NOTE: PANEL HPC DOES NOT GET INSTALLED ON BUILDING TYPE WITH CLUBHOUSE. ALL CIRCUITS NOTED TO GO TO PANEL HPC SHALL BE ROUTED TO PANEL PC WITH SAME CIRCUIT NUMBER.

NEMA 3R TELECOMM TERMINAL CABINET FOR TELECOMM SERVICE TO BUILDING. PROVIDE 4" CONDUIT TO DISTRIBUTION POINT DIRECTED BY SERVICE PROVIDER.

WALL MOUNTED PHOTOCELL FOR CONTROL OF BREEZEWAY LIGHTS. INTERIOR CORRIDOR LIGHTS SHALL NOT BE ROUTED THROUGH PHOTOCELL AND SHALL BE ON AT ALL TIMES. PROVIDE UNSWITCHED CONDUCTOR ROUTED AHEAD OF PHOTOCELL FOR EMERGENCY LIGHTING, EXIT LIGHTING AND BATTERY BACK-UP.

PROVIDE INTERMATIC MODEL ET2805C ASTRONOMIC 1-CIRCUIT ELECTRONIC CONTROL, 120 VOLT, SPST TIME SWITCH WITH INDOOR METAL ENCLOSURE TO CONTROL PARKING LOT LIGHTING. REFERENCE SITE PLAN FOR LIGHTS TO BE ROUTED THROUGH TIME SWITCH.

ARCHITECTS

CONSTRUCTION
As Noted on Plans Review

ARCHITECTURE LANDSCAPE ARCHITECTURE

P.913.831.1415 NSPJARCH.COM

9415 NALL AVE., #300 PRAIRIE VILLAGE, KANSAS,66207

7/3/2025



DRAWING RELEASE LOG

■ 02/23/2024 100% DD Set

■ 03/22/24 50% CD Set

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△ REVISIONS

2 10/9/24 Revision 2

MISSOURI PE COA #2009003629

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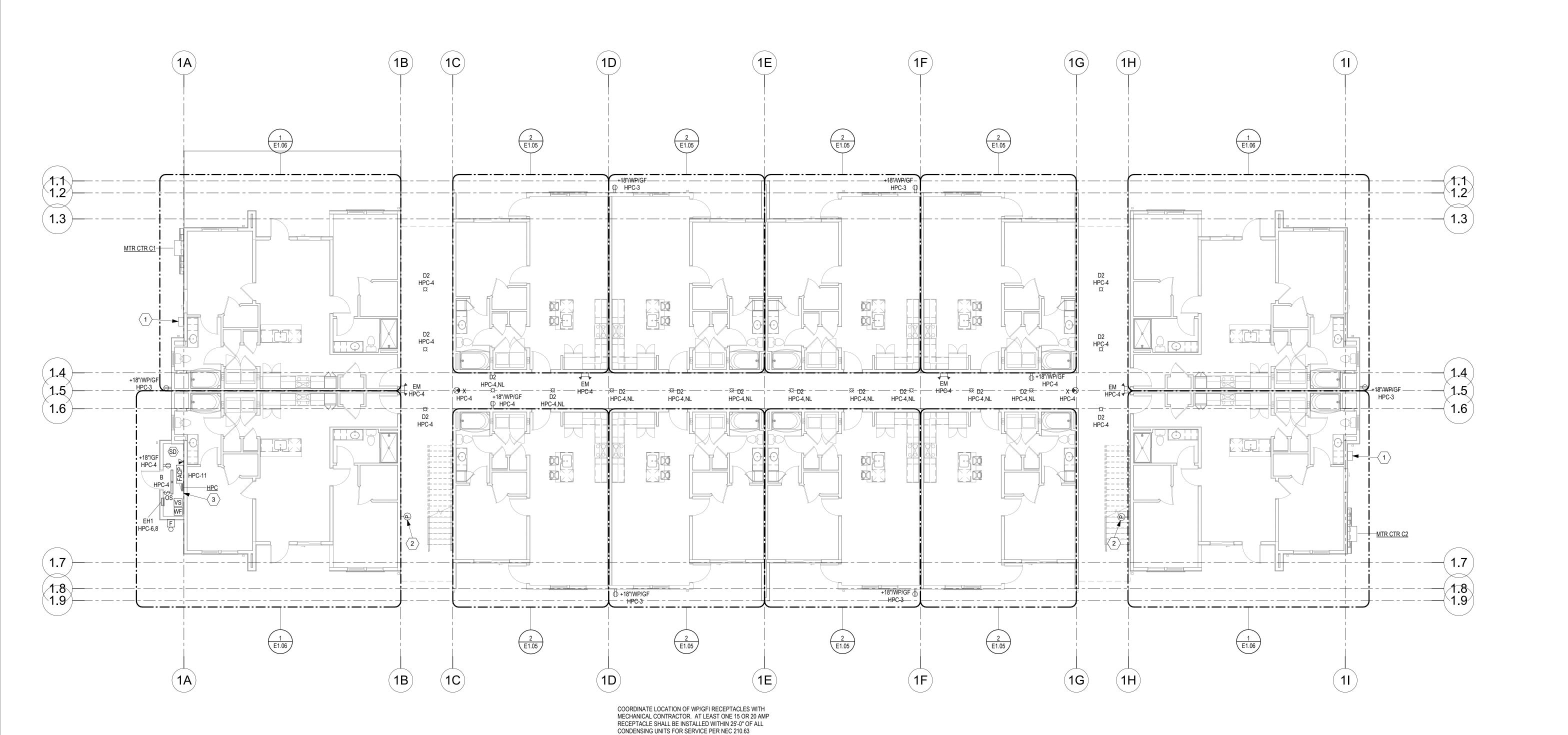
CD SET/PERMIT SHEET NAME LEVEL 1 ELECTRICAL PLAN
BUILDING C
SHEET NO.

