEW PANEL DECUPICATIONS FOR APPROVED SPLICING METHODS LOCATE PULL BOXES IN JOIST
- 42 COORDINATE SEQUENCING AND TEMPORARY REQUIREMENTS TO MAINTAIN LIGHTING SYSTEM OPERATION DURING CONSTRUCTION
- 43 THE ELECTRICAL TRADES SHALL PROVIDE FIELD INVESTIGATION TO VISUALLY AND ELECTRICALLY TRACE BRANCH CIRCUITS, WHICH ARE TO BE REMOVED. IF BRANCH CIRCUITS SERVE LIGHTING OR EQUIPMENT OUTSIDE OF THE PROJECT SCOPE. THE EXISTING BRANCH CIRCUIT WIRING SHALL BE MAINTAINED TO SERVE THESE LOADS.

EXHIBIT G S&S Electrical Plans

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B Bildworx Design 300 SE 2ND STREET, STE 600 FORT LAUDERDALE, FL 3330 PHONE, 19541 933-8246 WWW bildwork com Florida Registration 32813 CORPORATE NAME BILDWORK DESIGN LLC REGISTERD IN THE STATE I FLORIDA THESE DRAWNINGS ARE IN PROPERTY OF BILDWORK DESIGN, L AND SHALL NOT BE REPRODUCI WITHOUT WRITTEN PERMISSION FROM PRINCIPAL OF THE FIRM OR BE LIAB FOR THE FULLEST LEGAL RECOURSE or SATION CONTROL OF THE PROPERTY OF THE PROPE igitally signed by Ray Sayegh ate: 2023-12-11 10:34:57 RAJI SAYEGH - FL PE#79700

ILEX PARK
WEST ILEX DRIVE 8TH STREET LAKE PARK, FL 33403

11/28/202

PROJECT#

ELECTRICAL LEGEND & GENERAL NOTES

E0.01

GENERAL NOTES

KEY NOTES:

- (1) PROVIDE A NEW METER CAN AND CONNECT TO EXITSING OVERHEAD SERVICE CONDUCTOR MOUNT NEW METER ON NEW UNISTRUT STRUCTURE REFER TO SHEET EGD FOR DETAILS AND COORDINATE EXACT LOCATION WITH OWNER ON SITE
- REPLACE EXISTING PANELBOARD WITH A NEW SERVICE RATED NEMA-3R PANELBOARD WITH LOCKABLE COVER AND MOUNT ON UNISTRUT STRUCTURE RECONNECT CIRCUITS FROM EXISTING PANELBOARD REPLACING ANY DETERIORATED WIRES REFER TO SHEET E6 00 FOR DETAILS
- (4) COORDINATE EXACT LOCATION OF FIXTURES WITH LANDSCAPING IN COORDINATION WITH OWNER
- (§) PROVIDE A NEW UNISTRUT STRUCTURE AND MOUNT EXISTING AND NEW IRRIGATION COUPMENT MOUNT EQUIPMENT WITH A MINIMUM OF 24" CLEARANCE ABOVE GRADE REPLACE CORRODED DISCONNECT SWITCH AND RECEPTACLE SERVING THIS EQUIPMENT WITH NEW NEMAJR DISCONNECT SWITCH AND WEATHERPROOF GFCI RECEPTACLE AND RECONNECT WITH NEW WIRING TO NEW PANELBOARD
- (6) INSTALL NEW 7 DAY PROGRAMMABLE TIMER AND CONNECT TO LIGHTING CIRCUIT

