TRANSFORMER LOAD SUMMARY

DESCRIPTION	ACTUAL CONNECTED (kW/kVA)	POWER FACTOR	DEMAND FACTOR	DEMAND (kVA)
LIGHTING	10.726	1.0	1.25	13.408
RECEPTACLES	17.312	1.0	1.0< 10Kw 0.5 REMAINING	13.656
MOTORS	0.603	1.0	1.25	0.754
AIR CONDITIONING	0.000	1.0	1.0	0.000
WATER HEATER	11.320	1.0	1.0	11.320
MISCELLANEOUS	2.740	1.0	1.0	2.740
TOTAL	42.701			41.878

USE 75 KVA 480-120/208V, 3 PHASE TRANSFORMER

ELECTRICAL LOAD SUMMARY

DESCRIPTION	CONNECTED (kW/kVA)	POWER FACTOR	DEMAND FACTOR		DEMAND (kVA)
LIGHTING	10.366	1.0	1.25		12.958
TRACK LIGHTING	0.000	1.0	0 FT	150VA/2FT ***	0.000
SHOW WINDOW	0.360	1.0	0 FT	200VA/FT **	0.360
RECEPTACLES	17.312	1.0	1.0< 10Kw 0.5 REMAINING		13.656
MOTORS	4.009	1.0	1.25		5.011
AIR CONDITIONING *	12.954	1.0	1.0 ****		12.954
ELECTRIC HEATING *	0.000	1.0	1.0		0.000
WATER HEATER	11.320	1.0	1.0		11.320
MISCELLANEOUS	2.740	1.0	1.0		2.740
TOTAL	59.068				58.999

NOTES:

* USE GREATER LOAD OF THE TWO CATAGORIES

** 200VA PER FOOT OR CONNECTED

*** 150VA/2FT OR CONNECTED

**** 125% OF THE LARGEST MOTOR OR COMPRESSOR IN SYSTEM

DEMAND kW *1000 / SYSTEM VOLTAGE * 1.732 = MINIMUM FEEDER AMPERAGE

58.999 *1000 / 480 *1.732 = **71 A**

EXISTING 125A SERVICE

PANELBOARD B

LOCATION: WR ENCLOSURE (IFS)

VOLTAGE 120/208V., 3PH, 4W
MOUNTING SURFACE
BUS RATING 100A

100A MCB
A.I.C.: 10,000A

LCL	LTG ZONE	CCT NO.	LOAD DESCRIPTION	CB AMP	CB POLE	LOAD A	LOAD B	LOAD C	CB AMP	CB POLE	LOAD DESCRIPTION	CCT NO.	LTG ZONE	LCL
		1	SPARE	20	1	0	1,500		20	2	WH-2	2		
		3	MANAGER'S RCPT	20	1	360		1,500				4		
		5	MANAGER'S IG RCPT	20	1		540		720	1	CASHWRAP	6		
		7	BACKWRAP RCPT	20	1	1,440	720		20	1	CASHWRAP IG	8		
		9	WB-CASHWRAP	20	1		540	1,080		20	1	BACKWRAP	10		
		11	WB-CASHWRAP IG	20	1		540		500	1	(WR) TEMP. CONTROLS	12		
		13	WALKIE TALKIE	20	1	360	360		20	1	(WR) TELEPHONE BRD	14		
		15	SPARE	20	1	0		180	20	1	SCENTAIR	16		
		17	VAV-1	15	1			516	180	20	1	A.L.L SYSTEM	18		
		19	NON-SALES RCPT	20	1	540	1,800			20	1	DRINKING FOUNTAIN	20		
		21	MICROWAVE	20	1			1,000	0	20	1	SPARE	22		
		23	REFRIGERATOR	20	1				1,200	20	1	SPARE	24		
		25	SPARE	20	1	0	0			20	1	SPARE	26		
		27	SPARE	20	1		0		0	20	1	SPARE	28		
		29	SPARE	20	1			0		20	2	SPARE	30		
		31	SPARE	20	1	0	0						32		
		33	SPARE	20	1		0		0	20	1	SPARE	34		
		35	SPARE	20	1			0		20	1	SPARE	36		
		37	SPARE	20	1	0	0			20	1	SPARE	38		
		39	SPARE	20	1		0		0	20	1	SPARE	40		
		41	SPARE	20	1			0		20	1	SPARE	42		
			LOAD/PH: (CONNECTED)			6,720	4,660	4,196						
			LCL @ 25% PER PHASE			0	0	0						
			TOTAL LOAD/PH: (DEMAND)			6,720	4,660	4,196						

