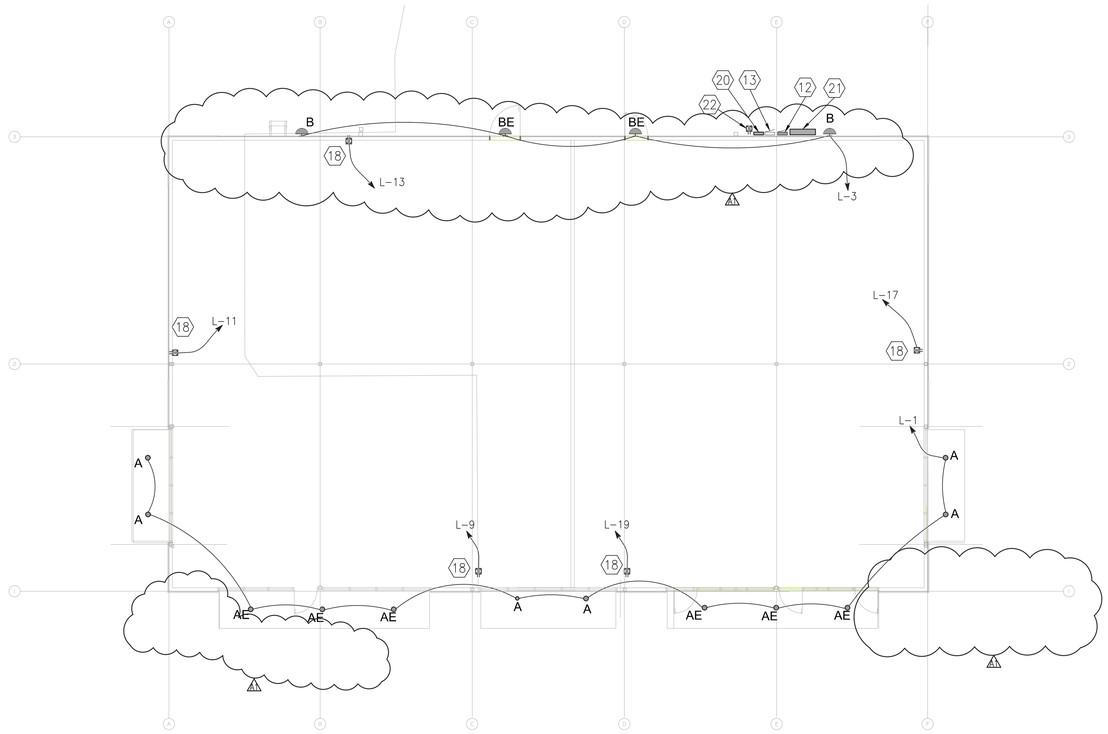


1 ELECTRICAL - FLOOR PLAN

SCALE: 1/8" = 1'-0"

LUMINAIRE SCHEDULE

FIXT TYPE	MANUFACTRER AND CATALOG NUMBER	MOUNTING	LAMPS NO.	LAMPS TYPE	VOLTS	REMARKS
A	GOTHIAM ARCHITECTRAL DOWNLIGHT EVO 40/15 4AR WD LD EZ10 TRW	RECESSED	1	LED	120	4"LED LENSED DOWNLIGHT, SELF-FLANGED, MATTE-DIFFUSE FINISHING TRIM, AIR TIGHT, LM-80 QUALIFIED, WET LOCATIONS
AE	GOTHIAM ARCHITECTRAL DOWNLIGHT EVO 40/15 4AR WD LD EZ10 TRW EL	RECESSED	1	LED	120	SAME AS "A" ABOVE EXCEPT WITH EMERGENCY BATTERY PACK WITH INTEGAL TEST SWITCH FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT.
B	LITHONIA LIGHTING ARCHITECTURAL WALL PACK DSXW1 LED 20C 1000 40K T4M MVOLT PIR	SURFACE	1	LED	120	WALL MOUNTED FIXTURE, WITH TWO-PIECE DIE-CAST ALUMINUM HOUSING, FINISH TO BE SELECTED BY ARCHITECT. MTD 12'-0" A.F.F.
BE	LITHONIA LIGHTING ARCHITECTURAL WALL PACK DSXW1 LED 20C 1000 40K T4M ELCW PIR	SURFACE	1	LED	120	SAME AS "B" ABOVE EXCEPT WITH EMERGENCY BATTER PACK FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT.