E 1 0 1 C

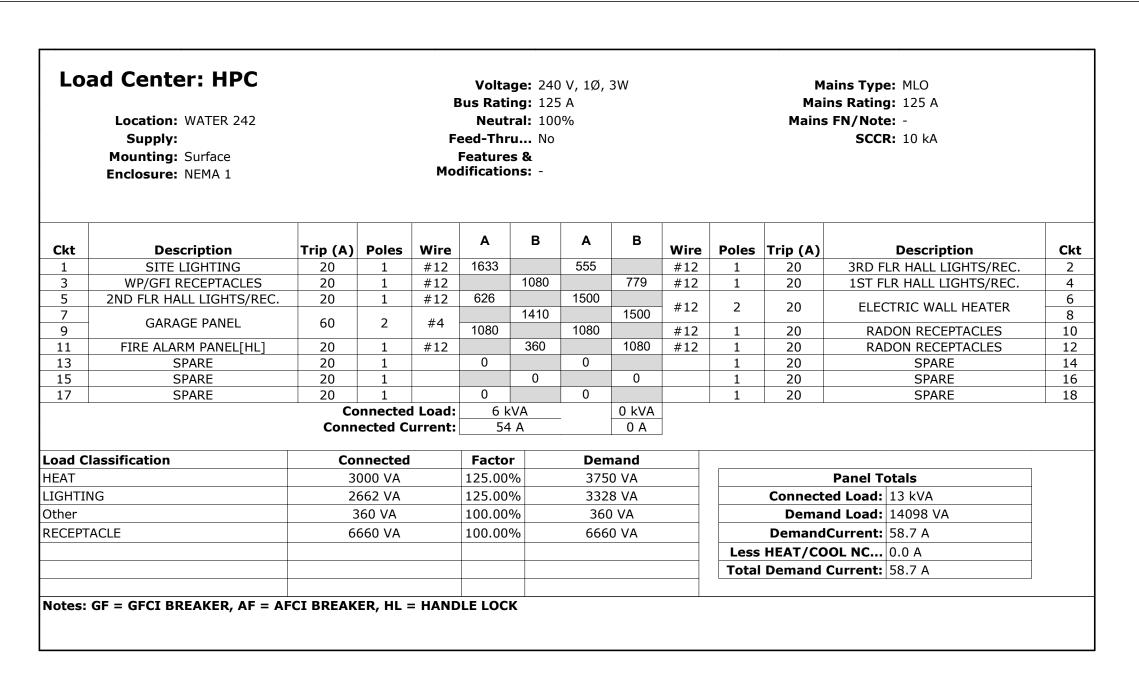
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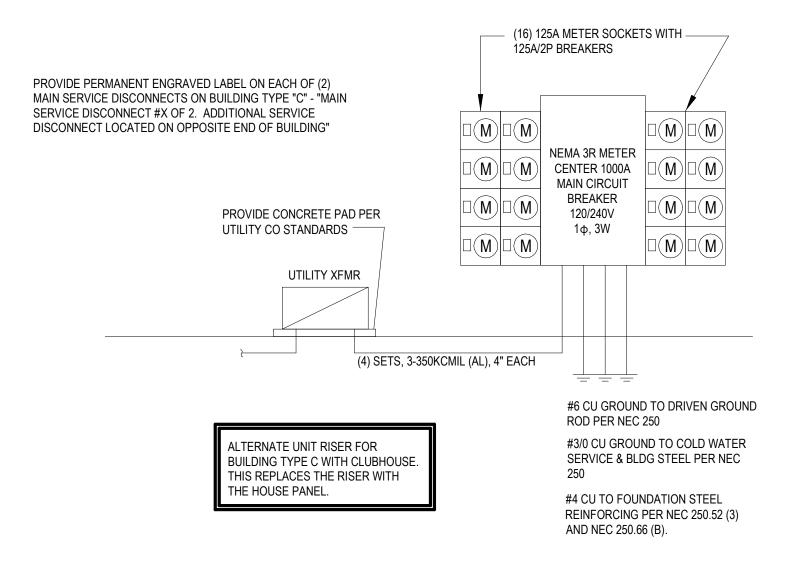
DRAWN BY DS/BK

