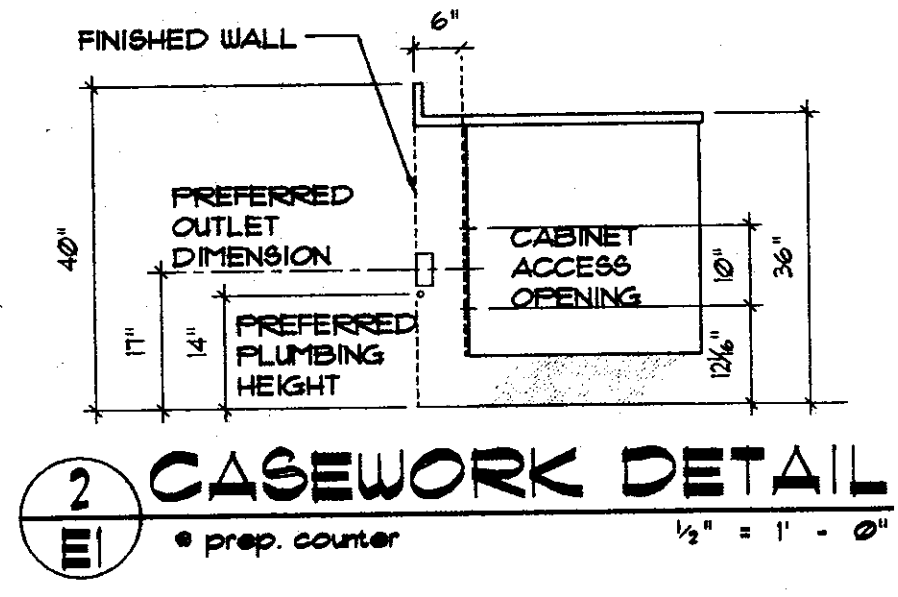
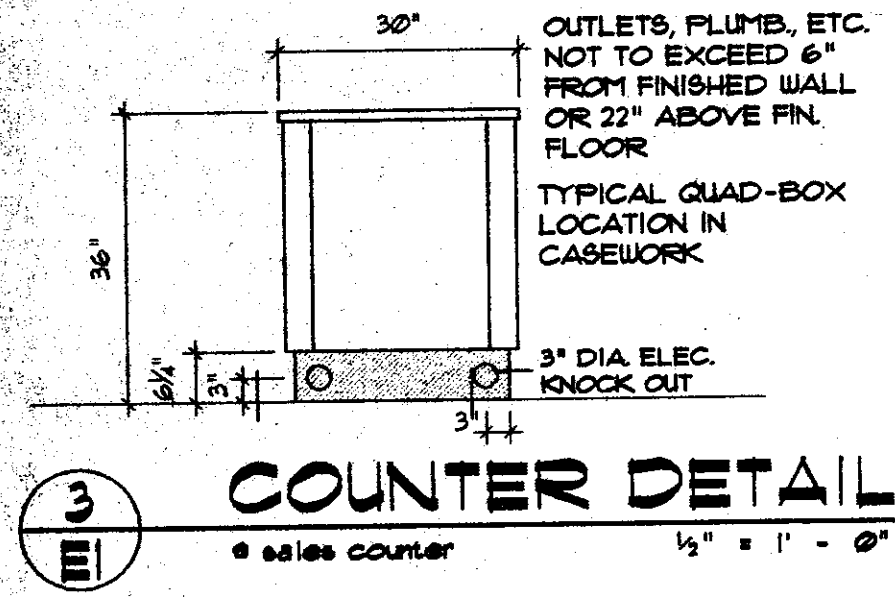


**WALL LEGEND**

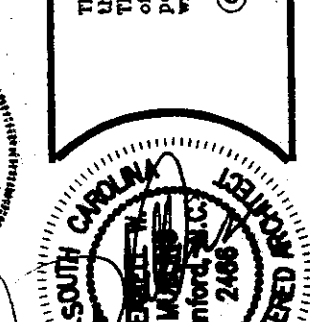
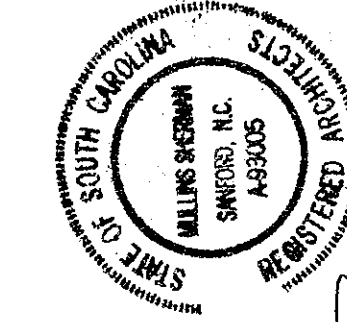
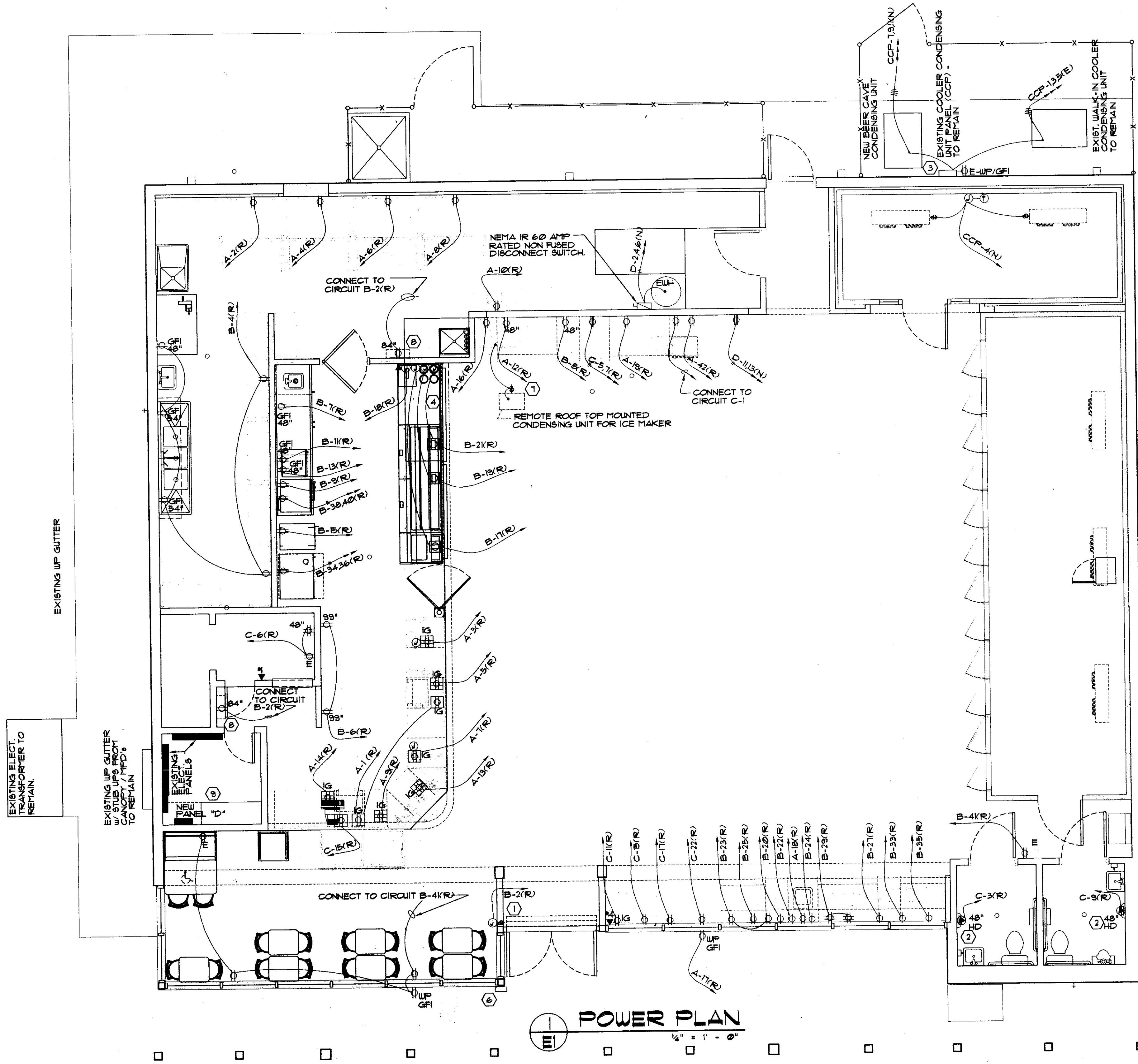
	EXISTING 6" WOOD FRAMED LOADBEARING WALL w/ INTERIOR SHEATHING TO REMAIN (FINISHES VARY)
	EXISTING INTERIOR WALL TO REMAIN
	EXISTING INTERIOR/EXTERIOR WALL TO BE REMOVED - THICKNESS VARIES
	NEW WOOD STUD AND GYPSUM BOARD WALLS
	4" TK COOLER WALL PANELS TO REMAIN - NEW & EXISTING