(3) PROVIDE A NEW RECEPTACLE WITH LOCKABLE WEATHERPROOF COVER MOUNTED UNISTRUT STRUCTURE

Digitally signed by Raji Say egh Date: 2023-12-11 11.02.15

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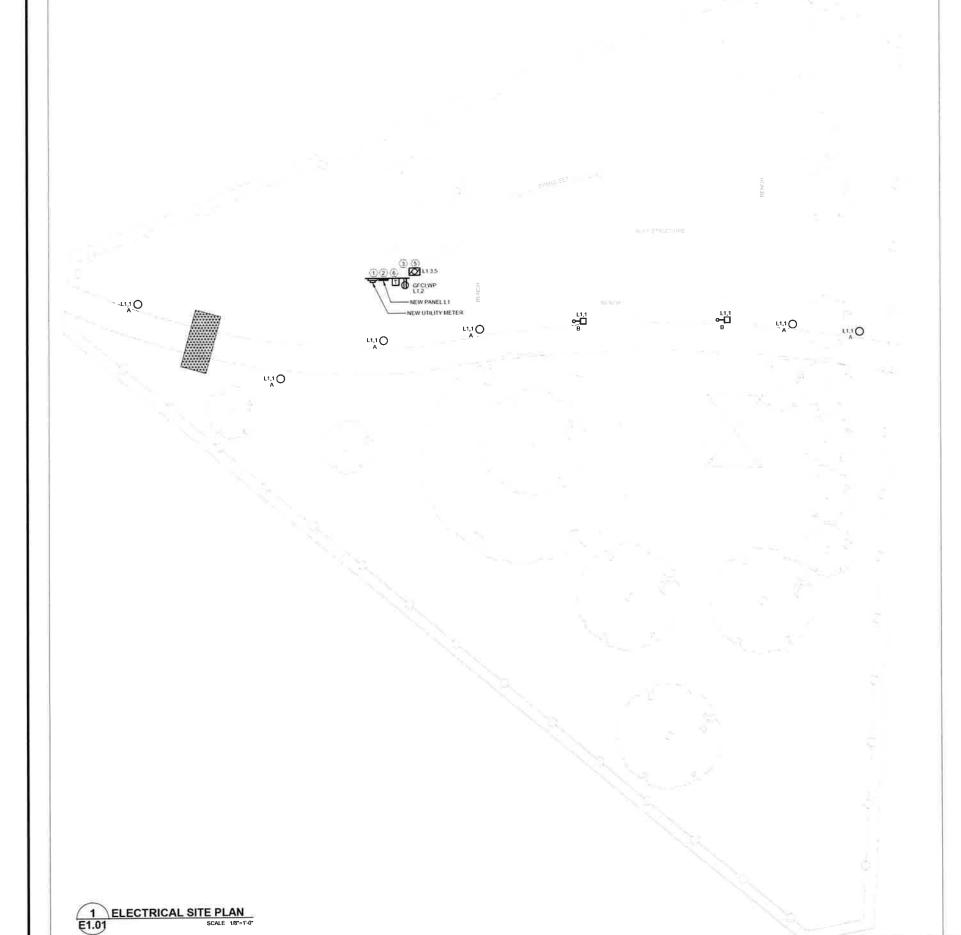
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PROJECT#:

ELECTRICAL SITE PLAN

E1.01

2 EXISTING ELECTRICAL SERVICE E1.01 SCALE: NTS



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ROOM NAME	Eav (FC)	Emin (FC)	Ernax (
WALKWAYS	4 41	1.53	11

(FC)

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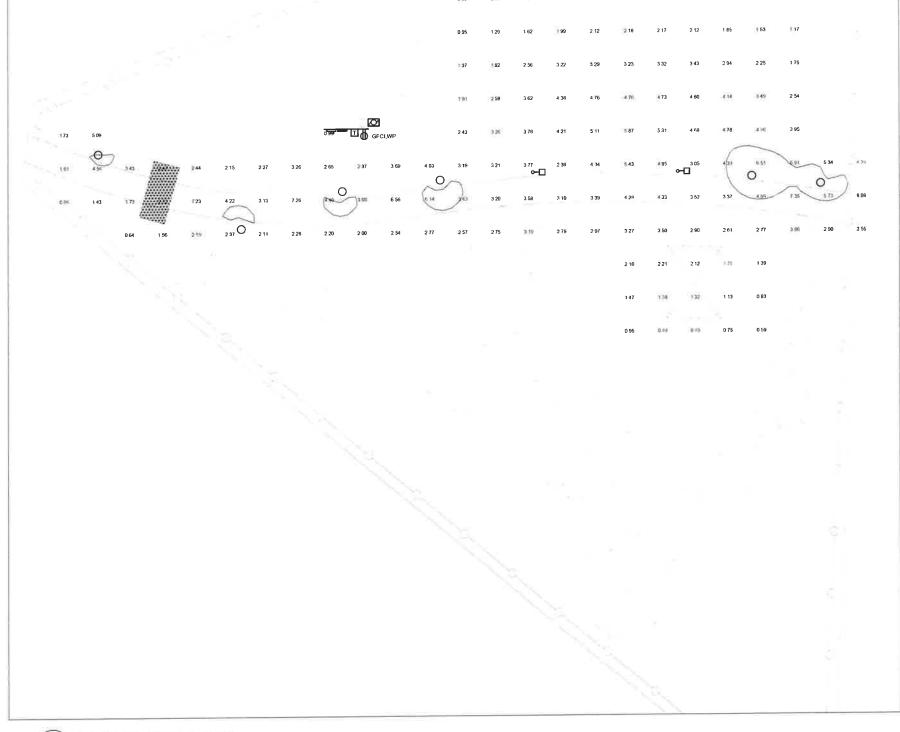
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ELECTRICAL PHOTOMETRICS

