PANEL SCHEDULE

PANEL: SUB PANEL D
LOCATION: PREP ROOM
FEEDER SOURCE: CLECO

VOLTAGE: 120/208V, 200A, 3Φ, 4W
ENCLOSURE: FLUSH MOUNTED, NEMA 3R PNLBD W/EQUIP GND BAR, M/B, 25KAIC

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT NO
1					6.3	3.5					2
3	#6	10 TON RTU-1	60	3	6.3	3.5	3	35	DISHWASHER - #2 NOTE #1	#8	4
5					6.3	3.5					6
7	#12	SINGLE DOOR FREEZER - #1. NOTE #2	15	1	0.9	3.0	2	35	ALTO SHAAM - #7	#8	8
9	#12	DOUBLE DOOR REFRIG/FREEZER - #6; NOTE #2	15	1	1.3	3.0					10
11	#12	BEER COOLER - #5 NOTE #2	15	1	0.3	0.8	1	15	MUG CHILLER - #3 NOTE #2	#12	12
13	#12	RESTROOM GFI	20	1	0.4	0.2	1	20	PREP ROOM OUTLET	#12	14
15	#12	EXTERIOR GFI	20	1	1.1	0.3	1	20	POS - #11	#12	16
17	#12	AUDIO VISUAL BOX	20	1	1.5	0.4	1	20	POS - #11 & BAR GFI	#12	18
19	#12	WALL WARMER	20	1	1.5	1.5	1	20	WALL WARMER	#12	20
21	#12	WALL WARMER	20	1	1.5	0.7	1	20	TV WALL MOUNTED	#12	22
23	#12	EXIT AND EMERGENCY LIGHTS	20	1	0.1	1.0	1	20	RESTROOM LIGHTS AND EXHAUST FANS	#12	24
25	#12	EXTERIOR LIGHTS	20	1	0.4	0.3	1	20	HALL AND BAR LIGHTS	#12	26
27	#12	DINING ROOM LIGHTS	20	1	0.9	0.5	1	20	PREP ROOM LIGHTING	#12	28
29	#12	WALL WARMER	20	1	1.5	1.5	1	20	WALL WARMER	#12	30
31	#12	PREP TABLE OUTLET	20	1	0.4	0.7	1	20	DINING AREA WALL OUTLETS	#12	32
33	#12	ABOVE BAR OUTLETS	20	1	0.4	0.4	1	20	ABOVE BAR OUTLETS	#12	34
35	#12	OUTSIDE GFI OUTLETS	20	1	1.6	0.7	1	20	ICE MACHINE	#12	36
37	-	SPACE	-	-	-	0.7					38
39	-	SPACE	-	-	-	-	-	-	SPACE	2/0	40
41	-	SPACE	-	-	-	-	-	-	SPACE	2/0	42