EXISTING GROSS BUILDING SQUARE FOOTAGE CONTAINS 3,323 SQUARE FEET, 1 STORY IN HEIGHT AND BEATING AREA/ENTRY ADDITION CONTAINS 110 SQUARE FEET - TOTALING 3,433 SQUARE FEET - EXISTING BUILDING PRIMARY OCCUPANCY IS MERCANTILE, TYPE V-B CONSTRUCTION, BUILDING IS NOT SPRINKLED - SEE BUILDING CODE SUMMARY - SHEET 12 FOR ADDITIONAL INFORMATION



**POWER PLAN LEGEND**

- 1 PROVIDE ELECTRICAL SERVICE TO NEW AIR CURTAIN FAN LOCATED ABOVE DOOR WIRE FAN AND ACCOMPANYING ACTIVATOR SWITCHES COMPLETE. IF INTEGRAL DISCONNECT SWITCHES ARE NOT PRESENT PROVIDE GENERAL USE SWITCH TO ACT AS DISCONNECT SWITCH.
- 2 RE-USE EXISTING ELECTRICAL BOX AND SERVICE FOR NEW HAND DRYER.
- 3 RE-WORK ELECTRICAL SERVICE TO EXISTING COOLER CONDENSING UNIT (CCP-1) SERVICE NEW FROM NEW PANEL "D"
- 4 ROUTE FLEXIBLE METALLIC CONDUIT AND CONDUCTORS FROM JUNCTION BOXES TO SURFACE MOUNTED RECEPTACLES MOUNTED TO CASEWORK. VERIFY SPECIFIC RECEPTACLE LOCATIONS WITH EQUIPMENT SUPPLIER.
- 5 EXISTING EXTERIOR RECEPTACLE TO REMAIN. PROVIDE WATER PROOF COVER AND GFI RECEPTACLE (IF NOT PRESENT). LEAVE IN GOOD WORKING ORDER.
- 6 RE-LOCATE EXISTING EXTERIOR EMERGENCY STOP FOR PETROLEUM DISPENSING EQUIPMENT.
- 7 POWER FOR REMOTE ICEMAKER CONDENSING UNIT FED THRU ICE MAKER IF INTERNAL DISCONNECT NOT PRESENT, PROVIDE GENERAL USE SWITCH IN WATER PROOF ENCLOSURE TO ACT AS A MEANS OF DISCONNECT.
- 8 RECEPTACLE FOR FLY LIGHT. VERIFY EXACT MOUNTING HEIGHT WITH PANTRY PROJECT MANAGER.
- 9 EXISTING COUNTER TO BE MODIFIED TO PROVIDE PROPER CLEARANCE IN FRONT OF ELECTRICAL PANEL.



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**SUBWAY/INTERIOR RENOVATIONS PANTRY #3064 aka KANGAROO 3110 HIGHWAY 501 MYRTLE BEACH SOUTH CAROLINA**  
**POWER PLAN**

# ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2005 NATIONAL ELECTRICAL CODE, LATEST EDITION, ALL STATE AND LOCAL CODES HAVING JURISDICTION, AND THE REQUIREMENTS OF THE LOCAL ELECTRICAL INSPECTOR.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, AND PAYING ALL FEES, INCLUDING ANY CONNECTION AND INSPECTION FEES ASSOCIATED WITH THE ELECTRICAL PORTION OF THIS PROJECT.
- EXISTING ELECTRICAL SERVICE TO THE CONVENIENCE STORE PORTION OF THE BUILDING IS A 120 / 208 VOLT, 3 PHASE, 4 WIRE SYSTEM - 600 AMP. EXISTING SERVICE WILL ACCOMMODATE NEW TOTAL ELECTRICAL LOAD NOW IMPARTED ON THE SYSTEM.
- ALL CONDUCTORS SHALL BE COPPER, THIN OR THW WITH MINIMUM 12AWG IN SIZE.
- ALL WIRING SHALL BE CONCEALED UNLESS SPECIFICALLY SHOWN EXPOSED.
- ALL CIRCUITS SHALL HAVE AS A MINIMUM, A 20 AMP BREAKER UNLESS SPECIFICALLY SHOWN DIFFERENT ON THE ELECTRICAL PANEL DIAGRAM.
- ALL WIRING FOR CIRCUITS SHALL HAVE THE SAME AMPACITY AS THE BREAKER SERVING IT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING THIS WORK IN SUCH A MANNER THAT THE EXISTING SYSTEM IS MAINTAINED IN SERVICE WITH A MINIMUM OF INCONVENIENCE TO THE PANTRY INC.
- THE ELECTRICAL CONTRACTOR SHALL LEGIBLY IDENTIFY (TYPEWRITTEN) THE CIRCUITRY OF ALL PANEL CHANGES, ALL PANEL DISCONNECTS AND FEEDERS SHALL BE PERMANENTLY MARKED AS IN KEEPING WITH NEC SECTION 110-22. - PROVIDE NEW PANEL BREAKER SCHEDULES
- AT LOCATIONS WHERE MULTIPLE SWITCHES ARE SHOWN, THEY SHALL BE INSTALLED IN MULTI-GANG BOXES WITH MULTI-GANG COVER PLATES.
- THE CIRCUITRY SHOWN IS BASED UPON SPECIFIC ELECTRICAL REQUIREMENTS OF EQUIPMENT SELECTED BY THE PANTRY INC. THE ELECTRICAL CONTRACTOR SHOULD VERIFY EQUIPMENT SCHEDULE FOR A SPECIFIC STORE BEFORE BEGINNING ROUGH-IN WORK, TO INSURE THAT PROPER SERVICE IS PROVIDED FOR THE SELECTED EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ELECTRICAL CONNECTIONS TO ALL REFRIGERATION EQUIPMENT SUPPLIED BY THE PANTRY, INCLUDING COOLER EVAPORATOR COILS, CONDENSING UNITS, ICE MAKERS, THEIR CONDENSING UNITS AND ACCOMPANYING CONTROL WIRING.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ELECTRICAL CONNECTIONS TO ALL MERCHANDISING EQUIPMENT INDICATED ON THE DRAWINGS AND SUPPLIED BY THE PANTRY INC. VERIFY EXACT PLUG / CONNECTION REQUIREMENTS FOR SPECIFIC EQUIPMENT TO BE INSTALLED.
- TEST ALL PARTS OF THE ELECTRICAL SYSTEM FOR PROPER GROUND OPERATION AND TO BE FREE FROM SHORT CIRCUITS. MEGGER TEST ALL FEEDERS OF ELECTRICAL SYSTEMS. ALL EQUIPMENT AND SYSTEMS SHALL BE TESTED, ADJUSTED, AND BALANCED FOR PROPER PERFORMANCE.
- PROVIDE ALL CIRCUITS WITH SEPARATE GREEN GROUNDING CONDUCTOR. EACH CIRCUIT SHALL BE PROVIDED WITH A FULL SIZE NEUTRAL.
- HOME RUN CIRCUITRY FOR ANY RECEPTACLE WHICH IS DESIGNATED PRIMARILY FOR A COMPUTER, OR ANY OTHER ELECTRONIC EQUIPMENT, (WITH AN ADJACENT IG SYMBOL) SHALL BE PROVIDED WITH A DEDICATED GROUND CONDUCTOR AND A DEDICATED NEUTRAL CONDUCTOR PER CURRENT CARRYING CONDUCTOR.

# ELECTRICAL LEGEND

- 15 AMP, 125 VOLT DUPLEX RECEPTACLE: HUBBELL 5262-WH WITH WHITE P-8 COVER PLATE. PROVIDE 20 AMP, 125V. RECEPTACLES FOR DEDICATED CIRCUITS. OTHER ACCEPTABLE MANUFACTURERS INCLUDE LEVITON & BRYANT. MOUNT 16" AFF UNLESS OTHERWISE NOTED.
- 15 AMP, 125 VOLT SINGLE RECEPTACLE: HUBBELL 5261-WH WITH WHITE SINGLE OUTLET COVER PLATE. PROVIDE 20 AMP, 125V. RECEPTACLES FOR DEDICATED CIRCUITS. OTHER ACCEPTABLE MANUFACTURERS INCLUDE LEVITON & BRYANT. MOUNT 11" AFF UNLESS OTHERWISE NOTED.
- GROUND FAULT RECEPTACLE: HUBBELL GF-5262-WH (WHITE) 15 AMP, 125V. PROVIDE W/ WHITE GFI DUPLEX RECEPTACLE COVER PLATE.
- WATER-PROOF COVER PLATE: PASS & SEYMOUR SINGLE GANG W/UCIO WHILE IN USE WATER PROOF BOX AND COVER - COVER TO BE CLEAR.
- EXISTING RECEPTACLE TO REMAIN. RECEPTACLE TO REMAIN CONNECTED TO EXISTING CIRCUIT, CONDUCTORS AND CONDUIT.
- SURFACE MOUNTED RECEPTACLE
- COUNTER MOUNTED SINGLE RECEPTACLE: PROVIDE METAL 2 x 4 BOX WITH SINGLE RECEPTACLE AS LISTED - PROVIDE METAL COVER PLATE
- COUNTER MOUNTED QUADRADUPLEX RECEPTACLE: PROVIDE METAL 4 x 4 BOX WITH TWO DUPLEX RECEPTACLES AS LISTED - PROVIDE METAL COVER PLATE
- COUNTER MOUNTED DUPLEX RECEPTACLE: PROVIDE METAL 2 x 4 BOX WITH DUPLEX RECEPTACLE AS LISTED - PROVIDE METAL COVER PLATE
- ISOLATED GROUND RECEPTACLE: PROVIDE HUBBELL IG 5262 ORANGE DUPLEX RECEPTACLE WITH ISOLATED GROUND - WHERE ATTACHED TO COUNTERS PROVIDE METAL 2 x 4 BOX WITH METAL COVER PLATE - AT OTHER LOCATIONS PROVIDE HUBBELL WHITE P8 COVER PLATE
- QUADRAPLEX RECEPTACLE: PROVIDE TWO DUPLEX RECEPTACLES AS SPECIFIED IN A SINGLE BOX WITH QUADRAPLEX COVER PLATE
- CONNECTION TO SUIT EQUIPMENT
- DISCONNECT SWITCH: SQUARE "D" GENERAL DUTY SAFETY SWITCH, SINGLE THROW. SEE ELECTRICAL PLANS FOR FUSIBLE, NON-FUSIBLE AND NEMA 3R LOCATIONS AND FOR AMPERAGE RATINGS AT SPECIFIC LOCATIONS. OTHER ACCEPTABLE MANUFACTURERS INCLUDE GENERAL ELECTRIC AND WESTINGHOUSE.
- QUADRAPLEX RECEPTACLE: PROVIDE TWO DUPLEX RECEPTACLES AS SPECIFIED IN A SINGLE BOX WITH QUADRAPLEX COVER PLATE
- CONNECTION TO SUIT EQUIPMENT
- TELEPHONE OUTLET: ELECTRICAL CONTR. SHALL PROVIDE 2x4 BOX & 1/2" CONDUIT TO A POINT ABV. CLG. ELECTRICAL CONTR. TO INSTALL TELEPHONE WIRING, JACK AND COVER PLATE. SEE SHEET EI AND PANTRY REPRESENTATIVE FOR INFORMATION CONCERNING TELEPHONE SYSTEM
- JUNCTION BOX: PROVIDE APPROPRIATE SIZED JUNCTION BOX AND COVER AS REQUIRED TO SERVE SPECIFIC EQUIPMENT.
- SWITCH: HUBBELL 1201-W WHITE SINGLE POLE 15 AMP, 120/277V. SPECIFICATION GRADE SWITCH. PROVIDE W/ HUBBELL P1W WHITE COVER PLATE. MOUNT ALL SWITCHES 48" AFF (W.O.N.). OTHER ACCEPTABLE MANUFACTURERS INCLUDE LEVITON & BRYANT.
- THREE-WAY SWITCH: HUBBELL 1204-W WHITE SINGLE POLE 15 AMP, 120/277V THREE-WAY SWITCH. SEE COLOR AND COVER PLATE INFORMATION ABV.
- EXISTING SWITCH TO REMAIN AND BE RE-USED
- MOTION DETECTOR/ AUTOMATIC SWITCH: WATT STOPPER MODEL WS 120/277V VOLT, AUTO ON 2 - 800WATT BALLAST, ADJUSTABLE, DIGITAL, TIME DELAY SWITCH, LED CALIBRATION INTEGRATED LIGHT LEVEL SENSOR UL LISTED, 180° COVERAGE. PROVIDE W/ ASP-211 COVER PLATE. PROVIDE SWITCH AND COVER PLATES IN RESTROOM TO MATCH CERAMIC TILE COLOR
- 48" DENOTES MOUNTING HEIGHT OF RECEPTACLE OR DEVICE - MEASUREMENT IS TO CENTER OF BOX
- A-3 HOMERUN TO PANEL
- CONDUIT CONCEALED OVERHEAD
- CONDUIT CONCEALED IN THE FLOOR
- SWITCH LEG
- HD HAND DRYERS: EXCEL DRYER CORP. - XLERATOR MODEL XL-W, 120 V, 125 AMP. SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.

