



ARCHITECTURE PLANNING INTERIOR DESIGN  
 15810 PARK TEN PLACE, SUITE 300  
 HOUSTON, TEXAS 77084  
 713-465-4650  
 www.sligroup.com

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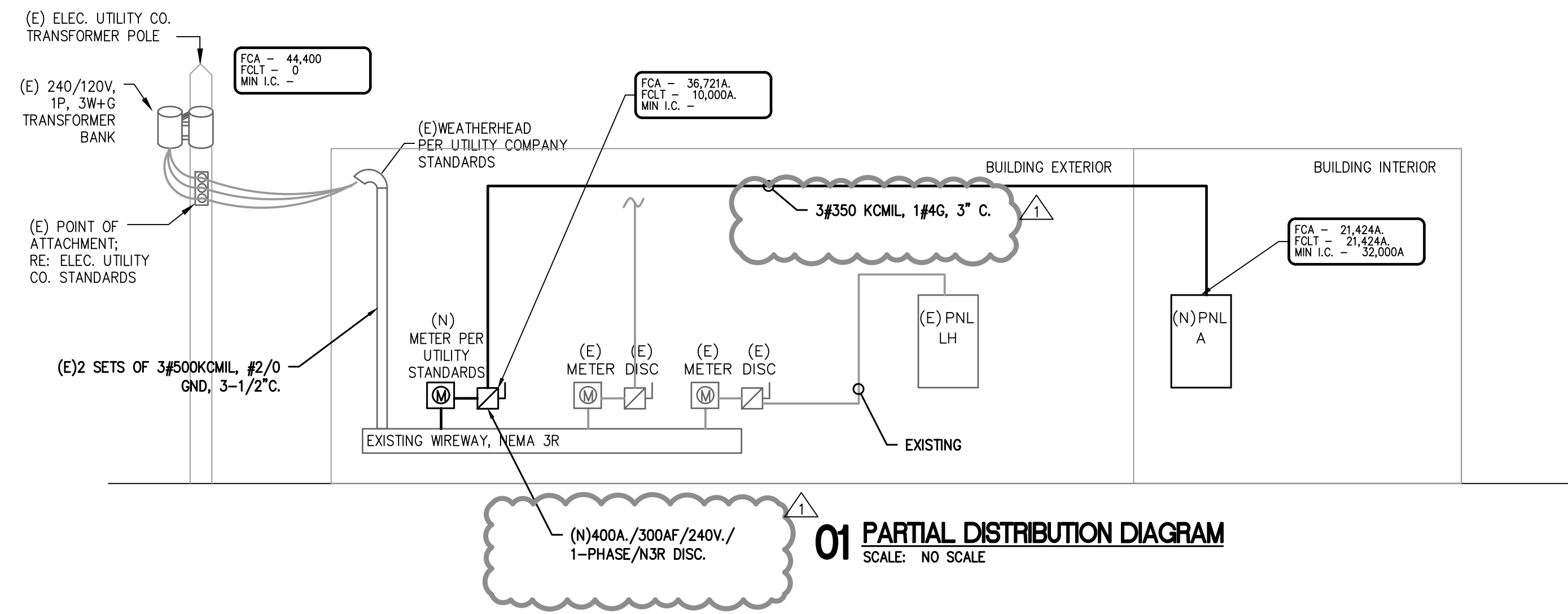


ACORN GOLF SIMULATOR  
 13825 Timber Forest Dr, Houston, TX 77044  
 SUITE 103

DATE: 04/28/2026

**ELECTRICAL DISTRIBUTION DIAGRAM NOTES:**

- CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THWN INSULATION IN EMT (4" C, OR LESS) OR RIGID CONDUIT (> 4" C). PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
- SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FOLT' INDICATES APPARENT LET-THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
- ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
- PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
- REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
- CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
- SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
- FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
- ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT-GROUNDING CONDUCTOR PER NEC.
- ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. CON ELECTRICAL CODE 504.1.1.



