

MANUFACTURER: SQUARE D NQOD
BUS RATING: 400 A
MAINS: MLO
AIC RATING: 22K
MOUNTED: RECESSED

3 PHASE
120/208 VOLTS
1 NEMA

NAME: **PANEL PP SEC. 1**
PROJECT NAME: FAMILY DOLLAR FORT WHITE FL
PROJECT NUMBER: 2012-001

MANUFACTURER: SQUARE D NQOD
BUS RATING: 400 A
MAINS: MLO
AIC RATING: 22K
MOUNTED: RECESSED

3 PHASE
120/208 VOLTS
1 NEMA

NAME: **PANEL PP SEC. 2**
PROJECT NAME: FAMILY DOLLAR FORT WHITE FL
PROJECT NUMBER: 2012-001

NOTES	CKT NO.	IDENTIFICATION	WIRE	C O D E	LOAD/PHASE (KVA)			CIRCUIT BREAKER				LOAD/PHASE (KVA)			C O D E	WIRE	IDENTIFICATION	CKT NO.	NOTES
					A	B	C	TRIP	P	P	TRIP	A	B	C					
	1	SALES AREA RECEPT.	12	R	1.00			20	1	1	20	0.68			L	12	EMERGENCY/EXIT LIGHTS	2	
	3	CASH OUT RECEPT.	12	R		0.54		20	1	1	20		1.68		L	12	SALES AREA LIGHT	4	
	5	CASH REGISTER IG RECEPT.	12	R			0.36	20	1	1	20			1.07	L	12	SALES AREA LIGHT	6	
	7	CASH REGISTER IG RECEPT.	12	R	0.36			20	1	1	20	1.07			L	12	SALES AREA LIGHT	8	
	9	CASH REGISTER IG RECEPT.	12	R		0.36		20	1	1	20		0.84		L	12	SALES AREA LIGHT	10	
	11	COKE MACHINE RECEPT.	12	R			1.20	20	1	1	20			0.76	L	12	RECEIVING AREA LIGHT	12	
	13	PROMO DISPLAY	12	R	1.20			20	1	1	20	1.07			L	12	SALES AREA LIGHT	14	
	15	EXT. RECEPT	12	R		0.36		20	1	1	20		1.07		L	12	SALES AREA LIGHT	16	
	17	EXT. RECEPT	12	R			0.36	20	1	1	20			1.07	L	12	SALES AREA LIGHT	18	
	19	OFFICE RECEPT	12	R	0.18			20	1	1	20	1.07			L	12	SALES AREA LIGHT	20	
	21	OFFICE AREA RECEPT.	12	R		0.54		20	1	1	20		1.07		L	12	SALES AREA LIGHT	22	
	23	BREAKROOM RECEPT.	12	R			0.36	20	1	1	20			0.96	L	12	SALES AREA LIGHT	24	
	25	ELECT. WATER COOLER	12	R	0.18			20	1	1	20	0.96			L	12	SALES AREA LIGHT	26	
	27	SPARE						20	1	1	20						SPARE	28	
	29	UNI-CRUI/ATM	10	R			1.20	20	1	1	20			1.00	R	12	NUTCH ALARM SYSTEM	30	
	31	HAND DRYER	12	R	1.00			20	1	1	20	1.00			R	12	OUTSIDE ALARM SYSTEM	32	
	33	HAND DRYER	12	R		1.00		20	1	1	20		1.00		M	12	LIGHTING CONTROLS	34	
	35	WATER HEATER	12	M			1.80	20	1	1	20			1.00	R	12	EAS	36	
	37	SIGNAL BELL	12	R	1.00			20	1	1	20	1.00			R	12	TELEPHONE BOARD	38	
	39	SPARE						20	1								SPACE	40	
	41	IRRIGATION SYSTEM	12	R			0.36	20	1								SPACE	42	
					4.9	2.8	5.6					6.9	5.7	5.9					