PANEL: "L"
LOCATION: RETAIL BUILDING
■ SURFACE ■ SIDE FEED

120/208 VOLTS, 3 ø 4 WIRE
100 AMP BUS ■ LUGS ONLY
■ GROUND BUS NEMA 3R

MAIN BKR. ☐ ■ NEUTRAL
FRAME ___ A. FULL
TRIP ___ A. 10 KAIC
☐ SHUNT TRIP @208 VOLTS

CODE No.	LOAD DESCRIPTION	CONDUIT & WIRE	CB P	KVA	CKT No.	Ø	CKT No.	KVA	CB P	CONDUIT & WIRE	LOAD DESCRIPTION	CODE
0	TYPE A CANOPIES LED LUMINAIRES (1)	3/4"C-2#10 & 1#10G	20/1	0.5	1	A	2	0.5	20/1	3/4"C-2#12 & 1#12G	RISER ROOM LIGHTING/RECEPTACLE	0
0	TYPE B WALL SCONCE (2)	3/4"C-2#10 & 1#10G	20/1	0.7	3	B	4	0.0	20/1		SPARE	
1	TELEPHONE SERVICE RECEPTACLES	3/4"C-2#12 & 1#12G	20/1	0.5	5	C	6	1.3	20/2	3/4"C-2#12 & 1#12G	RISER ROOM UNIT HEATER	2
2	IRRIGATION CONTROLLER	3/4"C-2#12 & 1#12G	20/1	0.5	7	A	8	1.3				2
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	9	B	10	0.5	20/1	3/4"C-2#12 & 1#12G	MONITORING PL	2
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	11	C	12	0.8	20/3	REFER TO DWG. E1.1 FOR CONDUIT & WIRE	SITE LIGHTING (1)	0
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	13	A	14	0.8				0
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	15	B	16	0.8				0
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	17	C	18	1.3	20/2	REFER TO DWG. E1.1 FOR CONDUIT & WIRE	SITE NIGHT LIGHTING (3)	0
0	HOLIDAY LIGHTING	3/4"C-2#10 & 1#10G	20/1	1.5	19	A	20	1.3				0
	SPARE		20/1	0.0	21	B	22	0.0	20/1		SPARE	
	SPARE		20/1	0.0	23	C	24	0.0	20/1		SPARE	
	SPARE		20/1	0.0	25	A	26	0.0	20/1		SPARE	
	SPARE		20/1	0.0	27	B	28	0.0	20/1		SPARE	
	SPARE		20/1	0.0	29	C	30	0.0	20/1		SPARE	
	SPARE		20/1	0.0	31	A	32	0.0	20/1		SPARE	
	SPARE		20/1	0.0	33	B	34	0.0	20/1		SPARE	
	SPARE		20/1	0.0	35	C	36	0.0	20/1		SPARE	
	SPARE		20/1	0.0	37	A	38	0.0	20/1		SPARE	
	SPARE		20/1	0.0	39	B	40	0.0	20/1		SPARE	
	SPARE		20/1	0.0	41	C	42	0.0	20/1		SPARE	
				11.2	BY PHASES			8.6				

