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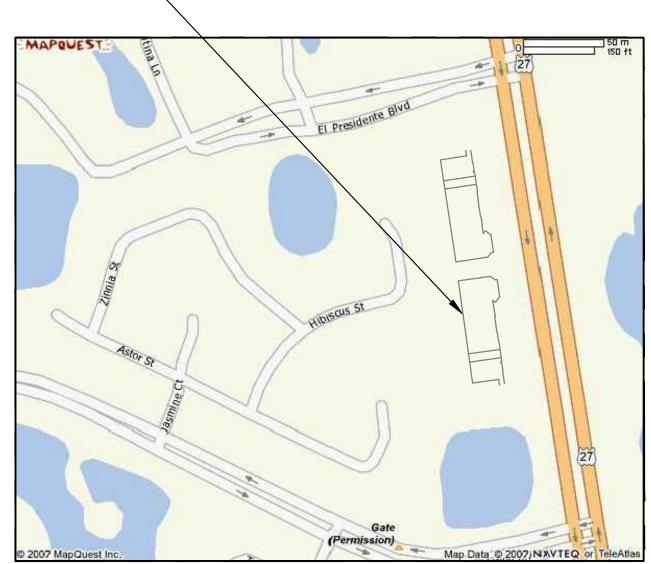
HWY 27 LEESBURG, FLORIDA

PLANTATIONPLAZA

ARCHITECT

JWB ARCHITECTS 2295 S HIAWASSEE RD **SUITE 304** ORLANDO, FLORIDA 32835 407.298.5020

PROJECT LOCATION



SITE MAP NOT TO SCALE

signage signage signage signage signage signage signage signage

SHEET INDEX

COVER SHEET

ARCHITECTURAL

A001 ARCHITECTURAL SITE PLAN A002 ENLARGED SITE PLAN SITE DETAILS OVERALL FLOOR PLAN OVERALL REFLECTED CEILING PLAN **ROOF PLAN** A200 LIFE SAFETY PLAN A201A MAIN FLOOR PLAN - AREA A A201B MAIN FLOOR PLAN - AREA B A202A REFLECTED CEILING PLAN - AREA A A202B REFLECTED CEILING PLAN - AREA B A301 ELEVATIONS **ELEVATIONS ELEVATIONS**

SECTIONS **SECTIONS SECTIONS** SCHEDULES AND DETAILS

SECTIONS

STRUCTURAL

FOUNDATION PLAN FOUNDATION PLAN ROOF FRAMING PLAN ROOF FRAMING PLAN UPPER ROOF PLAN UPPER ROOF PLAN **FOUNDATION DETAILS DETAILS & SECTIONS DETAILS & SECTIONS DETAILS & SECTIONS**

MECHANICAL

M100 LEGEND AND NOTES - HVAC M201 FLOOR PLAN - HVAC M301 DETAILS - HVAC

PLUMBING

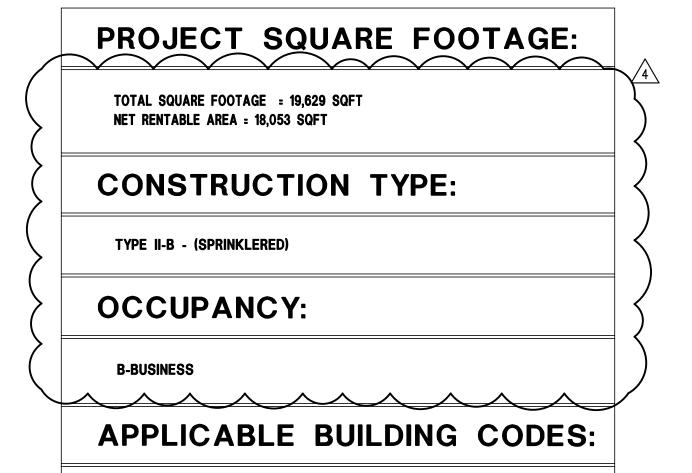
P100 LEGEND, NOTES AND SCHEDULES - PLUMBING P201 PLUMBING PLAN

ELECTRICAL

E100 ELECTRICAL LEGEND, NOTES & SPECS E200 LIGHTING PLAN

E300 POWER PLAN **E400 RISER & PANEL SCHEDULES**

CODE INFORMATION



• 2017 FBC, 6TH EDITION, BUILDING

• 2017 FBC, 6TH EDITION, EXISTING BUILDING

2017 FBC, 6TH EDITION, ACCESSIBILITY

2017 FBC, 6TH EDITION, MECHANICAL

• 2017 FBC, 6TH EDITION, PLUMBING

• 2017 FLORIDA FIRE PREVENTION CODE 6TH EDITION • 2014 NATIONAL ELECTRIC CODE

SCOPE OF WORK:

SCOPE OF WORK CONSIST OF A NEW CMU EXTERIOR WALL BUILDING (SHELL ONLY) WITH PLUMBING STUB-UPS FOR FUTURE UPFIT. NO INTERIOR WALL OR FLOOR FINISHES TO BE APPLIED.

GENERAL CONTRACTORS, INC.

GENERAL SPECIFICATION:

THE GENERAL CONTRACTOR SHALL SECURE ALL PAINT COLORS PLASTIC LAMINATE COLORS FLOOR FINISH COLORS AND TYPE FROM THE OWNER. THE GENERAL CONTRACTOR SHALL VISIT THE PROJECT SITE AND FAMILIARIZE HIMSELF WITH ALL

THE EXISTING CONDITIONS. ALL DIMENSIONS SHALL BE CALCULATED AND DRAWINGS SHALL NOT BE SCALED. QUESTIONS CONCERNING DIMENSIONING SHALL BE REFERED TO THE ARCHITECT. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL CODES HAVING JURISDICTION OVER

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AIA DOCUMENT A205 1993 EDITION GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION OF A SMALL PROJECT. FLOOR CONSTRUCTION SEE SHELL BUILDING PERMITTED DRAWINGS - BUILDING 12, SHEET S-1 PROVIDE MOISTURE AND HEAT MITIGATION WITHIN SUITE DURING SLAB CURING TIME PERIOD.

INSTALL WOOD BLOCKING SUFFICIENT TO CARRY THE LOADS APPLIED BY GRAB BARS HANGING CABINETS PLUMBING FIXTURES OR ANY SUCH APPLIED EQUIPMENT.

A. ROUGH CARPENTRY

1. WHERE INSTALLING BLOCKING FOR EQUIPMENT TO BE INSTALLED BY OTHERS WHERE LOCATIONS ARE NOT SUFFICIENTLY INDICATED ON DRAWINGS VERIFY THE EXACT LOCATION WITH

2. ROUGH HARDWARE: PROVIDE AND INSTALL ALL ROUGH HARDWARE AND METAL FASTENINGS OF SIZE AND TYPE REQUIRED FOR PROPER INSTALLATION AND CODE APPROVAL. ALL ROUGH HARDWARE SHALL EXCEED THE STRENGTH OF THE MEMBER ATTACHED. 5. ALL CONCEALED WOOD SHALL BE FIRE RESISTANT TREATED AS REQUIRED BY FBC CODE. B. FINISH CARPENTRY & MILLWORK:

1. FABRICATION AND INSTALLATION OF ALL CORNICE, MILLWORK, TRIM, PANELING AND

2. FURNISHING DOORS, WOOD TRIM AND FRAMES. AS SPECIFIED IN THE DOOR SCHEDULE.

1. ALL MOLDED MEMBERS AND TRIM SHALL BE MITERED AT OUTSIDE OR COPED AT INSIDE 2. SCRIBING MITERING AND JOINING SHALL BE COMPLETED ACCURATELY, NEATLY, AND TIGHT, REQUIRING NO OR VERY LITTLE FILLING.