TOTAL KVA PHASE A: 11.77
TOTAL KVA PHASE B: 8.46
TOTAL KVA PHASE C: 11.50

CONNECTED KVA PP SEC 1: 31.73
CONNECTED AMPS PP SEC 1: 88.08

TOTAL DEMAND KVA PANEL PP SECT 1&2: 136.1
TOTAL DEMAND AMPS PANEL PP SECT 1&2: 378

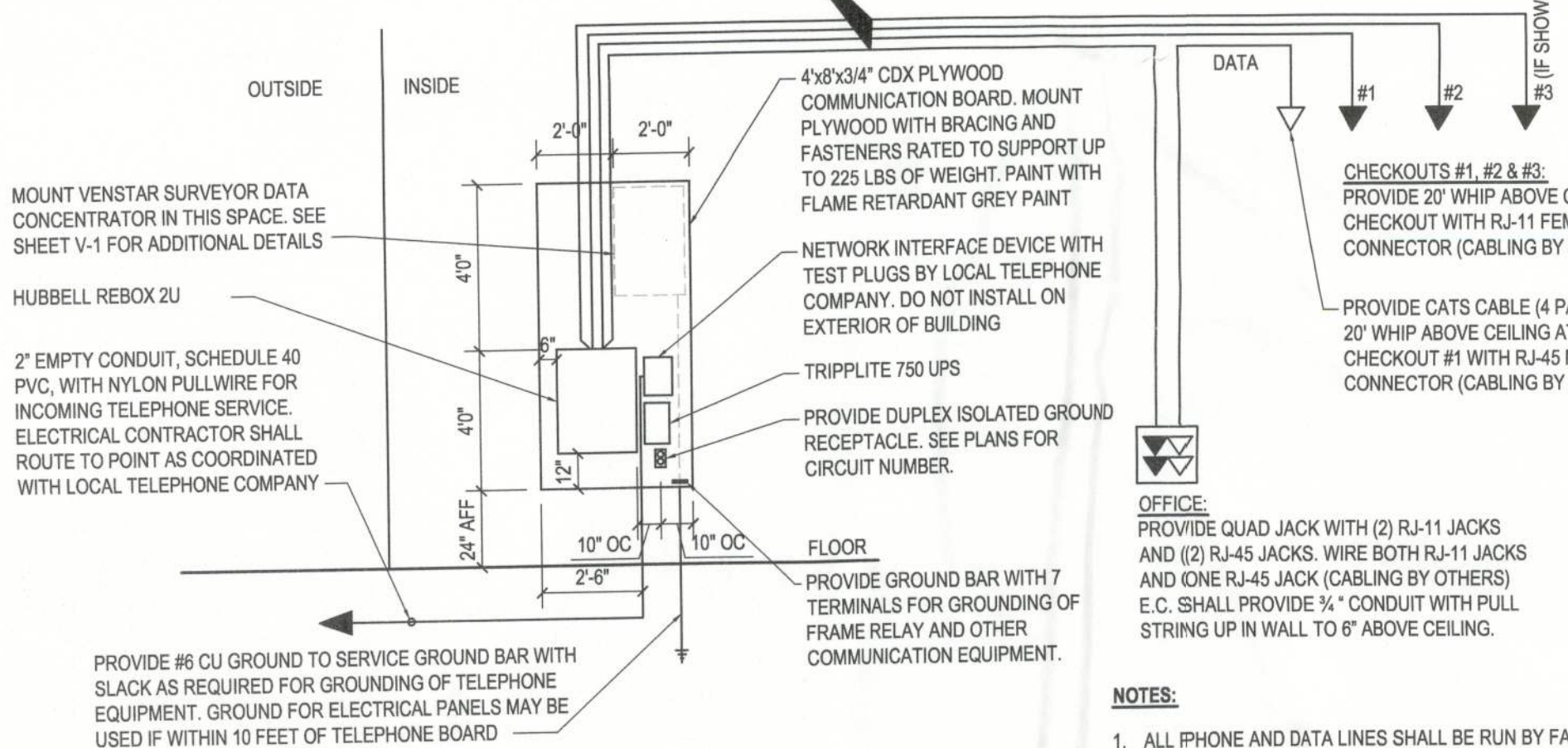
	CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	16.81	1.25	21.0
RECEPTACLES (R)	15.56	NEC	10.1
MISC. EQUIPMENT LOAD (M)	104.94	1.00	104.9