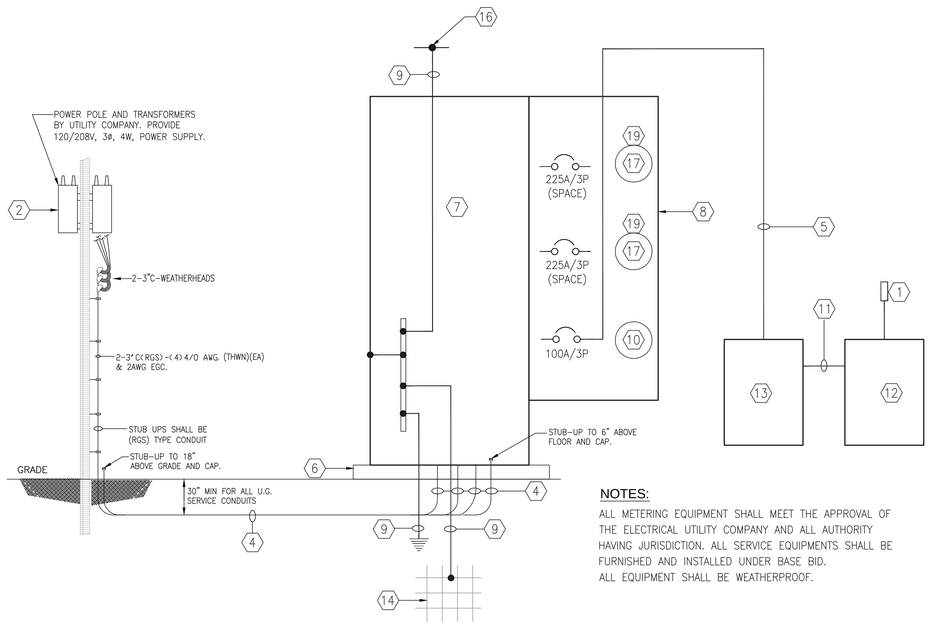
LOAD TYPE	CODE	CONN'TED	DIVERSITY	DESIGN
LIGHTING	0	15.2	125%	19.0
RECEPTACLES	1	0.5	(•)	0.5
EQUIPMENT	2	4.1	100%	4.1
MOTORS	3	00.0	100%	00.0
ELECTRIC HEAT	4	00.0	100%	00.0
LARGEST MTR	5	00.0	25%	00.0
KITCHEN EQUIP	6	00.0	80%	00.0
TOTAL LOADS IN KVA		19.8	–	23.6
TOTAL AMPS		55.0	–	65.6

LOAD SUMMARY

	#A	#B	#C	TOTAL
CONNECTED LOAD KVA	7.9	5.0	6.9	19.8
CONNECTED LOAD AMP	22.0	13.9	19.1	55.0

(•) FIRST 10 KVA @100%, REST @ 50%
NOTES:

NOTES:
(1) INDICATES THROUGH CONTACTOR "L-1", "ON" BY PHOTOCELL, "OFF" BY TIME CLOCK.
(2) INDICATES THROUGH CONTACTOR "L-2", "ON" BY PHOTOCELL, "OFF" BY PHOTOCELL.
(3) INDICATES THROUGH CONTACTOR "L-3", "ON" BY PHOTOCELL, "OFF" BY PHOTOCELL.



NOTES:
ALL METERING EQUIPMENT SHALL MEET THE APPROVAL OF THE ELECTRICAL UTILITY COMPANY AND ALL AUTHORITY HAVING JURISDICTION. ALL SERVICE EQUIPMENTS SHALL BE FURNISHED AND INSTALLED UNDER BASE BID.
ALL EQUIPMENT SHALL BE WEATHERPROOF.

2 ELECTRICAL - RISER DIAGRAM

SCALE: NOT TO SCALE

KEYED ELECTRICAL NOTES.- (THIS SHEET)

1. PHOTOCELL ABOVE ROOF FACING NORTH
2. GREENVILLE ELECTRIC UTILITY SERVICE POLE MOUNTED TRANSFORMERS
3. NOT USED
4. 2-3" CONDUITS, (4) 4/0 AWG. (THWN), & (1) 2AWG EGC.
5. 2"C,-(4)-1 AWG (THWN) & (1)-6AWG EGC.
6. 4" CONCRETE HOUSEKEEPING PAD
7. 400AMP MLO SQUARE "D" "EZM3400TBUCU" NEMA 3R ENCLOSURE. PROVIDE WITH HORIZONTAL CROSS BUS ON BOTH SIDES OF UNIT FOR FUTURE EXPANSION.
8. SQUARE "D" "EZML333225(CU)" NEMA 3R METER/MAIN CB METER PACK.
9. 1"C(PVC)-1#3/0G
10. HOUSE METER PER LOCAL UTILITY REQUIREMENTS.
11. 3-2" CONDUITS OR AS REQUIRED.
12. LIGHTING CONTROL CABINET, NEMA 3R.
13. HOUSE PANEL "L"
14. BUILDING SLAB STEEL. MINIMUM 20' OF REBAR
15. 10' x 3/4" COPPERCLAD GROUND ROD.
16. BUILDING STEEL AND METAL PIPING SYSTEMS.
17. 225 A METER SOCKETS
18. WEATHERPROOF GFI RECEPTACLE WITH METAL IN-USE COVER MOUNTED ON PARAPET WALL FOR HOLIDAY LIGHTING. COORDINATE EXACT LOCATION WITH ARCHITECCT PRIOR TO ROUGH IN.
19. PROVIDE ALL WEATHERPROOF BLANKS.
20. RETAIL TELEPHONE SERVICE CABINET. REFER TO DETAIL 4 SHEET "E3.1"
21. METER PACK, REFER TO DETAIL 2 THIS SHEET FOR BUILDING SERVICE