# LIGHTING PLAN NOTES

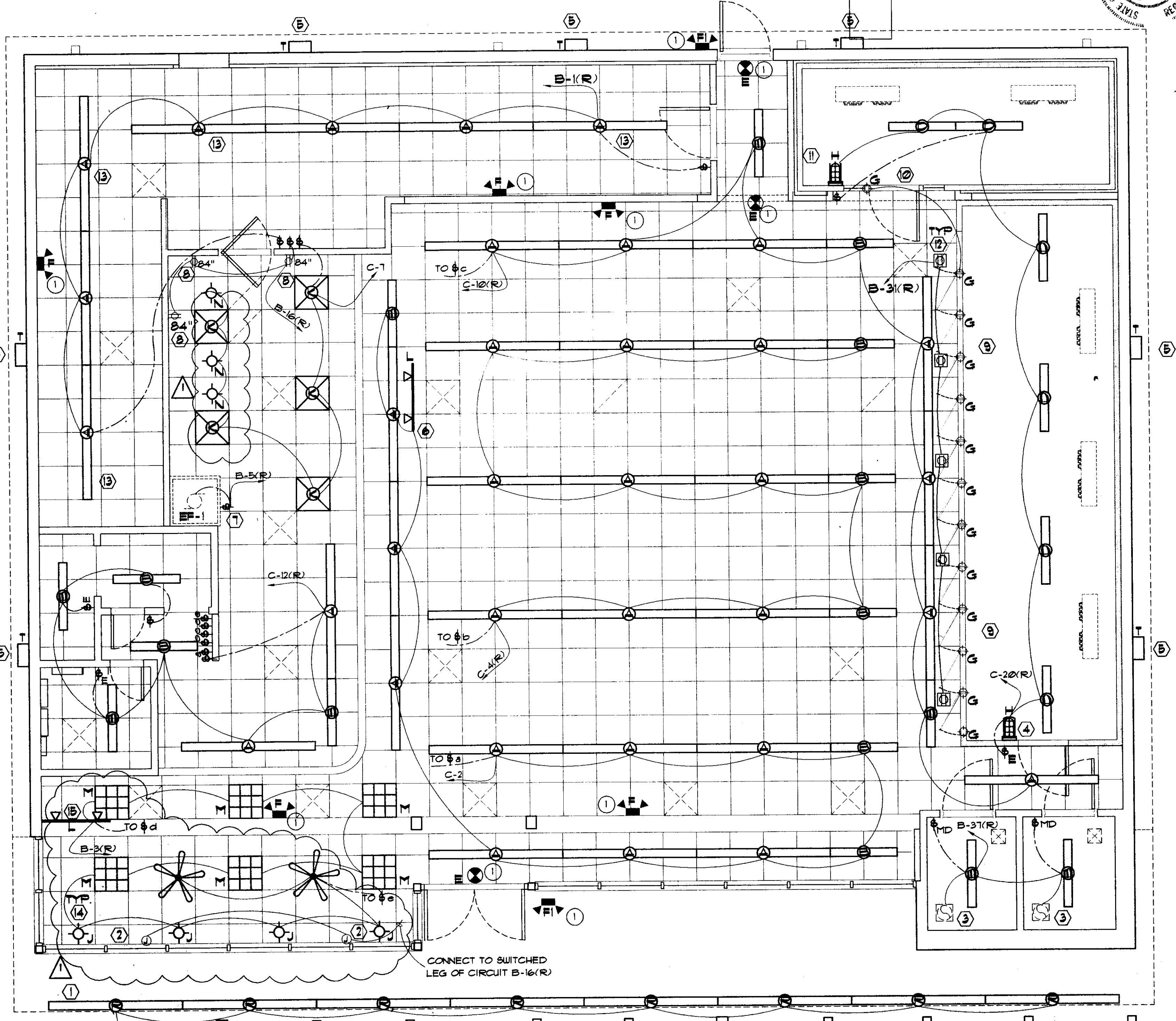
- CONNECT NEW SOFFIT MOUNTED STRIP FLUORESCENT LIGHT FIXTURES SERVING EXISTING SOFFIT MOUNTED FIXTURES SCHEDULED TO BE REMOVED.
- JUNCTION BOX ABOVE CEILING FOR WINDOW MOUNTED SUBWAY NEON SIGNS - VERIFY EXACT LOCATION WITH PANTRY PROJECT MANAGER.
- TOILET EXHAUST FAN SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR.
- EXISTING INCANDESCENT VAPOR PROOF LIGHT TO REMAIN. RE-LAMP FIXTURE, REPAIR ALL DEFICIENCIES, LEAVE IN GOOD WORKING ORDER.
- EXISTING WALL PACK TO REMAIN. RE-LAMP FIXTURE, REPAIR ALL DEFICIENCIES, LEAVE IN GOOD WORKING ORDER.
- CENTER TRACK LIGHTING ON FOAM "SUBWAY" SIGN MOUNTED TO FACE OF BULKHEAD.
- SWITCH FOR SUBWAY EXHAUST FAN TO BE MOUNTED ON FACE OF EXHAUST HOOD CANOPY. SWITCH PROVIDED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- VERIFY MOUNTING HEIGHT OF RECEPTACLES FOR SUBWAY MENU BOARD SECTIONS WITH PANTRY PROJECT MANAGER.
- RE-LAMP EXISTING WALK-IN COOLER MERCHANDISING DOOR LIGHTS. REPAIR ANY DEFICIENCIES, LEAVE IN GOOD WORKING ORDER. USE GE SP41 ECO LAMPS. ASSUMED TO BE CONNECTED TO CIRCUIT C-20.
- NEW WALK-IN COOLER MERCHANDISING DOOR LIGHT FURNISHED AND INSTALLED BY COOLER SUPPLIER, WIRED AND LAMPED BY ELECTRICAL CONTRACTOR.
- NEW VAPOR PROOF INCANDESCENT LIGHT FIXTURE FURNISHED AND INSTALLED BY COOLER SUPPLIER, WIRED AND LAMPED BY ELECTRICAL CONTRACTOR.
- RELOCATED CEILING RECEPTACLES. CENTER IN NEW TILE SECTIONS.
- PROVIDE TUBE GUARDS ON FLUORESCENT LIGHT FIXTURE LAMPS LOCATED IN THE SUBWAY FREP / STORAGE AREA
- MOUNT PENDANT LIGHTS OVER TABLES, COORDINATE LOCATION WITH PANTRY PROJECT MANAGER.
- COORDINATE LOCATION OF TRACK LIGHTING W/ WALL ART AND 2x2 LAY IN PARABOLIC LENSE LIGHT FIXTURE. (M) - MOUNT TO EXISTING BULKHEAD