NOTE 1
NOTE 2
NOTE 3

- NOTES: 1) LIGHTING DEMAND FACTOR OF 125%
2) PER N.E.C. TABLE 220.44 - DEMAND FACTORS FOR NON-DWELLING RECEPT. LOADS
3) DEMAND FACTOR OF 100%

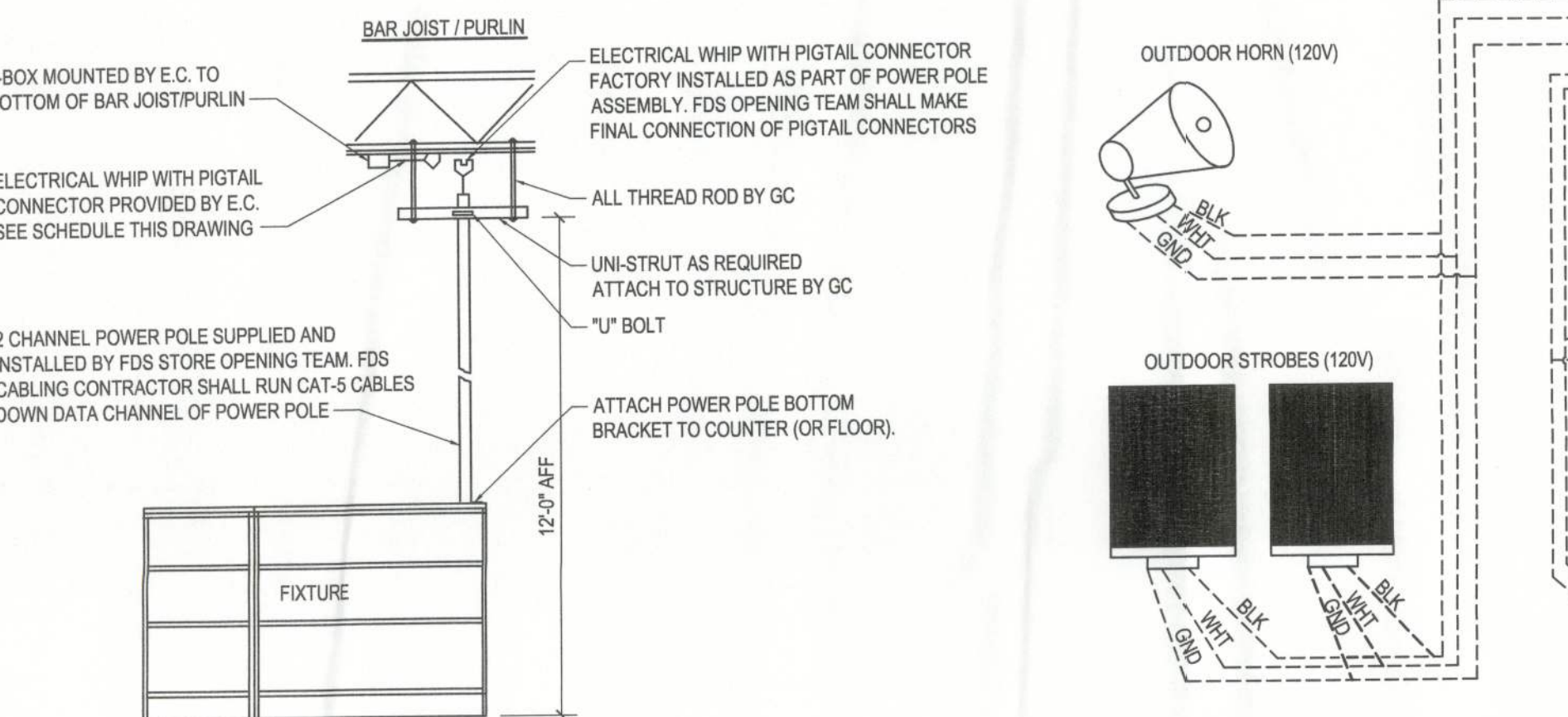
NOTE: ALL INSTALLATION INSTRUCTIONS FOR VENSTAR SURVEYOR EQUIPMENT WILL BE PROVIDED TO THE ELECTRICAL CONTRACTOR BY VENSTAR.