E1.02



ELECTRICAL SPECIFICATIONS

GENERAL:

- $\tau_{\rm b}$. The contractor shall visit the site prior to submitting bid to be familiarized with the project and all aspects of the work to be performed,
- ALL WORK SHALL CONFORM TO AND COMPLY WITH APPLICABLE BUILDING CODES: REFER TO
 ASCHITECTURAL COVER SHEET FOR A LIST OF CODES BEING USED ON THIS PROJECT, NOTE:
 CONTRACTOR SHALL ALSO VERIFY WITH LOCAL AUTHORITY HAVING JURISDICTION AND LOCAL FIRE
 MASHALL FOR ANY REQUIREMENTS NOT LISTED IN REQUIRED CODES AND REFERENCES.
- 3. INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER.
- 4. GUARANTEE THE WORK FOR A PERIOD OF ONE YEAR.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS INCLUDING ARRANGING ALL INSPECTIONS REQUIRED FOR THE WORK TO BE UNDERTAKEN AND ACCEPTED.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY COMPANIES FOR ALL FINAL SERVICE CONNECTION REQUIREMENTS. THE CONTRACTOR SHALL INCLUDE IN CONTRACT PRICE ANY FEES REQUIRED BY UTILITY COMPANIES FOR SERVICE CONNECTIONS.
- 7. CUT ALL SURFACES AS REQUIRED FOR THE INSTALLATION AND PATCH TO MATCH EXISTING CONDITIONS AND FINISH
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE TESTED AND LISTED BY UNDERWRITERS LABORATORIES (UL).
- ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED PER NEWA STANDARDS, APPLICABLE ANSI STANDARDS AND IEEE STANDARDS.
- 10, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING POWER.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWNOS, PRODUCT DATA AND WRING DIAGRAMS AS REQUIRED BY EACH SECTION, PRODUCT DATA SHALL BE MARKED TO IDENTIFY THE EXACT MODE, NUMBER AND OFFIDINS THAT ARE TO BE PROVIDED SHOP DRAWNOS SHALL BE SUBMITTED ELECTRONICALLY TO THE ARCHITECT FOR ENGINEER'S APPROVAL ONCE THE ENGINEER RECEIVES THE SUBMITTAL, THE REVIEW PROCESS WILL REQUIRE FME (5) BUSINESS DAYS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING OPERATION AND MAINTENANCE (O&M)
 MANUALS. THESE MANUALS SHALL BE A VINYL THREE RING BINDER WHICH IS TO BE LABELED WITH
 THE OWNER'S PROJECT NAME AND NUMBER ON THE BINDER. THE O&M MANUALS SHALL INCLUDE
 PRODUCT DATA CUT SHEETS, MANTENANCE REQUIREMENTS, PROGRAMMING INSTRUCTIONS AND
 WARRANTIES OF ALL EQUIPMENT.
- 14, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEANING OF EQUIPMENT INSTALLED.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED, ALL MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF PROPERLY BY CONTRACTOR.
- 16. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROPERLY FIRE SEALED TO CONFORM WITH UL SYSTEM NUMBERS AS LISTED IN VOLUME 2 OF THE UL FIRE RESISTANCE DIRECTORY FOR EACH DIFFERENT INTENDED PROJECT APPLICATION, SUCH AS CABLE TRAY PENETRATION AND CONDUIT PENETRATIONS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS DOORS AND FRAMES AT LOCATIONS OF EQUIPMENT REQUIRING ACCESS WHICH IS CONCEALED IN WALLS OR CEILINGS.