3. APPLY DOOR HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FIT

ACCURATELY, APPLY SECURELY AND ADJUST CAREFULLY.

D. GYPSUM WALLBOARD ASSEMBLIES: 1. REFER TO WALL TYPES FOR ALL ASSEMBLIES OF WALLS

2. INSTALL ACCORDING TO MANUFACTURERS INSTRUCTIONS. 3. TILED OR WET AREAS TO HAVE WATER RESISTANT 5/8" GYP. BD. 4. FINISH JOINTS AND NAILHEADS WITH 3 COAT PERF-A-TAPE JOINT SYSTEM PROPERLY SANDED SCHEDULE. PERF-A-BEAD AT ALL EXTERNAL CORNERS OF 120 DEGREES OR GREATER.

DURA-BEAD AT ALL 90 DEGREE EXTERNAL CORNERS - NO. 200 A TRIM AT DISSIMILAR

1. ALL COLORS AS SPECIFIED IN THE FINISH SCHEDULE. 2. ALL MANUFACTURERS SPECIFIED ARE TO ESTABLISH COLOR, QUANTITY AND TYPE OF FINISH. COMPARABLE PRODUCTS OF OTHER MANUFACTURERS WILL BE FULLY CONSIDERED WITH APPROPRIATE SUBMITTALS. ALL PRODUCTS MUST BE MANUFACTURERS 1ST LINE QUALITY.

3. GYP. BD. WALL — LAVATORIES ONLY a. 1ST COAT - OLYMPIC, PRIMER/SEALER, TINT TO FINISH COLOR

b. 2ND COAT - OLYMPIC, EGGSHELL ENAMEL, COLOR AS SPECIFIED GYP. BD. WALLS, SOFFITS, BULKHEADS, ETC.

a. 1ST COAT - OLYMPIC, LATEX OR ACRYLIC PRIMER/SEALER, TINT TO FINISH COLOR b. 2ND COAT - OLYMPIC, EGGSHELL ENAMEL, COLOR AS SPECIFIED GYP. BD. WALL AND CEILING - RECEPTION, CORRIDOR, RESTROOM SHOWER, AND STEAM

b. 2ND COAT - SHERWIN WILLIAMS, LATEX, HIGH-GLOSS, OR AS NOTED, COLOR AS

a. 1ST COAT - SHERWIN WILLIAMS, LATEX OR ACRYLIC PRIMER/SEALER, TINT TO

4. WOODWORK AND TRIM a. 1ST COAT — ENAMEL UNDERCOAT

b. 2ND COAT - STAIN FINISH, COLOR AS SPECIFIED. SAND BETWEEN COATS AND CLEAN THOROUGHLY

> a. 1ST COAT - STAIN COLOR - MATCH ARCHITECTS SAMPLE b. 2ND COAT - SEALER, SAND

c. 3RD COAT - GLOSS SEALER, SAND d. 4TH COAT - SATIN FINISH COAT

5. APPLICATOR MUST EXAMINE AREAS AND CONDITION UNDER WHICH PAINTING WORK IS TO BE APPLIED AND NOTIFY CONTRACTOR IN WRITING OF CONDITIONS DETRIMENTAL TO PROPER AND TIMELY COMPLETION OF WORK. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. PROTECT CARPET AND OTHER FINISHES FROM SPILL AND SPATTERS. 6. DO NOT PAINT OVER DIRT, RUST, SCALE, GREASE, MOISTURE, DEFECTS OR CONDITIONS OTHERWISE DETRIMENTAL TO FORMATION OF A DURABLE, UNMARRED, UNBLEMISHED PAINT FILM. 7. PERFORM PREPARATION AND CLEANING PROCEDURES IN ACCORDANCE WITH PAINT MANUFACTURERS INSTRUCTIONS AND AS HERIEN SPECIFIED FOR EACH PARTICULAR SUBSTRATE

8. REMOVE HARDWARE, HARDWARE ACCESSORIES, PLATE, LIGHTING FIXTURES. AND SIMILAR ITEMS IN PLACE AND NOT TO BE FINISH PAINTED OR PROVIDE SURFACE APPLIED PROTECTION PRIOR TO SURFACE PREPARATION AND PAINTING OPERATIONS. REMOVE IF NECESSARY FOR COMPLETE PAINTING OF ITEMS AND ADJACENT SURFACES. FOLLOWING COMPLETION OF PAINTING OF EACH SPACE OF AREA, REINSTALL REMOVED ITEMS.

9. CLEAN SURFACES TO BE PAINTED BEFORE APPLYING PAINT OR SURFACE TREATMENTS. 10. PAINT APPLICATION TO WALLBOARD MAY BE BRUSH, ROLLER OR AIRLESS SPRAY OR

BRUSH. APPLY PAINT IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS. 11. APPLY ADDITIONAL COAT OR STAIN-KILL PRIMER WHEN STAINS OR OR OTHER CONDITION SHOWS TROUGH FINAL COAT OF PAINT UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. GIVE SPECIAL ATTENTION TO INSURE THAT SURFACES INCLUDING EDGES CORNERS CREVICES WELDS AND EXPOSED FASTENERS RECEIVE A DRY FILM THICKNESS EQUIVALENT TO THAT OF FLAT SURFACES.

12. APPLY FIRST COAT MATERIAL TO SURFACES THAT HAVE BEEN CLEANED PRETREATED OR OTHERWISE PREPARED FOR PAINTING AS SOON AS PRACTICAL AFTER PREPARATION AND BEFORE SUBSEQUENT SURFACE DETERIORATION.

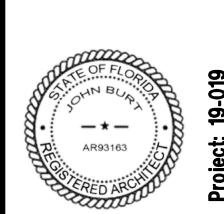
13. ALLOW SUFFICIENT TIME BETWEEN SUCCESSIVE COATING TO PERMIT PROPER DRYING. 14. MINIMUM COATING THICKNESS: APPLY MATERIALS AT NOT LESS THAN MANUFACTURERS RECOMMENDED SPREADING RATE.