### LIGHT FIXTURE SCHEDULE

MAKE	MPG	CATALOG NO.	VOLTAGE	LAMPS	BALLAST RATING	WATTS PER FIXTURE	TOTAL FIXTURES	TOTAL WATTS	REMARKS
A	LITHONIA	8TC 232 120 GEB10	120	4-F32T8 8P41 ECO	HFF	148	24	3552	8' FIXTURE W/ 4 - 4' TUBES
B	LITHONIA	C 232 120 GEB10	120	4-F32T8 8P41 ECO	HFF	74	15	1102	
C	SYMBOL NOT USED								
D	LITHONIA	DM 232 AR CU GEB 10	120	2-F32T8-3P41 ECO	HFF	74	6	444	COLD WEATHER BALLAST
E	LITHONIA	LRF IRC 120 EW	120	LED		15	2	302	EMERGENCY LIGHT TO HAVE 90 MIN BATTERY BACKUP
F	LITHONIA	6ELM2 N	120	D5-NOB06		20	5	1002	EMERGENCY LIGHT TO HAVE 90 MIN BATTERY BACKUP
G	EXISTING COOLER MERCHANDISING DOOR LIGHTS		120	1-F32T8-8P41 ECO		36	13	468	RE-LAMP EXISTING FIXTURE
H	EXISTING INCANDESCENT VAPOR PROOF LIGHT		120	60 WATT INCAND		60	2	120	RE-LAMP FIXTURE
J	PENDANT LIGHT		120	60 WATT INCAND		60	4	240	PROVIDED BY EQUIPMENT SUPPLIER INSTALLED AND LAMPED BY ELEC. CONTR.
K	LIGHTOLIER	9P82F8V42FT1208B	120	2 FT-142W/95/RS 51AX 2G11	HFF	74	21	1554	PROVIDED BY EQUIPMENT SUPPLIER INSTALLED AND LAMPED BY ELEC. CONTR.
L	LIGHTOLIER	9201UH	120	2-50 WATT HALOGEN		100	2	200	PROVIDED BY EQUIPMENT SUPPLIER INSTALLED AND LAMPED BY ELEC. CONTR.
M	LIGHTOLIER	DP42G8L82FT1208B	120	2 FT-142W/95/RS 51AX 2G11	HFF	74	6	444	PROVIDED BY EQUIPMENT SUPPLIER INSTALLED AND LAMPED BY ELEC. CONTR.
N	LIGHTOLIER	1102P1 / 1146	120	45 WATT PAR INCAND.		45	3	135	PROVIDED BY EQUIPMENT SUPPLIER INSTALLED AND LAMPED BY ELEC. CONTR.
EXTERIOR LIGHTING									
R	LITHONIA	8TC 232 120 CU	120	4-F32T8 8P41 ECO	HFF	148	8	1184	COLD WEATHER BALLAST
T	EXISTING WALL PACK TO REMAIN - RE-LAMP FIXTURE AND REPLACE LENSES - REPAIR ALL DEFICIENCIES								

NOTE: ALL FLUORESCENT LAMPS USED IN THE CONVENIENCE STORE TO BE GENERAL ELECTRIC SP41 ECO LAMPS

1) CONNECT EMERGENCY / EXIT LIGHTS TO CIRCUIT C-14 (PROVIDE LOCK ON TYPE CIRCUIT BREAKER) FURNISH AND INSTALL 90 MINUTE EMERGENCY BATTERY BACKUP FOR EACH FIXTURE.



**LIGHTING PLAN**  
1/4" = 1' = 0"

### WALL LEGEND

- EXISTING 6" WOOD FRAMED LOADBEARING WALL W/ INTERIOR SHEATHING TO REMAIN (FINISHES VARY)
- EXISTING INTERIOR WALL TO REMAIN
- EXISTING INTERIOR/EXTERIOR WALL TO BE REMOVED - THICKNESS VARIES
- NEW WOOD STUD AND GYPSUM BOARD WALLS
- 4" TK COOLER WALL PANELS TO REMAIN - NEW & EXISTING

EXISTING GROSS BUILDING SQUARE FOOTAGE CONTAINS 3,323 SQUARE FEET, 1 STORY IN HEIGHT AND BEATING AREA/ENTRY ADDITION CONTAINS 110 SQUARE FEET - TOTTALLING 3,433 SQUARE FEET - EXISTING BUILDING PRIMARY OCCUPANCY IS MERCANTILE, TYPE V-B CONSTRUCTION, BUILDING IS NOT SPRINKLED - SEE BUILDING CODE SUMMARY - SHEET T2 FOR ADDITIONAL INFORMATION

DATE: 12/1/06  
 CADD DWG. NO.: 3064-12LP  
 DRAWN BY: NZS/GAH  
 CHECKED BY: TUB  
 REVISIONS:  
 1 CHANGES DIRECTED BY OWNER 03/19/07  
 MULLINS-SHERMAN ARCHITECTS, LLP  
 1503 OLD CARBONTON RD., SANFORD, N.C. 27330  
 (919)-775-2355 FAX: (919)-774-1402  
 SUBWAY/INTERIOR RENOVATIONS  
 PANTRY #3064 aka KANGAROO  
 310 HIGHWAY 501  
 MYRTLE BEACH, SOUTH CAROLINA  
 LIGHTING PLAN  
 OF 4 TOTAL