TOTAL VA: 15,576 VA
TOTAL AMPS: 43 A

NOTES:
ALL CIRCUITS BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.

CONNECTED LOAD A 6,720 kW, B 4,660 kW, C 4,196 kW, **TOTAL** 15,576 kW

CONNECTED DEMAND A 6,720 kW, B 4,660 kW, C 4,196 kW, **TOTAL** 15,576 kW

(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)

BREAKER OPTIONS:
BABR - SOLENOID OPERATED BABR
LO - HANDLE LOCK-OFF DEVICE
ST - SHUNT TRIP
AUX - AUXILIARY CONTACTS
PA - HANDLE PADLOCK ATTACHMENT
GFCI - GROUND FAULT INTERRUPT
HACR - HEATING, A/C & REFRIGERATION
LCL - CONTINUOUS LOAD

PANELBOARD A

LOCATION: WR ENCLOSURE (IFS)

VOLTAGE 120/208V., 3PH, 4W
MOUNTING SURFACE
BUS RATING 225A

125A MCB
A.I.C.: 10,000A

LCL	CL	LTG ZONE	CCT NO.	LOAD DESCRIPTION	CB AMP	CB POLE	LOAD A	LOAD B	LOAD C	CB AMP	CB POLE	LOAD DESCRIPTION	CCT NO.	LTG ZONE	CL	LCL
LO	X		1	STORE NL/EM LTS/FAN	20	1	1,082	319		20	1	STOCKROOM LTS	2	B		X
	X		3	SHOW WINDOW LTS	20	1		360		20	1	WB SALES GEN. LTS	4	B		X
	X		5	LED STOREFRONT	20	1			1,000	20	1	WB SALES GEN. LTS	6	C		X
	X		7	LED STOREFRONT	20	1	1,000	372		20	1	SALES GEN. AREA LTS	8	B		X
	X		9	CABINET LTS	20	1		400	372	20	1	SALES GEN. AREA LTS	10	C		X
	X		11	CABINET LTS	20	1			480	20	1	WB SALES DISPLAY LTS	12	D		X
	X		13	CABINET LTS	20	1	672	1,496	1,348	20	1	SALES DISPLAY LTS	14	D		X
	X		15	CABINET LTS	20	1		552	720	20	1	SHOW WINDOW RCPTS	16	A		X
			17	VIDEO WALL	20	1			720	640	20	1	WB CAB LTS/SCENTAIR	18	D		X
			19	HVAC RCPT/EOD	20	1	360	240		20	1	WB CABINET LTS	20	D		X	LO
			21	SPARE	20	1		0	512	20	1	CABINET LTS	22	D		X	
△		D	23	FLOORBOX	20	1			720	20	2	WH-1	24			X	
		D	25	FLOORBOX	20	1	540	2,080	2,080				26			X	
			27	SALES RCPT	20	1		1,080		20	2	WH-1	28			X	
			29	SPARE	20	1			0				30				
			31	SPARE	20	1	0	0	2,080	20	1	SPARE	32				
△			33	VIDEO WALL	20	1		720	500	20	1	BURGULAR SYSTEM	34				LO
			35	SPARE	20	1			0	720	20	1	SECURITY SYSTEM	36				LO
			37	SPARE	20	1	0	720			20	1	SECURITY SYSTEM	38				LO
			39	SPACE ONLY				0	600		20	1	AV SYSTEM	40				
			41	SPACE ONLY					0	0	20	1	SPARE	42				
				LOAD/PH: (CONNECTED)			8,881	8,176	10,068									
				LCL @ 25% PER PHASE			1,815	799	1,457									
				TOTAL LOAD/PH: (DEMAND)			10,696	8,975	11,525									

TOTAL VA: 31,196 VA
TOTAL AMPS: 87 A

NOTES:
ALL CIRCUITS BREAKERS TO BE 20 AMP, 1-POLE UNLESS OTHERWISE NOTED.