CAT. 5 CABLE (4 PAIRS) BY OTHERS. (E.C. SHALL PROVIDE CONDUIT WITH PULL STRING ONLY IF REQUIRED BY CODE).



2 Telephone Board Diagram

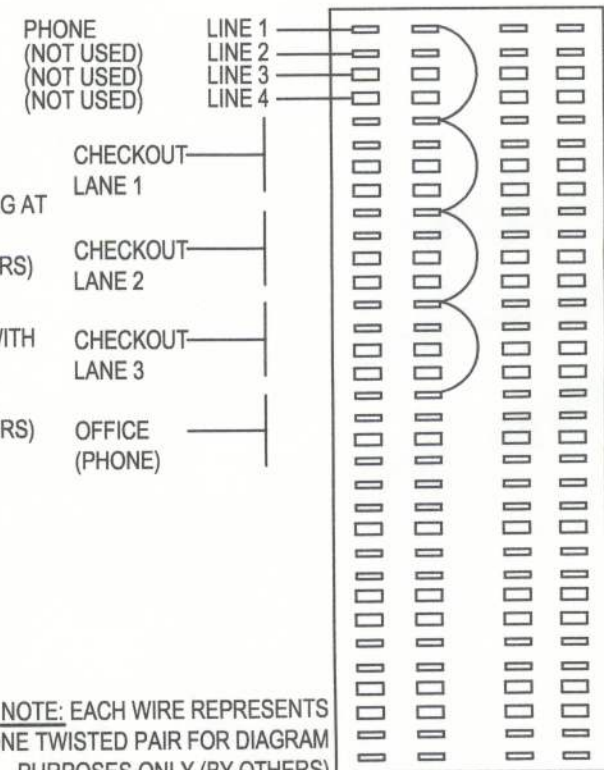
E102 SCALE: NTS



4 Power Pole Installation Detail

E102 SCALE: NTS

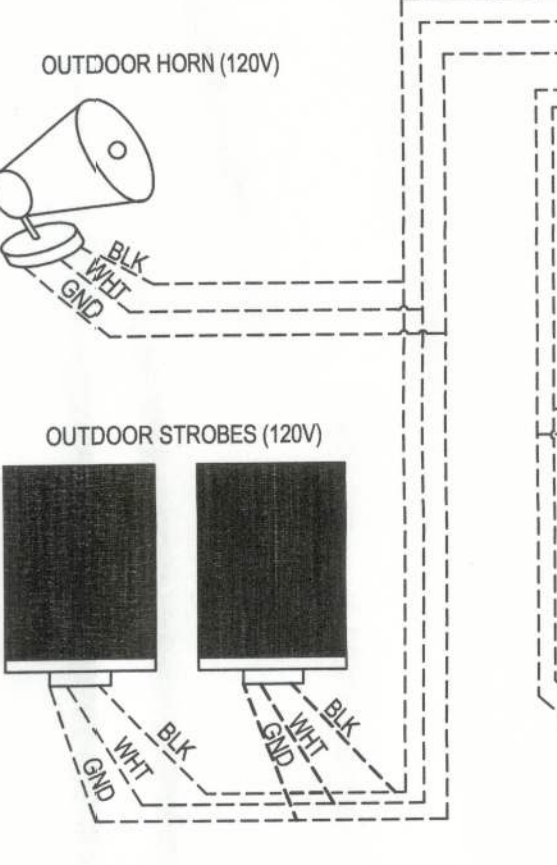
TELEPHONE PUNCHDOWN BLOCK WIRING SCHEMATIC



