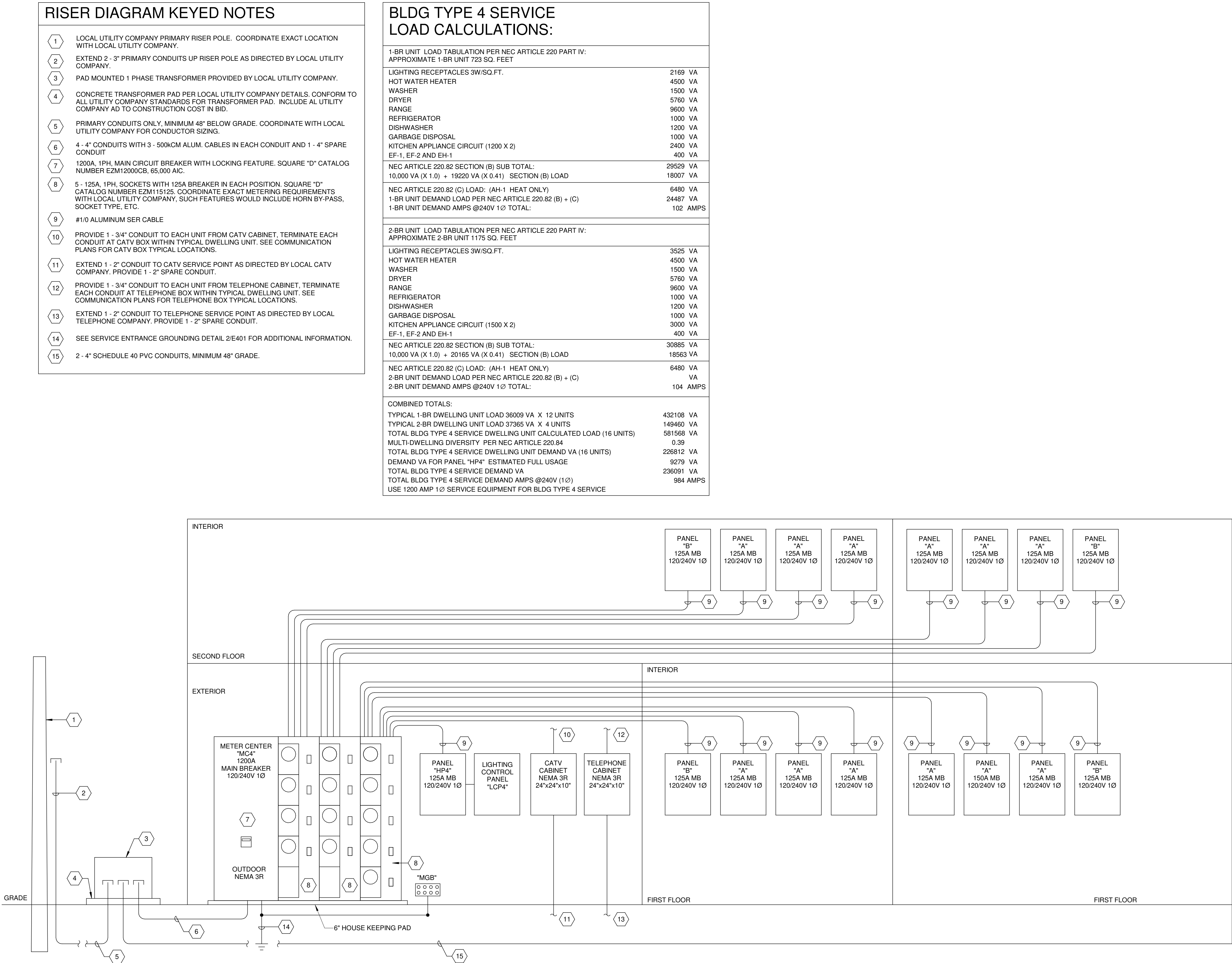


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RISER DIAGRAM KEYED NOTES

- 1 LOCAL UTILITY COMPANY PRIMARY RISER POLE. COORDINATE EXACT LOCATION WITH LOCAL UTILITY COMPANY.
- 2 EXTEND 2 - 3" PRIMARY CONDUITS UP RISER POLE AS DIRECTED BY LOCAL UTILITY COMPANY.
- 3 PAD MOUNTED 1 PHASE TRANSFORMER PROVIDED BY LOCAL UTILITY COMPANY.
- 4 CONCRETE TRANSFORMER PAD PER LOCAL UTILITY COMPANY DETAILS. CONFORM TO ALL UTILITY COMPANY STANDARDS FOR TRANSFORMER PAD. INCLUDE AL UTILITY COMPANY AD TO CONSTRUCTION COST IN BID.
- 5 PRIMARY CONDUITS ONLY, MINIMUM 48" BELOW GRADE. COORDINATE WITH LOCAL UTILITY COMPANY FOR CONDUCTOR SIZING.
- 6 4 - 4" CONDUITS WITH 3 - 500KCM ALUM. CABLES IN EACH CONDUIT AND 1 - 4" SPARE CONDUIT
- 7 1200A, 1PH, MAIN CIRCUIT BREAKER WITH LOCKING FEATURE. SQUARE "D" CATALOG NUMBER EZM12000CB, 65,000 AIC.