04.19.24



1 LEVEL 1 ELECTRICAL PLAN BUILDING C E1.010 1/8" = 1'-0"





1/2 BUILDING C NEC 220.84 SF W/SF WATTS 12884 3 **GENERAL LIGHTING** 38652 WATTS UNITS 16 1500 32 48000 SMALL APPLIANCE 1500 16 LAUNDRY 24000 **CLOTHES DRYER** 5000 16 80000 8000 16 RANGE/OVEN 128000 **MICROWAVE** 1200 19200 DISPOSAL 900 14400 1200 16 DISHWASHER 19200 REFRIGERATOR 800 12800 4500 16 72000 WATER HEATER 49824 AIR CONDITIONING HEATING 119744 119744 DIVERSIFIED MAX OF A/C OR HEAT DEMAND FACTOR PER TABLE 220.84 0.39 224638 TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE... TOTAL UNIT DIVERSIFIED LOAD (AMPS) 936 SERVICE SIZE - 120/240 V, 1-PHASE

UNIT AIC RATING CHART: <50' = 22,000A >50' = 10,000A

UNIT FEEDER CHART

TO 125A/2P

TO 125A/2P

BREAKER AT ⊱

METER CENTER

BREAKER AT

METER CENTER

125A PANEL: IF FEEDER DISTANCE IS LESS THAN 100' -1/0-1/0-1/0-2(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2/0-2/0-2/0-1(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3/0-3/0-3/0-1/0(AL) SER CABLE

IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4/0-4/0-4/0-2/0(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -250-250-250-3/0(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -300-300-300-4/0(AL) SER CABLE IF FEEDER DISTANCE IS GREATER THAN 245' -350-350-350-250(AL) SER CABLE