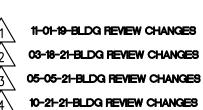
15. PRIME COATS: APPLY PRIME COAT OF PAINT TO MATERIAL WHICH IS REQUIRED TO BE PAINTED OR FINISHED AND WHICH HAS NOT BEEN PRIME COATED BY OTHERS. 16. UPON COMPLETION OF PAINTING WORK, REMOVE SPATTERED PAINT BY PROPER METHODS OF WASHING AND SCRAPING USING CARE NOT TO SCRATCH OR OTHERWISE DAMAGE

17. AT THE COMPLETION OF WORK OF OTHER TRADES, TOUCHUP AND RESTORE ALL DAMAGED OR DEFACED SURFACES.

F. SHEET VINYL AND VINYL BASE: 1. RUBBER WALL BASE TO BE INSTALLED IN ALL AREAS UNLESS SPECIFICALLY NOTED OTHERWISE IN DRAWINGS.

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ELECTRICAL LEGEND

ALL SYMBOLS MAY NOT BE USED ON PROJECT

DENOTES 2 X 4 LED LIGHT FIXTURE.

DENOTES SURFACE MOUNTED LED LIGHT FIXTURE

DENOTES RECESSED DOWNLIGHT. REFER TO LIGHTING

SCHEDULE FOR TYPE, SIZE AND WATTAGE.

DENOTES PENDANT FIXTURE

DENOTES WALL SCONCE

DENOTES WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH TWO (2) LAMPS AND BATTERY BACK-UP WIRED INTO BUILDING EMERGENCY SYSTEM.

DENOTES ILLUMINATED EXIT LIGHT FIXTURE. SHADED QUARTER (S) DENOTE ILLUMINATED FACE(S). ARROWS DENOTE DIRECTION.

DENOTES RECESSED WALL MOUNTED AUDIO/STROBE COMBINATION ALARM TIED INTO EXISTING FIRE ALARM SYSTEM MOUNTED AT 80" A.F.F.

FIRE ALARM AREA SMOKE DETECTOR

DENOTES RECESSED WALL MOUNTED STROBE TIED INTO EXISTING FIRE ALARM SYSTEM MOUNTED AT 80" A.F.F.

DENOTES WALL MOUNTED OCCUPANCY SENSOR

DENOTES CEILING MOUNTED OCCUPANCY SENSOR

DENOTES EXHAUST FAN (MINIMUM TWO(2) C.F.M. PER SQUARE FOOT OF FLOOR AREA) WITH ON/OFF LIGHTED PILOT SWITCH.

⊢ω- DENOTES LIGHT SWITCH MOUNTED AT 48" A.F.F.

DENOTES THREE WAY LIGHT SWITCH MOUNTED AT 48" A.F.F.

DENOTES GANG OF LIGHT SWITCHS UNDER SINGLE COVERPLATE. LETTERS DESIGNATE LIGHTING ZONES. NUMERALS INDICATE AMOUNT OF SWITCHES. SUB SCRIPT "D" INDICATES DIMMER SWITCHES.

DIMMER SWITCH

DUPLEX RECEPTACLE - MOUNTED 15" AFF TO BOTTOM, PER FACBC UNLESS NOTED OTHERWISE (GFI) GROUND FAULT INTERRUPTING

(WP) WEATHERPROOF WTIH GFI

SDI SDI JACK. REFER TO CLIENT SPECIFICATIONS.

DUPLEX RECEPTACLE ABOVE COUNTER. SEE CASEWORK PLANS.

DOUBLE DUPLEX RECEPTACLE - MOUNTED 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE

DUPLEX USB RECEPTACLE-DUPLEX RECEPTACLE WITH 2 USB PORTS

SPECIAL PURPOSE RECEPTACLE. SEE PLAN NOTES.

COMMUNICATIONS/DATA OUTLET - MOUNTED 18" AFF TO C.L. U.N.O. TYPICAL RUN 1" CONDUIT TO ACCESSABLE CEILING SPACE. PROVIDE 2 GANG BOX WITH ONE GANG RING (TYPICAL).

PHONE OUTLET - MOUNTED 18" AFF TO C.L. U.N.O. TYPICAL RUN 1" CONDUIT TO ACCESSABLE CEILING SPACE.

PHONE OUTLET - MOUNTED ABOVE COUNTER
TYPICAL RUN 1" CONDUIT TO ACCESSABLE CEILING SPACE.

SOLID LINE INDICATES EQUIPMENT ON COMMON CIRCUIT AND/OR CONTROLLED BY COMMON SWITCH. PROVIDE NECESSARY SWITCH LEGS IN CONDUIT TO ACHIEVE SWITCHING INDICATED ON PLANS.

DOTTED LINE INDICATES EQUIPMENT ON A COMMON CIRCUIT BUT NOT CONTROLLED ON SAME SWITCH DEVICE.

TRANSIENT VOLTAGE SURGE PROTECTOR. SEE SPECS.

• FIRE ALARM PULL STATION

NEW ELECTRICAL PANEL

ELECTRICAL SPECIFICATIONS

SECTION 16010 - ELECTRICAL GENERAL PROVISIONS

1. ALL WORK AND EQUIPMENT SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:

A. FBCB 2017 B. NEC 2014

2. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECT, EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS TO BE RECONNECTED OR REUSED.
3. ALL SYSTEMS SHALL BE TESTED FOR PERFORMANCE VERIFICATION IN THE PRESENCE OF THE OWNER.
4. VISIT THE JOBSITE PRIOR TO BID AND EXAMINE THE EXISTING CONDITIONS. INCLUDE ALL MATERIAL AND LABOR FOR A COMPLETE INSTALLATION.
5. COORDINATE THE INSTALLATION WITH OTHER TRADES TO MAINTAIN PROPER WORKING CLEARANCES AND FIRE RATINGS. VERIFY EQUIPMENT RATINGS PRIOR TO ORDERING MATERIALS. CHECK VOLT/AMP RATINGS, AND MOUNTING/TRIM REQUIREMENTS. IF THERE ARE INCONSISTENSISTIES, GET CLARIFICATION. PRIOR TO ORDERING MATERIALS OR ROUGH-IN.

SECTION 16500 - LIGHTING

1. EXIT SIGNS SHALL BE PROVIDED WITH ARROWS AND FACES TO MATCH FIELD CONDITIONS AND SO AS TO BE CLEARLY VISIBLE FROM ANY LOCATION WITHIN THE ROOM, AS REQUIRED BY CODE.

2. LIFE SAFETY LIGHTING AND SIGNS SHALL BE PROVIDED WITH UNIT BATTERY EQUIPMENT AND CONNECTED TO THE ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.

3. LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SEPARATELY SUPPORTED FROM THE STRUCTURE ABOVE PER FIELD TECHNICAL INFORMATION #40. FIXTURES WEIGHING LESS THAN TEN POUNDS SHALL HAVE ONE 12-GUAGE HANGERWIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. FIXTURES WEIGHING MORE THAN TEN POUNDS SHALL HAVE TO 12-GUAGE WIRES ATTACHED AT OPPOSING CORNERS OF THE FIXTURE.

SECTION 16050 - ELECTRICAL BASIC MATERIALS AND METHODS

1. COLOR FOR PLATES AND DEVICES SHALL BE AS DIRECTED BY THE ARCHTECT 2. OUTDOOR DEVICE BOXES SHALL BE CAST FS TYPE WITH GASKETED COVERS, UNLESS INDICATED OTHERWISE. PVC IS APPROVED WITHIN CONCRETE WALLS.

