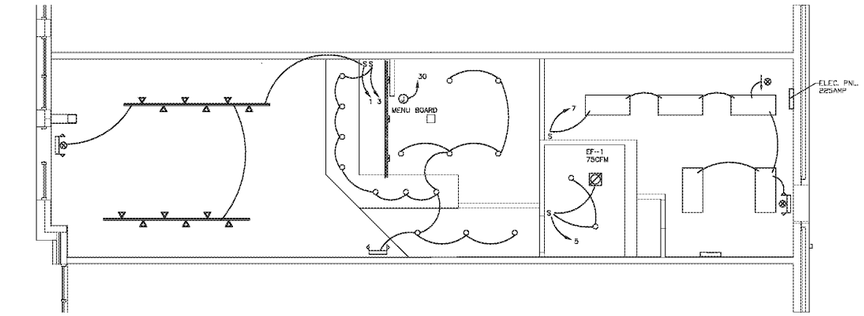
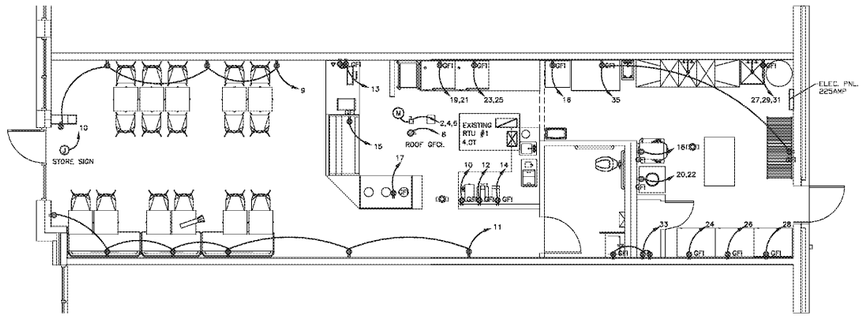
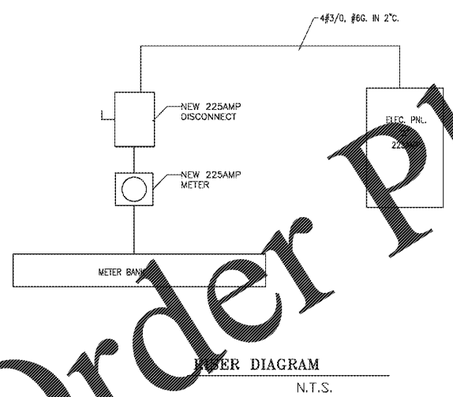


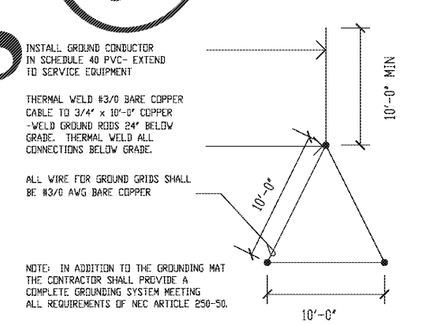
LIGHTING PLAN
SCALE : 3/16"=1'-0"



POWER PLAN
SCALE : 3/16"=1'-0"



POWER DIAGRAM
N.T.S.



GROUND MAT DETAIL

SYMBOLS

- RECESSED FLUORESCENT FIXTURE
- SURFACE MTD.FLUORESCENT FIXTURE AND OUTLET
- RECESSED PL FLUORESCENT FIXTURE AND OUTLET
- EXIT/EMERGENCY SIGN

WIRING DEVICES

- S — SINGLE POLE TOGGLE SWITCH 20A/277V ARROW-HART 1991-48" AFF
- DUPLEX RECEPTACLE-15A/120V ARROW-HART 5262 18" AFF
- GFI — GFI DUPLEX RECEPTACLE 15A/120V ARROW-HART GF 5242 42" AFF UNLESS NOTED OTHERWISE
- J — JUNCTION BOX

POWER

- CONDUIT AND WIRE CONCEALED IN CEILING AN/OR WALL
- CONDUIT AND WIRE CONCEALED IN FLOOR AN/OR UNDERGRADE
- DISCONNECT SWITCH 30A/3P UNLESS NOTED [illegible]
- AFF — ABOVE FINISHED FLOOR
- WP — NEMA 3R ENCLOSURE

SIGNAL

- TELEPHONE OUTLET 18" AFF – STUB 1" [illegible] ABOVE CEILING GRID

- Emergency light fixture, self-cintained unit
- Emergency Exit Sign, red letter color; double fixture indicate pumch out direction
- Fluorescent Lighr, 40W 2x4 lay-in fixture
- Air Retune Grill
- Air Supply
- Make-up Air
- Exhaust Air Motor Operated
- Hood Light
- Spot Light

SPECIFICATIONS

1. SCOPE

FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHTING FIXTURES, PANELS, SWITCHES, [illegible] DEVICES, FEEDERS, DISCONNECTS, STARTERS, FITTING, AND ALL OTHER WORK INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN.

OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER APPROVAL CERTIFICATE TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.

CONTRACTOR SHALL COMPLY WITH CURRENT OSHA REQUIREMENTS. ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER OPERATION, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS BUT REASONABLY IMPLIED, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.

THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE IMPROVEMENTS SHOWN ON THE DRAWING AND INDICATED IN THE GENERAL NOTES. ALL SYSTEMS SHALL BE FINISHED AND PROVEN TO BE [illegible] OPERATIONAL AND [illegible]

WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE [illegible] AND LOCAL AUTHORITIES HAVING JURISDICTION.

2. SUBMITTALS AND SUBSTITUTIONS

SUBMITTALS AND SUBSTITUTIONS: ELECTRICAL CONTRACTOR SHALL SUBMIT FOR THE ENGINEER'S REVIEW (5) COPIES OF INFORMATION ON ALL DEVICES AND WIRING COMPONENTS INTENDED TO BE PROVIDED FOR THIS PROJECT. THIS INCLUDES PANELS, WIRING DEVICES, CONDUIT BOXES, WIRE, WIRING SYSTEMS DEVICES. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIALS OTHER THAN THE EXACT EQUIVALENT OF THAT SPECIFIED.

3. COORDINATE ALL WORK WITH ALL OTHER TRADES INVOLVED IN THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACTUAL [illegible] OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATE THE INSTALLATION ACCORDINGLY.

4. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY POWER FOR ALL TRADES INVOLVED WITH THIS PROJECT. TEMPORARY POWER INSTALLATION SHALL COMPLY WITH OSHA REQUIREMENTS.

5. ALL MATERIALS SHALL FIT THE SPACE AVAILABLE VERIFY DIMENSIONS AND CLEARANCES AT BUILDING BEFORE COMMENCING WORK.

6. ALL WIRING SHALL BE ROUTED IN E.M.T.-TYPE CONDUIT UNLESS INDICATED OTHERWISE. ALL WIRES AND CABLES SHALL BE COPPER STRANDED COLOR CODED AS INDICATED BELOW. EMT CONDUIT FITTINGS SHALL BE COMPRESSION TYPE. CABLE W/INTERLOCK GND. STRIP TYPE MC OR NM MAY BE USED AS PERMITTED BY LOCAL CODES.

7. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM CONDUCTOR SIZE FOR POWER AND LIGHTING WIRING. USE #14 AWG MINIMUM CONDUCTOR SIZE FOR SIGNAL/CONTROL WIRING. THE INSULATION FOR ALL CONDUCTOR SIZES SHALL BE THWN/THWN. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS: PHASE-A (BLACK), PHASE-B (RED), PHASE-C (BLUE), NEUTRAL (WHITE), AND GROUND (GREEN).

8. POWER WIRE SIZES #12 & #10 AWG SHALL BE SOLID TYPE. ALL OTHERS SHALL BE STRANDED.

9. EACH OUTLET AND /OR FIXTURE IN THE ELECTRICAL SYSTEM SHALL BE PROVIDED WITH AN OUTLET BOX TO SUITE FIELD CONDITIONS.

10. SWITCHES SHALL BE 277V SPECIFICATION GRADE, COLOR AS DIRECTED BY OWNER.WITH NYLON PLASTIC FACEPLATES.

11. DUPLEX CONVENIENCE RECEPTACLES SHALL BE RATED 20AMPS AT 120V, NEMA 5-20R, SPECIFICATION GRADE, WITH NYLON PLASTIC FACEPLATE.

12. CIRCUITS SHALL INCLUDE A GROUND WIRE AS PER NEC 250-122.

13. ALL CONTROL WIRING SHALL BE #14 AWG MINIMUM RED COLOR UNLESS INDICATED OTHERWISE BY EQUIPT. MFGR.

14. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING ANY CONSTRUCTION PROPOSALS , NO ALLOWANCE WILL BE MADE FOR LACK OF EXISTING CONDITIONS.

