

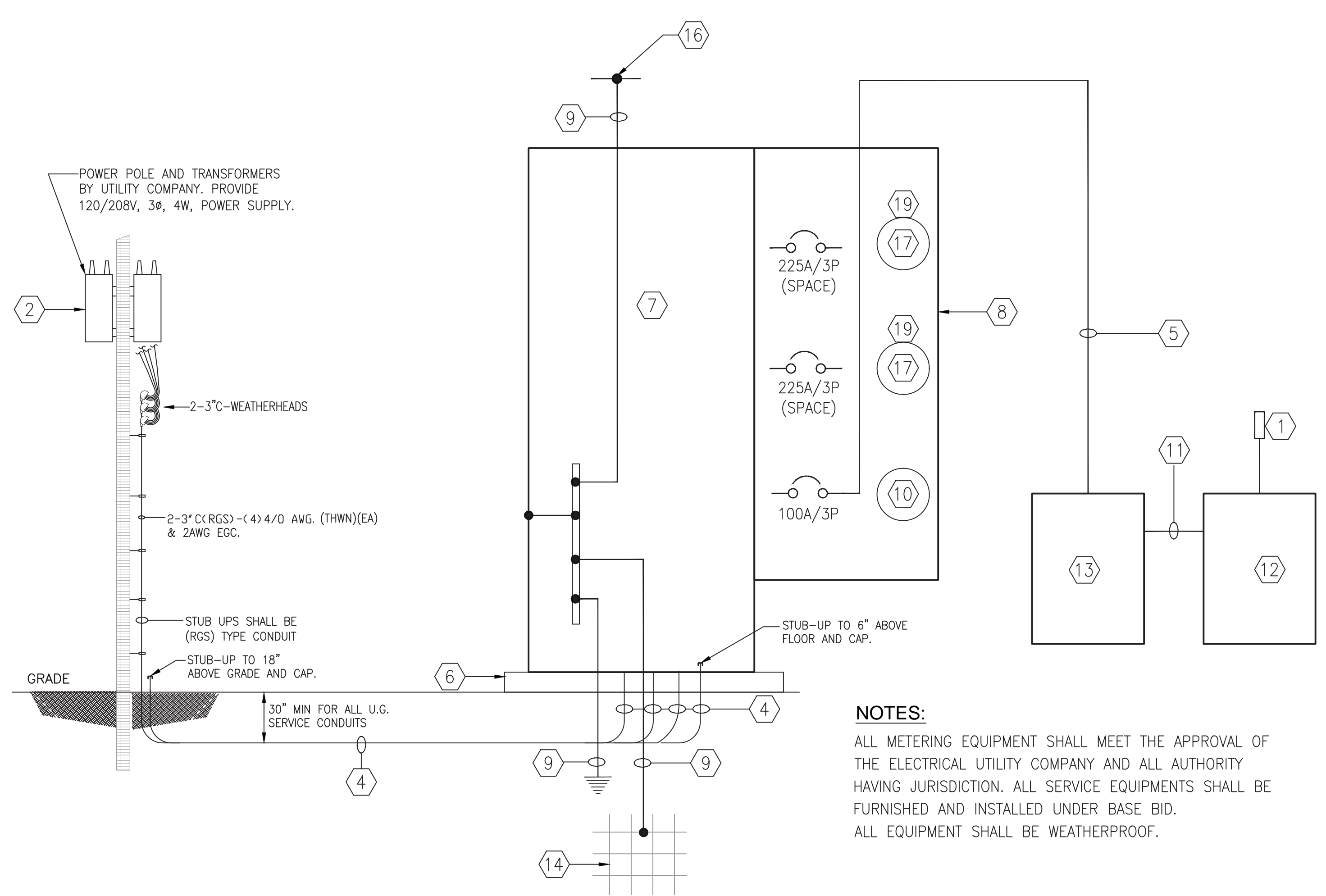
1 ELECTRICAL - FLOOR PLAN
SCALE: 1/8" = 1'-0"