**EXIST. PANEL "A"**  
120/208V. 4-WIRE 3 PHASE  
200 AMP MAIN BREAKER

CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION
		LOAD	"A"	"B"					"C"	LOAD	"A"				
1	200 1 12	BAFES	200	2000			1	200 1 12	200	2000			1	200 1 12	2-DOOR FREEZER
2	200 1 12	CASH REGISTER	600	3400			2	200 1 12	600	3400			2	200 1 12	2-DOOR FREEZER
3	200 1 12	LOTTO VERIFIER	720				3	200 1 12	720				3	200 1 12	2-DOOR REFRIGERATOR
4	200 1 12	CASH REGISTER	600	1632			4	200 1 12	600	1632			4	200 1 12	2-DOOR REFRIGERATOR
5	200 1 12	CHECK VERIFIER/MONEY ORDER	720	1632			5	200 1 12	720	1632			5	200 1 12	CARBONATORS
6	200 1 12	GAS DISPENSER	120				6	200 1 12	120				6	200 1 12	ICE MAKER
7	200 1 12	FUEL MAN	600	1320			7	200 1 12	600	1320			7	200 1 12	FDI COFFITER
8	200 1 12	ICE CREAM BOX	1036	1936			8	200 1 12	1036	1936			8	200 1 12	DRINK DISPENSER
9	200 1 12	ICE MERCHANDISER	1200	3200			9	200 1 12	1200	3200			9	200 1 12	CANOPY LIGHTS
10	200 1 12	MICROWAVE	1000	3000			10	200 1 12	1000	3000			10	200 1 12	3 POLE
11	200 3	57P PREMIUM	828	2828			11	200 3	828	2828			11	200 3	40 AMP BREAKER
12	200 3	3 POLE	828	1672			12	200 3	828	1672			12	200 3	FOLE LIGHT EAST
13	200 3	20 AMP BREAKER	828	1672			13	200 3	828	1672			13	200 3	2P 30 AMP BREAKER
14	200 1	SHUNT TRIP	828	828			14	200 1	828	828			14	200 1	ROAD SIGN NORTH
15	200 1	2P 100AMP BREAKER	2500	3430			15	200 1	2500	3430			15	200 1	2P 30 AMP BREAKER
16	1000 2	GAS PANEL	1000	8632			16	1000 2	1000	8632			16	1000 2	HYAC UNIT #1
17	200 3	57P DIESEL	828	3420			17	200 3	828	3420			17	200 3	3 POLE
18	200 3	3 POLE	828	3420			18	200 3	828	3420			18	200 3	100 AMP BREAKER
19	200 3	20 AMP BREAKER	828	1636			19	200 3	828	1636			19	200 3	57P UNLEADED
20	200 3	CANOPY LIGHTS	828	1672			20	200 3	828	1672			20	200 3	3 POLE
21	200 3	2P 30AMP BREAKER	828	1672			21	200 3	828	1672			21	200 3	2P 30AMP BREAKER

CALCULATED LOADS ARE COMPUTED IN ACCORDANCE WITH 2005 NEC. CHAPTER 2.

VOLT-AMPS PER PHASE: 19988 220282 22734  
AMPS PER PHASE: 166.81 161.38 162.62

\* DENOTES ISOLATED GROUND CIRCUIT  
\*\* DENOTES GROUND FAULT CIRCUIT INTERRUPTER BREAKER  
\*\*\* DENOTES CONTINUOUS  
\*\*\*\* DENOTES LARGEST MOTOR LOAD

"A" PHASE		"B" PHASE		"C" PHASE	
CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD
LIGHTING 2800	x 75% = 2100	LIGHTING 3650	x 75% = 2738	LIGHTING 4480	x 75% = 3360
RECEP/OTHER 1760	x 100% = 1760	RECEP/OTHER 8804	x 100% = 8804	RECEP/OTHER 8804	x 100% = 8804
EQUIPMENT 892	x 100% = 892	EQUIPMENT 192	x 100% = 192	EQUIPMENT 1228	x 100% = 1228
HYAC EQUIP 892	x 100% = 892	HYAC EQUIP 892	x 100% = 892	HYAC EQUIP 892	x 100% = 892
LARGEST MOTOR 828	x 75% = 621	LARGEST MOTOR 828	x 75% = 621	LARGEST MOTOR 828	x 75% = 621
CONTINUOUS	x 75% =	CONTINUOUS	x 75% =	CONTINUOUS	x 75% =
INTERMITTENT	x 100% =	INTERMITTENT	x 100% =	INTERMITTENT	x 100% =
CONN. LOAD = 19988	DEMAND LOAD = 22028	CONN. LOAD = 20802	DEMAND LOAD = 20802	CONN. LOAD = 22734	DEMAND LOAD = 22734
DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 22734 / 120 = 189.45		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 20802 / 120 = 173.35		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 22734 / 120 = 189.45	

NEW TOTAL ELECTRICAL LOAD IMPARTED ON EXISTING ELECTRICAL PANEL "A" DOES NOT EXCEED THE MAXIMUM LOAD THAT CAN BE PLACED ON THE PANEL DUE TO THE 200 AMP MAIN BREAKER WHICH CONTROLS THE PANEL.