CONNECTED LOAD A 8,881 kW, B 8,176 kW, C 10,068 kW, **TOTAL** 27,125 kW

CONNECTED DEMAND A 10,696 kW, B 8,975 kW, C 11,525 kW, **TOTAL** 31,196 kW

(ALL PHASES SHALL BE BALANCED WITH 7% USING ACTUAL LOAD TOTALS)

BREAKER OPTIONS:
BABR - SOLENOID OPERATED BABR
LO - HANDLE LOCK-OFF DEVICE
ST - SHUNT TRIP
AUX - AUXILIARY CONTACTS
PA - HANDLE PADLOCK ATTACHMENT
GFCI - GROUND FAULT INTERRUPT
HACR - HEATING, A/C & REFRIGERATION
LCL - CONTINUOUS LOAD
CL - CURRENT LIMITING BREAKER IN AMPS

LIGHTING TIME CONTROL LEGEND:

A1 – EXTERIOR SIGNAGE BLADE SIGN INTERNALLY ILLUMINATED TRANSOMS STOREFRONT DOWNLIGHTING

A – MARKETING LEVEL LIGHTING SHOW WINDOW LIGHTS SHOW WINDOW RECEPTACLES

B – STOCKING STOCKROOM (NON-SALES) LIGHTING

C – TASK LEVEL 1/2 SALES FLOOR LIGHTING EVENLY DISTRIBUTED (BBW, PINK & BEN) – INCLUDING CABINET LIGHTING GENERAL SALES FLOOR RECEPTACLES DISPLAY CABINET LIGHTING RECEPTACLES