NOTE: EACH WIRE REPRESENTS ONE TWISTED PAIR FOR DIAGRAM PURPOSES ONLY (BY OTHERS)

NOTES:

- ALL IPHONE AND DATA LINES SHALL BE RUN BY FAMILY DOLLAR'S CABLING SUBCONTRACTOR. INSTALLATION SHALL COMPLY WITH ALL CITY & STATE CODES. E.C. SHALL BE RESPONSIBLE FOR PROVIDING CONDUIT WITH PULL STRING FOR ALL PHONE AND DATA LINES WHERE REQUIRED BY CODE.
- CONDUIT FOR INCOMING TELEPHONE SERVICE SHALL BE RUN UP INSIDE FACE OF EXTERIOR WALL TO DMARC ON TELEPHONE BOARD INSIDE BUILDING. DO NOT INSTALL CONDUIT EXPOSED ON FACE OF EXTERIOR WALL.
- ELECTRICAL CONTRACTOR SHALL INSTALL PLYWOOD TELEPHONE BACKBOARD, CONDUIT W/ PULL STRING, GROUND BAR, AND DUPLEX RECEPTACLE A MINIMUM OF 6 WEEKS PRIOR TO DELIVERY DATE OF STORE TURNOVER TO FDS.



5 Exterior Motion Sensor Detail

E102 SCALE: NTS

TOTAL KVA PHASE A: 35.46
TOTAL KVA PHASE B: 33.98
TOTAL KVA PHASE C: 36.14

TOTAL CONNECTED KVA PP SEC 2: 105.58
TOTAL CONNECTED AMPS PP SEC 2: 293.06

NOTES:

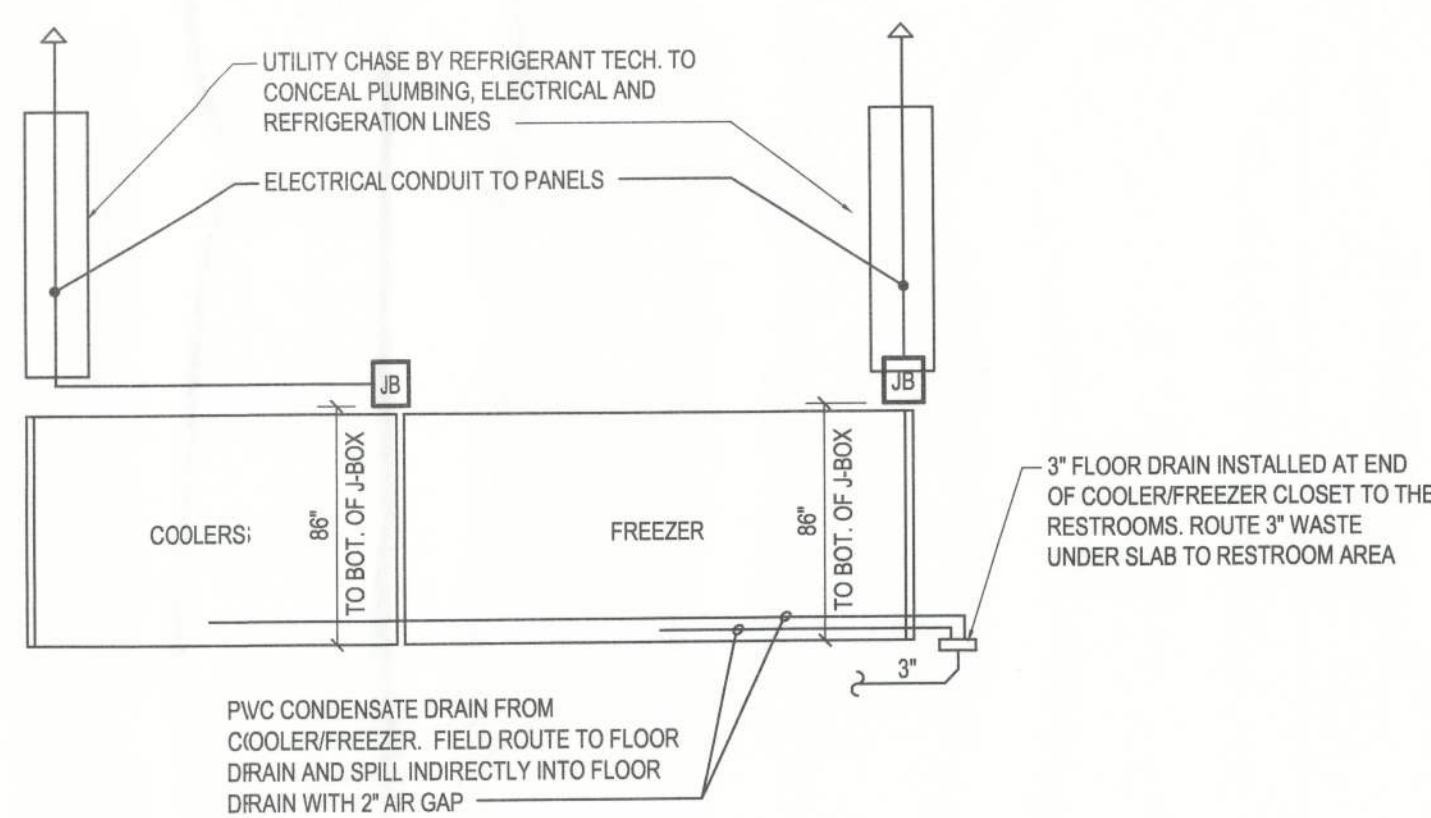
EXTERIOR SAFETY SWITCH: 400A/3P/IN, 3PH, 4W, 208V, NEMA 3R, SERVICE ENTRANCE WITH (3) CLASS J FUSES. NOTE: CLASS J FUSES ARE REQUIRED FOR 100K AIC SERIES RATING

NOTE: COORDINATE INSTALLATION OF BONDING PROVISIONS FOR CONCRETE-ENCASED ELECTRODE IN FOOTING AT TIME FOOTINGS ARE INSTALLED FOR INSPECTION BY FIELD ELECTRICAL INSPECTOR. THERE SHALL BE NO SPLICES IN THE GROUNDING ELECTRODE CONDUCTOR

3 Power Riser Diagram

E102 SCALE: NTS

NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE NEW METER BASE AND CT CABINET. OVERHEAD ELECTRICAL UTILITY SERVICE BY LOCAL UTILITY. COORDINATE EXACT REQUIREMENTS WITH LOCAL UTILITY