FIXT TYPE	MANUFACTURER AND CATALOG NUMBER	MOUNTING	LAMPS		VOLTS	REMARKS
			NO.	TYPE		
A	KIRLIN LATITUDES LED LIGHTING #LRR-06018	RECESSED	1	20W LED	120	6" LED LENSED DOWNLIGHT, SPECULAR TRIM, UP TO 90,000 HOUR LIFE, TYPE IC, AIR TIGHT, LM-80 QUALIFIED, WET LOCATIONS
AE	KIRLIN LATITUDES LED LIGHTING #LRR-06018-EI	RECESSED	1	20W LED	120	SAME AS "A" ABOVE EXCEPT WITH REMOTE EMERGENCY INVERTER INTERRUPTIBLE AC POWER SYSTEM FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT.
B	GARDCO LIGHTING #103EM/FT-U/150MH/120	SURFACE	1	150W MH T8	120	WALL MOUNTED FIXTURE, HALF CYLINDER UP/ DOWN EMERGENCY SCONCE, FINISH TO BE SELECTED BY ARCHITECT. MTD 12'-0" A.F.F.
BE	GARDCO LIGHTING #103EM/FT-U/150MH/UNIV/B84CG (THE B84CG BATTERY OPTION MUST BE FURNISHED BY GARDCO.)	SURFACE	1	42TRT 4100K	120	SAME AS "B" ABOVE EXCEPT WITH REMOTE EMERGENCY INVERTER OPTION SYSTEM B84CG BATTERY OPTION FOR 100% OF RATED LUMENS. RUN TIME: 90+ MINUTES. 120V INPUT.

LOAD DESCRIPTION		CONDUIT & WIRE	CB	KVA	CKT No.	Ø	CKT No.	Ø	CONDUIT & WIRE	LOAD DESCRIPTION	CODE
0	TYPE A CANOPIES LED LUMINAIRES	3/4" C-2#10 & 1#10G	20	0.5	1	A	2	0.5	20	TYPE A CANOPIES LED LUMINAIRES	0
0	TYPE B WALL SCONCE	3/4" C-2#10 & 1#10G	20	0.7	3	B	4	0.0	20	TYPE B WALL SCONCE	0
1	TELEPHONE SERVICE RECEPTACLES	3/4" C-2#12 & 1#12G	20	0.5	5	C	6	1.3	20	TELEPHONE SERVICE RECEPTACLES	2
2	IRRIGATION CONTROLLER	3/4" C-2#12 & 1#12G	20	0.5	7	A	8	1.3	20	IRRIGATION CONTROLLER	2
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	9	B	10	0.5	20	HOLIDAY LIGHTING	2
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	11	C	12	0.8	20	HOLIDAY LIGHTING	0
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	13	A	14	0.8	20	HOLIDAY LIGHTING	0
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	15	B	16	0.8	20	HOLIDAY LIGHTING	0
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	17	C	18	1.3	20	HOLIDAY LIGHTING	0
0	HOLIDAY LIGHTING	3/4" C-2#10 & 1#10G	20	1.5	19	A	20	1.3	20	HOLIDAY LIGHTING	0
SPARE			20	0.0	21	B	22	0.0	20	SPARE	0
SPARE			20	0.0	23	C	24	0.0	20	SPARE	0
SPARE			20	0.0	25	A	26	0.0	20	SPARE	0
SPARE			20	0.0	27	B	28	0.0	20	SPARE	0
SPARE			20	0.0	29	C	30	0.0	20	SPARE	0
SPARE			20	0.0	31	A	32	0.0	20	SPARE	0
SPARE			20	0.0	33	B	34	0.0	20	SPARE	0
SPARE			20	0.0	35	C	36	0.0	20	SPARE	0
SPARE			20	0.0	37	A	38	0.0	20	SPARE	0
SPARE			20	0.0	39	B	40	0.0	20	SPARE	0
SPARE			20	0.0	41	C	42	0.0	20	SPARE	0

LOAD TYPE	CODE	COUNTED	DIVERSITY	DESIGN	11.2	BY PHASES	8.6
LIGHTING	0	15.2	125%	19.0			
RECEPTACLES	1	0.5	(+)	0.5			
EQUIPMENT	2	4.1	100%	4.1			
MOTORS	3	0.0	100%	0.0			
ELECTRIC HEAT	4	0.0	100%	0.0			
LARGEST MTR	5	0.0	25%	0.0			
KITCHEN EQUIP	6	0.0	80%	0.0			
TOTAL LOADS IN KVA		19.8		23.6			
TOTAL AMPS		55.0		65.6			

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.



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" "EZM3400TBU" 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 ARCHITECT 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 CAPACITIES 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 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 WALL 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.

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PAD BUILDING AT THE CROSSROADS MALL
GREENVILLE, TEXAS

GREENVILLE PROPERTIES LTD.
GREENVILLE, TEXAS

DATE: 2/6/15
PROJECT NO.: 06-14-05
DRAWN BY: R.E.V.

ELECTRICAL FLOOR PLAN AND SCHEDULES
E2.1

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