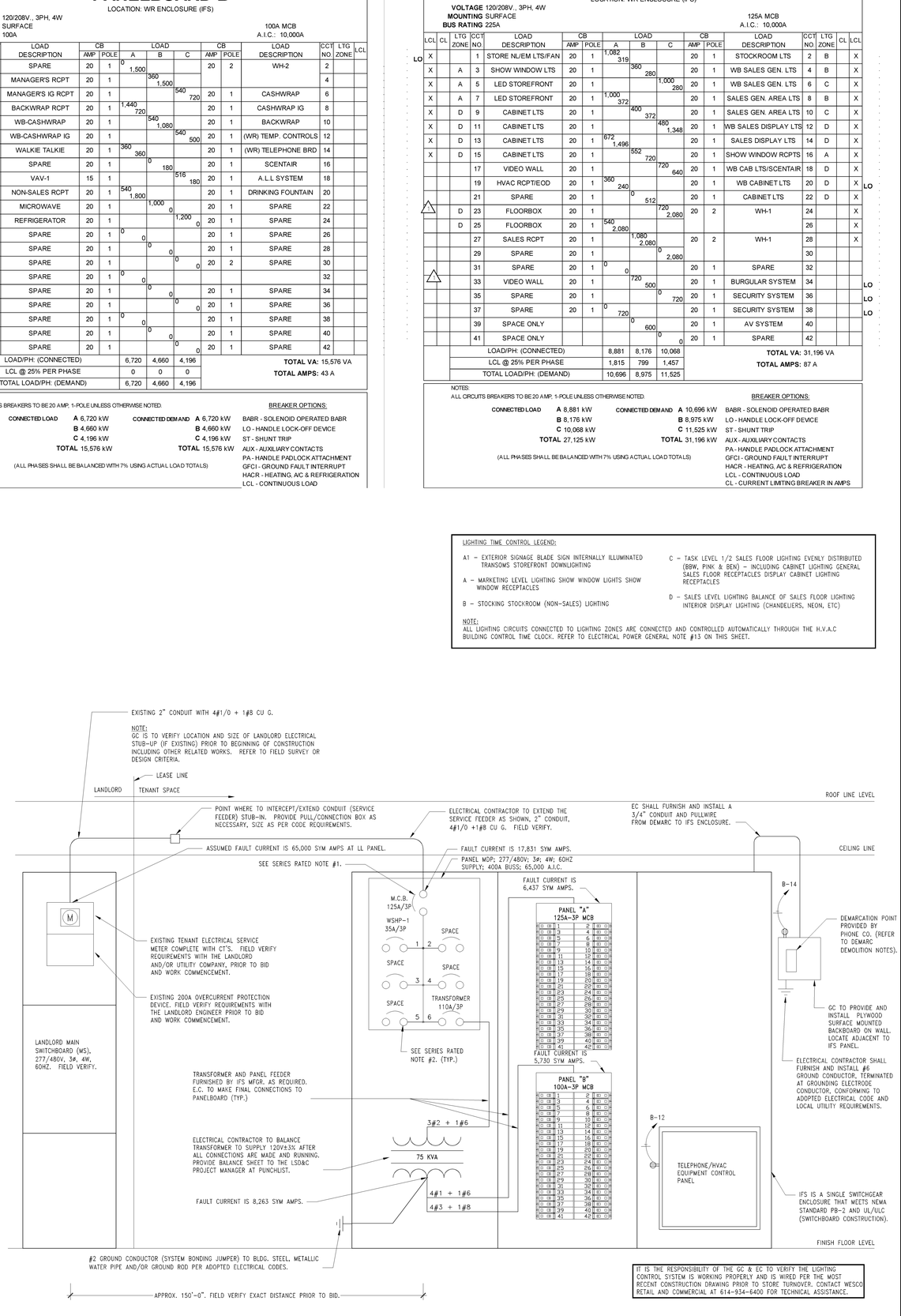
D – SALES LEVEL LIGHTING BALANCE OF SALES FLOOR LIGHTING INTERIOR DISPLAY LIGHTING (CHANDELIERS, NEON, ETC)

NOTE:
ALL LIGHTING CIRCUITS CONNECTED TO LIGHTING ZONES ARE CONNECTED AND CONTROLLED AUTOMATICALLY THROUGH THE H.V.A.C BUILDING CONTROL TIME CLOCK. REFER TO ELECTRICAL POWER GENERAL NOTE #13 ON THIS SHEET.

ELECTRICAL EQUIPMENT DATA

SYM.	ITEM	VOLTAGE	FEEDERS WIRE	FEEDERS COND.	TYPE OF CONN.	BRANCH BREAKER	DISC. SW.	BUS/ FUSES	REMARKS
①	WH-1	208V, 1#	2#12 & 1#12 G	1/2"	'AC' TOGGLE SWITCH	20A-2P	---	---	SEE NOTE NO. 1 BELOW
②	WH-2	208V, 1#	2#12 & 1#12 G	1/2"	'AC' TOGGLE SWITCH	20A-2P	---	---	SEE NOTE NO. 1 BELOW
③	WSHP-1	480V, 3#	4#8 & 1#10 G	3/4"	THRU UNIT DISC. SW.	35A-3P	60A	N.F.	
④	FPVAV-1	120V, 1#	2#12 & 1#12 G	3/4"	'AC' TOGGLE SWITCH	15A-1P	---	---	SEE NOTE NO. 2 BELOW
⑤	FPVAV-2	277V, 1#	2#12 & 1#12 G	3/4"	'AC' TOGGLE SWITCH	15A-1P	---	---	SEE NOTE NO. 2 BELOW

NOTE:
1. 'AC' TOGGLE SWITCH TO BE FURNISHED BY LSD&C AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. DISCONNECT SWITCH TO BE FURNISHED AND INSTALLED BY MECHANICAL SUPPLIER.



