

PROMENADE AT SINGING OAKS

20285 STATE HWY 46 W.,
BULVERDE, TX 78163

[illegible]

DRAWN BY: MA

CHK BY: MA

APP BY: MA

DATE: 08-29-2025

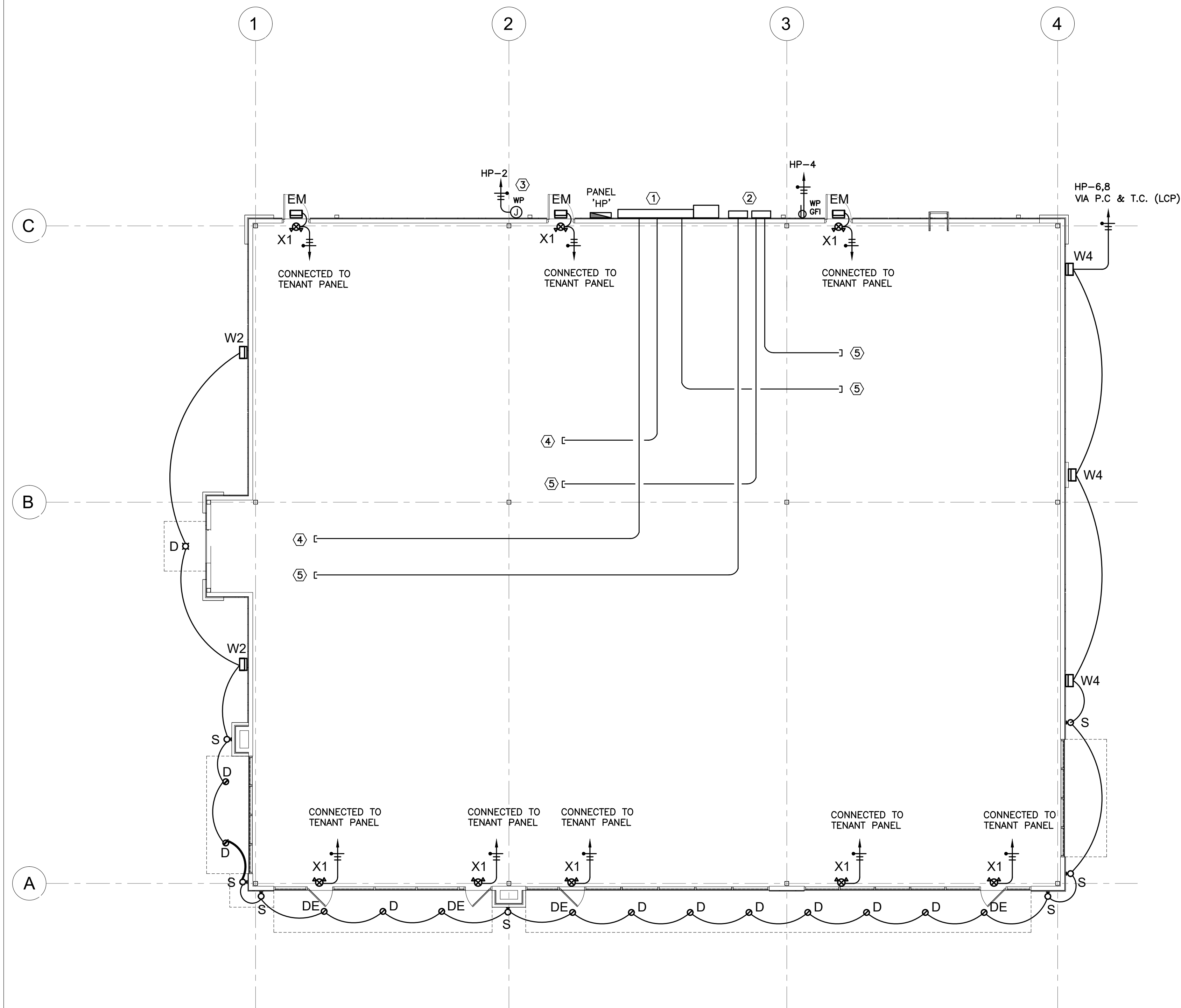
PROJECT NO.: APM_2519

SHEET TITLE:

ELECTRICAL FLOOR PLAN

SHEET NUMBER:

E-3.0



 KEYED NOTES:

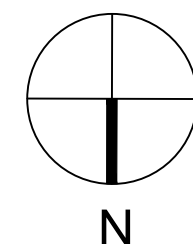
1. NEMA-3R, 120/208V, 3PH, 4W ELECTRICAL SERVICE GUTTER. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
2. TELEPHONE & CABLE T.V. CABINETS PER UTILITY COMPANY REQUIREMENTS.
3. FIELD LOCATE FOR IRRIGATION SYSTEM CONTROL PANEL.
4. PROVIDE (1) 4" EMPTY CONDUIT WITH PULL STRING FOR FUTURE POWER SERVICE. ROUTE AT BAR JOIST LEVEL. CONTRACTOR TO COORDINATE TERMINATION OF CONDUIT WITH OWNER PRIOR TO INSTALLATION, AND TO CAP AND TAG EACH END.
5. PROVIDE (1) 2" EMPTY CONDUIT WITH PULL WIRE FOR FUTURE TELEPHONE SERVICE. ROUTE AT BAR JOIST LEVEL. CONTRACTOR TO COORDINATE TERMINATION OF CONDUIT WITH OWNER PRIOR TO INSTALLATION, AND TO CAP AND TAG EACH END.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL	FINISH	MOUNTING	LAMP – NO., SIZE AND TYPE	MOUNTING HEIGHT
D	HALO COMMERCIAL HC615D010–HM60525827–61WDH	POLISHED	RECESSED	14W / LED	10'–0"
DE	HALO COMMERCIAL HC615D010–IEM14–HM60525827–61WDH	POLISHED	RECESSED	14W / LED / WITH 90MIN. BATTERY PACK	10'–0"
S	FC LTG FCC600–10–WM–UNV–940–10L–FINISH–40–X–X	BRONZE	SURFACE	10W / LED	8'–0"
EM	McGraw Edison GK0–PB1B–727–U–T3BC–BZ	BRONZE	SURFACE	9.3W / LED	9'–6"
W2	McGraw Edison GK0–PB1E–740–VOLT–T2–BZ	BRONZE	SURFACE	9.3W / LED	8'–0"
W4	McGraw Edison GK0–PB1E–740–VOLT–T4W–BZ	BRONZE	SURFACE	38.7W / LED	10'–0"
P3S	McGraw Edison GALN–SA4B–727–U–T3BC–BZ (SEE NOTE 4)	BRONZE	POLE	144 W / LED	22'–6" (INCLUDING POLE BASE)
P4S	McGraw Edison GALN–SA4B–727–U–T4BC–BZ (SEE NOTE 4)	BRONZE	POLE	144 W / LED	22'–6" (INCLUDING POLE BASE)
P5	McGraw Edison GALN–SB4A–740–VOLT–5WQ–BZ (SEE NOTE 4)	BRONZE	POLE	114 W / LED	22'–6" (INCLUDING POLE BASE)
P5–2	McGraw Edison GALN–SB4A–740–VOLT–5WQ–BZ (SEE NOTE 5)	BRONZE	POLE	228 W / LED	22'–6" (INCLUDING POLE BASE)
X1	ORBIT INDUSTRIES EESLA–LED (WITH 90 MINUTES BATTERY PACK)	WHITE	UNIVERSAL	2–2 W / LED	ABOVE DOOR

GENERAL NOTES:

1. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR EXACT SPECIFICATIONS AND REQUIREMENTS OF ALL LIGHTING POLES PRIOR TO PURCHASE AND INSTALLATION.
2. COORDINATE AND CONFIRM LIGHT FIXTURE FINISH AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
3. SUBSTITUTION TO THE ABOVE LIGHTING MANUFACTURERS DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE.
4. LIGHTING POLE MANUFACTURER IS KW INDUSTRIES, PART NO.# SSP20-4.0-7-FINISH-DM10-BC. COORDINATE FINISH WITH OWNER
5. LIGHTING POLE MANUFACTURER IS KW INDUSTRIES, PART NO.# SSP20-4.0-7-FINISH-DM2180-BC. COORDINATE FINISH WITH OWNER



GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF MAIN ELECTRICAL SERVICE AND TELEPHONE DEMARC LOCATION AND TO COORDINATE WITH UTILITY COMPANIES PRIOR TO BIDDING AND COMMENCEMENT OF WORK.
- ALL ELECTRICAL EQUIPMENT, DEVICES, JUNCTION BOXES, OUTLETS, PANELS, ETC. SHALL BE PLACED ABOVE THE BASE FLOOD ELEVATION OR PROTECTED TO PREVENT WATER FROM ENTERING/ACCUMULATING WITHIN EQUIPMENT DURING FLOOD CONDITIONS.
- ALL CONDUCTORS TO BE COPPER, THHN/THWN 75 DEG C. INSULATION TYPE UNLESS SPECIFICALLY NOTED OTHERWISE.
- VERIFY LOCATION OF ALL WIREWAYS, PANELS, ETC. WITH OWNER AND UTILITY COMPANY PRIOR TO INSTALLATION.
- CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE ONE-LINE DIAGRAM SHOWN BELOW PRIOR TO COMMENCEMENT OF WORK.
- PROVIDE LABELING AT EACH METERING GUTTER LOCATION TO INDICATE THAT "THIS BUILDING HAS MULTIPLE ELECTRICAL SERVICE LOCATIONS", AND THE LOCATION OF THE OTHER METERING GUTTER PER NEC ARTICLE 230.

