

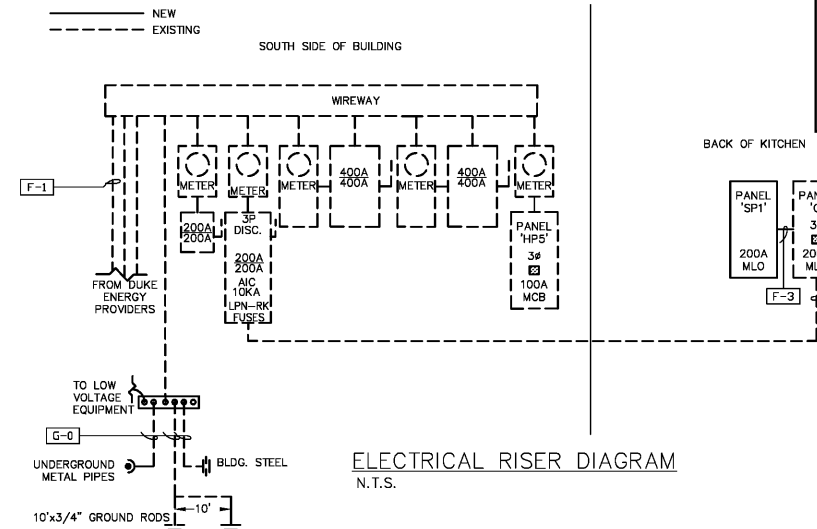
GENERAL ELECTRICAL NOTES:

- ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2014 EDITION (NEC), 2017 FLORIDA BUILDING CODE AND THE LATEST EDITIONS OF ALL LOCAL CODES, RULES, ORDINANCES AND AUTHORITIES HAVING JURISDICTION. COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORY, INC. (U.L.) WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
- ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
- IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
- IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATION TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- MAINTAIN RECORD DRAWINGS (AS-BUILTS) ON A DAILY BASIS. SUBMIT 3 COPIES TO ARCHITECT 5 WORKING DAYS PRIOR TO ANY REQUIRED INSPECTIONS. SUBMIT RECORD DRAWINGS TO OWNER WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, INCLUDING RISE AND FLOOR PLANS.
- PROVIDE 5 SETS OF SHOP DRAWINGS FOR APPROVAL. NO EQUIPMENT TO BE ORDERED BEFORE SHOP DRAWINGS ARE APPROVED.
- PROVIDE OPERATING AND MAINTENANCE (O&M) MANUALS TO THE OWNER FOR ALL EQUIPMENT REQUIRING MAINTENANCE, ALONG WITH APPROVED SHOP DRAWINGS. SUBMITTAL TO OWNER SHALL INCLUDE EQUIPMENT RATING, SELECTED OPTIONS AND ROUTINE MAINTENANCE REQUIREMENTS. ALSO PROVIDE CONTACT INFORMATION FOR ONE QUALIFIED SERVICE AGENCY.
- POWER TO BE ON CONTINUOUSLY 5 WEEKS PRIOR TO COMPLETING PROJECT.
- ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY DISCREPANCIES AT ONCE. FAILURE TO DO SO AND CONTRACTOR PRECEEDS AT HIS OWN RISK.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS, AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AND UNUSED MATERIALS AT ALL TIMES AND SHALL EXCLUDING CONTROL WIRING. MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A CONDUIT TO BE INSTALLED PER NEC 310(B)(2).
- WIRE WAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED (UON).
- ALL CONDUITS, FITTINGS, DEVICES TO HAVE GROUND EXTENDED OR RACEWAY USE AS EQUIPMENT GROUNDING AS PER NEC TABLE 250-122, UON.
- NEUTRAL NOT TO BE SHARED, UON. NEUTRAL SHALL RUN PARALLEL TOGETHER WITH THE CURRENT CARRYING CONDUCTOR, INCLUDING PASSING THROUGH THE GANG BOX OF ANY SWITCHES CONTROLLING THAT CURRENT CARRYING CONDUCTOR.
- NO ELECTRICAL CIRCUITS OR WIRING FROM ADJACENT SPACES TO BE USED IN THIS PROJECT.
- ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED (UON).
- DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, UON. SWITCHES SHALL BE HORSE POWER RATED AND SIZED FOR 150% MAX. HORSEPOWER, HEAVY DUTY TYPE.
- ALL ELECTRICAL EQUIPMENT SHALL BE RAIN TIGHT (NEMA 3R, UON) WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
- FOR ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WARNING TAPE WHICH SAYS "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRIC CONDUITS. WHEN PVC IS ALLOWED TO BE USED BY CODE, SCHEDULE 40 PVC IS ACCEPTABLE.
- ALL LOW VOLTAGE CABLING AND SYSTEM ARE THE RESPONSIBILITY OF THE VENDOR THAT IS PROVIDING THE SYSTEM INCLUDING PERMITTING.
- FOR TELEPHONE SYSTEM: (A) PROVIDE GROUNDING FOR ALL TELEPHONE OUTLETS AND EQUIPMENT PER REQUIREMENTS OF TELEPHONE COMPANY. (B) VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY, PRIOR TO SUBMITTING BID. (C) ALL CABLES INSIDE THE SPACE TO BE HOME RUN TO MAIN DISTRIBUTION LOCATION.
- MAINTAIN A MINIMUM OF 48" IN FRONT OF ALL ELECTRICAL EQUIPMENT. PRIOR TO INSTALLING ANY EQUIPMENT COORDINATE WITH OTHER TRADES TO INSURE THAT CLEARANCES ARE MAINTAINED.
- ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC). TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
- ALL FUSES TO BE CURRENT LIMITING AT SERVICE ENTRANCE. ALL OTHER FUSES ACCORDING TO MANUFACTURER SPECIFICATIONS.
- ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL NON-METALLIC TUBING (ENT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS AND ALLOWED BY CODE; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED AND PERMITTED BY CODE; (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS AND PERMITTED BY CODE. ALL CONDUITS IN HAZARDOUS AREAS PER NEC SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