**EXIST. PANEL "B"**  
120/208V. 4-WIRE 3 PHASE  
200 AMP MAIN BREAKER

CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION
		LOAD	"A"	"B"					"C"	LOAD	"A"				
1	200 1 12	PREP / STORAGE LIGHTS	184	1840			1	200 1 12	184	1840			1	200 1 12	FLY FAN / FLY LIGHT
2	200 1 12	SUBWAY SEATING LIGHTS	144	1644			2	200 1 12	144	1644			2	200 1 12	PREP / STORAGE RECEPTACLE
3	200 1 12	SUBWAY EXHAUST FAN	528	808			3	200 1 12	528	808			3	200 1 12	CIGARETTE DISPLAY OUTLETS
4	200 1 12	SUBWAY COUNTER RECEPTACLES	160	280			4	200 1 12	160	280			4	200 1 12	FOOD LIGHTS
5	200 1 12	SUBWAY REFRIGERATED TABLE	272	272			5	200 1 12	272	272			5	200 1 12	2P 30 AMP BREAKER
6	200 1 12	SUBWAY MICROWAVE	1200	1200			6	200 1 12	1200	1200			6	200 1 12	UNKNOWN
7	200 1 12	SUBWAY HOLDING CABINET	120	116			7	200 1 12	120	116			7	200 1 12	SUBWAY MENU BOARD / NEON
8	200 1 12	SUBWAY HOT UNIT	520	1020			8	200 1 12	520	1020			8	200 1 12	SUBWAY CASH REGISTER
9	200 1 12	SUBWAY COLD UNIT	1020	2720			9	200 1 12	1020	2720			9	200 1 12	COFFEE MAKER #1
10	200 1 12	SUBWAY COLD UNIT	1020	2720			10	200 1 12	1020	2720			10	200 1 12	COFFEE MAKER #2
11	200 1 12	BISCUIT WARMER / CREAMER	600	2300			11	200 1 12	600	2300			11	200 1 12	COFFEE MAKER #3
12	200 1 12	COFFEE GRINDER	600	952			12	200 1 12	600	952			12	200 1 12	HYAC UNIT #2
13	200 1 12	STEAMER	1800	1032			13	200 1 12	1800	1032			13	200 1 12	3 POLE
14	200 1 12	CHICKEN WARMERS	1000	960			14	200 1 12	1000	960			14	200 1 12	100 AMP BREAKER
15	200 1 12	CEILING RECEPTACLES	920	2400			15	200 1 12	920	2400			15	200 1 12	AIR / VAC
16	200 1 12	CAFFUCCINO MACHINE #1	1180	4341			16	200 1 12	1180	4341			16	200 1 12	SUBWAY CONVECTION OVEN
17	200 1 12	CAFFUCCINO MACHINE #2	1180	4341			17	200 1 12	1180	4341			17	200 1 12	2P 30AMP BREAKER
18	200 1 12	RESTROOM LIGHTS	504	2904			18	200 1 12	504	2904			18	200 1 12	3-1/2" N 3/4" CONDUIT
19	200 1 12	SQUARE	2000	2000			19	200 1 12	2000	2000			19	200 1 12	SUBWAY TOASTER OVEN
20	200 1 12	RESTROOM HALL/SUBWAY SEATING RECEPT	840	840			20	200 1 12	840	840			20	200 1 12	2P 30 AMP BREAKER

CALCULATED LOADS ARE COMPUTED IN ACCORDANCE WITH 2005 NEC. CHAPTER 2.

VOLT-AMPS PER PHASE: 21256 23431 21041  
AMPS PER PHASE: 176.41 195.26 175.33

\* DENOTES ISOLATED GROUND CIRCUIT  
\*\* DENOTES GROUND FAULT CIRCUIT INTERRUPTER BREAKER  
\*\*\* DENOTES CONTINUOUS  
\*\*\*\* DENOTES LARGEST MOTOR LOAD

"A" PHASE		"B" PHASE		"C" PHASE	
CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD
LIGHTING 2284	x 75% = 1713	LIGHTING 1680	x 75% = 1260	LIGHTING 3000	x 75% = 2250
RECEP/OTHER 1000	x 100% = 1000	RECEP/OTHER 3000	x 100% = 3000	RECEP/OTHER 3000	x 100% = 3000
EQUIPMENT 920	x 100% = 920	EQUIPMENT 1228	x 100% = 1228	EQUIPMENT 1228	x 100% = 1228
HYAC EQUIP 892	x 100% = 892	HYAC EQUIP 892	x 100% = 892	HYAC EQUIP 892	x 100% = 892
LARGEST MOTOR 828	x 75% = 621	LARGEST MOTOR 828	x 75% = 621	LARGEST MOTOR 828	x 75% = 621
CONTINUOUS	x 75% =	CONTINUOUS	x 75% =	CONTINUOUS	x 75% =
INTERMITTENT	x 100% =	INTERMITTENT	x 100% =	INTERMITTENT	x 100% =
CONN. LOAD = 21256	DEMAND LOAD = 21621	CONN. LOAD = 23431	DEMAND LOAD = 23881	CONN. LOAD = 21041	DEMAND LOAD = 21041
DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 21621 / 120 = 180.18		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 23881 / 120 = 199.01		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 21041 / 120 = 175.34	

NEW TOTAL ELECTRICAL LOAD IMPARTED ON EXISTING ELECTRICAL PANEL "B" DOES NOT EXCEED THE MAXIMUM LOAD THAT CAN BE PLACED ON THE PANEL DUE TO THE 200 AMP MAIN BREAKER WHICH CONTROLS THE PANEL.

**COOLER CONDENSING UNIT PANEL (EXTERIOR)**  
120/208V. 4-WIRE 3 PHASE  
100 AMP M.L.O.

CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION
		LOAD	"A"	"B"					"C"	LOAD	"A"				
1	30 3	EXISTENTIAL IN COOLER CONDENSING UNIT	2800	3060			1	30 3	2800	3060			1	30 3	UNKNOWN ASSUMED RECEPTACLE
2	30 3	3 POLE	2800	3782			2	30 3	2800	3782			2	30 3	BEER COOLER EVAPORATOR
3	30 3	30 AMP BREAKER	2800				3	30 3	2800				3	30 3	SPACE
4	30 3	3 POLE	2800	2800			4	30 3	2800	2800			4	30 3	SPACE
5	30 3	30 AMP BREAKER	2800				5	30 3	2800				5	30 3	SPACE
6	30 3	30 AMP BREAKER	2800				6	30 3	2800				6	30 3	SPACE

CALCULATED LOADS ARE COMPUTED IN ACCORDANCE WITH 2005 NEC. CHAPTER 2.