RACEWAY AND BOXES:

- 1. UNLESS NOTED OTHERWISE, USE EMT CONDUIT WITH STEEL COMPRESSION FITTINGS.
- 2. THE MINIMUM SIZE OF CONDUIT SHALL BE 3/4"
- 3. ALL RACEWAY SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
- UNLESS NOTED OTHERWISE USE RIGID GALVANIZED STEEL CONDUIT UP TO 10° A.F.F. OUTDOORS, USE GALVANIZED IMC OVER 10°, PROVIDE EXPANSION COUPLINGS AS REQUIRED.
- 5. USE PVC SCHEDULE 40 CONDUIT UNDERGROUND
- 6. FLEXIBLE METAL CONDUIT SHALL BE USED FOR THE FINAL CONNECTIONS TO ROTATING MACHINERY, MIBRATING EQUIPMENT AND LIGHTING FIXTURES. 3/8" SIZE IS ALLOWED FOR CONNECTIONS TO LIGHTING FIXTURES. USE LIQUIDITION FOR OUTDOOR USE OR FOR CONNECTIONS TO MOTORS OR EQUIPMENT. IN AREAS WHERE THE RUPTURE OF A PIPE COULD SPRAY OR LEAK ON THE CONDUIT. SUCH AS IN MECHANICAL ROOMS.
- 7. PROVIDE PULL AND JUNCTION BOXES AS REQUIRED.
- B. ALL OUTLET BOXES SHALL BE 4" SQUARE OR 4-11/16" SQUARE, CALVANIZED METAL, INSTALL TRUE AND PLUMB WITH THE BUILDING FINISH, INSTALL SECURELY AND INCEPEDIENT OF RACEMAN, PROVIDE SINCLE OR MULTICARE RINGS AS RECOURTED, LIGHTIME, PIXTURE BOXES MAY BE 4" OCTACOMAN.
- 9. INSTALL ALL RACEWAYS PARALLEL AND PERPENDICULAR TO THE BUILDING WALLS, FLOOR AND CEILING
- 10. ALL BOXES FOR RECEPTACLES, TELEPHONE AND DATA OUTLETS SHALL BE MINIMUM 2-1/8" DEEP. ALL BOXES FOR SWITCHES, LOCAL LIGHT CONTROL, AND RECESSED LIGHT FIXTURES TO BE MINIMUM 1-1/2" DEEP.
- 11 PROVIDE BLANK COVERS ON ALL BOXES THAT ARE NOT TO RECEIVE A DEVICE.
- 12. ALL RACEWAY SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE USING APPROVED CLAMPS, RODS, FITTINGS, ETC. DO NOT SUPPORT FROM HUNG CEILING WIRES OR THE WORK OF OTHER TRADES. SUPPORT AT INTERVALS AS REQUIRED BY NEC.
- 13. UNDERGROUND CONDUIT WALL PENETRATIONS SHALL BE SEALED WITH "WS" STEEL SLEEVE AND AND RUBBER LINKS WHICH WILL CREATE A WATERTICHT SEAL SLEEVES AND SEALS SHALL BE PSI-THURDERLINE" LINK-SEAL" MODEL C.
- 14. USE STEEL SURFACE RACEWAY (2 SECTIONS) ONE SECTION FOR POWER AND ONE FOR LOW VOLTAGE USE STEEL SUPPLIE ARCHMAT 2 SECTIONS) ONE SECTION TO FORCE TO STEEL SUPPLIES ON THE SECTION OF T

LUMINAIRES:

- 1. PROVIDE MANUFACTURERS PRODUCT DATA CUT SHEET SUBMITTALS FOR ENGINEERS AND ARCHITECTS APPROVAL FOR ALL LUMINAIRES.
- LUMINAIRES TYPES ARE AS SCHEDULED OR NOTED. REFER TO LIGHT FIXTURE SCHEDULE AND LEGENDS ON ELECTRICAL AND ARCHITECTURAL DRAWINGS.
- 3. PROVIDE LUMINAIRES WITH THE NECESSARY FRAMES, FLANGES, FITTINGS, ETC., AS REQUIRED FOR INSTALLATION IN OR ON THE CEILUNG OR SUPFACE IN OR ON WHICH THEY ARE TO BE INSTALLED AND TO ELIMINATE LIGHT LEAKAGE. CATALOG NUMBERS DO NOT NECESSARILY REFLECT THE TYPE OF CEILING IN WHICH A FIXTURE IS TO BE INSTALLED.
- 4. COORDINATE FINAL LOCATIONS OF LUMINAIRES IN THE FIELD WITH ARCHITECTURAL REFLECTED CEILING PLANS

WIRE AND CABLE:

- 1. ALL WIRE AND CABLE SHALL HAVE COPPER CONDUCTORS.
- 2. USE NEC TYPE THHN/THWN OR XHHW INSULATION.
- 3. USE MINIMUM #12 AWG SIZE. #14 AWG MAY BE USED FOR CONTROL WIRING. FOR OTHER SYSTEMS USE WIRING AS NOTED ON THE DRAWINGS AND AS RECOMMENDED BY THE SYSTEM MANUFACTURER.

- 4. CONTRACTOR SHALL UPGRADE CONDUCTOR SIZES FOR VOLTAGE DROP AS FOILLOWS:

 FOR 120V CIRCUITS, UPGRADE BY 1 SIZE FOR EVERY 100' OF CIRCUIT LENGTH.

 FOR 240—277V CIRCUITS, UPGRADE BY 1 SIZE FOR EVERY 150' OF CIRCUIT LENGTH.

 FOR 480V CIRCUITS, UPGRADE BY 1 SIZE FOR EVERY 200: OF CIRCUIT LENGTH.

WIRING DEVICES:

- 1. ALL RECEPTACLES SHALL BE SAME MANUFACTURER, ALL RECEPTACLES SHALL BE COMMERCIAL GRADE 20A, 725 VOLTS, DUPLEX, WHITE COLOR: ACCEPTABLE MANUFACTURERS ARE HUBBELL, COOPER, PASS & SEMMOUR, OR LEVITON. INSTALL RECEPTACLES WITH THE LONG DIMENSION VERTICAL AND WITH THE GROUND SLOT ON TOP, FLUSH MOUNT IN OUTLET BOX AT 18" AFF UNLESS OTHERWISE NOTED.
- 2. SPECIAL PURPOSE RECEPTACLES SHALL BE AS NOTED ON THE DRAWINGS.
- 3. ALL SWITCHES SHALL BE SAME MANUFACTURER ALL SWITCHES SHALL BE 20A, 120V, QUIET. OPERATING TYPE, WHITE COLOR. ACCEPTABLE MANUFACTURERS ARE HUBBELL, PASS & SEYMOUR, OR LEVITON. RSTALL SWITCHES VERTICALLY WITH "ON" IN THE UP POSITION. FLUSH MOUNT IN OUTLET BOX AT 48" AFF UNLESS OTHERWISE NOTED.
- 4. TELEPHONE AND DATA OUTLET BOXES SHALL BE 4-11/16" SOUARE OUTLET BOX WITH A SINGLE GANG VERTICAL RING AND A 1" CONDUIT CONCEALED IN WALL AND STUBBED UP TO NEAREST CABLE TRAY OR ABOVE ACCESSIBLE CELLING. FLUSH MOUNT IN OUTLET BOX AT 18" AFF UNLESS OTHERWISE NOTED. OWNER WILL PROVIDE WIRING, PLATES AND JACKS.
- 5. PLATES SHALL BE FLEXIBLE THERMOPLASTIC, NON-BREAKABLE, SAME COLOR AS THE DEVICE. FOR SURFACE BOXES, USED RAISED METAL WITH THE SAME DIMENSIONS AS THE BOX. PLATES IN BREAKROOM, KITCHEN, AND TOILET ROOM SHALL BE STANLESS STEEL.