- PROVIDE LAMPS WITH FIXTURES, VERIFY LAMP TYPE WITH MANUFACTURER. CONTRACTOR TO RELAMP ANY EXISTING FIXTURES BEING USED. ALL RECESSED LIGHT FIXTURES IN CONTACT WITH INSULATION SHALL BE RATED FOR SUCH USE.
- ALL FLUORESCENT LUMINARIES THAT UTILIZE DOUBLE-ENDED LAMPS SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE AS PER NEC 410.130(G).
- COORDINATE CABLE, TV, VOICE AND DATA REQUIREMENTS WITH OWNER TO MEET THEIR REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL POWER, DATA AND VOICE TO ALL EQUIPMENT MENTIONED OR NOT AND SYSTEMS INSTALLED AS REQUIRED.
- ALL DEVICES TO MATCH BUILDING STANDARD OR BE DECORA SERIES.
- TYPICAL WALL SWITCHES TO BE AT 48" A.F.F. TYPICAL OUTLET TO BE 18" A.F.F. TYPICAL COUNTERTOPS OUTLET TO BE A.F.F. OR 6" ABOVE COUNTERTOPS (NOT TO EXCEED 52" A.F.F.). ALL SWITCHES TO BE GANGED WITH CONTINUIS F.P. PLATES. ALL DEVICES THAT ARE ADJACENT TO BE SPACES 6" O.C.
- CONTRACTOR TO BALANCE LOADS IN ALL PHASES AND PROVIDE NEW PANEL SCHEDULES IDENTIFYING ALL CIRCUITS IN PANEL.
- ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION. COORDINATE ALL EQUIPMENT LOAD AND PROTECTION WITH NAMEPLATE DATA PRIOR TO INSTALL OR REPAIR TO CONSTRUCTION.
- ALL EMERGENCY LIGHTS AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED CIRCUIT SIDE AND HAVE 90 MINUTES BATTERY BACKUP.
- METER CANS, HUBS, & LUGS FOR SAME ARE TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO VERIFY SPECIFIC TYPE OF METER CAN TO BE USED WITH F.P.L. PRIOR TO BID. COORDINATE ELECTRIC SERVICE WITH POWER COMPANY.
- VERIFY EXISTING FIRE ALARM HAS SUFFICIENT ROOM FOR EXPANSION AND EQUIPMENT IS STILL READILY AVAILABLE. CONTRACTOR TO PROVIDE COMPLETE SHOP DRAWINGS INCLUDING WIRING, CU SHEET, BATTERY CALCULATIONS AND ALL OTHER NECESSARY INFORMATION. CONTRACTOR TO COORDINATE IF ADDITIONAL PANELS, POWER SUPPLIES ARE REQUIRED.
- SMOKE DETECTORS NOT TO BE LOCATED WITHIN 3 FEET FROM A MECHANICAL DIFFUSER OR REGISTER.
- ELECTRICAL CONTRACTOR SHALL COORDINATE SERIES RATING OF BREAKERS INTERRUPTING CAPACITY.
- CONTRACTOR TO VERIFY ANY EXISTING ELECTRICAL EQUIPMENT AND TO REPAIR, REPLACE OR ADD ANY REQUIRED COMPONENTS TO MAKE EQUIPMENT TO OPERATE CORRECTLY.
- FEEDERS AND BRANCH CIRCUITS MUST BE IDENTIFIED AND DOCUMENTED UNDER NEC 210.5 AND THE FOLLOWING COLORS:
 - 47.1. 120/240V, SINGLE PHASE: L1=BLACK; L2=RED; N=WHITE
 - 47.2. 120/208V, 3-PHASE: L1=BLACK; L2=RED; N=WHITE
 - 47.3. 277/480V, 3-PHASE: L1=BLACK; L2=ORANGE; L3=BLUE; N=WHITE
 - 47.4. 277/480V, 3-PHASE: L1=BLACK; L2=ORANGE; L3=BLUE; N=WHITE
 - 47.5. 277/480V, 3-PHASE: L1=BLACK; L2=ORANGE; L3=BLUE; N=WHITE
- PROVIDE RED/WHITE CORE NAMING TAPE ON ALL ELECTRICAL DISTRIBUTION EQUIPMENT WITH THE WORDS "WARNING, POTENTIAL ARC FLASH HAZARD. APPROPRIATE PERSONNEL AND TOOLS REQUIRED WHEN WORKING ON THIS EQUIPMENT" ENGRAVED THEREON IN 1/4" HIGH LETTERS.
- ALL SWITCHGEAR, PANELS, DISCONNECTS, SWITCHES, GENERATORS AND OTHER ELECTRICAL EQUIPMENT SHALL BE INSTALLED FULLY ABOVE FLOOD ELEVATION. FIELD COORDINATE WHETHER ANY MOUNTING RACKS ARE REQUIRED. NOTIFY ENGINEER IF THIS ELEVATION WOULD RESULT IN THE TOP OF THE EQUIPMENT OR DEVICE BEING MORE THAN 6'-6" ABOVE LOCAL GRADE.
- IN THE FOLLOWING SPACES (ROOMS) - PRIVATE OFFICE, OPEN OFFICES, COMPUTER CLASSROOMS - WITHIN ANY BUILDING, AT LEAST 50% OF ALL 125 VOLT 15- AND 20-AMP RECEPTACLES, INCLUDING THOSE INSTALLED IN MODULAR PARTITIONS, SHALL BE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE. THE RECEPTACLES MAY EITHER BE CONTROLLED BY A PROGRAMMABLE TIME CLOCK SERVING NO MORE THAN ONE FLOOR AND NO MORE THAN 25,000 SQ.FT.; OR BY AN OCCUPANCY SENSOR SET TO TURN OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.