15. PANELBOARDS TO BE BOLTED CIRCUIT BREAKER TYPE, 208Y/120V,OR 480Y 277V WITH COPPER BUSS , RATED AS INDICATED ON THE SCHEDULES.

16. THE SCOPE AND ALL LIMITATIONS ASSOCIATED WITH THE WORK. ANY QUESTIONS ON ANY PART OF THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR PRIOR RESOLUTION PRIOR TO PROCEEDING WITH ANY OF THE WORK. THE CONTRACTOR MAY NOT CLAIM ADDITIONAL FEES FOR WORK INSTALLED IMPROPERLY WHEN THERE ARE QUESTINS PENDING ON A PORTION OF THE CONSTRUCTION DOCUMENTS.

17. THE ELECTRICAL CONTRACTOR SHALL NOT SUPPORT ANY CONDUIT RUN FORM THE CEILING "I" BAR.

18. THE ELECTRICAL CONTRACTOR SHALL DEVELOP A SET OF "AS-BUILT" DRAWINGS FOR SUBMITTAL TO THE ENGINEER AT THE COMPLETION OF THE WORK TO IDENTIFY ALL BRANCH CIRCUITS ON PANELBOARD SCHEDULES

PANELBOARD "A" SCHEDULE

PANEL A
208Y/120V 3Ø 4W, 10000 A.I.C.
225AMP M.L.O.

CRKT NO	TO SERVE	LOAD KW	CRKT BRKR TRIP POLES	CRKT BRKR POLES TRIP	LOAD KW	TO SERVE	CRKT NO
1	LIGHTS (FRONT AREA)	0.4	20/1	30/3	6.2	EXISTING RTU #1 4TON	2
3	LIGHTS (COUNTER AREA)	0.5	20/1				4
5	FAN & LIGHTS (RESTROOM)	1.0	20/1				6
7	LIGHTS (KITCHEN AREA)	0.8	20/1	20/1	0.5	GFI	8
9	RECEPT (FRONT AREA)	1.0	20/1	20/1	1.0	COFFEE MAKER	10
11	RECEPT (DINING AREA)	1.0	20/1	20/1	1.0	ESPRESSO MACHINE	12
13	RECEPT (COUNTER AREA)	1.0	20/1	20/1	1.0	COFFEE GRINDER	14
15	DISPALY FRIDGE	1.3	20/1	20/1	1.4	ICE MAKER	16
17	DRAM PUMP	1.2	20/1	20/1	1.4	MIXER	18
19	OVEN	5.0	30/2	30/2	4.0	CUSTARD MACHINE	20
21							22
23	OVEN	5.0	30/2	20/1	1.2	REACH IN COOLER	24
25				20/1	1.2	REACH IN COOLER	26
27	WATER HEATER	27	60/3	20/1	1.3	REACH IN FREEZER	28
29				20/1	1.0	MENU BOARD	30
31				20/1	1.0	STORE SIGN	32
33	RECEPT (RESTROOM/KITCHEN)	1.0	20/1			SPACE	34
35	RECEPT (KITCHEN)	1.0	20/1			SPACE	36
37	SPACE					SPACE	38
39	SPACE					SPACE	40
41	SPACE					SPACE	42

CONNECTED LOAD : 69.4 X 1000 / 1.732 / 208 = 193.0A

ALL BRANCH BREAKERS NOT SPECIFIED SHALL BE 20 AMP, SINGLE POLE. * HACR BREAKER

ALL BRANCH CIRCUITS CONDUCTORS NOT SPECIFIED SHALL BE #12 WIRE WITH #12 GROUND

BEARD ARCHITECTS
5215 TOWN CENTER DRIVE
SUITE # 620
PEACHTREE CORNERS, GA 30092

GEORGIA
CHUNG CHENG CHANG
REGISTERED ARCHITECT

CUSTOM DESIGN & DEVELOPMENT CORPORATION
5780 BUFORD HWY.
SUITE 200
NORCROSS, GA 30071
TEL: (770)-328-9868
FAX: (678)-278-3898

ELECTRICAL PLAN
NOTES & SCHEDULE

REVISION	BY
08/23/18	

DRAWN BY:
SCALE: AS NOTED
PROJECT NO:
DATE: 10/15/18
SHEET
E1
OF SHEETS

"ISSUED/RELEASED FOR CONSTRUCTION"

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