6 COOLER/FREEZER CASE INSTALLATION DETAIL

E102 SCALE: NTS

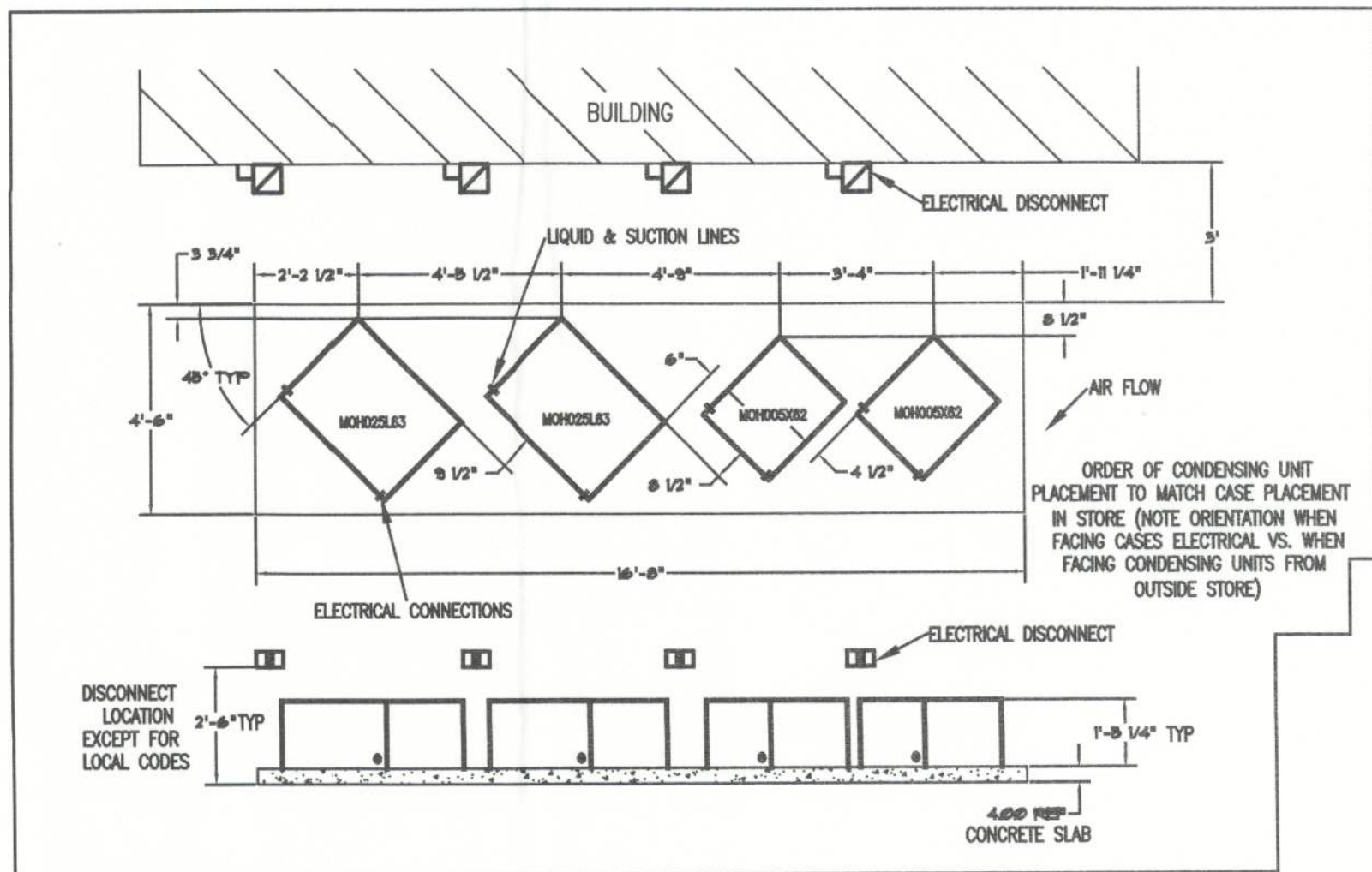
PIGTAIL LIST	
QTY & ITEM # OF D & P PLUGS	
# GREEN (ID4-IG) & # BROWN (ID3)	
1 GREEN (ID4-1G)	
# GREEN (ID4-1G)	
# GREEN (ID4-1G)	
# BROWN (ID3)	
# BROWN (ID3)	
FREEZER & COOLER - BROWN (624FDS005)	
ADD FOR SINGLE PHASE WHIP 1DB-35FT. (624FDS007)	
MONITOR PLUG BROWN WITH DUPLEX (000MW054F)	
NOTE: ALL POWER IS TO BE DROPPED FROM CEILING AT LOCATIONS SPECIFIED ON FLOOR PLAN.	