GROUNDING:

- 1. INSTALL THE ELECTRICAL SYSTEM CONTINUOUSLY FROM BOX TO BOX AND FROM OUTLET TO OUTLET AND TO CABINETS TO FORM A CONTINUOUS PATH TO GROUND
- 2. INSTALL A GREEN INSULATED EQUIPMENT GROUND WIRE, AT A MINIMUM SIZE OF \$12 AWG OR LARGER IF REQUIRED BY NEC TABLE 250.95. ROUTE GROUND WIRE WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES, EQUIPMENT, MOTORS, LIGHTING FIXTURES, ETC. BOND TO THE EQUIPMENT AND TO THE ROWNON BUS OR LUG AT THE SOURCE END.
- 3. SERVICE AND/OR TRANSFORMER GROUNDING, PROVIDE GROUNDING OF THE NEUTRAL CONDUCTOR FOR SERVICES AND SEPARATELY DERIVED SYSTEMS SUCH AS TRANSFORMERS USING A GROUND WISE (S) SIZED IN ACCORDANCE WITH NET TABLE 250—66 FOR SERVICE GROUNDING, PROVIDE CONNECTION TO WATER PIPE AND BUILDING STEEL IN THE ABSENCE OF STEEL IN LIEU THEREOF USE A 3/4" ROUND X 10"—0" LONG COPPERCIAD GROUND ROO DRIVEN INTO INDISTURBED EARTH.

DISCONNECTS AND STARTERS:

- PROVIDE MANUFACTURERS PRODUCT DATA CUT SHEET SUBMITTALS FOR ENGINEERS APPROVAL FOR ALL DISCONNECT SWITCHES AND STARTERS,
- 2. USE HEAVY-DUTY, HORSEPOWER RATED DISCONNECTS, FUSIBLE OR NON-FUSIBLE AS NOTED ON PLANS.
- 4. USE 3 POLE FULL VOLTAGE NON-REVERSING MAGNETIC STAFTERS WITH A NON-FUSED DISCONNECT. SWITCH FOR ALL MOTORS 1/2 HP AND ABOVE EQUIP WITH CLASS 10 OVERCURRENT PROTECTION, UNDER VOLTAGE PHESE LOSS AND REVERSAL PROTECTION. EQUIP EACH STAFTER WITH AN H-O-A SELECTION SWITCH, A RED RUN PILOT LIGHT AND AUXILIARY CONTACTS FOR INTERLOCKING AND CONTROL PRINCIPIONS AS NEEDED, COORDINATE WITH THE MECHANICAL CONTRACTOR, PROVIDE ENCLOSURE WITH RESET BUTTON, PILOT LIGHT AND SELECTOR SWITCH IN COVER.
- 5. USE MANUAL MOTOR STARTERS WITH THERMAL OVERLOAD PROTECTION FOR MOTORS LESS THAN 1/2 HP. PROVIDE RED RUN PILOT LIGHT IN COVER.
- MOTORS 1/2 HP AND ABOVE SHALL BE THREE PHASE, MOTORS BELOW 1/2 HP SHALL BE SINGLE PHASE, 120 VOLTS.
- 7. PROVIDE A NAMEPLATE WITH 1/2* ENGRAVED WHITE LETTERS ON A BLACK FIELD ON ALL MOTOR STARTERS AND ALL DISCONNECTS WITH THE DESIGNATION OF THE LOAD SERVED (EQUIPMENT
- 8. ALL LUGS SHALL BE RATED FOR 75 DEGREE WIRE.
- 9. EXTERNAL CONTROL WIRING, EXCEPT FOR FIRE ALARM SYSTEM CONNECTIONS, SHALL BE BY MECHANICAL CONTRACTOR.