LOAD ANALYSIS-120/208V, 3ph, 4W

LOAD DESCRIPTION	AMPS
RETAIL / HOUSE PANEL "L"	
RETAIL STORES → 6000SqFt @ 15W/SqFt → 90.0 KVA	
HOUSE PANEL "L" → 23.6 KVA	
TOTAL CONNECTED LOAD → 113.6 KVA →	113.6 AMPS
AVAILABLE AMPACITY IN PROVIDED SERVICE →	400.0 AMPS

ELECTRICAL GENERAL NOTES.

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES AND ELECTRICAL DEVICES
2. EACH CONDUIT SHALL BE LIMITED TO (3) CIRCUITS MAXIMUM
3. NO MORE THAN THREE SINGLE PHASE CIRCUITS AND NO MORE THAN SIX CURRENT CARRYING CONDUCTORS SHALL BE INSTALLED IN A SINGLE RACEWAY. WHEN FOUR, FIVE OR SIX CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY, THEIR CURRENT CARRYING AMPACITIES SHALL BE DERATED AS REQUIRED BY THE NEC FOR NON-DIVERSIFIED LOADS. THE INSTALLED WIRE SIZE SHALL HAVE A NOMINAL AMPACITY RATING OF 125% OF THAT REQUIRED OR SPECIFIED WHEN FOUR OR MORE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN A SINGLE RACEWAY. NEUTRAL CONDUCTORS SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR IN ALL NON-LINEAR LOAD CIRCUITS AS REQUIRED BY THE NEC.
4. ALL LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS CONDUITS SHALL CONTAIN A GROUND WIRE. SING THE CONDUIT SYSTEM AS THE ONLY GROUND PATH IS NOT ACCEPTABLE.
5. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES.
6. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE TYPE NEMA 3R.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR ALL ELECTRICAL REQUIREMENTS. ANY DISCREPANCIES SHALL BE BE BROUGHT TO THE ENGINEERS ATTENTION AS SOON AS POSSIBLE.
8. ALL CONDUITS FOR TENANTS SERVICES SHALL BE RUN ON EXTERIOR WALL HORIZONTALLY. ONLY CONDUIT TO BE RUN ON EXTERIOR WALL SHALL BE FROM SERVICE DISCONNECT VERTICALLY TO "LB" THROUGH WALL UP IN JOIST SPACE TO EACH TENANT.
9. ALL CONDUITS ASSOCIATED WITH PRIMARY ELECTRIC AND TELEPHONE SERVICE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE UTILITY COMPANIES INSTALLATION CRITERIA.
10. ALL UTILITY CONDUITS SHALL CONTAIN PULL STRINGS MEETING THE MATERIAL AND INSTALLATION REQUIREMENTS OF THE UTILITY COMPANY.
11. ALL ELECTRICAL WORK SHALL BE DONE IN COMPLIANCE WITH THE MOST CURRENT ADDITION OF THE NEC AND THE UTILITY COMPANY'S ELECTRIC UTILITY DESIGN CRITERIA MANUAL.
12. ALL CONDUIT ROUTED ABOVE GRADE AT EXTERIOR SHALL BE RIGID GALVANIZED STEEL CONDUIT.

ADDENDUM #1 05-12-2016

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BASSAM G. JABORI 89863

PAD BUILDING AT THE CROSSROADS MALL
GREENVILLE, TEXAS
GREENVILLE PROPERTIES LTD.
GREENVILLE, TEXAS

DATE: 2/6/15
PROJECT NO. 08-14-05
DRAWN BY R.F.V.

ELECTRICAL FLOOR PLAN AND SCHEDULES

E2.1

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