TYPICAL LOAD

CENTER

120/240V

1φ, 3W

125A MLO

TYPICAL LOAD

CENTER

120/240V

1φ, 3W

125A MLO

TYPICAL LOAD

CENTER

120/240V

1φ, 3W

125A MLO

1/2 BUILDING C NEC 220.84 W/SF WATTS **GENERAL LIGHTING** 14928 3 44784 WATTS UNITS 18 SMALL APPLIANCE 1500 36 54000 1500 18 LAUNDRY 27000 CLOTHES DRYER 5000 18 90000 RANGE/OVEN 8000 18 144000 MICROWAVE 1200 18 21600 DISPOSAL 900 18 16200 21600 1200 18 **DISHWASHER** 800 18 REFRIGERATOR 14400 WATER HEATER 4500 18 81000 56880 AIR CONDITIONING 137712 HEATING DIVERSIFIED MAX OF A/C OR HEAT 137712 **DEMAND FACTOR PER TABLE 220.84** 0.38 247872 TOTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABLE... TOTAL UNIT DIVERSIFIED LOAD (AMPS) 1033 **HOUSE PANEL DEMAND - 1-PHASE** 58.5 1091 SERVICE SIZE - 120/240 V, 1-PHASE **UNIT AIC RATING CHART:** <50' = 22,000A >50' = 10,000A **UNIT FEEDER CHART:** 125A PANEL: IF FEEDER DISTANCE IS LESS THAN 100' -1/0-1/0-2(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 100' AND 130' -2/0-2/0-1(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 130' AND 155' -3/0-3/0-3/0-1/0(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 155' AND 180' -4/0-4/0-4/0-2/0(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 180' AND 215' -250-250-250-3/0(AL) SER CABLE IF FEEDER DISTANCE IS BETWEEN 215' AND 455' -300-300-300-4/0(AL) SER CABLE IF FEEDER DISTANCE IS GREATER THAN 245' -350-350-350-250(AL) SER CABLE

(19) 125A METER SOCKETS WITH _____

NEMA 3R METER

MAIN CIRCUIT

120/240V

1φ, 3W

#6 CU GROUND TO DRIVEN GROUND

#3/0 CU GROUND TO COLD WATER

SERVICE & BLDG STEEL PER NEC

#4 CU TO FOUNDATION STEEL

REINFORCING PER NEC 250.52 (3)

ROD PER NEC 250

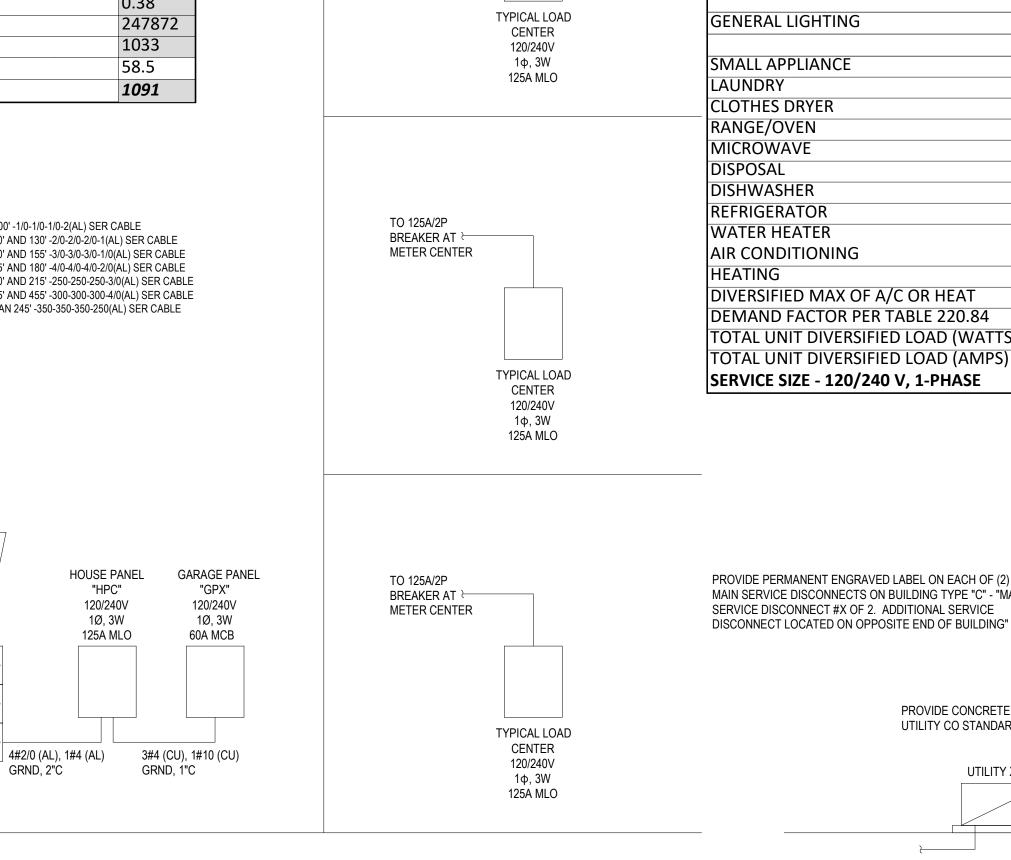
AND NEC 250.66 (B).