IT IS THE RESPONSIBILITY OF THE GC & EC TO VERIFY THE LIGHTING CONTROL SYSTEM IS WORKING PROPERLY AND IS WIRED PER THE MOST RECENT CONSTRUCTION DRAWING PRIOR TO STORE TURNOVER. CONTACT WESCO RETAIL AND COMMERCIAL AT 614-934-6400 FOR TECHNICAL ASSISTANCE.

ELECTRICAL POWER GENERAL NOTES

1. HVAC CIRCUIT BREAKERS SHALL BE "HACR" TYPE WHEN REQUIRED BY EQUIPMENT NAMEPLATE PER ADOPTED ELECTRICAL CODE
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT K.A.I.C. RATING (BUILDING SERVICE AVAILABLE FAULT CURRENT) OF LANDLORDS DISTRIBUTION EQUIPMENT PRIOR TO BID AND WORK COMMENCEMENT. IF FOUND TO BE HIGHER THAN PANEL RATING, NOTIFY YOUR LSD&C PROJECT MANAGER IMMEDIATELY.
3. ELECTRICAL CONTRACTOR SHALL BALANCE ALL PANELS AND ELECTRICAL EQUIPMENT TO 7% (+/–) BETWEEN PHASES: A/B, B/C, A/C, REGARDLESS OF CIRCUITING INDICATED.
4. PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER ADOPTED ELECTRICAL CODE. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
5. ALL PANEL BRANCH CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
6. ALL PANEL BUS BARS SHALL BE COPPER.
7. MOUNT A TYPEWRITTEN DIRECTORY BEHIND GLASS OR PLASTIC ON THE INSIDE OF EACH PANEL DOOR AND, ON THE DIRECTORY, SHOW THE CIRCUIT NUMBER AND COMPLETE DESCRIPTION OF ALL OUTLETS ON EACH CIRCUIT.
8. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE AND OPERABLE ELECTRICAL DISTRIBUTION SYSTEM.
9. ALL PANELBOARDS, SWITCHBOARDS AND LINE VOLTAGE CONTROL EQUIPMENT SHALL BE FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTING, SERVICING OR MAINTENANCE OF EQUIPMENT.
10. ELECTRICAL CONTRACTOR SHALL MAKE SURE ENTIRE INSTALLATION CONFORMS TO ADOPTED ELECTRICAL CODE – EXAMINATION, IDENTIFICATION, INSTALLATION, AND USE OF EQUIPMENT.
11. SWITCHBOARDS, PANELBOARDS, DISCONNECT SWITCHES, AND CONTACTORS ARE TO BE "LISTED" AND "IDENTIFIED" AS RATED FOR A MINIMUM OF 75°C CONDUCTOR TERMINATION.
12. IFS ENCLOSURE LIGHTING CONTROLS: SOLENOID OPERATED BABR BREAKERS ARE PROVIDED WITH IFS PANELS FOR STORE LIGHTING CONTROLS AND STOREFRONT SIGNS. SEE PANEL SCHEDULES FOR LIGHTING ZONE DESIGNATIONS (ie: ZONE A, B, C, D)
13. IFS ENCLOSURE FURNISHED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR IS HEREIN DESCRIBED:
    A. UNIT WILL BE SHIPPED TO PROJECT IN MULTIPLE SECTIONS AND THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR OFF-LOADING OF EQUIPMENT, INSPECTION OF EQUIPMENT FOR DAMAGE, VERIFICATION OF EQUIPMENT RECEIVED FOR PROPER STORAGE, SETTING AND MOVING OF EQUIPMENT INTO SPACE AS WELL AS REASSEMBLING OF SECTIONS INTO ONE COMPLETE UNIT PER MANUFACTURER'S DOCUMENTATION.
    B. ELECTRICAL CONTRACTOR SHALL CONNECT ALL PROVIDED INTERCONNECTING CABLES BETWEEN SECTIONS AND TORQUE CONNECTIONS PER MANUFACTURER'S REQUIREMENTS.
    C. ALL CONNECTIONS WITHIN THE TELEPHONE/DATA SECTION AND HVAC CONTROL SECTION OF THE IFS ENCLOSURE WILL BE DONE BY OTHERS. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF LOW VOLTAGE CONDUIT SYSTEM (IF REQUIRED BY CODE OR LANDLORD) INTO THESE SECTIONS ONLY.
    D. SWITCHBOARD WILL BE SHIPPED ON AN ENCLOSED SEMI-TRAILER. ELECTRICAL CONTRACTOR MUST ARRANGE FOR A FORKLIFT TO OFF-LOAD AT JOB SITE. ELECTRICAL CONTRACTOR WILL RECEIVE 24 NOTICE PRIOR TO DELIVERY.
14. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS TO FURNISH AND INSTALL ALL LOW VOLTAGE WIRING IN CONDUIT, AS PART OF BASE BID.