3. WIRE SHALL BE COPPER UNLESS NOTED OTHERWISE ON THE PLANS, HEAT AND MOISTURE RESISTANT, TYPE THWN WITH A 600 VOLT RATING.

4. MINIMUM WIRE SIZE IS #12 FOR POWER CIRCUITS. RUN #10 MINIMUM HOMERUN FOR CIRCUITS LONGER THAN FIFTY FEET AS MEASURED FROM THE LAST JUNCTION BOX.

5. FOR DEVICES LOCATED ON OPPOSITE SIDES OF A FIRE RATED WALL, SPACE DEVICES NOT LESS THAN 24 INCHES APART.
6. ELECTRICAL BOXES SHALL GENERALLY BE 1 1/2" DEEP, 4" SQUARE METAL BOXES WITH APPROPRIATE PLASTER RINGS OR COVERS. ELECTRICAL BOXES WHERE "HOME RUN" CONDUITS TERMINATE AT THE FIRST DEVICE OR J-BOX

6. ELECTRICAL BOXES SHALL GENERALLY BE 1 1/2" DEEP, 4" SQUARE METAL BOXES WITH APPROPRIATE PLASTER RINGS OR COVERS. ELECTRICAL BOXES WHERE "HOME RUN" CONDUITS TERMINATE AT THE FIRST DEVICE OR J-BOX SHALL BE 2 1/8" DEEP SQUARE METAL.

7. ALL RECEPTACLES SHALL BE 20A COMMERCIAL GRADE AND SHALL BE TAMPER RESISTANT. ALL GENERAL USE RECEPTACLE CIRCUITS SHALL BE 20A, GFCI TYPE. RECEPTACLES SHALL NOT HAVE OTHER DEVICES CONNECTED TO THEIR LOAD SIDE UNLESS SPECIFICALLY NOTED. ALL RECEPTACLES SHOWN TO BE WEATHERPROOF SHALL BE LISTED AS WEATHER RESISTANT AND SHALL BE FITTED WITH WEATHERPROOF WHILE IN USE COVERS.

8. ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF TO CENTER UNLESS OTHER WISE NOTED. LIGHT SWITCHES SHALL BE MOUNTED AT +46" AFF TO CENTER UNLESS OTHERWISE NOTED.

9. ALL SWITCHES SHALL BE COMMERCIAL GRADE. ALL DEVICE FACE PLATES SHALL BE NYLON. DEVICES SHALL NOT BE DECORA STYLE.

WEATHERPROOF WHILE IN USE COVERS.

10. ALL CONDUIT "HOME RUNS" WHICH TERMINATE AT THE PANEL SHALL BE 3/4" EMT IF RUN ABOVE SLAB AND 3/4" PVC-40 IF RUN UNDERGROUND UNLESS OTHERWISE NOTED. WHERE THESE "HOME RUN" CONDUITS CARRY MULTIPLE CIRCUITS, THE NEUTRALS ASSOCIATED WITH EACH CIRCUIT SHOULD IDENTIFY THE HOT WIRE

IT IS ASSOCIATED WITH.

11. THE MINIMUM CONDUIT SIZE SHALL BE 3/4".

SHALL BE 2 1/8" DEEP SQUARE METAL.

11. THE MINIMUM CONDUIT SIZE SHALL BE 3/4".

12. LIGHTING FIXTURES SHALL BE AS SCHEDULED WITHOUT SUBSTITUTIONS. IF SUBSTITUTIONS ARE REQUIRED IN ORDER TO MEET LOCAL CODES OR REQUIREMENTS, SUBMIT CUT SHEETS OF THE PROPOSED ALTERNATE FIXTURES AND LAMPS TO THE ENGINEER FOR EVALUATION PRIOR TO PURCHASING THE FIXTURES.

13. THERE SILL BE NO SHARED NEUTRALS. EACH NEUTRAL SHOULD INCLUDE A COLOR STRIPE MATCHING THE PHASE CONDUCTOR IT IS ASSOCIATE WITH.

14. PROVIDE WIRE TIES IN THE PANEL FOR THE GROUNDED AND UNGROUNDED WIRES OF MULTI-WIRE BRANCH CIRCUITS.

SECTION 16030 - ELECTRICAL DEMOLITION

1. REMOVE AND DISPOSE OF ALL MATERIALS ABANDONED OR DEMOLISHED DURING CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS.
2. EXISTING CIRCUITS, SUCH AS THOSE FEEDING HVAC, AND OTHER SYSTEMS THAT MAY REASONABLY BE EXPECTED TO REMAIN IN PLACE SHALL BE PROTECTED DURING CONSTRUCTION AND SHALL BE OPERATIONAL AT COMPLETION OF THIS PROJECT. MEET WITH THE OWNER/USER TO DETERMINE EQUIPMENT EXPECTED TO REMAIN IN PLACE, PRIOR TO BEGINNING DEMOLITION.
3. ALL KNOWN CODE VIOLATIONS HAVE BEEN ADDRESSED FOR UP-GRADE TO CURRENT SAFE STANDARDS IN THESE PLANS. IF DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION, OTHER CODE VIOLATIONS OR SAFETY ISSUES ARE DISCOVERED, ADVISE THE OWNER AND ENGINEER IMMEDIATELY, IN WRITING.

SECTION 16111 - CONDUITS

1.01 GENERAL

A. MC/ARMORED CABLE IS ACCEPTABLE. ANY WIRE OR CABLE IN CONDUIT SHALL BE SHALL BE STANDARD HEAVY WALL, INTERMEDIATE, OR ELECTRIC METALLIC TUBING (EMT). RIGID PVC CONDUIT MAY BE USED FOR UNDERGROUND WORK AND INSIDE FOR REWIRE OF LIGHTING IF APPROVED BY LOCAL CODE.

1.02 PRODUCTS

A. RIGID CONDUIT: THICK WALL HOT-DIPPED GALVANIZED, ASA STANDARD SPECIFICATION NO. C80-1, ENAMELED INSIDE AND OUT JOINTS SHALL BE WATERTIGHT THREADED TYPE WITH APPROVED SEALANT APPLIED TO MALE THREADS.

B. ELECTRIC METALLIC TUBING (EMT): ELECTRO-GALVANIZED, ANSI STANDARD SPECIFICATION NO. C80-3, ENAMELED INSIDE AND OUT. FITTINGS SHALL BE ALL STEEL COMPRESSION TYPE AS MANUFACTURED BY T & B.

C. RIGID STEEL AND EMT CONDUITS AS MANUFACTURED BY YOUNGSTOWN, TRIANGLE, GENERAL ELECTRIC, NATIONAL, REPUBLIC, OR ALLIED.