SOLID NEUTRAL NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD = 58.9 kva

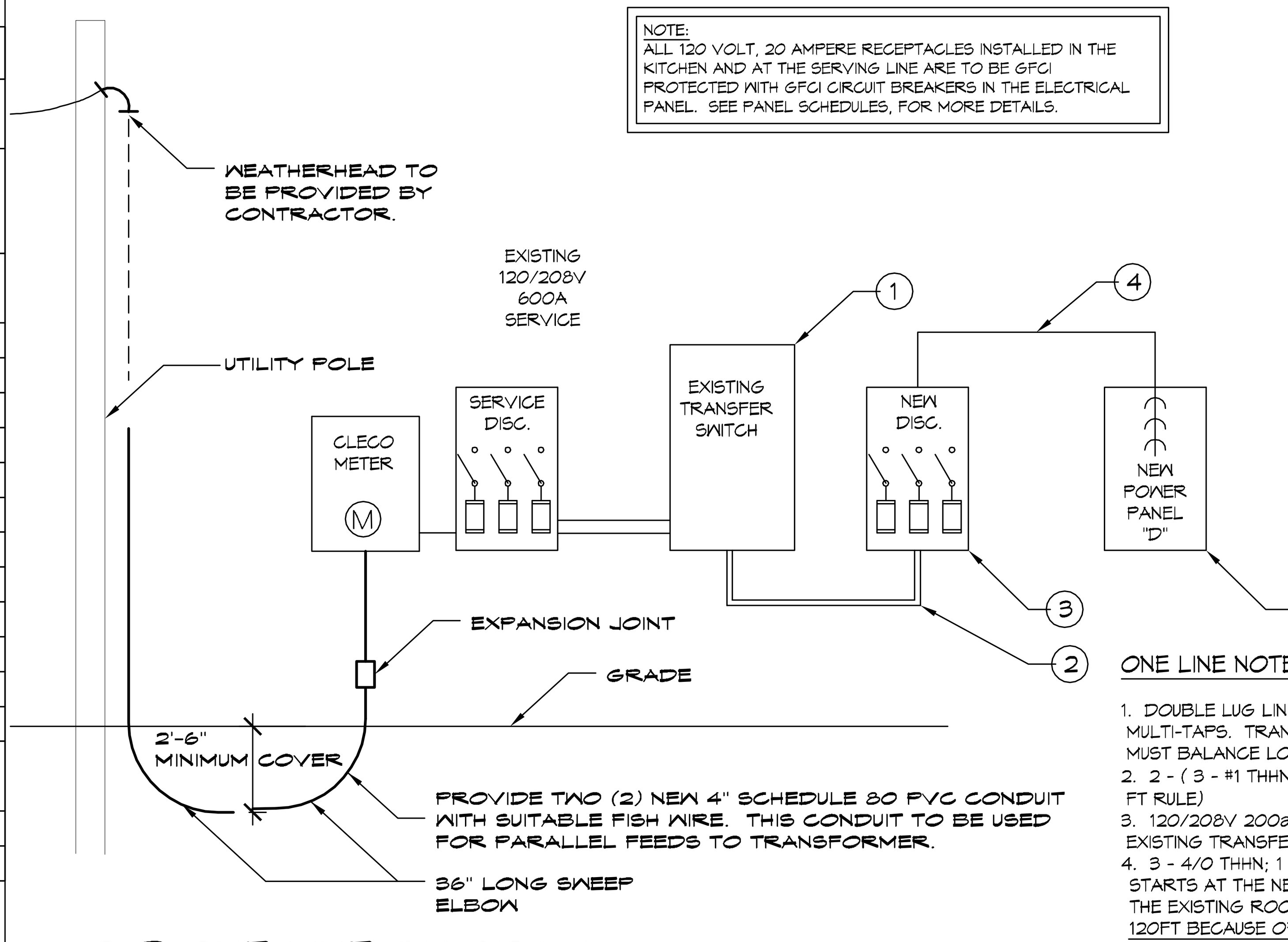
AΦ = 19.8 kva | BΦ = 19.9 kva | CΦ = 19.2 kva

GROUND BUS GROUND WIRE (G)

NOTES:

#1. PROVIDE BOTH NEUTRAL AND GROUND.

NOTE: ALL 120 VOLT, 20 AMPERE RECEPTACLES INSTALLED IN THE KITCHEN AND AT THE SERVING LINE ARE TO BE GFCI PROTECTED WITH GFCI CIRCUIT BREAKERS IN THE ELECTRICAL PANEL. SEE PANEL SCHEDULES, FOR MORE DETAILS.



23 ONE LINE DIAGRAM
SCALE: 3/16"=1'-0"

ONE LINE NOTES:

1. DOUBLE LUG LINE SIDE OF TRANSFER SWITCH FEED USING POLARIS INSULATED MULTI-TAPS. TRANSFER SWITCH HAS DOUBLE FEEDS FROM SERVICE DISC. TAPS MUST BALANCE LOAD ON DOUBLE FEEDS. ONE EACH TAP PER FEED.
2. 2 - (3 - #1 THHN; 1 - #1 NEUTRAL THHN; 1 - #6 GND COPPER; 3" C) (NOTE: 10 FT RULE)
3. 120/208V 200amp DISCONNECT, FUSE AT 200amps; LOCATE NEXT TO EXISTING TRANSFER SWITCH.
4. 3 - 4/0 THHN; 1 - 4/0 NEUTRAL THHN; 1 - #6 GND COPPER; 2-1/2" C; THIS RUN STARTS AT THE NEW DISCONNECT ON THE SOUTH SIDE OF BUILDING, RUNS OVER THE EXISTING ROOF AND DOWN TO NEW PANEL. ESTIMATED LENGTH OF RUN IS 120FT BECAUSE OF OBSTACLES ON ROOF.
5. 120/208V 200amp PANELBOARD