DEMARC DEMOLITION NOTES

1. THE GC SHALL NOT CUT THE MAIN TELEPHONE WIRES LEADING TO THE TERMINATION STRIP (DEMARC BLOCK) OR PHONE SYSTEM.
2. IF THE DEMARC IS TO BE RELOCATED, IT SHALL BE COORDINATED WITH LIMITED TECHNICAL SERVICES (LTS). FOR BBW CALL 1-877-415-7911 AND SELECT OPTION 2. FOR BBW CANADIAN STORE CALL LASENZA 1-877-211-5151 THEN 877#. 3. FOR VS CALL 1-614-415-1011.
3. THE GC SHALL ALLOW ADEQUATE TIME FOR RELOCATION IN THE CONSTRUCTION SCHEDULE.
4. IF THE WALL WITH THE TELEPHONE BLOCK IS SCHEDULED FOR DEMOLITION, THE ENTIRE BACKING PANEL SHALL BE REMOVED FROM THE WALL (WITHOUT DISCONNECTING THE WIRING) AND IT SHALL BE SAFELY SECURED IN THE CEILING UNTIL IT CAN BE RELOCATED TO THE NEW AREA OR REINSTALLED ON WALL.

SERIES RATED NOTES

1. MAIN CIRCUIT BREAKER IN 'PANEL IFS' SHALL BE FULLY RATED TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.
2. MAIN CIRCUIT BREAKER SHALL BE "SERIES" RATED WITH ALL OTHER FEEDER BREAKERS IN 'PANEL IFS' TO PROVIDE AN INTERRUPTING RATING OF 65,000 AMPS RMS.
3. PANELBOARDS OR OTHER EQUIPMENT THAT IS PROTECTED BY "SERIES" RATED OVERCURRENT PROTECTED DEVICES UPSTREAM SHALL BE MARKED WITH A PERMANENT LABEL THAT INDICATES THE SHORT-CIRCUIT RATING OF THE SERIES COMBINATION AND CALLS OUT THE SPECIFIC REPLACEMENT OVERCURRENT DEVICE(S) THAT CAN BE UTILIZED.

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014200814
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WHITE BARN CANDLE CO.
THE GARDENS MALL
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PALM BEACH GARDENS, FL 33410

PROJECT INFORMATION:
SCOPE: FULL RENO
DESIGN TYPE: EASTON-G
LSD&C PROJECT #: 00061214
PACKAGE: 1+
GENERATION: 1415.0
A/E PROJECT #: 14286

REVISIONS:

#	REVISION	DATE
1	OWNER & LANDLORD COMMENTS	12/31/14
2	L.L. COMMENT – MECHANICAL REQUIREMENTS	1/16/2015

ELITE CONSTRUCTION GROUP
LAKE JACKSON, TX
PHONE: 979-285-0712
NOTE: THESE PRINTS HAVE BEEN REDUCED TO 50 PERCENT SCALE WILL BE 50 PERCENT OF WHAT IS NOTED ON PLANS

DATE ISSUED: 10/24/2014
DESIGNED BY: ARW
DRAWN BY: ARW
CHECKED BY: ATF

ELECTRICAL PANELS AND RISER DIAGRAM

DRAWING NUMBER:
E05.01

ELECTRICAL RISER DIAGRAM, PANEL SCHEDULES, AND NOTES

NTS
00D-E0501-A00-DETL
A
09/24/13