1 ELECTRICAL NOTES AND DETAILS
SCALE: N.T.S.

PANEL NAME		LOCATION		VOLTAGE		MOUNTING/ENCLOSURE		SURFACE		NEMA 1	
C		MAIN ELECTRICAL ROOM		208 Y/120V 3 PHASE		AIC 10KA 200A MLO		PROVIDE ISOLATED GROUND BAR			
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION
20	1		P.O.S 1	0.40	1	1.90			2	1.50	LIGHTS
20	1		P.O.S 2	0.40	3		1.90		4	1.50	LIGHTS
20	1		P.O.S 3	0.40	5			1.90	6	1.50	SIGN LIGHTING
20	1		TVS	0.45	7	5.05			8	4.60	SHOW WINDOW RECEPT.
20	1		HAND DRYER	0.35	9		0.75		10	0.40	P.O.S 4
20	1		HAND DRYER	0.35	11			1.35	12	1.00	SMART TV RACK
20	1				13	1.00			14	1.00	STEREO SYSTEM
20	1				15		1.00		16	1.00	GENERAL POWER
20	1				17			1.00	18	1.00	GENERAL POWER
45	3	AC	RTU - 1	3.92	19	4.52			20	0.60	FIRE SUPPRESSION SYST
		AC		3.92	21		4.45		22	0.53	
		AC		3.92	23			4.45	24	0.53	SUPPLY HOOD
40	3	AC	RTU - 2	3.72	27		4.45		28	0.73	
		AC		3.72	29			4.45	30	0.73	EXHAUST HOOD
20	1				31	0.73			32	0.73	
20	1		COOKING/HOLDING TIMER	0.50	33		2.00		34	1.50	ROOF RECEPT ACLES***
20	1		WORK TABLE	1.00	35			1.00	36		SPARE
20	1		SPARE						38		SPARE
20	1		SPARE						40		SPARE
20	1		SPARE						42		SPARE
20	1		SPARE						44		SPARE
20	1		SPARE						46		SPARE
20	1		SPARE						48		SPARE
20	1		SPARE	49	10.80				50	10.00	
20	1		SPARE	51		8.20			52	8.20	PANEL - 'SP1'
20	1		SPARE	53		5.10		5.10	54	5.10	
*SHUNT TRIP				PHASE TOTAL		28.3	22.8	19.3	KVA		
**ISOLATED GROUND				TOTAL CONNECTED LOAD						70 KVA	195 A
***PROVIDE GFCI TYPE CIRCUIT BREAKER				TOTAL DEMAND LOAD						64 KVA	176 A

PANEL NAME		LOCATION		VOLTAGE		MOUNTING/ENCLOSURE		SURFACE		NEMA 1	
SP1		BACK OF KITCHEN		208 Y/120V 3 PHASE		AIC 10KA 100A MLO					
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION
20	1	K	DISPENSER MACHINES***	2.40	1	3.10			2	0.90	1 DOOR REACH IN FRIDGE***
20	1	K	FRYER***	0.70	3		1.20		4	0.50	NACHO CHEESE DISPENSER***
20	1	K	FRYER***	0.08	5			0.93	6	0.85	REACH IN FRIDGE
20	1	K	FRYER***	0.08	7	1.08			8	1.00	WORK TABLE
20	1	K	FRYER***	0.08	9		1.58		10	1.50	COFFEE DISPENSER
20	1	K	FRYER***	0.08	11			1.58	12	1.50	COFFEE DISPENSER
20	1	K	ICE MACHINES***	1.40	13		3.70		14	2.0	COOPER CONDENSER***
20	1	K	SANDWICH SALAD UNIT***	1.03	15			3.33	16	1.0	WATER HEATER***
20	1	K	GLASS MERCHANDISER***	1.10	17			1.60	18	1.60	WOLLER MACHIN
20	2	K	FREEZER CONDENSER***	2.10	19	2.90			20	0.5	
20	1	K	TEA DISPENSER***	1.00	23			1.00	24		SPARE
20	1		SPARE		25				26		SPARE
20	1		SPARE		27				28		SPARE
20	1		SPARE		29				30		SPARE
20	1		SPARE		31				32		SPARE
20	1		SPARE		33				34		SPARE
20	1		SPARE		35				36		SPARE
20	1		SPARE		37				38		SPARE
20	1		SPARE		39				40		SPARE
20	1		SPARE		41				42		SPARE
20	1		SPARE		43				44		SPARE
20	1		SPARE		45				46		SPARE
20	1		SPARE		47				48		SPARE
20	1		SPARE		49				50		SPARE
20	1		SPARE		51				52		SPARE
20	1		SPARE		53				54		SPARE
*SHUNT TRIP				PHASE TOTAL		10.8	8.2	5.1	KVA		
**ISOLATED GROUND				TOTAL CONNECTED LOAD						24 KVA	167 A
***PROVIDE GFCI TYPE CIRCUIT BREAKER				TOTAL DEMAND LOAD						16 KVA	143 A