- 8 5 - 125A, 1PH, SOCKETS WITH 125A BREAKER IN EACH POSITION. SQUARE "D" CATALOG NUMBER EZM115125. COORDINATE EXACT METERING REQUIREMENTS WITH LOCAL UTILITY COMPANY. SUCH FEATURES WOULD INCLUDE HORN BY-PASS, SOCKET TYPE, ETC.
- 9 #1/0 ALUMINUM SER CABLE
- 10 PROVIDE 1 - 3/4" CONDUIT TO EACH UNIT FROM CATV CABINET, TERMINATE EACH CONDUIT AT CATV BOX WITHIN TYPICAL DWELLING UNIT. SEE COMMUNICATION PLANS FOR CATV BOX TYPICAL LOCATIONS.
- 11 EXTEND 1 - 2" CONDUIT TO CATV SERVICE POINT AS DIRECTED BY LOCAL CATV COMPANY. PROVIDE 1 - 2" SPARE CONDUIT.
- 12 PROVIDE 1 - 3/4" CONDUIT TO EACH UNIT FROM TELEPHONE CABINET, TERMINATE EACH CONDUIT AT TELEPHONE BOX WITHIN TYPICAL DWELLING UNIT. SEE COMMUNICATION PLANS FOR TELEPHONE BOX TYPICAL LOCATIONS.
- 13 EXTEND 1 - 2" CONDUIT TO TELEPHONE SERVICE POINT AS DIRECTED BY LOCAL TELEPHONE COMPANY. PROVIDE 1 - 2" SPARE CONDUIT.
- 14 SEE SERVICE ENTRANCE GROUNDING DETAIL 2/E401 FOR ADDITIONAL INFORMATION.
- 15 2 - 4" SCHEDULE 40 PVC CONDUITS, MINIMUM 48" GRADE.

BLDG TYPE 4 SERVICE LOAD CALCULATIONS:

1-BR UNIT LOAD TABULATION PER NEC ARTICLE 220 PART IV: APPROXIMATE 1-BR UNIT 723 SQ. FEET		
LIGHTING RECEPTACLES 3W/SQ.FT.	2169	VA
HOT WATER HEATER	4500	VA
WASHER	1500	VA
DRYER	5760	VA
RANGE	9600	VA
REFRIGERATOR	1000	VA
DISHWASHER	1200	VA
GARBAGE DISPOSAL	1000	VA
KITCHEN APPLIANCE CIRCUIT (1200 X 2)	2400	VA
EF-1, EF-2 AND EH-1	400	VA
NEC ARTICLE 220.82 SECTION (B) SUB TOTAL:	29529	VA
10,000 VA (X 1.0) + 19220 VA (X 0.41) SECTION (B) LOAD	18007	VA
NEC ARTICLE 220.82 (C) LOAD: (AH-1 HEAT ONLY)	6480	VA
1-BR UNIT DEMAND LOAD PER NEC ARTICLE 220.82 (B) + (C)	24487	VA
1-BR UNIT DEMAND AMPS @240V 1Ø TOTAL:	102	AMPS
2-BR UNIT LOAD TABULATION PER NEC ARTICLE 220 PART IV: APPROXIMATE 2-BR UNIT 1175 SQ. FEET		
LIGHTING RECEPTACLES 3W/SQ.FT.	3525	VA
HOT WATER HEATER	4500	VA
WASHER	1500	VA
DRYER	5760	VA
RANGE	9600	VA
REFRIGERATOR	1000	VA
DISHWASHER	1200	VA
GARBAGE DISPOSAL	1000	VA
KITCHEN APPLIANCE CIRCUIT (1500 X 2)	3000	VA
EF-1, EF-2 AND EH-1	400	VA
NEC ARTICLE 220.82 SECTION (B) SUB TOTAL:	30885	VA
10,000 VA (X 1.0) + 20165 VA (X 0.41) SECTION (B) LOAD	18563	VA
NEC ARTICLE 220.82 (C) LOAD: (AH-1 HEAT ONLY)	6480	VA
2-BR UNIT DEMAND LOAD PER NEC ARTICLE 220.82 (B) + (C)		VA
2-BR UNIT DEMAND AMPS @240V 1Ø TOTAL:	104	AMPS
COMBINED TOTALS:		
TYPICAL 1-BR DWELLING UNIT LOAD 36009 VA X 12 UNITS	432108	VA
TYPICAL 2-BR DWELLING UNIT LOAD 37365 VA X 4 UNITS	149460	VA
TOTAL BLDG TYPE 4 SERVICE DWELLING UNIT CALCULATED LOAD (16 UNITS)	581568	VA
MULTI-DWELLING DIVERSITY PER NEC ARTICLE 220.84	0.39	
TOTAL BLDG TYPE 4 SERVICE DWELLING UNIT DEMAND VA (16 UNITS)	226812	VA
DEMAND VA FOR PANEL "HP4" ESTIMATED FULL USAGE	9279	VA
TOTAL BLDG TYPE 4 SERVICE DEMAND VA	236091	VA
TOTAL BLDG TYPE 4 SERVICE DEMAND AMPS @240V (1Ø)	984	AMPS
USE 1200 AMP 1Ø SERVICE EQUIPMENT FOR BLDG TYPE 4 SERVICE		

RISER DIAGRAM BLDG TYPE 4

SCALE: 12" = 1'-0"

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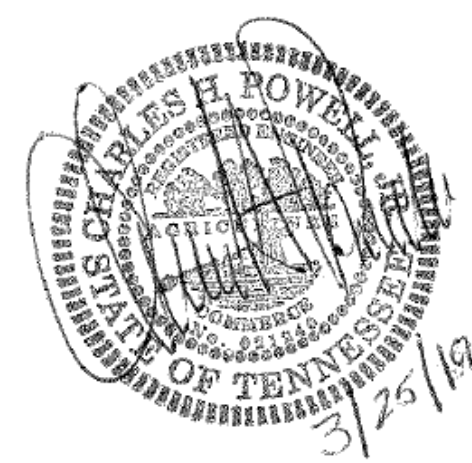
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PROJECT INFORMATION

PROJECT:

WESTWOOD AT WINTER HAVEN

PROJECT ADDRESS:

xxxx Avenue G
Winter Haven, FL 36901
PROJECT NO.: 180888

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ☒ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

REVISION INFORMATION

NO.	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

SHEET ISSUED: 3-25-19
DESIGNED BY: WAH
DRAWN BY: WAH
REVIEWED BY: CHP
SHEET TITLE:

RISER DIAGRAM - BUILDING TYPE 4

SHEET NO.:

E404