- 1. PROVIDE MANUFACTURERS PRODUCT DATA CUT SHEET SUBMITTALS FOR ENGINEERS AND ARCHITECTS APPROVAL FOR ALL NEW PANELBOARDS.
- INTERIOR PANELBOARDS SHALL BE NEMA1 RATED AND EXTERIOR PANELBOARDS SHALL BE NEMA—3R RATED U.O.N.
- 3. PROVIDE PANELBOARDS WITH HINGED FRONT COVER AND DIRECTORY CARD HOLDER
- 4. PROVIDE NEW PRINTED PANEL SCHEDULE FOR ANY NEW OR MODIFIED PANELBOARD.
- 5. INCOMING MAINS LOCATION, TOP OR BOTTOM, SHALL BE DETERMINED BY CONTRACTOR BASED ON FIELD CONDITIONS.
- 6. ALL PANELBOARDS SHALL HAVE 100% RATED NEUTRAL BUS U.O.N.
- 7. ALL PANELBOARDS SHALL HAVE A PRINTED EQUIPMENT LABEL.
- 8. INSTALL PANELBOARDS WITH CLEARANCES BASED ON NEC REQUIREMENTS.
- 9 MOUNT PANELBOARD CABINET PLUMB AND RIGID WITHOUT DISTORTION OF BOX. MOUNT RECESSED PANELBOARDS WITH FRONTS UNIFORMLY FLUSH WITH WALL FINISH AND MATING WITH BACK BOX.
- 10. MOUNT TOP OF TRIM AT 90" ABOVE FINISHED FLOOR U.O.N.
- 11. INSTALL FILLER PLATES IN UNUSED SPACES
- 12 PROVIDE EQUIPMENT FROM ONE OF THE FOLLOWING MANUFACTURERS:
- 12.1. EATON 12.2. SIEMENS 12.3. SQUARE D 12.4. GENERAL ELECTRIC

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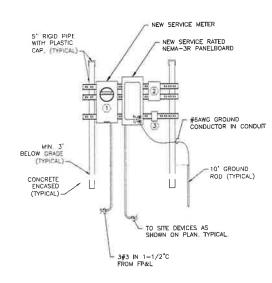
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PROJECT#

ELECTRICAL SPECIFICATION:

E5.00



GENERAL NOTES

CONTRACTOR SHALL PROVIDE PANELBOARD SCHEDULES

KEY NOTES

- ONNECT NEW METER TO EXISTING SERVICE
- New 7-Day PROGRAMMABLE TIMER WITH LOCKABLE COVER FOR LIGHTING CIRCUIT
- (3) NEW GFCI RECEPTACLE WITH LOCKABLE WEATHERPROOF COVER

SERVICE METER & PANELBOARD

K GROUND BUS												oleumeta.		ISC :	= 33 KAIC	
X GROUND BUS					x	- 11	10% N	ELITE	AL BU	s						
_	Lucii ii										DEM	AND		2.7	11.	4
L F	EQUIPMENT			S	SUBFED					CONNECTED			14	14 0		
	LIGHTING R RE					RECEPTACLE								KVA	AMPS	
TOTAL		3.4	-		_	2.7	_		_	_	4					
EQUIPMENT		2 5		0 75		1.9					1					
RECEPT		0.4					DEM	UND			PHB			1500	•	
LIGHTING		0.5	1	1.00			CON		D	-	PHA			1860		
LOAD DESCRIPTION	001	(KVA)		81.5		KVA)			(KVA)		CONN	ECTED		VA		
LOAD DESCRIPTION	CON	NECTED		DF	DEA	MAND	SUBF	EDL	DADS	-			8 3			
9	_	_					1	4	1	-	-		_			1.
7 IRRIGATION CONTROL		500	2F01	E	10	20		1		_	-	-	_			- 10
5	1000			E		-	*				-		-	_	SPACE	
3 IRRIGATION PUMP		1000	2F01	E	2	20	-								SPACE	
1 OUTDOOR LIGHTS	500	232.5	2F01	L	1	20	-	-	20	1	R	2F01	360		OUTDOOR REC	
NO LOAD DESCRIPTION	BUS A	BUS B	FEED	CODE	The second of th		P	CODE	FEED	BUSA	BUS B	LOAD DESCRIPTION	NO			
CKT	VALCAD			-	CB		BUS CB		8			VAI	CAO	770 September W	CKI	
.734.754445.7545.1044			SURFACE		FP&L					120/240	7V	100	100			
PANEL NAME L1	LOCATION		MOUN								VOLTAC 120/240		8US 100			