BREAKER

125A/2P BREAKERS

 $\square(M)\square(M)\square(M)$ CENTER 1200A

 $\square(\mathsf{M})\square(\mathsf{M})\square(\mathsf{M})$

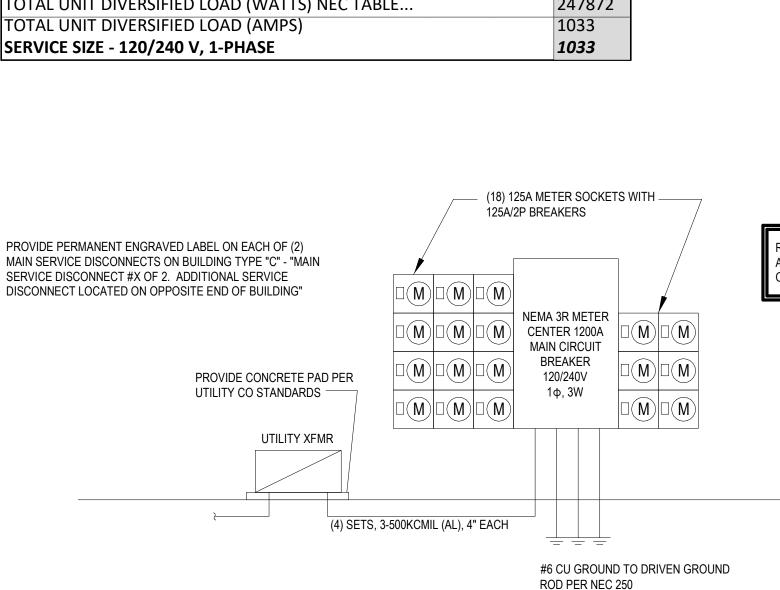


TO 125A/2P

BREAKER AT

METER CENTER

NEC 220.84	1/2 BUILDING C		
	SF	W/SF	WATTS
GENERAL LIGHTING	14928	3	44784
	WATTS	UNITS	18
MALL APPLIANCE	1500	36	54000
AUNDRY	1500	18	27000
CLOTHES DRYER	5000	18	90000
RANGE/OVEN	8000	18	144000
/ICROWAVE	1200	18	21600
DISPOSAL	900	18	16200
DISHWASHER	1200	18	21600
REFRIGERATOR	800	18	14400
VATER HEATER	4500	18	81000
AIR CONDITIONING	'		56880
HEATING			137712
DIVERSIFIED MAX OF A/C OR HEAT			137712
DEMAND FACTOR PER TABLE 220.84			0.38
OTAL UNIT DIVERSIFIED LOAD (WATTS) NEC TABL	.E		247872
OTAL UNIT DIVERSIFIED LOAD (AMPS)			1033
SERVICE SIZE - 120/240 V, 1-PHASE			1033



REFERENCE ALTERNATE UNIT RISER ABOVE FOR BUILDING TYPE C WITH CLUBHOUSE

ROD PER NEC 250 #3/0 CU GROUND TO COLD WATER SERVICE & BLDG STEEL PER NEC #4 CU TO FOUNDATION STEEL

REINFORCING PER NEC 250.52 (3) AND NEC 250.66 (B).

TO 125A/2P BREAKER AT \vdash METER CENTER

> 2 10/9/24 Revision 2

MISSOURI PE COA #2009003629

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JOB NO. 740623 04.19.24 **DRAWN BY** DS/BK CD SET/PERMIT

DRAWING RELEASE LOG

03/22/24 50% CD Set

• 04/19/24 90% CD Set

SHEET NAME **ELECTRICAL SCHEDULES &** RISER BUILDING C

As Noted on Plans Review

ARCHITECTURE

LANDSCAPE

ARCHITECTURE

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PRAIRIE VILLAGE,

KANSAS,66207

7/3/2025

ELECTRICAL RISER DIAGRAM - BLDG C E3.019 1/8" = 1'-0"

(4) SETS, 3-500KCMIL (AL), 4" EACH

SEE ALTERNATE UNIT RISER THIS SHEET FOR BUILDING TYPE C WITH CLUBHOUSE. THIS RISER IS REPLACED FOR THE BUILDING WITH

THE CLUBHOUSE.

PROVIDE CONCRETE PAD PER

UTILITY XFMR

UTILITY CO STANDARDS -

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