LOAD DESCRIPTION	CODE	A PHASE LOAD (kVA)	B PHASE LOAD (kVA)	NEUTRAL LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD, A (A)	DESIGN LOAD, B (A)	DESIGN LOAD, N (A)	REMARKS
<b>240V, 1 PHASE, 2 WIRE LOADS</b>									
EQUIPMENT:	0.0	0.0	100%	0.0	0.0	0.0	0.0	0.0	NEC 220.14.A
WATER HEATERS:	16.5	16.5	100%	119.1	42.6	42.6	42.6	0.0	NEC 220.14.A, 220.50
HVAC:	5.9	5.9	100%	0.0	0.0	0.0	0.0	0.0	NEC 220.14.C, 220.50
ELECTRIC HEAT:	0.0	0.0	100%	0.0	0.0	0.0	0.0	0.0	NEC 220.51
<b>120V, 1 PHASE, 2 WIRE LOADS</b>									
LIGHTS (1.7 VA/FT <sup>2</sup> ):	4.0	2.6	0.6	2.0	125%	20.8	20.8	20.8	NEC 220.12
SIGN LIGHTS:	1.2	0.0	0.0	1.2	125%	12.5	0.0	12.5	NEC 220.14.F
SITE LIGHTS:	0.0	0.0	0.0	0.0	125%	0.0	0.0	0.0	NEC 220.42, 43, 44, 45
RECEPTACLES:	1.6	0.9	1.6	10kVA+50%	13.5	7.5	13.5	13.5	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:	3.4	5.9	5.9	100%	28.3	48.8	48.8	48.8	NEC 220.14.A
WATER HEATERS:	0.0	3.0	3.0	100%	0.0	25.0	25.0	25.0	NEC 220.14.A
HVAC:	0.0	0.0	0.0	100%	0.0	0.0	0.0	0.0	NEC 220.14.C, 220.50
<b>TOTAL DESIGN LOAD:</b>		<b>A PHASE</b>		<b>C PHASE NEUTRAL</b>					
@ 240V, 1 PHASE:		237		264		121 AMPS			

NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

CODE	LOAD	CIRCUIT DESCRIPTION	BKR	CKT	PHASE	BKR	CIRCUIT DESCRIPTION	LOAD	CODE
0	1350	LIGHTS	20/1	1	A	2	BAY 1 PROJECTOR	800	2
0	600	DISPLAY LTS	20/1	3	C	4	BAY 1 CPU	400	2
0	1200	SIGN	20/1	5	A	6	BAY 2 PROJECTOR	800	2
1	360	RESTROOM GF	20/1	7	C	8	BAY 2 CPU	400	2
1	1080	G.P. RECEPTACLES	20/1	9	A	10	BAY 3 PROJECTOR	800	2
2	600	EF-1,1,2	20/1	11	C	12	BAY 3 CPU	400	2
3	5856	RTU-1	70/2	13	A	14	SPARE	1200	2
3	5856	---	---	15	C	16	COMMON TVS	600	2
1	180	ROOF RECEPT	20/1	17	A	18	MINI GOLF TVS	600	2
1	180	SPARE	20/1	19	C	20	VENDING MACHINE GFCI BRKR	1200	2
2	800	IT DED	20/1	21	A	22	EQUIPMENT	400	2
2	800	IT DED	20/1	23	C	24	EQUIPMENT	400	2
1	180	ELECT GP	20/1	25	A	26	SMALL APPLIANCE	600	6
4	2750	IWH 1	30/2	27	C	28	SMALL APPLIANCE	600	6
4	2750	---	---	29	A	30	G.P.	180	1
4	5750	IWH 2	60/2	31	C	32	G.P.	540	1
4	5750	---	---	33	A	34	SPARE	---	---
4	6500	IWH 3	70/2	35	C	36	SPARE	---	---
4	6500	---	---	37	A	38	SPARE	---	---
4	2750	IWH 1	30/2	39	C	40	SPARE	---	---
4	2750	---	---	41	A	42	SPARE	---	---
<b>PHASE CONNECTION LOAD FACTORS</b>									
LIGHTS		EQUIP		MOTORS		HEAT		PHASE	
2550		4800		5856		17750		A	
600		900		6000		5856		C	
3150		2520		10800		11712		TOTAL	
F.T.L.		TOTAL		63.7		RECEPTS @ 10kW+50%		64.5	
DES. KVADES.		AMP		DES. KVADES.		AMP			
33.2		277		31.3		260			

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/09/2026
ISSUED FOR PERMIT	
ISSUED FOR CONSTRUCTION	

MARK	DESCRIPTION	DATE
	REVIEW SET	03/27/2026
	ISSUE FOR BID SET	04/09/2026
△	ADDENDUM B	04/28/2026

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DESIGN TEAM	
PM:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
CHECKED-BY:	JG

DRAWING TITLE  
**ELECTRICAL RISER DIAGRAM**

SHEET NO.  
**E-4.00**

**EIBIE** Mechanical  
 Electrical  
 Plumbing  
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04/28/2026