		BRA		UIT SCHEDULE (LOADS)		
- 4-WIRE SYSTEM	CONDUCTO	EEDERS AND BRANCH CIRCUIT SI R SIZES ARE BASED ON 90C INSU R SIZES ARE BASED ON 75C INSU	JLATION RA	ATING	N DRAWING	s
OVERCURRENT DEVICE RATING (AMPS)	FEEDER	WIRE & CONDUIT SIZE (2 WIRE SYSTEM)	FEEDER CODE	WIRE & CONDUIT SIZE (3- WIRE SYSTEM)	FEEDER CODE	WIRE & CONDUIT SIZE (4-WIRE SYSTEM)
15	2F01	2#12 & 1#12GND IN 3/4°C	3F01	3#12 & 1#12GND IN 3/4°C	4F01	4#12 & 1#12GND IN 3/4°C
20	2FD1	2#12 & 1#12GND IN 3/4°C	3F01	3#12 & 1#12GND IN 3/4°C	4F01	4#12 & 1#12GND IN 3/4"C
25	2F02	2#10 & 1#10GND IN 3/4°C	3F02	3#10 & 1#10GND IN 3/4°C	4F02	4#10 & 1#10GND IN 3/4"C
30	2F02	2#10 & 1#10GND IN 3/4°C	3F02	3#10 & 1#10GND IN 3/4°C	4F02	4#10 8 1#10GND IN 3/4°C
35	2F03	2#8 & 1#10GND IN 3/4°C	3F03	3#8 & 1#10GND IN 3/4°C	4F03	4#1 & 1#10GND IN 3/4°C
40	2F03	2#8 & 1#10GND IN 3/4°C	3F03	3#8 & 1#10GND IN 3/4°C	4F03	4#8 & 1#10GND IN 3/4°C
45	2F03	286 & 1810GND IN 3/4°C	3F03	3#8 & 1#10GND IN 3/4°C	4F03	4#8 & 1#10GND IN 3/4"C
50	2F03	2#6 & 1#10GND IN 3/4°C	3F03	3#8 & 1#10GND IN 3/4°C	4F03	4#6 & 1#10GND IN 3/4°C
60	2F04	286 & 1810GND IN 3/4°C	3F04	3#6 & 1#10GND IN 1°C	4F04	4#6 & 1#10GND IN 1°C
70	2F05	284 & 188GND IN 1°C	3F05	3#4 & 1#8GND IN 1"C	4F05	484 & 188GND IN 1-1/2°C
80	2F05	284 & 188GND IN 1°C	3F05	3#4 & 1#8GND IN 1°C	4F05	484 & 1#8GND IN 1-1/2°C
90	2F06	2#3 & 1#6GND IN 1°C	3F06	3#3 & 1#8GND IN 1-1/2°C	4F06	4#3 & 1#8GND IN 1-1/2°C
100	2F06	2#3 & 1#8GND IN 1°C	3F06	3#3 & 1#8GND IN 1-1/2°C	4F06	4#3 & 1#8GNO W 1-1/2°C
110	2F07	2#2 & 1#6GND IN 1°C	3F07	3#2 & 1#6GND IN 1-1/2'C	4F07	4#2 & 1#6GNO IN 1-1/2°C

			LAKE PARK -	ILEX PARK						
			LIGHTING FIXTU	RE SCHEDULE						
DESIGNTAION PHOTO		MODEL NUMBER	DESCRIPTION		LAMPS			MOUNTING	REMARKS	
	MANUFACTURER			COLOR	LUMENS	POWER	VOLTS			
A	j	RAB	BLED-18-N-K-STAND-120	LED BOLLARD	3000K	2225	18W	120-277	GROUND	
B	T	RAB	ALED 5T-78-Y-K	EXTERIOR POLE MOUNTED	3000K	3646	78W	120-277	GROUND	MOUNT ON 15' POL PTR6-11-15WT



300 SE 2ND STREET, STE 600 ORT LAUDERDALE FL 33301 PHONE (954) 933-8246 www.bildworx.com

Florida Registration 32813

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Digitally signed by Raji Sayegh Date: 2023-12-11 11:41:15

RAJI SAYEGH - FL PE#78700

ILEX PARK
WEST ILEX DRIVE
8TH STREET
LAKE PARK, FL 33403

DRAWN: AH CHECKED: RS DATE: 11/28/202

PROJECT#:

ELECTRICAL RISER & SCHEDULES

E6.00