D. SCHEDULE 40 PVC CONDUIT, USED FOR UNDERGROUND INSTALLATION, SHALL BE AT LEAST 2 FEET BELOW FINISH GRADE. ALL JOINTS SHALL BE WATERTIGHT. WHERE STUBBED UP THROUGH FLOOR, SLAB OR ABOVE GRADE, A 90° RIGID GALVANIZED ELBOW SHALL BE USED WITH RIGID GALVANIZED STUB UP TO 2 INCHES ABOVE GRADE. A BARE GROUND WIRE TO MEET CODE REQUIREMENTS SHALL BE INSTALLED WITH ALL CIRCUITS PULLED INTO PVC CONDUITS. CONDUIT SHALL BE AS MANUFACTURED BY CARLON. JOINT SEALANT SHALL BE AS PER MANUFACTURER'S RECOMMENDATION FOR SPECIAL PIPE.

E. CONDUIT SUPPORTS: ALL CONDUITS SHALL BE SECURED IN PLACE WITH APPROVED STRAPS, HANGER, OR CLAMPS PER NEC. NO WIRE FOR SUPPORT WILL BE ALLOWED.

F. FLEXIBLE CONDUIT: CONDUIT CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT SHALL BE MADE WITH 18-INCH MAXIMUM OF TYPE U.S. GRAY LIQUID AND TIGHT NEOPRENE JACKETED FLEXIBLE CONDUIT AS MANUFACTURED BY ANACONDA. FITTINGS SHALL BE LIQUID TIGHT INSULATED THROAT TYPE AS MANUFACTURED BY T. & B. BX WILL NOT BE PERMITTED.

SECTION 16120 - WIRES AND CABLES

1.01 GENERAL

A. ALL WIRES SHALL BE NEW SOFT DRAWN, ANNEALED COPPER HAVING CONDUCTIVITY NOT LESS THAN 98% OF PURE COPPER AND WITH 600V THERMO-PLASTIC INSULATION. WIRE SHALL CONFORM TO THE LATEST REQUIREMENT OF THE NEC, MEET ASME AND ANSI SPECIFICATIONS AND SHALL BE STANDARD AWG SIZE.

1.02 PRODUCTS

A. LIGHTING AND RECEPTACLE, BRANCH MOTOR POWER AND PANEL FEEDERS CIRCUITS SHALL HAVE TYPE THHN/THWN/MTW INSULATION BUILDING WIRE. ALL CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS OR UNDER GRADE SHALL HAVE INSULATION MEETING NEC. ALL WIRING INSTALLED IN HIGH-TEMPERATURE AREAS SHALL HAVE TYPE AVA INSULATION.

B. AC, MC, BX CABLES PERMITTED AS ALLOWED BY LOCAL CODE. MC CABLE ALLOWED FOR TERMINATING LIGHTING FIXTURES IN SUSPENDED CEILINGS.

C. ALL MAINS AND FEEDERS ARE TO RUN THE ENTIRE LENGTH IN CONTINUOUS PIECES WITHOUT JOINTS OR SPLICES. JOINTS IN BRANCH CIRCUITS SHALL OCCUR ONLY AT OUTLETS AND J BOXES WITH NO SPLICES OR TAPS IN CONDUITS.

D. PHASE COLORS PER ELECTRICAL STANDARDS.

SECTION 16610-SURGE PROTECTION-TVSS

1. PROVIDE SURGE PROTECTIVE DEVICES (SPD) WHERE SHOWN ON PLANS AND ONE-LINE DIAGRAM. DEVICES SHALL BE PER UL 1449 3RD EDITION, TYPE 1 AT SERVICE ENTRANCE, TYPE 2 AT PANELS. TYPE 3 POINT OF USE SPD, SUCH AS FOR FACP, ARE PROVIDED BY EQUIPMENT VENDOR, U.N.O.

2. PROTECTORS FOR BRANCH CIRCUIT PANEL BOARDS MAY BE FACTORY INSTALLED WITHIN THE PANEL OR MAY BE CLOSE NIPPLED TO THE SIDE OF THE PANEL WITH CONNECTING LEADS LESS THAN 18 INCHES LONG AND WITH NO SHARP BENDS.

3. PROVIDE L-L, L-N, N-G PROTECTION MODES WITH 75KA PER PHASE.

GENERAL NOTES:

 ALL WORK SHALL COMPLY WITH CODES AND STANDARDS LISTED IN THE SPECIFICATIONS.

2. THE DRAWINGS ARE DIAGRAMATIC AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.

3. NOTIFY ARCHITECT/ ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO CUTTING OPENING.

4. PRIOR TO BID, COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL WORK AND OTHER TRADES. SEE SPECIFICATIONS FOR REQUIREMENTS.

5. CONTRACTOR SHALL NOT CONCEAL ANY WORK UNTIL INSPECTED BY ELECTRICAL INSPECTOR AND/OR ARCHITECT/ENGINEER. CONTRACTOR SHALL NOTIFY A/E OF A SCHEDULED INSPECTION TIME WITHIN 72 HOURS. CONTRACTORS SHALL NOT CONCEAL WORK UNTIL APPROVED

6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR ON REQUIREMENTS FOR STRUCTURAL SUPPORT AND FRAMING FOR ALL ELECTRICAL EQUIPMENT AND SYSTEMS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND VERIFYING STRUCTURAL SUPPORT AND FRAMING.

7. THE SIZE, LOCATION, WEIGHT, AND NEC ARTICLE 110/384 REQUIRED SERVICE CLEARANCES OF EQUIPMENT INSTALLED UNDER DIVISION 16 ELECTRICAL SHALL BE COORDINATED WITH ALL OTHER TRADES.

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE
IS A POSSIBILITY OF CONFLICT BETWEEN TRADES,
CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING
THE EXACT LOCATION OF DUCTS, CONDUIT AND
EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD
MEASUREMENTS AND, AFTER CONSULTATION AND AGREEMENT
BETWEEN THE TRADES, SHALL BE APPROVED BY THE
ARCHITECT BEFORE INSTALLATION OF THE WORK.

9. ELECTRICAL CONTRACTOR IS TO PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT AND RACEWAYS WITH LABELING TAGS AT EACH END.

10. DO NOT SCALE FROM THESE DRAWINGS. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS.

11. ALL SERVICE EQUIPMENT MUST BE LEGIBLY FIELD MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT, INCLUDING THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED NEC 110.24(A) AND 110.24(B)

12. ALL RACEWAYS SHALL HAVE A GREEN GROUNDING CONDUCTOR.

13. ALL WIRE AND CONDUIT SIZES SHOWN ARE BASED ON THE LENGTH OF THE ASSUMED ROUTING OF THE WIRE AND CONDUIT AND VOLTAGE DROP COMPLIANCE. CONTRACTOR SHALL VERIFY THE WIRE AND CONDUIT SIZE BASED ON THE ACTUAL LENGTH OF THE ROUTE AND ADJUST AS REQUIRED MEETING ALL REQUIRED VOLTAGE DROPS.

14. ALL NEW BREAKERS IN EXISTING PANELS SHALL HAVE AN AIC RATING EQUAL TO OR GREATER THAN THE HIGHEST RATED BREAKER IN THAT PANEL.