Interior Lighting Application Worksheet

Florida Energy Code and ASHRAE 90.1 Standard Compliance

Section 1: Allowed Lighting Power Calculation

Area Description	Floor Area	Allowed W/ft2	Allowed Watts
Dinning Area	485	1.4	679
Food Preparation	560	1.2	672
Restrooms	125	0.9	113
TOTAL	1,170		1,464

Section 2: Proposed Lighting Power Calculation

Fixture Description or Type	Number of Fixtures	Watts per Fixture	Watts Subtotal
Type A	6	20	120
Type B	4	10	40
Type C	9	48	432
Type CA	1	50	50
Type D	13	8	104
Type DA	3	10	30
Type FA	4	40	160
Type G	1	108	108
TOTAL	41		1,044

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts: 1,464
Total Proposed Watts: 1,044
Project Compliance (In Watts): 420
Project Compliance (In % better than code): 29%

POINT-TO-POINT SHORT CIRCUIT CALCULATION

UTILITY FAULT CURRENT (Isca): 50,000 AMPS
 DISTANCE FROM TX TO MAIN: 54 FEET

THE FOLLOWING SHORT CIRCUIT CALCULATED IS BASED ON WIRE SIZE AND QUANTITY OF CONDUCTORS PER PHASE AS SHOWN ON RISER DIAGRAM.

CALCULATED Isca AT MAIN: 27,147 AMPS

CURRENT LIMITING FUSES ARE BEING USED AT MAIN. FUSES SHALL BE BUSSMANN "LPN-RK" WITH A LET-THROUGH CURRENT OF 6,000 AMPS FOR AN INPUT UP TO 30,000 AMPS.

CURRENT AFTER MAIN FUSES: 6,000 AMPS (DISC)

CURRENT LIMITING FUSES ARE BEING USED AT DISCONNECT-B. FUSES SHALL BE BUSSMANN "LPN-RK" WITH A LET-THROUGH CURRENT OF 4,000 AMPS FOR AN INPUT UP TO 10,000 AMPS.

ALL OTHER PANELS HAVE A GREATER LENGTH OR SMALLER WIRES THAN PANEL "P1" WHICH WILL RESULT IN A LOWER SHORT CIRCUIT CURRENT AT THOSE POINTS.

FEEDER SCHEDULE (BASED ON COPPER THWN)

KEY	AMPACITY	DESCRIPTION
G-0	EX	EXISTING 2/0 CU GROUNDING ELECTRODE CONDUCTOR.
F-1	EX	EXISTING 4 #3/0 & #6 GND IN 2".
F-2	EX	EXISTING 4 #3/0 & #6 GND IN 2".
F-3	125	4 #1 & #6 GND IN 1 1/2".

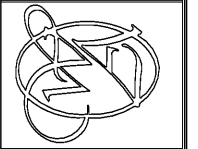
NOTES:

- ALL SERVICE ENTRANCE FEEDER CONDUCTORS WILL NOT CARRY GROUND WIRE UNTIL MAIN DISCONNECT.
- FEEDER SCHEDULE IS BASED ON THWN WIRES IN RIGID METAL CONDUIT. CONTRACTOR TO RECALCULATE PIPE SIZE IF DIFFERENT WIRE OR CONDUIT TYPE IS BEING USED.
- REFER TO OTHER DRAWINGS FOR FEEDER INFORMATION.
- ALL WIRES MUST BE COPPER THWN TYPE.

DATE: 03/15/19

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DRAWN BY: RCI
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 DATE: 03/15/2019
 PROJECT: V050
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ELECTRICAL NOTES AND DETAILS
 DRAWING NUMBER

E3

PROJECT # 19022

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