POWER LEGEND

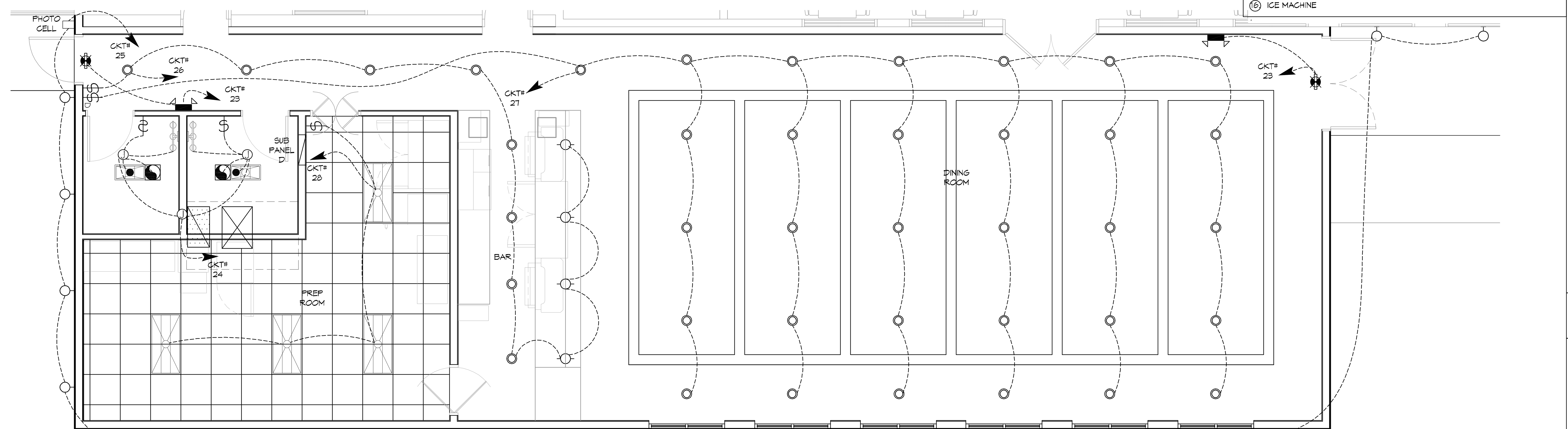
SYMB	
	STANDARD 120V DUPLEX RECEPTACLE, NEMA 5-2 OR 18" AFF (UNLESS OTHERWISE NOTED)
	SINGLE-POLE DEDICATED RECEPTACLE
	GFCI DUPLEX RECEPTACLE
	DEDICATED GFCI DUPLEX RECEPTACLE
	240V RECEPTACLE - MOUNTED AT 30" AFF
	JUNCTION BOX
	WEATHER-PROOF GFCI DUPLEX RECEPTACLE MOUNTED AT 30" AFF (UNLESS OTHERWISE NOTED)
	STANDARD 120V DUPLEX RECEPTACLE - CEILING MOUNTED
	SINGLE POLE RECEPTACLE
	WALL MOUNTED DATA OUTLET
	QUAD OUTLET

