

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. 3 - 4" CONDUITS WITH 5 - 600KCM ALUM. CABLES IN EACH CONDUIT AND 1 - 4" SPARE CONDUIT
7. 1600A, 1PH, MAIN CIRCUIT BREAKER WITH LOCKING FEATURE. SQUARE "D" CATALOG NUMBER EZM11600CB, 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 E/401 FOR ADDITIONAL INFORMATION.
15. 2 - 4" SCHEDULE 40 PVC CONDUITS, MINIMUM 48" GRADE.

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 (1200 X 2)	2400 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) + 19220 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)	25043 VA
2-BR UNIT DEMAND AMPS @240V 1Ø TOTAL:	104 AMPS
COMBINED TOTALS:	
TYPICAL 2-BR DWELLING UNIT LOAD 37365 VA X 20 UNITS	747300 VA
TOTAL BLDG TYPE 3 SERVICE DWELLING UNIT CALCULATED LOAD (20 UNITS)	747300 VA
MULTI-DWELLING DIVERSITY PER NEC ARTICLE 220.84	0.38
TOTAL BLDG TYPE 3 SERVICE DWELLING UNIT DEMAND VA (20 UNITS)	283974 VA
DEMAND VA FOR PANEL "HP3" ESTIMATED FULL USAGE	10310 VA
TOTAL BLDG TYPE 3 SERVICE DEMAND VA	294284 VA
TOTAL BLDG TYPE 3 SERVICE DEMAND AMPS @240V (1Ø)	1226 AMPS
USE 1600 AMP 1Ø SERVICE EQUIPMENT FOR BLDG TYPE 3 SERVICE	



1