- ELECTRICAL EQUIPMENT LABELING SHALL BE BLACK PLASTIC NAMEPLATE WITH ENGRAVED WHITE LETTERING. SECURELY ATTACH NAMEPLATE TO EQUIPMENT USING SCREWS. THE USE OF STICK-ON NAMEPLATES SHALL NOT BE PERMITTED.
- ALL EXTERIOR EQUIPMENT TO BE IN NEMA 3R ENCLOSURE.
- ALL ELECTRICAL, TELEPHONE & CABLE-TV CONDUITS AND EQUIPMENT MOUNTED ON EXTERIOR WALLS MUST BE PAINTED TO MATCH THE WALL COLOR.
- AVAILABLE FAULT CURRENT LABELING IN LIEU OF THE MAXIMUM AVAILABLE FAULT CURRENT MARKING AS REQUIRED BY NEC 110.24, A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED TO SERVICE EQUIPMENT AT THE TIME OF INSTALLATION. THIS LABEL SHALL INCLUDE THE AVAILABLE FAULT CURRENT AND THE DATE OF THE CALCULATION.
- THE CONTRACTOR MUST SCHEDULE A MEETING WITH THE OWNER AT LEAST ONE WEEK PRIOR TO MOUNTING ANY ELECTRICAL EQUIPMENT ON THE EXTERIOR WALL OF THE BUILDING TO CONFIRM EQUIPMENT POSITIONS AND ORIENTATIONS. SHOULD THE CONTRACTOR FAIL TO ARRANGE SUCH A MEETING, THE CONTRACTOR WILL BE RESPONSIBLE FOR MAKING ANY CORRECTIONS REQUIRED BY THE OWNER AT THE CONTRACTOR'S SOLE EXPENSE.

NOTE FOR SHORT CIRCUIT CALCULATIONS:

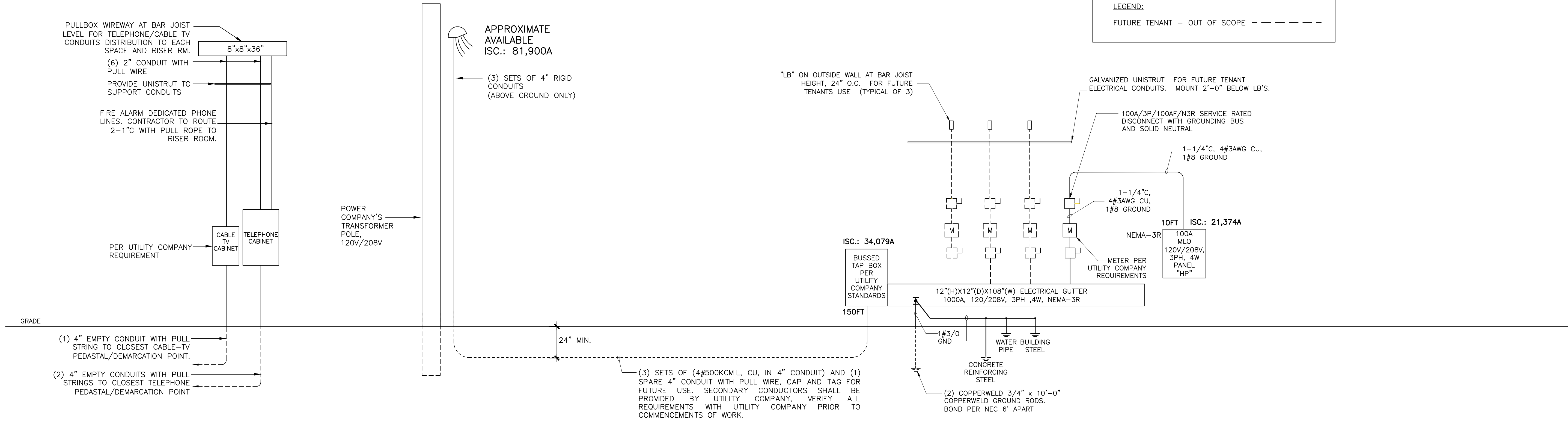
UNLESS SUPPLIED BY THE UTILITY COMPANY, THE FAULT CURRENT LEVEL SHALL BE DETERMINED FROM TABLE 1 "SHORT CIRCUIT CURRENTS AVAILABLE FROM VARIOUS SIZE TRANSFORMERS (BASED ON WORST CASE IMPEDANCE)" IN BUSSMANN'S ELECTRICAL PROTECTION HANDBOOK