LIGHTING LEGEND

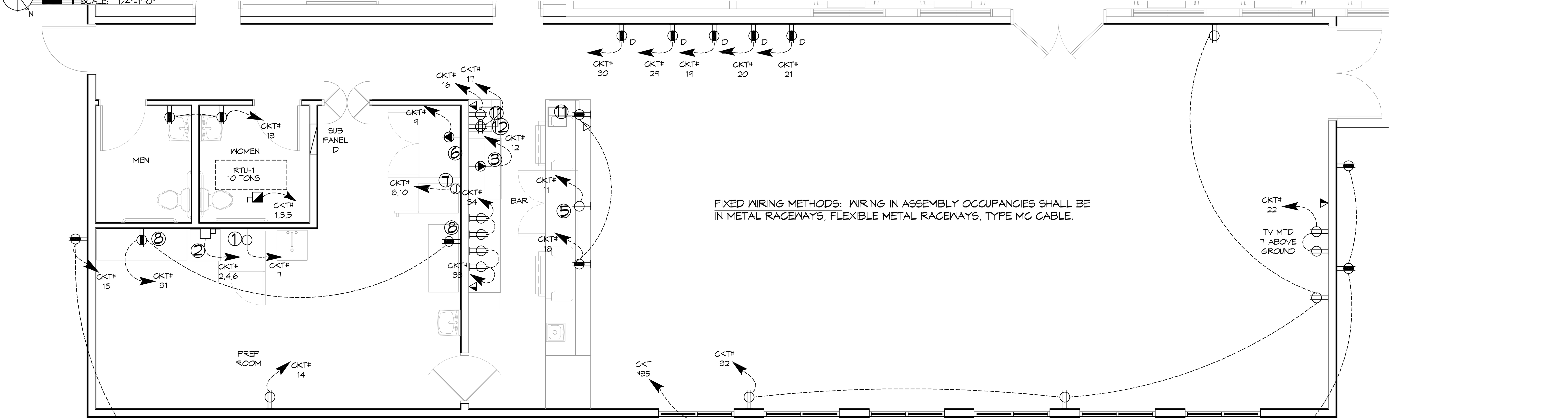
- EMERGENCY LIGHT FIXTURE
- EXIT LIGHT FIXTURE - CEILING MOUNTED
- WALL MOUNTED LIGHT, REUSE EXISTING AND ADD NEW TO MATCH EXISTING.
- PENDANT LED LIGHT, MATCH EXISTING
- 2X4 - 4 - FLUORESCENT OR LED
- 1X2 - FLUORESCENT OR LED (RESTROOMS)
- 6" RECESSED LED CAN LIGHT, WITH TRIM, IC-RATED
- ELECTRIC PANEL BOARD
- CIRCUIT HOME RUN
- LIGHT SWITCH 120V COMMERCIAL GRADE
- LIGHT SWITCH - DIMMER
- JUNCTION BOX
- EXHAUST FAN - SEE MECH
- 3 BLUB LED RESTROOM LIGHT FIXTURE. TO MATCH EXISTING

EQUIPMENT LIST

1. SINGLE DOOR FREEZER 29"
2. DISHWASHER
3. MUG CHILLER
4. SPEED RAIL/ ICE 30"
5. BEER COOLER 60"
6. DOUBLE DOOR REACH-IN REFRIGERATOR 54"
7. ALTO SHAAM 22-1/2" 208/240V
8. PREP TABLES 72" & 54"
9. MUG RACK
10. UNDER COUNTER TRASH CAN
11. P.O.S.
12. AV EQUIPMENT BOX (ON WALL)
13. HAND SINK
14. WATER HEATER
15. UTILITY SINK
16. ICE MACHINE



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



20 ELECTRICAL FLOOR PLAN-POWER
SCALE: 1/4"=1'-0"

GENERAL POWER NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICULAR TRAFFIC AREAS, FOR CONDUITS BELOW GRADE. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. USE NMC IN WOOD CONSTRUCTION. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
12. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN THE KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
18. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
19. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS AND THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE AND LOCATION OF DEVICES AND/OR FIXTURES.
4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
5. ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE.
6. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
9. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
10. WHERE FLUORESCENT FIXTURES ARE SHOWN TO BE DIMMED, THE FIXTURES SHALL HAVE DIMMING TYPE BALLASTS WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMERS.
11. WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

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REVISIONS		
#	DESCRIPTION	DATE

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NEW DINING ADDITION

SOUTHSIDE CAFE

3154 PONTCHARTRAIN DR
SLIDELL, LA 70458

JOB No:	2359	DATE:	02-07-2019
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SHEET TITLE: POWER AND LIGHTING PLAN

DRAWING NUMBER: E101