15. CONTRACTOR SHALL FIRESTOP ALL NEW AND EXISTING ELECTRICAL PENETRATIONS IN FIRE RATED PARTITIONS (WALLS, FLOORS OR CEILINGS) WITH AN APPROVED FIRESTOP SYSTEM RATED FOR THE APPLICATION. FIRESTOP SYSTEM SHALL BE UL LISTED AND INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

16. EC SHALL FURNISH AND INSTALL EXPANSION JOINTS AT ALL LOCATIONS WHERE BUILDING EXPANSION JOINTS ARE USED.

17. COORDINATE ALL MECHANICAL LOADS, VOLTAGES AND

LOCATIONS WITH MECHANICAL CONTRACTOR AND MAKE

NECESSARY ADJUSTMENTS WITHOUT EXTRA CHARGES.

18. EC MAY INSTALL MULTIPLE CIRCUITS INDICATED ON PANEL SCHEDULE IN A SINGLE CONDUIT. EC SHALL BE RESPONSIBLE FOR VERIFYING CONDUIT FILL AND CONDUCTOR DERATING.

22. NO SPLICES SHALL BE PERMITED IN UNDERGROUND/ FLUSH IN-GRADE PULL BOXES WITHOUT PRIOR WRITTEN APPROVAL BY OWNER.

23. ANY REDUCTION IN CABLE SIZE TO FIT ON LUGS IS THE RESPONSIBILITY OF THE CONTRACTOR IF CALLED FOR ON THE DRAWINGS OR NOT.

ARCHITECTS
LIC. # AA26001266

2 2 9 5 S. HIAWASSEE RD.

Owner:

SPE

ALI JAWAD

ORLANDO, FLORIDA 32835

PH:407.298-5020 FX:407.298-5030

L LEGEND, NOTES

PLANTATION PLAZA

LEESBÜRG, FLORIDA

John W. Burt - AR9316

Architect of Record:

ELECTRIC

evisions:

LAKE COUNTY BUILDING SERVICES

This document must be on jobsite for inspections.

This document was reviewed for code compliance; this does

not relieve the applicant from correcting errors and omissions

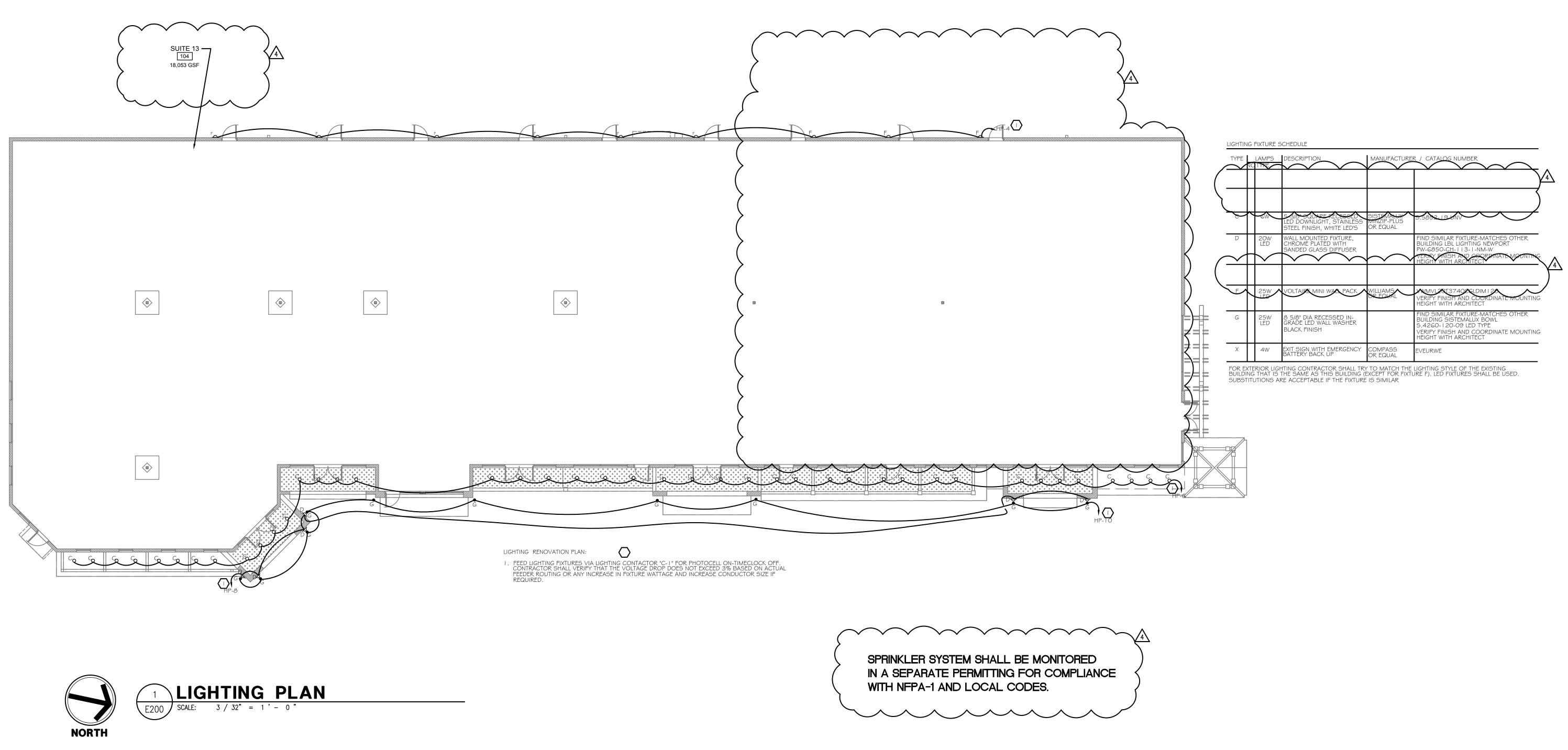
and complying with the current Florida Building Code.

Date: Drawn By: 06-05-2019 RR

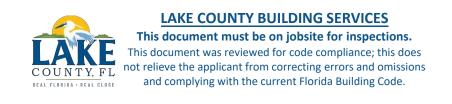
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ALI JAWAD