VOLT-AMPS PER PHASE: 3940 6672 5760  
AMPS PER PHASE: 328.33 556.00 480.00

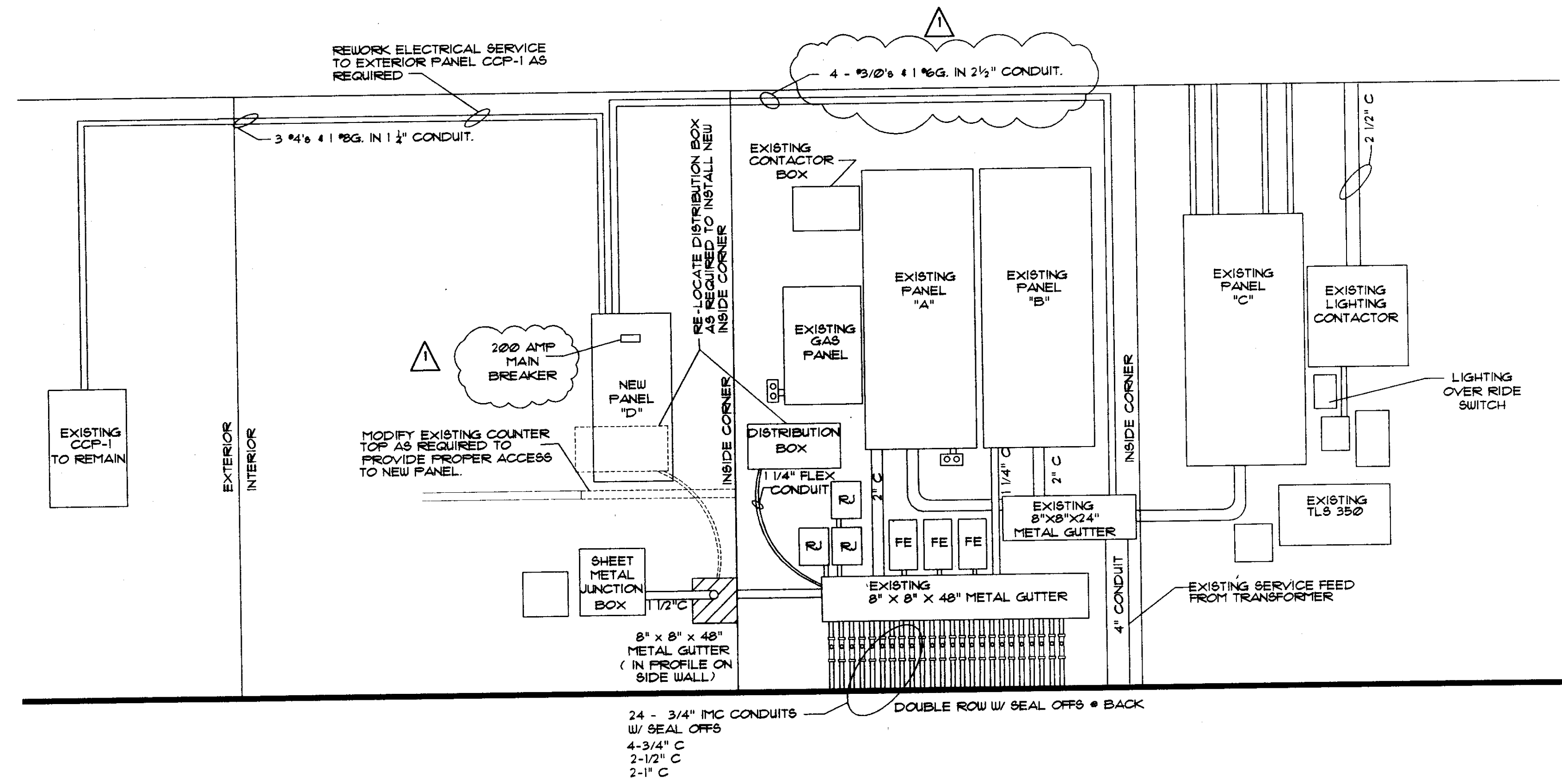
\* DENOTES ISOLATED GROUND CIRCUIT  
\*\* DENOTES GROUND FAULT CIRCUIT INTERRUPTER BREAKER  
\*\*\* DENOTES CONTINUOUS  
\*\*\*\* DENOTES LARGEST MOTOR LOAD

"A" PHASE		"B" PHASE		"C" PHASE	
CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD	CONNECTED LOAD	DEMAND LOAD
LIGHTING	x 75% =	LIGHTING	x 75% =	LIGHTING	x 75% =
RECEP/OTHER	x 100% =	RECEP/OTHER	x 100% =	RECEP/OTHER	x 100% =
EQUIPMENT	x 100% =	EQUIPMENT	x 100% =	EQUIPMENT	x 100% =
HYAC EQUIP	x 100% =	HYAC EQUIP	x 100% =	HYAC EQUIP	x 100% =
LARGEST MOTOR 2800	x 75% = 2100	LARGEST MOTOR 2800	x 75% = 2100	LARGEST MOTOR 2800	x 75% = 2100
CONTINUOUS	x 75% =	CONTINUOUS	x 75% =	CONTINUOUS	x 75% =
INTERMITTENT	x 100% =	INTERMITTENT	x 100% =	INTERMITTENT	x 100% =
CONN. LOAD = 3940	DEMAND LOAD = 6660	CONN. LOAD = 6672	DEMAND LOAD = 7392	CONN. LOAD = 5760	DEMAND LOAD = 5760
DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 6660 / 120 = 55.50		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 7392 / 120 = 616.00		DEMAND LOAD VA/VOLTAGE+AMPS PER PHASE 5760 / 120 = 480.00	

NEW TOTAL ELECTRICAL LOAD IMPARTED ON EXISTING ELECTRICAL PANEL "C" DOES NOT EXCEED THE MAXIMUM LOAD THAT CAN BE PLACED ON THE PANEL DUE TO THE 100 AMP BREAKER LOCATED IN PANEL "D" WHICH CONTROLS THE PANEL.

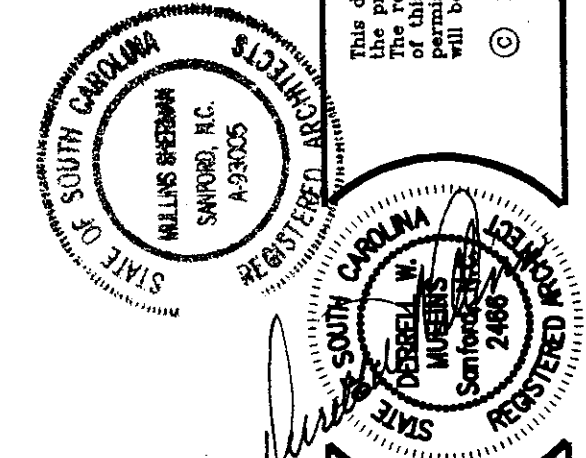
**EXIST. PANEL "C"**  
120/208V. 4-WIRE 3 PHASE  
200 AMP MAIN BREAKER

CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION	VOLT-AMPS			WIRE	BRK.	CIRCUIT NO.	CIRCUIT DESCRIPTION
		LOAD	"A"	"B"					"C"	LOAD	"A"				
1	200 1 12	OUTSIDE PLUG/ CHILI CHEESE DISP.	432	1468			1	200 1 12	432	1468			1	200 1 12	SALES AREA LIGHTS
2	200 1 12	LADIES HAND DRYER	1800	3094			2	200 1 12	1800	3094					



**REVISED ELECTRICAL RISER DIAGRAM**  
 1/4" = 1' - 0"

DATE	12/11/06
CADD DWG. NO.	3064-BARD
DRAWN BY	GAH
CHECKED BY	TUB
REVISIONS	03/16/07



**MULLINS-SHERMAN ARCHITECTS LLP**  
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SUBWAY/INTERIOR RENOVATIONS  
 PANTRY #3064 aka KANGAROO  
 3110 HIGHWAY 501  
 MYRTLE BEACH, SOUTH CAROLINA  
 RISER DIAGRAM