NOTE: CONFIRM EXACT LOCATION OF ALL J-BOXES WITH FDS PROJECT MANAGER PRIOR TO INSTALLATION. MOUNT ALL J-BOXES AT 12'-0" AFF. CONTACT D&P CUSTOM LIGHTS AT (800) 231-2200, ATTN: TAMMY FOR WHIPS WITH PIGTAILS FOR CONNECTION TO J-BOXES ABOVE CEILING.

PROVIDE WHIPS FOR ALL PIGTAIL LOCATIONS (SEE SCHEDULE)

POWER POLE LIST		
TYPE	ITEM #	QTY
CHECKOUT - 15'	8029529	#
UNICRU - 15'	8029529	1
EAS - 15'	8020275	#
PRICE CKR - 15'	8029529	#
aisle - 8'	8029487	#
COKE - 15'	8029529	#
COOLERS - 15'	8029530	#
SECURITY MONITOR	N/A	1
NOTE: POWER POLE SHALL BE ORDERED AND INSTALLED FOR STORES THAT OPEN WITH COOLERS & READY FOR COOLERS.		

NOTE: SEE SHEET A-101 FOR RESTROOMS PLUMBING AND ELECTRICAL INFORMATION



7 COOLER/FREEZER CONDENSING UNITS INSTALLATION DETAIL

E102 SCALE: NTS

ENERGY CODE LIGHTING CALCULATION

QTY	FIXTURE	WATTS PER FIXTURE	TOTAL
INTERIOR			
100	A	112	11200
7	A2	56	392
12	B	56	672
2	B2	28	56
6	D	112	672
2	D2	56	112

TOTAL LUMINAIRE WATTAGE = 13104

BUILDING SQUARE FOOTAGE= 8320

BUILDING WATTS PER SQ. FT.= 1.58 NOTE 1

EXTERIOR CANOPY			
5	A2	56	280

TOTAL LUMINAIRE WATTAGE = 280

BUILDING SQUARE FOOTAGE= 400

BUILDING WATTS PER SQ. FT.= 0.70 NOTE 2

NOTE 1: PER TABLE 13-415.B.1 OF THE FBC 09 W/ SUPPLEMENTS; RETAIL, SALES AREA, THIS BUILDING SATISFIES THE ALLOWABLE LIGHTING POWER DENSITY OF 1.7 WATTS PER SQUARE FOOT.

NOTE 2: PER TABLE 14-415.AB.2.2 OF THE FBC 09 W/ SUPPLEMENTS; CANOPIES, THIS BUILDING SATISFIES THE ALLOWABLE LIGHTING POWER DENSITY OF 1.25 WATTS PER SQUARE FOOT.

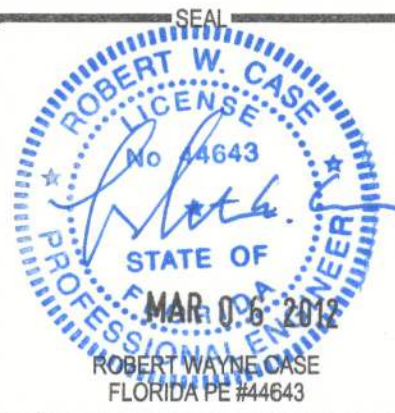
CLIENT NAME: STEPHENS BARRIOS

823 IRMA AVENUE
ORLANDO, FLORIDA, 32803

PROJECT NAME: FAMILY DOLLAR STORE

PLAN # 2011-04 / 104x80
FORT WHITE, FL

SHEET TITLE: Electrical Schedule and Details



RELEASE	DATE
1	
2	
3	
4	
5	
6	

PROJECT NO.

2012-001

ISSUE DATE

02/22/2012

DRAWN

JC

CHECKED

CS

E102

ARCHITECTURE
ENGINEERING
LAND SURVEYING

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