LIGHTING PLAN
PLANTATION PLAZA

Architect of Record: John W. Burt - AR93163

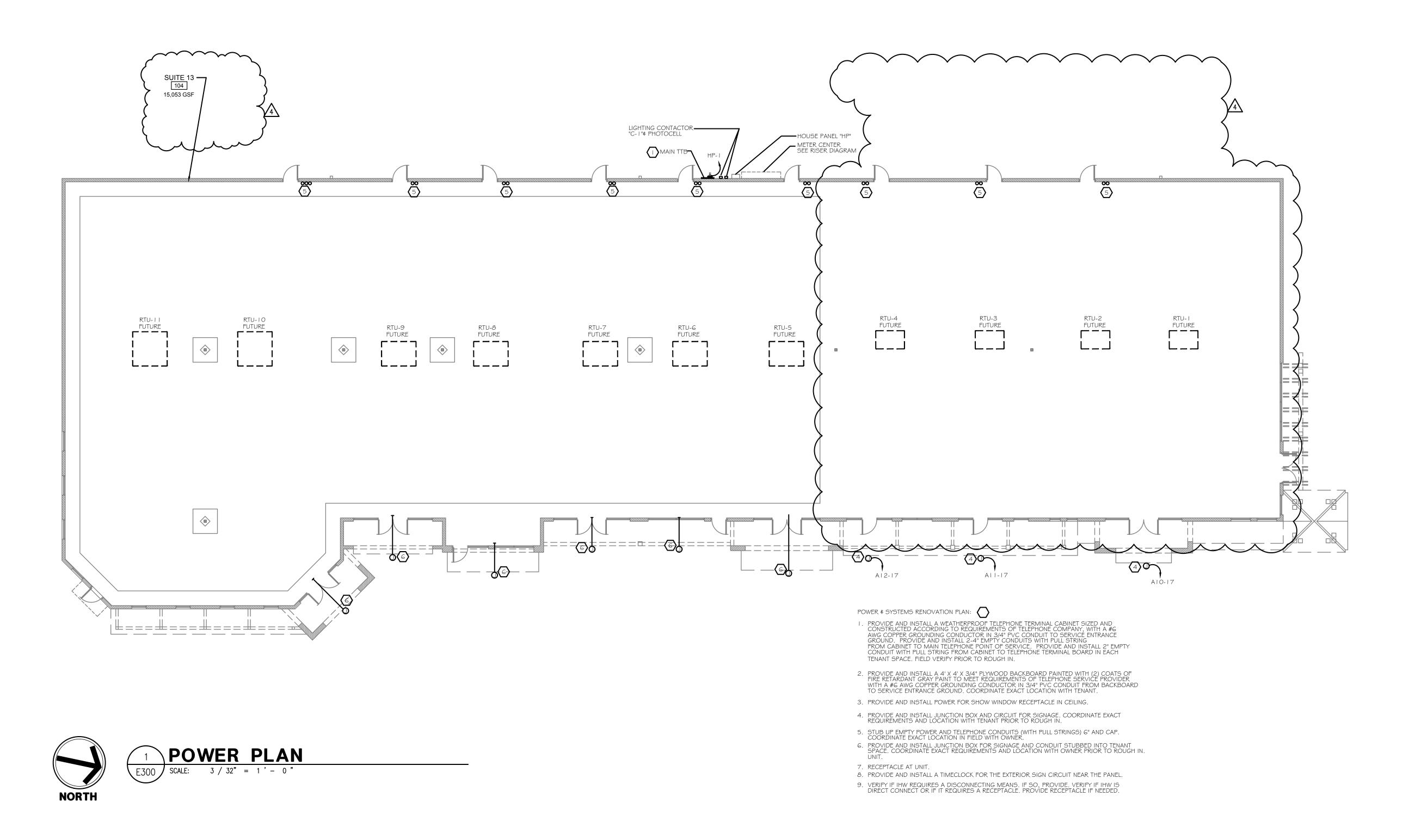
Revisions:

4 10-21-21-BLDG REVIEW CHANGES

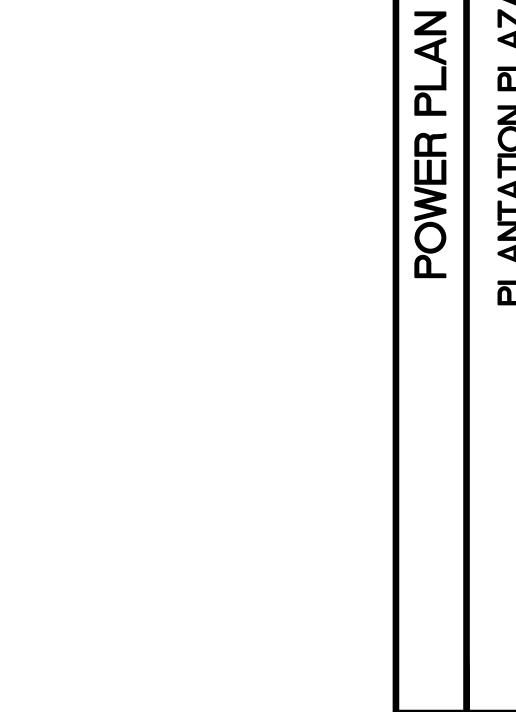
Date:Drawn By:Checked06-05-2019RRJWB

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ALI JAWAD

Architect of Record: John W. Burt - AR93163

10-21-21-BLDG REVIEW CHANGES

06-05-201 RR

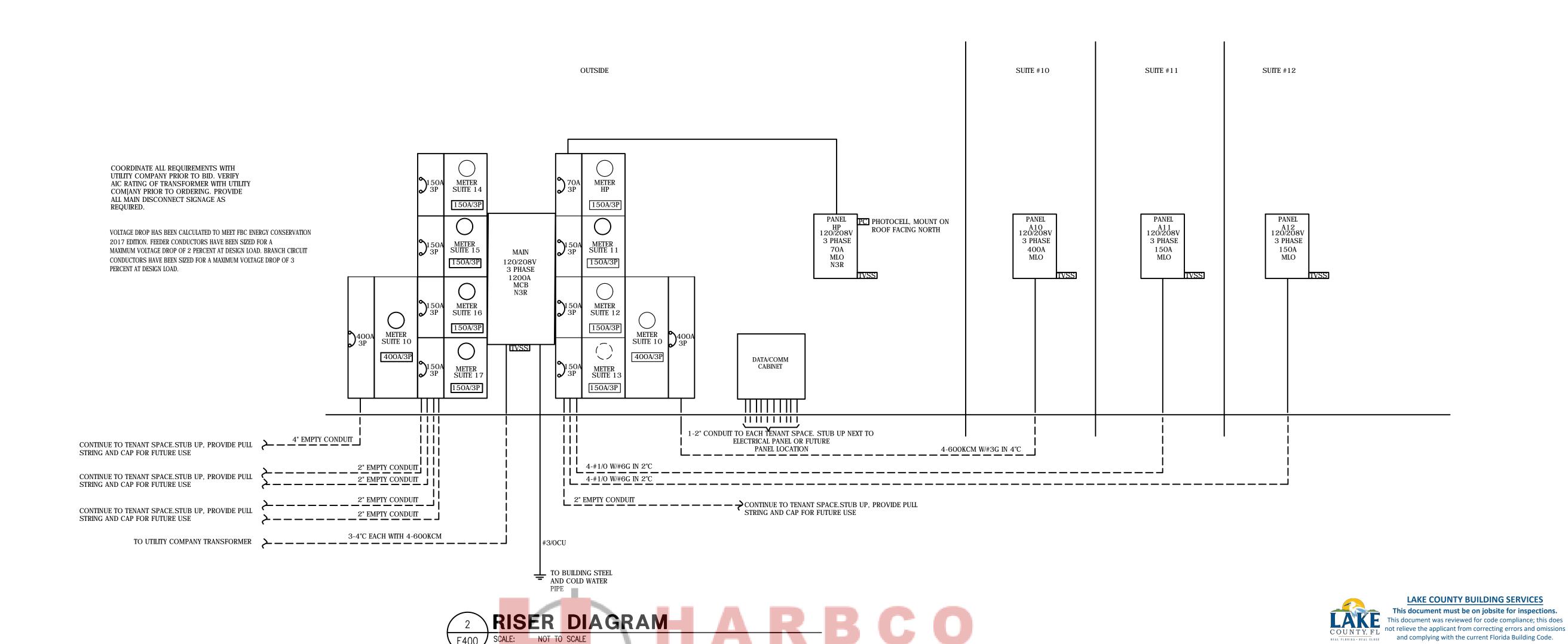
Project No. 19-019

	PANEL:	HP					NEV	/						
VOLTAGE: 120/208V MOUNTING:					PHAS		3 24			MAIN: SMD/M AIC:	LO:	70A MLO		
	SOURCE:		SPACES: 24 AIC: SEC								25.2KVA	- - -		
CKT.	EQUIPMENT	KVA	COND	WIRE	СВ	POLE	POLE	CB	WIRE	COND	KVA	EQUIPMENT	СКТ	
1	TTB CABINET REC	1	3/4	12	20	1	1	20	12	3/4	0.24	LIGHTING CONTROL	2	
3	SPARE				20	1	1	20	12	3/4	0.225	LIGHTS	4	
5	SPARE				20	1	1	20	12	3/4	0.252	LIGHTS	6	
7	SPA RE				20	1	1	20	12	3/4	0.12	LIGHTS	8	
9	SPARE				20	1	1	20	12	3/4	0.2	LIGHTS	10	
11													12	
13													14	
15													16	
17													18	
19							3	30				TVSS	20	
21								30				""	22	
23								30				IIII	24	
	PHASE A PHASE B	1.36 0.425	-								2.0	CONNECTED KV	4	
	PHASE C													

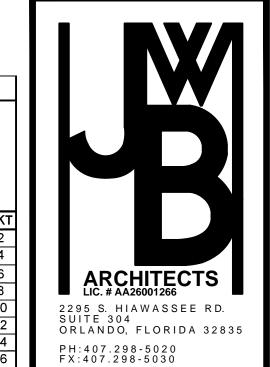
	PANEL:	A10					NEV	V						
	VOLTAGE: MOUNTING:	120/2	V802		PHAS		3			MAIN: SMD/MI	LO:	400A MLO	_	
	MANUFACTURER				SPAC		42			AIC:				
	SOURCE:			_	TYPE	:				SECTIO	N			
										CAPAC	ITY	144KVA		
CKT.	EQUIPMENT	KVA	COND	WIRE	СВ	POLE	POLE	СВ	WIRE	COND	KVA	EQUIPMENT	CK.	
1	RECEPTACLES	1.08	3/4	12	20	1	1	20	12	3/4	1	LIGHTS	2	
3	RECEPTACLES	1.08	3/4	12	20	1	3	60	6	1	6.84	RTU-2	4	
5	RECEPTACLES	1	3/4	12	20	1		60	6	1	6.84	1991	6	
7	TTB RECEPT	1	3/4	12	20	1		60	6	1	6.84	F111	8	
9	SHOW WINDOW REC	1	3/4	12	20	1	1	20	12	3/4	0.4	ROOF RECEPT	10	
11	EWC	0.6	3/4	12		1	3	60	6	1	6.84	RTU-1	12	
13	IHW	1.8	3/4	12	15	1		60	6	1	6.84	6111	14	
15	RR RECEPT	0.36	3/4	12	20	1		60	6	1	6.84	****	16	
17	SIGN	1.2	3/4	12	20	1	1	20	12	3/4	0.4	LIGHTS	18	
19	IVH	1.8	3/4	12	15	1							20	
21	SHOW WINDOW REC	0.54	3/4	12	20	1							22	
23	RECEPTACLES	0.54	3/4	12	20	1							24	
25													26	
27 29							1	20				SPARE	28 30	
31							1	20				SPARE	32	
33						<u> </u>	1	20				SPARE	34	
35							1	20				SPARE	36	
37							3	30			***************************************	TVSS	38	
39								30				****	40	
41	1							30			F 4 4	""	42	
	PHASE A									54.8	CONNECTED KV	<u> </u>		
	PHASE B													
	PHASE C	17.438												

	PANEL:	A11 NEW											PANEL:	A12					NEV	V							
	VOLTAGE: MOUNTING: MANUFACTURER SOURCE:	120/208V JRER		PHA:		PHASE: 3 SPACES: 30 TYPE:				MAIN: SMD/M AIC: SECTIC CAPAC)N	150A MLO 54KVA	- - -	VOLTAGE: MOUNTING: MANUFACTURER SOURCE:			120/208V			E: ES: :	3 42			MAIN: SMD/MI AIC: SECTIO CAPAC	N	150A MLO 54KVA	
1	CKT. EQUIPMENT	KVA	COND	WIRE	СВ	POLE	POLE	СВ	WIRE	COND	KVA	EQUIPMENT	СКТ	CKT	. EQUIPMENT	KVA	COND	WIRE	CB	POLE	POLE	CB	WIRE	COND	KVA	EQUIPMENT	CKT
1	1 RECEPTACLES	1.08	3/4	12	20	1	1	20	12	3/4	1	LIGHTS	2	1	RECEPTACLES	1.08	3/4	12	20	1	1	20	12	3/4	1	LIGHTS	2
	3 RECEPTACLES	1.08			20	1	3	60	6	1	6.84	RTU	4		RECEPTA CLES	1.08			20	1	3	60	6	1	6.84	RTU	4
	5 RECEPTACLES	1			20	1		60	6	1	6.84		6	5	RECEPTACLES	1			20	1		60	6	1	6.84	17**	6
	7 TTB RECEPT	1			20	1		60	6	1	6.84		8	7	TTB RECEPT	1			20	1		60	6	1	6.84	FFFF	8
	9 SHOW WINDOW REC	1			20	1	1	20	12	3/4	0.4	ROOF RECEPT	10		SHOW WINDOW REC	1			20	1	1	20	12	3/4	0.4	ROOF RECEPT	10
	11 EWC	0.6											12		EWC	0.6											12
	13 IHW	1.8											14		IHW	1.8											14
	15 RR RECEPT	0.36											16		RR RECEPT	0.36											16
	17 SIGN	1.2											18		SIGN	1.2											18
	19						1	20				SPARE	20	19							1	20				SPARE	20
	21						1	20				SPARE	22	21							11	20	ļ		***************************************	SPARE	22
	23						1	20				SPARE	24	23						1	1	20				SPARE	24 26
	25						3	30				TVSS	26	25 27					-	-	3	30 30				TVSS	28
-	27 29							30 30				""	28 30	29								30				1111	30
_	PHASE A	11.72			İ			30			31 (CONNECTED KV			PHASE A	11.72		I	ı			- 00	1		31.0	CONNECTED K	
	PHASE B	9.64	_								<u> </u>	COMILECTEDING			PHASE B	9.64	1							ľ			***************************************
	PHASE C	9.64	-												PHASE C	9.64	1										
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GENERAL CONTRACTORS, INC.



ner: ALI JAWAD

PLANTATION PLAZA

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RISER

Architect of Record: John W. Burt - AR93163

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ate: Drawn By: Checked By: -05-2019 RR JWB

Project No. 19-019

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