SERVICE EQUIPMENT AVAILABLE
FAULT CURRENT LABELING

PROVIDE A 2 x 3 INCH LABEL WITH BLUE LETTERING ON CONTRASTING BACKGROUND PERMANENTLY AFFIXED TO THE SERVICE DISCONNECT / EQUIPMENT PRIOR TO ENERGIZING THE SERVICE EQUIPMENT. THE LABEL SHALL INCLUDE THE DATE OF INSTALLATION AND THE DATE OF CALCULATION. THE DATE OF CALCULATION SHALL BE THE DATE INDICATED BY THE ENGINEER OF RECORD'S SEAL ON THE CONSTRUCTION DOCUMENT ELECTRICAL ONE-LINE DIAGRAM/RISER DRAWING.

LEGEND:

FUTURE TENANT - OUT OF SCOPE - - - - -



ELECTRICAL ONE LINE RISER

SCALE: NONE

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PANEL 'HP' (HOUSE PANEL)

- NOTES:
- ALL BREAKERS TO BE 20A/1P U.N.O.
 - BALANCE ALL LOADS.
 - LABEL ALL CIRCUITS.

MAINS AMPS : 100
MAINS TYPE : MLO
AIC RATING : 28,000
NEMA RATING : NEMA 3R
MOUNTING : SURFACE
LOCATION : OUTSIDE

VOLTS : 120/208V
PHASE : 3 PH
WIRE : 4 W

LOAD DESCRIPTION	WIRE	LOAD VA	BKR SIZE	CKT NR.	PHASE A B C	CKT NR.	BKR SIZE	LOAD VA	WIRE	LOAD DESCRIPTION
SITE LIGHTING *	#8	186	20/2	1		2	20/1	600	#12	IRRIGATION C.P.
-	#8	186	-	3		4	20/1	180	#12	GFI RECEPTACLES
SITE LIGHTING *	#10	129	20/2	5		6	20/2	213	#12	BUILDNG LIGHTING *
-	#10	129	-	7		8	-	213	#12	-
LIFT STATION P-1	#4	2399	25/3	9		10	30/2	1500	#4	SEPTIC PUMP-1
-	#4	2399	-	11		12	-	1500	#4	-
-	#4	2399	-	13		14	30/2	1500	#4	SEPTIC PUMP-2
SPARE	-	-	20/1	15		16	-	1500	#4	-
SPARE	-	-	20/1	17		18	25/3	2399	#4	LIFT STATION P-2
MONUMENT SIGN	#8	1000	30/3	19		20	-	2399	#4	-
-	#8	1000	-	21		22	-	2399	#4	-
-	#8	1000	-	23		24	-	-	-	SPACE ONLY

LIGHTING: 1,056 X 1.25 = 1,320 VA
MISCELLANEOUS: 24,174 X 1.00 = 24,174 VA
TOTAL = 25,494 VA

AT 208V, 3 PH -----> 70.8 AMPS

PANEL CAPACITY IS 100 AMPS

* CONTROLLED VIA ROOF PHOTO CELL AND TIME CLOCK

ELECTRICAL LOAD ANALYSIS
RETAIL BUILDING

SERVICE AT 120/ 208 V, 3ø, 4 W :	VA
ESTIMATED RETAIL & RESTAURANT LOAD : 7,861 S.F. X 40W / S.F. =	314,440
HOUSE PANEL: HP	
LIGHTING AT 125% PER N.E.C. =	1,320
RECEPTACLES =	180
HVAC AT 100% PER N.E.C. =	0
KITCHEN EQUIPMENT PER N.E.C. =	0
MISCELLANEOUS AT 100% PER N.E.C =	24,174
WATER HEATER AT 100% =	0
LARGEST MOTOR AT 25% =	1,800
TOTAL ESTIMATED CONNECTED LOAD =	341,914
341,914 VA / 208V, 3PH =	950.2 AMPS
PROVIDED SERVICE SHALL BE 1000A, 120/208V, 3PH, 4W	

ELECTRICAL PANEL SCHEDULE & LOAD ANALYSIS

SCALE: NONE

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No.	DESCRIPTION	DATE
	For Permit	09-29-2025
Δ	City Comments	09-21-2026

DRAWN BY: MA

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PROJECT NO.: APM_2519

SHEET TITLE:

ELECTRICAL
ONE LINE RISER
& LOAD
ANALYSIS

SHEET NUMBER:

E-4.0